

## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barone Cottage, Duthie County of Bute, in Lat. 55° 49' 50" Long. 5° 45', Distance from Sea \_\_\_\_\_ miles.Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet.During the MONTH of January 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER.          |                       |                   |                       | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |  |                       | HYGROMETER. |           |           |           | RAIN.                          |                   | WIND.      |        |            |        | CLOUDS.                            |                                 |                             |                                 | THERMOMETERS under Ground.  |               |                     |                | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. |   |                                       |       |               |                |         |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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|              |                | 9 h. A.M.           |                       | 9 h. P.M.         |                       | Protected in Shade, 4 feet above Ground.                |             | Exposed Black Bulb, 4 feet above Ground. |                       | 9 h. A.M.   |           | 9 h. P.M. |           | No. of hours in which it fell. | Amount in inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | Readings of the H. Cup Anemometer. |                                 | 9 A.M.                      |                                 | P.M.                        |               | SUNSHINE.<br>Hours. | 9 h. A.M.      |      |        |   |                | Temperature of WELL at depth of feet. No. | Temperature at 1 fathom, and Density. | 0—10. | 9 A.M. 9 P.M. |                |         |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                | Barometer.<br>* No. | Attached Thermometer. | Barometer.<br>No. | Attached Thermometer. | Max.<br>No.   | Min.<br>No. | Max. in Sunways.<br>No.                  | Min. on Grass.<br>No. | Dry bulb.   | Wet bulb. | Dry bulb. | Wet bulb. |                                |                   | Direction. | Force. | Direction. | Force. | 9 h. A.M.                          | Velocity (0—10), and Direction. | Amount (0—10), and Species. | Velocity (0—10), and Direction. | Amount (0—10), and Species. | No. 8 inches. |                     | No. 12 inches. |      |        |   |                |   |                                       |       |               | No. 22 inches. |         |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                |                     |                       |                   |                       |   |             |  |                       |             |           |           |           |                                |                   |            |        |            |        |                                    |                                 |                             |                                 |                             |               |                     |                |      |        |   |                |   |                                       |       |               |                | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.696  
for Temp. (Col. 2), = 29.732 — 0.036 = 29.696  
Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.697  
for Temp. (Col. 4), = 29.733 — 0.036 = 29.697  
Mean at Station, corrected, and at 32°, = 29.697  
Correction for height, feet above Mean Sea-level, = 0.127  
Mean, reduced to 32°, and Sea-level, = 29.824  
Highest Reading, corrected for Index error, on the th, = 30.370  
Lowest Do. Do., on the th, = 28.730  
Difference, or Monthly Range, = 1.640

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = 54.0  
Lowest in Month, corrected for Index errors, on the th, = 22.0  
Difference, or Monthly Range, = 32.0  
"Corrected Mean" of all the Highest, (Col. 5), = 43.5  
"Corrected Mean" of all the Lowest, (Col. 6), = 34.6  
Difference, or Mean Daily Range, = 8.9  
\*\* Calculated Mean Temperature of Month, = 39.0  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = 54.0  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 54.0  
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, = 22.0  
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 34.6  
Difference of above Means or Range ("exposed"), = 8.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 38.5  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.0  
† Computed Temperature of Dew-Point, = 35.0  
† Do. Elastic Force of Vapour, = 0.204  
† Do. Weight of Vapour in a Cubic Foot of Air, = 0.001  
† Relative Humidity, (Saturation = 100), = 88  
RAIN fell on 24 Days; Amount in Inches, = 4.12

| WIND. | SUMMARY.   |   |    |   |    |   |    |   |      |                                 |
|-------|------------|---|----|---|----|---|----|---|------|---------------------------------|
|       | Direction. | N | NE | E | SE | S | SW | W | NW   | Mean Velocity in miles per day. |
| A.M.  |            | 4 | 1  | 3 | 10 | 9 | 1  | 1 | 2    | 0.85                            |
| P.M.  |            | 1 | 5  | 6 | 6  | 5 | 1  | 7 | 0.77 |                                 |
| Mean. |            | 0 | 3  | 0 | 4  | 8 | 7  | 3 | 1    | 0.81 = 0.66 lbs.                |

Observations made and Return verified by

James May

(Signed)

James May

H.R.  
H.W.







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow Cottage, County of Bute, in Lat. 55° 45', Long. 5° 45', Distance from Sea 10 miles.Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet.During the MONTH of February 1884.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER.                |                                |                         |                                | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |                   |                         |                   | HYGROMETER.  |              |              |              | RAIN.                                   |                      | WIND.      |        |            |        | CLOUDS.  |  |                                       |  | THERMOMETERS<br>under Ground.         |                     |                        | SEA.                    |                         | OZONE.  |   | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. |  | Days of Month. |                            |
|--------------|----------------|---------------------------|--------------------------------|-------------------------|--------------------------------|---|-------------------|-------------------------|-------------------|--------------|--------------|--------------|--------------|---|----------------------|------------|--------|------------|--------|--|--|---------------------------------------|--|---------------------------------------|---------------------|------------------------|-------------------------|-------------------------|---|---|--|--|----------------|----------------------------|
|              |                | 9 h. A.M.                 |                                | 9 h. P.M.               |                                | Protected in<br>Shade, 4 feet above<br>Ground.          |                   | Exposed<br>Black Bulbs. |                   | 9 h. A.M.    |              | 9 h. P.M.    |              | No. of<br>hours in<br>which<br>it fell. | Amount in<br>inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | Readings of<br>the H. Cup<br>Anemometer.<br>No. _____<br>9 h. A.M. | 9 A.M.                                   |                                       | P.M.                                     |                                       | SUNSHINE.<br>Hours. | 9 h. A.M.              |                         |                         | Temperature of<br>Wet, at depth of<br>feet. No. _____ | Temperature<br>at 1 in. from<br>surface, and Dew-<br>point. |  |  |                | 0—10.<br><br>9 A.M. 9 P.M. |
|              |                | Barometer.<br>* No. _____ | Attach-<br>ed Ther-<br>mometer | Barometer.<br>No. _____ | Attach-<br>ed Ther-<br>mometer | Max.<br>No. _____                                       | Min.<br>No. _____ | Max.<br>No. _____       | Min.<br>No. _____ | Dry<br>bulb. | Wet<br>bulb. | Dry<br>bulb. | Wet<br>bulb. |   |                      | Direction. | Force. | Direction. | Force. |  | Velocity<br>(0—10),<br>and<br>Direction. | Amount,<br>(0—10),<br>and<br>Species. | Velocity<br>(0—10),<br>and<br>Direction. | Amount,<br>(0—10),<br>and<br>Species. |                     | No. _____<br>8 inches. | No. _____<br>12 inches. | No. _____<br>22 inches. |   |   |  |  |                |                            |
|              |                |                           |                                |                         |                                |   |                   |                         |                   |              |              |              |              |   |                      |            |        |            |        |  |  |                                       |  |                                       |                     |                        |                         |                         |   |   |  |  |                |                            |
|              |                | 1                         | 2                              | 3                       | 4                              | 5   | 6                 | 7                       | 8                 | 9            | 10           | 11           | 12           |   |                      | 13         | 14     | 15         | 16     |  | 17                                       | 18                                    | 19                                       | 20                                    |                     | 21                     | 22                      | 23                      |   |   |  |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           | 12           | 13           | 14                                      | 15                   | 16         | 17     | 18         | 19     | 20   | 21                                       | 22                                    | 23                                       | 24                                    | 25                  | 26                     | 27                      | 28                      | 29  | 30  | 31   |  |                |                            |
|              | 1              | 2                         | 3                              | 4                       | 5                              | 6   | 7                 | 8                       | 9                 | 10           | 11           |              |              |   |                      |            |        |            |        |  |  |                                       |  |                                       |                     |                        |                         |                         |   |   |  |  |                |                            |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 30.055  
for Temp. (Col. 2), = 30.047... - .042...  
Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 30.075  
for Temp. (Col. 4), = 30.048... - .043...  
Mean at Station, corrected, and at 32°, = 30.065  
Correction for height, feet above Mean Sea-level, = -1.27  
Mean, reduced to 32°, and Sea-level, = 30.192  
Highest Reading, corrected for Index error, on the th, = 30.640  
Lowest Do. Do., on the th, = 29.190  
Difference, or Monthly Range, = 1.450

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 th, = 52.0  
Lowest in Month, corrected for Index errors, on the 9 th, = 28.6  
Difference, or Monthly Range, = 23.4  
"Corrected Mean" of all the Highest, (Col. 5), = 46.7  
"Corrected Mean" of all the Lowest, (Col. 6), = 36.7  
Difference, or Mean Daily Range, = 10.0  
\*\* Calculated Mean Temperature of Month, = 41.7

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =  
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =  
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =  
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 40.4  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 38.6  
† Computed Temperature of Dew-Point, = 36.3  
† Do. Elastic Force of Vapour, = .214  
† Do. Weight of Vapour in a Cubic Foot of Air, =  
† Relative Humidity, (Saturation = 100), = 86  
RAIN fell on 16 Days; Amount in Inches, = 2.74

| WIND.      |  | SUMMARY. |    |   |    |   |    |   |    |                   |             |
|------------|--|----------|----|---|----|---|----|---|----|-------------------|-------------|
| Direction. |  | N        | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. |
| A.M.       |  | 1        | 3  | 2 | 4  | 9 | 4  | 5 |    |                   | 0.96        |
| P.M.       |  |          | 2  | 3 | 5  | 6 | 5  | 2 | 5  |                   | 0.79        |
| Mean.      |  | 0        | 2  | 2 | 4  | 7 | 5  | 5 | 1  | 2                 | 0.88 = 0.77 |

\* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.  
† The Diurnal Range for Scotland is as yet unknown.  
†† Practically, though not absolutely a minute correction.  
‡ These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.  
§ While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."  
|| Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and  
Return verified by

(Signed)







Received at R. Obs. Edin. April 27.

too late for Quarterly Return

# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Baron's Cottage County of North

in Lat. 55° 49' 00" Long. 5° 45' 00" Distance from Sea 10 miles.

Height of Cistern of the Barometer above Mean Sea-level 110 feet, above Ground 3 feet.

During the MONTH of March 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month.                               | BAROMETER. |                          |            |                          | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |       |                        |      | HYGROMETER.<br>No. — |           |           |           | WIND.      |        |            |        | RAIN. | CLOUDS.                                  |   |                         |   | THERMOMETERS<br>under Ground.        |   |                                      | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. | Days of Month.    |                       |     |     |
|--------------|--|------------|--------------------------|------------|--------------------------|---|-------|------------------------|------|----------------------|-----------|-----------|-----------|------------|--------|------------|--------|-------|--|---|-------------------------|---|--------------------------------------|---|--------------------------------------|------|--------|--|-------------------|-----------------------|-----|-----|
|              |  | 9 h. A.M.  |                          | 9 h. P.M.  |                          | Protected in<br>Shade, 4 feet above<br>Ground.          |       | Exposed<br>Black Bulb. |      | 9 h. A.M.            |           | 9 h. P.M. |           | 9 h. A.M.  |        | 9 h. P.M.  |        |       | 9 A.M.                                   |   | P.M.                    |   | 9 h. A.M.                            |   |                                      |      |        |  |                   |                       |     |     |
|              |  | Barometer. | Attached<br>Thermometer. | Barometer. | Attached<br>Thermometer. | Max.  | Min.  | Max.                   | Min. | Dry bulb.            | Wet bulb. | Dry bulb. | Wet bulb. | Direction. | Force. | Direction. | Force. |       | Readings of<br>the H. Cup<br>Anemometer. | No. of<br>hours<br>in<br>which<br>it<br>fell. | Amount<br>in<br>inches. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. |      |        |  |                   | No.                   | No. | No. |
|              |  | * No.      | inches.                  | °          | inches.                  | °   | No.   | No.                    | No.  | No.                  | °         | °         | °         | °          |        |            |        |       |  | No.   | No.                     | No.                                     | No.                                  | No.                                     | No.                                  |      |        |  |                   | No.                   | No. | No. |
|              | 1  | 30.350     | 49                       | 30.420     | 49                       | 52.5  | 41.5  |                        |      | 45.5                 | 44.5      | 45        | 44.2      | SW 1.      | 5      |            |        | 0.35  |  | 10  |                         | 10                                      |                                      |   |                                      |      |        |  | Dull heavy & fine | 1                     |     |     |
|              | 2  | 30.450     | 50                       | 30.454     | 50                       | 49.5  | 44.5  |                        |      | 46                   | 46        | 46.2      | 45.5      | SW 1.      | 6      | WSW 1.     | 5      |       | 0.12                                     |   | 10                      |   | 10                                   |   |                                      |      |        |  | mild.             | 2                     |     |     |
|              | 3  | 30.430     | 50                       | 30.400     | 49                       | 48.5  | 43.5  |                        |      | 45                   | 43        | 45        | 42        | WSW 1.     | 5      | WSW 1.     | 5      |       |  |   | 10                      |   | 8                                    |   |                                      |      |        |  | Cloudy & fine     | 3                     |     |     |
|              | 4  | 30.390     | 47                       | 30.320     | 48                       | 51  | 53.4  |                        |      | 44                   | 40.8      | 35        | 34        | WSW 1.     | 5      | calm       |        |       |  |   | 10                      |   |                                      |   |                                      |      |        |  | 4 clear           | 4                     |     |     |
|              | 5  | 30.240     | 44                       | 30.134     | 45                       | 53  | 30.5  |                        |      | 36                   | 35        | 40        | 37.5      | E 5        | calm   |            |        |       |  |   |                         |   |                                      |   |                                      |      |        |  | clear             | 5                     |     |     |
|              | 6  | 30.130     | 43                       | 30.190     | 45                       | 48.6  | 36    |                        |      | 37.2                 | 36.3      | 37.5      | 36.5      | calm       |        | NE 5       | 5      |       |  |   | 2                       |   |                                      |   |                                      |      |        |  | 34 "              | 6                     |     |     |
|              | 7  | 30.258     | 44                       | 30.240     | 46                       | 49  | 35    |                        |      | 37.5                 | 36        | 39        | 37        | ENE 1.     | 5      | ENE 1.     | 5      |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   | clear heavy & drizzle | 7   |     |
|              | 8  | 30.150     | 43                       | 30.010     | 43                       | 42.5  | 35    |                        |      | 28                   | 36        | 40        | 36.5      | E 5        | calm   |            |        |       |  |   | 10                      |   | 10                                   |   |                                      |      |        |  |                   | Dull "                | 8   |     |
|              | 9  | 29.956     | 42                       | 30.020     | 46                       | 49.5  | 34.1  |                        |      | 42                   | 40        | 41.6      | 40        | NE 1.      | 5      | calm       |        |       |  |   | 10                      |   | 10                                   |   |                                      |      |        |  | fine              | 9                     |     |     |
|              | 10   | 30.020     | 41                       | 29.880     | 39                       | 43  | 32.5  |                        |      | 34                   | 32        | 33        | 32.5      | ENE 1.     | 5      | ENE 1.     | 5      |       | 23.5                                     |   | 10                      |   | 10                                   |   |                                      |      |        |  |                   | Dull heavy & cold     | 10  |     |
|              | 11   | 29.844     | 38                       | 29.910     | 36                       | 34  | 27.5  |                        |      | 30                   | 29.5      | 28        | 26.5      | ENE 1.     | 5      | NE 1.      | 5      |       | 32.5                                     |   | 10                      |   | 10                                   |   |                                      |      |        |  |                   | fine                  | 11  |     |
|              | 12   | 30.040     | 35                       | 30.146     | 35                       | 39.5  | 22.5  |                        |      | 29.5                 | 26.8      | 24.8      | 23.5      | NE 5       | 5      | NW 5       | 5      |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   | fine                  | 12  |     |
|              | 13   | 30.140     | 35                       | 30.000     | 36                       | 38  | 22    |                        |      | 30.3                 | 29.5      | 20.5      | 20        | NW 5       | 5      | NW 5       | 5      |       | 0.15                                     |   |                         |   |                                      |   |                                      |      |        |  |                   | fine                  | 13  |     |
|              | 14   | 29.800     | 37                       | 29.820     | 35                       | 42  | 28.5  |                        |      | 33.5                 | 32.5      | 29        | 26        | ENE 5      | 5      | N 5        | 5      |       |  |   | 10                      |   |                                      |   |                                      |      |        |  |                   | "                     | 14  |     |
|              | 15   | 29.840     | 35                       | 29.874     | 37                       | 42.5  | 23.5  |                        |      | 33                   | 29.5      | 32        | 31        | NNE 5      | 5      | N 5        | 5      |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   | "                     | 15  |     |
|              | 16   | 29.968     | 36                       | 30.080     | 39                       | 45.6  | 26.5  |                        |      | 28.5                 | 32        | 34        | 31        | NE 5       | 5      | calm       |        |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   | fine                  | 16  |     |
|              | 17   | 30.100     | 39                       | 30.100     | 41                       | 44.5  | 33.5  |                        |      | 37.5                 | 35        | 38.5      | 37        | calm       |        | calm       |        |       | 0.48                                     |   | 5                       |   | 10                                   |   |                                      |      |        |  |                   | fine                  | 17  |     |
|              | 18   | 30.130     | 41                       | 30.180     | 44                       | 48.5  | 34.2  |                        |      | 40                   | 38.5      | 38        | 36.5      | NE 5       | 5      | calm       |        |       |  |   | 6                       |   | 10                                   |   |                                      |      |        |  |                   | fine                  | 18  |     |
|              | 19   | 30.230     | 44                       | 30.280     | 45                       | 52  | 34    |                        |      | 45.5                 | 42.3      | 38        | 36        | SE 5       | 5      | calm       |        |       |  |   | 1                       |   | 10                                   |   |                                      |      |        |  |                   | fine                  | 19  |     |
|              | 20   | 30.110     | 42                       | 29.940     | 43                       | 47  | 34    |                        |      | 38                   | 36        | 35.5      | 33.2      | ENE 5      | 5      | calm       |        |       | 2.16                                     |   | 9                       |   | 10                                   |   |                                      |      |        |  |                   | "                     | 20  |     |
|              | 21   | 29.730     | 39                       | 29.412     | 40                       | 42.2  | 29.5  |                        |      | 37.8                 | 31.8      | 32.5      | 30        | E 5        | SW 1.  |            |        |       | 0.22                                     |   |                         |   |                                      |   |                                      |      |        |  |                   | "                     | 21  |     |
|              | 22   | 29.120     | 37                       | 29.100     | 40                       | 41  | 530.5 |                        |      | 32                   | 30.5      | 40        | 37.5      | ENE 5      | 5      | SW 1.      |        |       | 1.75                                     |   | 10                      |   |                                      |   |                                      |      |        |  |                   | "                     | 22  |     |
|              | 23   | 29.008     | 44                       | 29.100     | 45                       | 47  | 38    |                        |      | 41                   | 40        | 41        | 39.5      | SW 5       | 5      | SW 2.      |        |       | 2.00                                     |   | 8                       |   | 5                                    |   |                                      |      |        |  |                   | fine                  | 23  |     |
|              | 24   | 29.570     | 45                       | 29.172     | 44                       | 44  | 36.5  |                        |      | 40.8                 | 38        | 39.8      | 38.2      | SW 1.5     | 5      | WNW 1.5    |        |       | 3.40                                     |   | 7                       |   | 8                                    |   |                                      |      |        |  |                   | fine                  | 24  |     |
|              | 25   | 29.354     | 45                       | 29.772     | 46                       | 50  | 36.5  |                        |      | 45                   | 42        | 40        | 38        | NW 1.      | 5      | NW 1.      |        |       |  |   | 5                       |   |                                      |   |                                      |      |        |  |                   | fine                  | 25  |     |
|              | 26   | 29.940     | 45                       | 29.700     | 46                       | 47.5  | 35    |                        |      | 46                   | 42.8      | 45.5      | 44.5      | SW 5       | 5      | S 1.       |        |       | 3.88                                     |   | 8                       |   | 10                                   |   |                                      |      |        |  |                   | fine                  | 26  |     |
|              | 27   | 29.636     | 47                       | 29.810     | 46                       | 48.5  | 38.5  |                        |      | 46.2                 | 42.8      | 39        | 36.3      | W 2.       | 5      | W 1-2      |        |       | 1.60                                     |   | 9                       |   | 8                                    |   |                                      |      |        |  |                   | fine                  | 27  |     |
|              | 28   | 30.010     | 47                       | 30.200     | 49                       | 52  | 38.5  |                        |      | 47                   | 44        | 44        | 43        | WNW 1.     | 5      | W 5        |        |       |  |   | 10                      |   | 8                                    |   |                                      |      |        |  |                   | fine                  | 28  |     |
|              | 29   | 30.254     | 47                       | 30.270     | 48                       | 52  | 38    |                        |      | 46.5                 | 44.2      | 40        | 38.5      | W 5        | 5      | W 5        |        |       |  |   | 10                      |   |                                      |   |                                      |      |        |  |                   | fine                  | 29  |     |
|              | 30   | 30.280     | 47                       | 30.184     | 51                       | 56  | 23.4  |                        |      | 45                   | 42.8      | 44.5      | 42.3      | calm       |        | W 5        |        |       | 0.15                                     |   | 2                       |   | 3                                    |   |                                      |      |        |  |                   | fine                  | 30  |     |
|              | 31   | 29.930     | 47                       | 29.830     | 44                       | 49  | 37.5  |                        |      | 42                   | 41.2      | 37.5      | 33        | WSW 1.     | 5      | W 5        |        |       |  |   | 10                      |   |                                      |   |                                      |      |        |  |                   | fine                  | 31  |     |
|              | Sums.  |            |                          |            |                          | 188   | 118 2 |                        |      |                      |           |           |           |            |        |            |        |       | 2.286                                    |   |                         |   |                                      |   |                                      |      |        |  |                   |                       |     |     |
|              | Means.                                       |            |                          |            |                          | 468   | 33.8  |                        |      |                      |           |           |           |            |        |            |        |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   |                       |     |     |
|              | + Total Corrections for Instrumental Errors. |            |                          |            |                          |   |       |                        |      |                      |           |           |           |            |        |            |        |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   |                       |     |     |
|              | + Corrections for Diurnal Range.             |            |                          |            |                          |   |       |                        |      |                      |           |           |           |            |        |            |        |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   |                       |     |     |
|              | "Corrected Means."                           |            |                          |            |                          |   |       |                        |      |                      |           |           |           |            |        |            |        |       |  |   |                         |   |                                      |   |                                      |      |        |  |                   |                       |     |     |
|              | No. of Column.                               | 1          | 2                        | 3          | 4                        | 5   | 6     | 7                      | 8    | 9                    | 10        | 11        | 12        | 13         | 14     | 15         | 16     | 17    | 18                                       | 19  | 20                      | 21                                      | 22                                   | 23                                      | 24                                   | 25   | 26     | 27   | 28                | 29                    | 30  |     |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\frac{1}{1000}$  for Temp. (Col. 2), = 30.180  
Corrected Mean of Barometer at 9 P.M., minus the Correction  $\frac{1}{1000}$  for Temp. (Col. 4), = 30.180  
Mean at Station, corrected, and at 32°, = 30.180  
Correction for height, feet above Mean Sea-level, = 110  
Mean, reduced to 32°, and Sea-level, = 30.180  
Highest Reading, corrected for Index error, on the th, = 30.450  
Lowest Do. Do., on the th, = 29.840  
Difference, or Monthly Range, = 0.610

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = 52.5  
Lowest in Month, corrected for Index errors, on the th, = 30.5  
Difference, or Monthly Range, = 22.0  
"Corrected Mean" of all the Highest, (Col. 5), = 42.5  
"Corrected Mean" of all the Lowest, (Col. 6), = 30.5  
Difference, or Mean Daily Range, = 12.0  
\*\* Calculated Mean Temperature of Month, = 41.5  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = 45.5  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 45.5  
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, = 37.5  
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 37.5  
Difference of above Means or Range ("exposed"), = 8.0

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 45.5  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.5  
Computed Temperature of Dew-Point, = 37.5  
Do. Elastic Force of Vapour, = 0.610  
Do. Weight of Vapour in a Cubic Foot of Air, = 0.610  
Relative Humidity, (Saturation = 100), = 81.1  
RAIN fell on Days; Amount in Inches, = 0.25

| WIND.      |  | SUMMARY. |    |   |    |
|------------|--|----------|----|---|----|
| Direction. |  | N        | NE | E | SE |
| A.M.       |  |          |    |   |    |
| P.M.       |  |          |    |   |    |
| Mean.      |  |          |    |   |    |

Observations made and Return verified by

(Signed)







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barone Cottage, Butha County of Bute, in Lat. 55° 49' 50", Long. 5° 45', Distance from Sea 10 miles.  
Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet. During the MONTH of April 1887.  
The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER.          |                                |                   |                                | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |                      |                   | HYGROMETER. |           |           |           | RAIN.                          |                   | WIND.      |        |            |        | CLOUDS.                                      |           |  |                                      | THERMOMETERS under Ground.                   |                                      |                     | SEA. | OZONE. | GENERAL REMARKS. |                  | Days of Month. |                  |         |   |  |                          |               |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|----------------|---------------------|--------------------------------|-------------------|--------------------------------|---|-------------|----------------------|-------------------|-------------|-----------|-----------|-----------|--------------------------------|-------------------|------------|--------|------------|--------|--|-----------|--|--------------------------------------|--|--------------------------------------|---------------------|------|--------|------------------|------------------|----------------|------------------|---------|---|--|--------------------------|---------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|              |                | 9 h. A.M.           |                                | 9 h. P.M.         |                                | Protected in Shade, 4 feet above Ground.                |             | Exposed Black Bulbs. |                   | 9 h. A.M.   |           | 9 h. P.M. |           | No. of hours in which it fell. | Amount in inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | Readings of the H. Cup Anemometer.<br>No. 1. | 9 h. A.M. | 9 A.M.                                       |                                      | P.M.   |                                      | SUNSHINE.<br>Hours. |      |        |                  |                  |                | 9 h. A.M.        |         |   | Temperature of Well, at depth of feet. No. | Temperature and Density. | 9 A.M. 9 P.M. |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                | Barometer.<br>* No. | Attach-<br>ed Ther-<br>mometer | Barometer.<br>No. | Attach-<br>ed Ther-<br>mometer | Max.<br>No.   | Min.<br>No. | Max. in<br>Sun. Ray. | Min. on<br>Grass. | Dry bulb.   | Wet bulb. | Dry bulb. | Wet bulb. |                                |                   | Direction. | Force. | Direction. | Force. |  |           | Velocity<br>(0-6),<br>and<br>Dirac-<br>tion. | Amount<br>(0-10),<br>and<br>Species. | Velocity<br>(0-6),<br>and<br>Dirac-<br>tion. | Amount<br>(0-10),<br>and<br>Species. |                     |      |        | No. 1<br>inches. | No. 2<br>inches. |                | No. 3<br>inches. |         |   |  |                          |               |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                |                     |                                |                   |                                |   |             |                      |                   |             |           |           |           |                                |                   |            |        |            |        |  |           |  |                                      |  |                                      |                     |      |        |                  |                  |                |                  | inches. | ° |  |                          |               | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction++ = 29.912  
for Temp. (Col. 2), = 29.961 - 0.049  
Corrected Mean" of Barometer at 9 P.M., minus the Correction++ = 29.885  
for Temp. (Col. 4), = 29.936 - 0.051  
Mean at Station, corrected, and at 32°, = 29.899  
Correction for height, 116 feet above Mean Sea-level, = 0.127  
Mean, reduced to 32°, and Sea-level, = 30.026  
Highest Reading, corrected for Index error, on the 17th, = 30.530  
Lowest Do. Do., on the 23rd, = 29.000  
Difference, or Monthly Range, = 1.530

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11th, = 59.6  
Lowest in Month, corrected for Index errors, on the 14th, = 29.2  
Difference, or Monthly Range, = 30.4  
"Corrected Mean" of all the Highest, (Col. 5), = 51.7  
"Corrected Mean" of all the Lowest, (Col. 6), = 35.9  
Difference, or Mean Daily Range, = 15.8  
\*\* Calculated Mean Temperature of Month, = 43.8  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =  
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =  
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =  
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 42.5  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.7  
# Computed Temperature of Dew-Point, = 36.3  
# Do. Elastic Force of Vapour, = 1.215  
# Do. Weight of Vapour in a Cubic Foot of Air, =  
# Relative Humidity, (Saturation = 100), = 79  
RAIN fell on 14 Days; Amount in Inches, = 2.37

| WIND.      |  | SUMMARY. |     |   |     |   |     |   |      |                   |             |
|------------|--|----------|-----|---|-----|---|-----|---|------|-------------------|-------------|
| Direction. |  | N        | NE  | E | SE  | S | SW  | W | NW   | Calm or Variable. | Mean Force. |
| A.M.       |  | 3        | 2   | 1 | 1   | 4 | 6   | 3 | 1    | 0.60              |             |
| P.M.       |  | 1        | 3   | 0 | 2   | 4 | 7   | 7 | 3    | 0.52              |             |
| Mean.      |  | 2        | 2.5 | 3 | 1.2 | 4 | 6.5 | 2 | 0.56 | 0.56              |             |

Observations made and  
Return verified by

James May

(Signed)

James May

J. E.

MA







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow Colliery County of North Ayr, in Lat. 55° 49' 50" Long. 5° 4' 5", Distance from Sea 10 miles.  
 Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet.  
 During the MONTH of May 1887.  
 The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month.                               | BAROMETER.          |                                |                   |                                | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |  |                   | HYGROMETER.  |              |              |              | RAIN.                                      |            | WIND.     |            |        |   | CLOUDS.                                  |                                       |  |                                       | THERMOMETERS<br>under Ground. |                   |                   |    | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. | Days of Month.                    |                        |
|--------------|--|---------------------|--------------------------------|-------------------|--------------------------------|---|-------------|--|-------------------|--------------|--------------|--------------|--------------|--|------------|-----------|------------|--------|---|--|---------------------------------------|--|---------------------------------------|-------------------------------|-------------------|-------------------|----|------|--------|--|-----------------------------------|------------------------|
|              |  | 9 h. A.M.           |                                | 9 h. P.M.         |                                | Protected in<br>Shade, 4 feet above<br>Ground.          |             | Exposed<br>Back Bulbs.<br>Subsray Grass. |                   | 9 h. A.M.    |              | 9 h. P.M.    |              | 9 h. A.M.                                  |            | 9 h. P.M. |            | 9 A.M. |   | P.M.                                     |                                       | 9 h. A.M.                                |                                       | 9 h. P.M.                     |                   |                   |    |      |        |  |                                   |                        |
|              |  | Barometer.<br>* No. | Attach-<br>ed Ther-<br>mometer | Barometer.<br>No. | Attach-<br>ed Ther-<br>mometer | Max.<br>No.   | Min.<br>No. | Max. in<br>Shade.                        | Min. on<br>Grass. | Dry<br>bulb. | Wet<br>bulb. | Dry<br>bulb. | Wet<br>bulb. | No. of<br>hours<br>in<br>which<br>it fell. | Direction. | Force.    | Direction. | Force. | Readings of<br>the H. Cup<br>Anemometer.<br>No. | Velocity<br>(0-10),<br>and<br>Direction. | Amount,<br>(0-10),<br>and<br>Species. | Velocity<br>(0-10),<br>and<br>Direction. | Amount,<br>(0-10),<br>and<br>Species. | No. 1.<br>inches.             | No. 2.<br>inches. | No. 3.<br>inches. |    |      |        |  |                                   |                        |
|              |  | inches.             | °                              | inches.           | °                              | °   | °           | °  | °                 | °            | °            | °            | °            | °  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   |                        |
|              | 1  | 30.056              | 49                             | 29.880            | 51                             | 54.3  | 33          |  |                   | 49           | 42.5         | 42           | 40.5         |  | SW         | 5         | YV         | 5      |   | 2  | 8                                     |  |                                       |                               |                   |                   |    |      |        | Clear fine warm  | 1                                 |                        |
|              | 2  | 29.746              | 49                             | 29.710            | 49                             | 54  | 39          |  |                   | 48.8         | 43.8         | 49.2         | 43.5         |  | E          | 5         | E          | 5      |   | 8  | 8                                     |  |                                       |                               |                   |                   |    |      |        | O.C. fine changeable   | 2                                 |                        |
|              | 3  | 29.646              | 49                             | 29.550            | 50                             | 56  | 39.5        |  |                   | 49           | 43           | 46           | 42.6         |  | NE         | 5         | YV         | 5      |   | 2  | 9                                     |  |                                       |                               |                   |                   |    |      |        | Clear warm   | 3                                 |                        |
|              | 4  | 29.540              | 49                             | 29.592            | 50                             | 55  | 34.1        |  |                   | 51           | 2.46         | 3.41         | 3.9          |  | NE         | 5         | calm       |        |   | 2  |                                       |  |                                       |                               |                   |                   |    |      |        | Clear " O.C. changeable  | 4                                 |                        |
|              | 5  | 29.700              | 51                             | 29.750            | 53                             | 59  | 33.8        |  |                   | 51           | 5.46         | 5.45         | 5.42.8       |  | SE         | 5         | SE         | 5      |   |  | 5                                     |  |                                       |                               |                   |                   |    |      |        | Clear fine warm  | 5                                 |                        |
|              | 6  | 29.850              | 51                             | 29.930            | 53                             | 60  | 44.0        |  |                   | 50.5         | 45.6         | 48           | 45           |  | 010        | NE        | 5          | calm   |   | 5  | 10                                    |  |                                       |                               |                   |                   |    |      |        | Clear " "  | 6                                 |                        |
|              | 7  | 30.060              | 54                             | 30.210            | 54                             | 62  | 45.3        |  |                   | 55.5         | 51.8         | 48.5         | 46.2         |  | SE         | 5         | YV         | 5      |   | 8  | 8                                     |  |                                       |                               |                   |                   |    |      |        | Clear " "  | 7                                 |                        |
|              | 8  | 30.210              | 57                             | 30.150            | 57                             | 66  | 54.8        |  |                   | 55.5         | 52           | 52           | 50.5         |  | SW         | 5         | SW         | 5      |   | 10                                       | 10                                    |  |                                       |                               |                   |                   |    |      |        | Dull & Raw   | 8                                 |                        |
|              | 9  | 30.180              | 54                             | 30.260            | 55                             | 66  | 54.5        |  |                   | 53           | 48.5         | 47.5         | 44.5         |  | 025        | YSW       | 5          | YV     | 1   | 10                                       | 8                                     |  |                                       |                               |                   |                   |    |      |        | Clear blowy shut showers   | 9                                 |                        |
|              | 10   | 30.260              | 53                             | 30.250            | 53                             | 64  | 54.5        |  |                   | 50           | 46.5         | 47           | 44.5         |  | 265        | YV        | 1.5        | SW     | 5   | 9  | 10                                    |  |                                       |                               |                   |                   |    |      |        | Cloudy " chucky  | 10                                |                        |
|              | 11   | 30.066              | 52                             | 30.080            | 53                             | 53  | 44          |  |                   | 49           | 2.48         | 5.49         | 5.48.5       |  | 045        | SW        | 1          | WNW    | 1   | 10                                       | 10                                    |  |                                       |                               |                   |                   |    |      |        | Dull " Bump  | 11                                |                        |
|              | 12   | 30.150              | 55                             | 30.230            | 53                             | 58  | 43.6        |  |                   | 51.8         | 48.5         | 47.5         | 43           |  | WNW        | 1.5       | NE         | 5      |   | 8  | 5                                     |  |                                       |                               |                   |                   |    |      |        | Clear & fine   | 12                                |                        |
|              | 13   | 30.380              | 54                             | 30.370            | 53                             | 58  | 36.5        |  |                   | 50           | 42           | 46.5         | 41.2         |  | NE         | 5         | YV         | 5      |   |  | 1                                     |  |                                       |                               |                   |                   |    |      |        | Clear " chucky   | 13                                |                        |
|              | 14   | 30.400              | 54                             | 30.370            | 54                             | 59.8  | 44          |  |                   | 54           | 5.50         | 5.50         | 4.49         |  |            |           | YV         | 5      |   | 10                                       | 3                                     |  |                                       |                               |                   |                   |    |      |        | Clear " "  | 14                                |                        |
|              | 15   | 30.380              | 55                             | 30.340            | 58                             | 66  | 34.45       |  |                   | 62.2         | 55.2         | 52           | 48.2         |  | SW         | 5         | YV         | 5      |   | 5  | 2                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear fine warm                   | 15                     |
|              | 16   | 30.300              | 56                             | 30.150            | 58                             | 64.8  | 44          |  |                   | 55           | 48.5         | 50           | 46.5         |  | YV         | 5         | SW         | 5      |   | 5  |                                       |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 16                     |
|              | 17   | 29.920              | 53                             | 29.860            | 55                             | 62  | 29.9        |  |                   | 54           | 5.50         | 5.45         | 42           |  | 025        | YV        | 1          | YV     | 1   | 9  | 2                                     |  |                                       |                               |                   |                   |    |      |        |  | Cloudy " (dus. / pm)              | 17                     |
|              | 18   | 29.864              | 55                             | 29.720            | 57                             | 57  | 50.9        |  |                   | 50.5         | 45           | 47           | 44.4         |  | 115        | YV        | 5          | SW     | 1   | 5  | 10                                    |  |                                       |                               |                   |                   |    |      |        |  | " " "                             | 18                     |
|              | 19   | 29.584              | 53                             | 29.360            | 51                             | 52  | 40.40       |  |                   | 46           | 42.5         | 40.3         | 39           |  | 270        | WNW       | 1          | E      | 5   | 2  | 10                                    |  |                                       |                               |                   |                   |    |      |        |  | " " I dull                        | 19                     |
|              | 20   | 29.260              | 46                             | 29.434            | 48                             | 48  | 37          |  |                   | 42           | 5.37         | 5.38         | 5.45         |  | 252        | YV        | 2          | WNW    | 2   | 8  | 8                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear hail sho. cold              | 20                     |
|              | 21   | 29.374              | 47                             | 29.590            | 48                             | 48  | 35          |  |                   | 40           | 5.37         | 5.41         | 38           |  | 270        | YV        | 1.5        | YV     | 1.5   | 7  | 6                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear blowy showers               | 21                     |
|              | 22   | 29.750              | 47                             | 29.874            | 49                             | 51  | 43.7        |  |                   | 46           | 5.40         | 4.43         | 2.40         |  |            | YV        | 1.5        | YV     | 5   | 6  | 8                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear cold fine                   | 22                     |
|              | 23   | 29.974              | 48                             | 30.100            | 51                             | 57  | 38          |  |                   | 49           | 8.46         | 8.49         | 47.5         |  | YV         | 5         | YV         | 1      |   | 10                                       | 10                                    |  |                                       |                               |                   |                   |    |      |        |  | Dull O.C.                         | 23                     |
|              | 24   | 30.220              | 53                             | 30.280            | 56                             | 62.5  | 48          |  |                   | 52.8         | 51           | 52           | 51           |  | WNW        | 1         | YV         | 5      |   | 10                                       | 5                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear fine                        | 24                     |
|              | 25   | 30.300              | 54                             | 30.300            | 58                             | 67.8  | 48.8        |  |                   | 62           | 57           | 57           | 54           |  | YV         | 5         | calm       |        |   | 9  | 8                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " warm                      | 25                     |
|              | 26   | 30.380              | 58                             | 30.330            | 59                             | 64.6  | 47          |  |                   | 56           | 51           | 54.2         | 50           |  | NE         | 5         | NE         | 5      |   | 2  | 8                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 26                     |
|              | 27   | 30.200              | 57                             | 30.130            | 60                             | 71  | 54.5        |  |                   | 56           | 6.51         | 52           | 50           |  | YV         | 5         | ENE        | 5      |   | 10                                       | 2                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 27                     |
|              | 28   | 30.080              | 57                             | 30.050            | 58                             | 68  | 54.6        |  |                   | 56           | 50           | 50           | 47           |  | NE         | 5         | E          | 5      |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 28                     |
|              | 29   | 30.024              | 58                             | 30.040            | 58                             | 64  | 41.3        |  |                   | 57           | 49           | 47.5         | 44.5         |  | ENE        | 5         | E          | 5      |   | 1  | 2                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 29                     |
|              | 30   | 30.074              | 55                             | 30.040            | 57                             | 63  | 54.5        |  |                   | 48           | 45           | 51.5         | 48.5         |  | NE         | 5         | ENE        | 1      |   | 10                                       | 5                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 30                     |
|              | 31   | 30.140              | 53                             | 30.060            | 58                             | 68  | 45          |  |                   | 50.5         | 44.5         | 58           | 52           |  | NE         | 1         | ENE        | 1      |   | 8  | 9                                     |  |                                       |                               |                   |                   |    |      |        |  | Clear " "                         | 31                     |
|              | Sums.  | 0.068               | 90                             | 0.042             | 126                            | 187.2   | 62.8        |  |                   | 56.0         | 122.1        | 150.0        | 161.7        |  | 168.7      |           | 22.0       |        |   | 191                                      | 190                                   |  |                                       |                               |                   |                   |    |      |        |  | NOTATION USED IN GENERAL REMARKS. |                        |
|              | Means.                                       | 30.002              | 52.9                           | 30.001            | 54.0                           | 59.3  | 62.0        |  |                   | 51.8         | 17.2         | 48.1         | 45.2         |  | 07.1       |           | 06.5       |        |   | 62                                       | 61                                    |  |                                       |                               |                   |                   |    |      |        |  | a. denotes aurora.                |                        |
|              | † Total Corrections for Instrumental Errors. |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | m. denotes meteor.     |
|              | † Corrections for Diurnal Range.             |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | ci. cirrus.            |
|              | "Corrected Means."                           |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | ci-cu. cirro-cumulus.  |
|              | No. of Column.                               | 1                   | 2                              | 3                 | 4                              | 5   | 6           | 7  | 8                 | 9            | 10           | 11           | 12           | 13   | 14         | 15        | 16         | 17     | 18  | 19                                       | 20                                    | 21                                       | 22                                    | 23                            | 24                | 25                | 26 | 27   | 28     | 29   | 30                                | ci-s. cirro-stratus.   |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | cu. cumulus.           |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | cu-s. cumulo-stratus.  |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | d. dew.                |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | f. frost.              |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | h. fr. hoar-frost.     |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | h. haze.               |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | h. d. heavy dew.       |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | hl. hail.              |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | li. light clouds.      |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | li. sh. light showers. |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | lu. co. lunar corona.  |
|              |  |                     |                                |                   |                                |   |             |  |                   |              |              |              |              |  |            |           |            |        |   |  |                                       |  |                                       |                               |                   |                   |    |      |        |  |                                   | lu. ha. lunar halo.    |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† for Temp. (Col. 2), = 30.002 - 0.066 = 29.936  
 Corrected Mean" of Barometer at 9 P.M., minus the Correction†† for Temp. (Col. 4), = 30.001 - 0.068 = 29.933  
 Mean at Station, corrected, and at 32°, = 29.935  
 Correction for height, 116 feet above Mean Sea-level, = .127  
 Mean, reduced to 32°, and Sea-level, = 30.062  
 Highest Reading, corrected for Index error, on the 14 th, = 30.400  
 Lowest Do. Do., on the 20 th, = 29.260  
 Difference, or Monthly Range, = 1.140

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = 71.5  
 Lowest in Month, corrected for Index errors, on the th, = 33.0  
 Difference, or Monthly Range, = 38.5  
 "Corrected Mean" of all the Highest, (Col. 5), = 59.3  
 "Corrected Mean" of all the Lowest, (Col. 6), = 42.0  
 Difference, or Mean Daily Range, = 17.3  
 \* Calculated Mean Temperature of Month, = 50.6  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =   
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =   
 Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =   
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =   
 Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 50.0  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 46.2  
 ‡ Computed Temperature of Dew-Point, = 42.2  
 ‡ Do. Elastic Force of Vapour, = .269  
 ‡ Do. Weight of Vapour in a Cubic Foot of Air, =   
 ‡ Relative Humidity, (Saturation = 100), = 75  
 RAIN fell on 9 Days; Amount in Inches, = 1.19

| WIND.      |   |    |   |    |   |    |   |    |                   |             |                                 | SUMMARY. |  |  |
|------------|---|----|---|----|---|----|---|----|-------------------|-------------|---------------------------------|----------|--|--|
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day. |          |  |  |
| A.M.       | 1 | 8  | 2 | 2  |   | 4  | 9 | 4  | 1                 | 0.71        |                                 |          |  |  |
| P.M.       | 1 | 3  | 7 | 1  |   | 4  | 6 | 7  | 2                 | 0.65        |                                 |          |  |  |
| Mean.      | 1 | 6  | 4 | 2  | 0 | 4  | 7 | 6  | 1                 | 0.68 = 0.46 |                                 |          |  |  |

Observations made and Return verified by

James May

(Signed)

James May

74.  
25







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow Cottage, County of Perth, in Lat. 55° 49' 50", Long 5° 45', Distance from Sea 10 miles.  
Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet. During the MONTH of June 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY.                                 | Days of Month. | BAROMETER. |                           |            |                           | SELF-REGISTERING THERMOMETERS.           |          |                      |          | HYGROMETER.     |           |           |           | RAIN.                          |      | WIND.      |        |            |        | CLOUDS.                         |                             |                                 |                             | THERMOMETERS under Ground. |     |     | SEA. | OZONE. | GENERAL REMARKS. | Days of Month. |    |
|--|----------------|------------|---------------------------|------------|---------------------------|--|----------|----------------------|----------|-----------------|-----------|-----------|-----------|--------------------------------|------|------------|--------|------------|--------|---------------------------------|-----------------------------|---------------------------------|-----------------------------|----------------------------|-----|-----|------|--------|------------------|----------------|----|
|  |                | 9 h. A.M.  |                           | 9 h. P.M.  |                           | Protected in Shade, 4 feet above Ground. |          | Exposed Black Bulbs. |          | Dry No. Wet No. |           | 9 h. A.M. |           | 9 h. P.M.                      |      | 9 h. A.M.  |        | 9 h. P.M.  |        | 9 A.M.                          |                             | P.M.                            |                             | 9 h. A.M.                  |     |     |      |        |                  |                |    |
|  |                | Barometer. | Attach- ed Ther- mometer. | Barometer. | Attach- ed Ther- mometer. | Max. No.                                 | Min. No. | Max. No.             | Min. No. | Dry bulb.       | Wet bulb. | Dry bulb. | Wet bulb. | No. of hours in which it fell. | No.  | Direction. | Force. | Direction. | Force. | Velocity (0-10), and Direction. | Amount (0-10), and Species. | Velocity (0-10), and Direction. | Amount (0-10), and Species. | No.                        | No. | No. |      |        |                  |                |    |
|  |                | * No.      | inches.                   | °          | inches.                   | °  | °        | °                    | °        | °               | °         | °         | °         | °                              | °    | °          | °      | °          | °      | °                               | °                           | °                               | °                           | °                          | °   | °   | °    |        |                  |                |    |
|  | 1              | 30.000     | 60                        | 29.900     | 58                        | 60                                       | 45.2     | 58.2                 | 50.5     | 52.2            | 48.5      |           |           | NE                             | 1    | NE         | 1      |            |        |                                 |                             |                                 |                             |                            |     | 1   |      |        |                  |                |    |
|  | 2              | 29.880     | 56                        | 29.840     | 54                        | 60                                       | 44       | 52                   | 47.5     | 46              | 42.3      |           | 0.65      | NE                             | 1    | NE         | 1      |            | 8      |                                 |                             |                                 |                             |                            |     | 2   |      |        |                  |                |    |
|  | 3              | 29.850     | 53                        | 29.840     | 56                        | 60                                       | 42.5     | 52.2                 | 48.2     | 55              | 50        |           | 0.86      | NE                             | 1.5  | ENE        | 1      |            | 5      | 10                              |                             |                                 |                             |                            |     | 3   |      |        |                  |                |    |
|  | 4              | 29.830     | 53                        | 29.910     | 57                        | 56                                       | 49       | 52                   | 50.5     | 53.5            | 57        |           | 1.70      | NE                             | 1    | calm       |        |            | 10     | 10                              |                             |                                 |                             |                            |     | 4   |      |        |                  |                |    |
|  | 5              | 29.970     | 54                        | 29.980     | 57                        | 62                                       | 48       | 52                   | 48.5     | 54              | 52.8      |           |           | SE                             | 5    | SE         | 5      |            | 10     | 5                               |                             |                                 |                             |                            |     | 5   |      |        |                  |                |    |
|  | 6              | 29.950     | 57                        | 29.870     | 58                        | 62                                       | 48       | 54                   | 52.8     | 53              | 52.5      |           | 6.00      | S                              | 5    | S          | 1      |            | 10     | 10                              |                             |                                 |                             |                            |     | 6   |      |        |                  |                |    |
|  | 7              | 29.940     | 57                        | 29.750     | 57                        | 61                                       | 51       | 53                   | 53       | 52              | 49.8      |           | 0.60      | SSW                            | 5    | SW         | 1.5    |            | 10     | 8                               |                             |                                 |                             |                            |     | 7   |      |        |                  |                |    |
|  | 8              | 29.850     | 57                        | 29.850     | 57                        | 62                                       | 49       | 56                   | 52       | 53              | 50.3      |           | 1.12      | W                              | 1    | SW         | 1      |            | 6      | 8                               |                             |                                 |                             |                            |     | 8   |      |        |                  |                |    |
|  | 9              | 29.894     | 57                        | 30.162     | 56                        | 58.8                                     | 50       | 57                   | 48.50    | 57.8            | 49.2      |           | 0.20      | WSW                            | 1    | WNW        | 1      |            | 9      | 8                               |                             |                                 |                             |                            |     | 9   |      |        |                  |                |    |
|  | 10             | 30.234     | 58                        | 30.370     | 59                        | 64.6                                     | 46.2     | 57                   | 57.5     | 57              | 49.5      |           | 0.15      | W                              | 1.5  | W          | 1      |            | 5      | 5                               |                             |                                 |                             |                            |     | 10  |      |        |                  |                |    |
|  | 11             | 30.230     | 57                        | 30.100     | 57                        | 57                                       | 48.3     | 55.5                 | 54       | 53.2            | 53        |           |           | SW                             | 5    | WSW        | 5      |            | 10     | 10                              |                             |                                 |                             |                            |     | 11  |      |        |                  |                |    |
|  | 12             | 29.984     | 56                        | 29.900     | 58                        | 59                                       | 52       | 55.8                 | 52.2     | 54              | 53.5      |           | 0.70      | SW                             | 1    | SW         | 1      |            | 10     | 10                              |                             |                                 |                             |                            |     | 12  |      |        |                  |                |    |
|  | 13             | 29.980     | 57                        | 30.012     | 57                        | 56.5                                     | 51       | 55                   | 53       | 52              | 50.5      |           | 2.70      | WSW                            | 5    | NW         | 5      |            | 10     | 9                               |                             |                                 |                             |                            |     | 13  |      |        |                  |                |    |
|  | 14             | 30.160     | 56                        | 30.134     | 57                        | 57                                       | 42       | 54                   | 57.5     | 54.2            | 53.6      |           | 6.90      | SSW                            | 5    | WSW        | 1      |            | 10     | 10                              |                             |                                 |                             |                            |     | 14  |      |        |                  |                |    |
|  | 15             | 30.226     | 56                        | 30.320     | 58                        | 63                                       | 52       | 56.5                 | 54.5     | 55              | 53.5      |           |           | WNW                            | 1    | calm       |        |            | 9      | 10                              |                             |                                 |                             |                            |     | 15  |      |        |                  |                |    |
|  | 16             | 30.214     | 61                        | 30.310     | 65                        | 74                                       | 48       | 64                   | 59.5     | 58              | 55        |           |           | SE                             | 5    | NY         | 5      |            | 2      | 1                               |                             |                                 |                             |                            |     | 16  |      |        |                  |                |    |
|  | 17             | 30.220     | 62                        | 30.280     | 67                        | 78.5                                     | 50       | 68.2                 | 62       | 62              | 59        |           |           | NE                             | 5    | calm       |        |            | 8      |                                 |                             |                                 |                             |                            |     | 17  |      |        |                  |                |    |
|  | 18             | 30.208     | 66                        | 30.286     | 69                        | 80.3                                     | 55       | 71.8                 | 65.6     | 64              | 61        |           |           | calm                           |      | calm       |        |            |        |                                 |                             |                                 |                             |                            |     | 18  |      |        |                  |                |    |
|  | 19             | 30.214     | 69                        | 30.280     | 64                        | 69                                       | 54.8     | 67.2                 | 61.5     | 54.8            | 51        |           |           | NY                             | 1    | NE         | 1      |            |        | 6                               |                             |                                 |                             |                            |     | 19  |      |        |                  |                |    |
|  | 20             | 30.440     | 64                        | 30.420     | 62                        | 68.5                                     | 42.5     | 57.2                 | 57.5     | 58.8            | 51        |           |           | NE                             | 1    | calm       |        |            | 1      |                                 |                             |                                 |                             |                            |     | 20  |      |        |                  |                |    |
|  | 21             | 30.416     | 62                        | 30.408     | 65                        | 72                                       | 44       | 64                   | 62.5     | 58              | 54        |           |           | W                              | 5    | W          | 5      |            | 2      |                                 |                             |                                 |                             |                            |     | 21  |      |        |                  |                |    |
|  | 22             | 30.380     | 67                        | 30.340     | 69                        | 79                                       | 55.0     | 71                   | 61.2     | 65.5            | 60.5      |           |           | NE                             | 5    | NY         | 5      |            |        |                                 |                             |                                 |                             |                            |     | 22  |      |        |                  |                |    |
|  | 23             | 30.340     | 69                        | 30.320     | 69                        | 82                                       | 55.6     | 75                   | 63.3     | 63.8            | 57.5      |           |           | NE                             | 5    | NE         | 1      |            |        |                                 |                             |                                 |                             |                            |     | 23  |      |        |                  |                |    |
|  | 24             | 30.350     | 69                        | 30.330     | 69                        | 84                                       | 55.5     | 69.5                 | 61       | 66.5            | 57        |           |           | NE                             | 5    | NE         | 5      |            |        | 2                               |                             |                                 |                             |                            |     | 24  |      |        |                  |                |    |
|  | 25             | 30.300     | 70                        | 30.260     | 73                        | 81                                       | 55       | 74                   | 64       | 63              | 57        |           |           | NE                             | 5    | NE         | 1.5    |            |        |                                 |                             |                                 |                             |                            |     | 25  |      |        |                  |                |    |
|  | 26             | 30.274     | 66                        | 30.194     | 69                        | 72.8                                     | 52.6     | 64                   | 59.8     | 59              | 57.2      |           |           | NE                             | 1    | W          | 5      |            | 8      |                                 |                             |                                 |                             |                            |     | 26  |      |        |                  |                |    |
|  | 27             | 30.180     | 64                        | 30.220     | 64                        | 64                                       | 50       | 56.6                 | 54       | 53.5            | 50.2      |           |           | NW                             | 1    | NY         | 1      |            | 10     | 2                               |                             |                                 |                             |                            |     | 27  |      |        |                  |                |    |
|  | 28             | 30.260     | 62                        | 30.250     | 62                        | 62.2                                     | 50       | 57.6                 | 55.5     | 54              | 52.8      |           |           | NW                             | 1.5  | W          | 5      |            | 10     | 2                               |                             |                                 |                             |                            |     | 28  |      |        |                  |                |    |
|  | 29             | 30.416     | 61                        | 30.450     | 65                        | 71.2                                     | 49.5     | 65                   | 57.6     | 56              | 52        |           |           | NW                             | 5    | WNW        | 5      |            | 8      |                                 |                             |                                 |                             |                            |     | 29  |      |        |                  |                |    |
|  | 30             | 30.430     | 64                        | 30.364     | 68                        | 73                                       | 49       | 65.2                 | 58.2     | 59.2            | 52.2      |           |           | W                              | 1    | WNW        | 1      |            | 3      |                                 |                             |                                 |                             |                            |     | 30  |      |        |                  |                |    |
|  | 31             |            |                           |            |                           |  |          |                      |          |                 |           |           |           |                                |      |            |        |            |        |                                 |                             |                                 |                             |                            |     | 31  |      |        |                  |                |    |
| Sums.  |                | 4.808      | 20                        | 4.870      | 28                        | 59                                       | 23.7     | 67                   | 29.4     | 1.6             | 6.4       |           | 1.56      | 23.5                           | 19.5 |            |        | 175        | 141    |                                 |                             |                                 |                             |                            |     |     |      |        |                  |                |    |
| Means.                                       |                | 30.160     | 60.730                    | 30.162     | 62.067                    | 64.95                                    |          | 60.255               | 56.56    | 52.9            |           |           |           | 0.78                           | 0.65 |            |        | 5.8        | 4.7    |                                 |                             |                                 |                             |                            |     |     |      |        |                  |                |    |
| † Total Corrections for Instrumental Errors. |                |            |                           |            |                           |  |          |                      |          |                 |           |           |           |                                |      |            |        |            |        |                                 |                             |                                 |                             |                            |     |     |      |        |                  |                |    |
| ‡ Corrections for Diurnal Range.             |                |            |                           |            |                           |  |          |                      |          |                 |           |           |           |                                |      |            |        |            |        |                                 |                             |                                 |                             |                            |     |     |      |        |                  |                |    |
| “Corrected Means.”                           |                |            |                           |            |                           |  |          |                      |          |                 |           |           |           |                                |      |            |        |            |        |                                 |                             |                                 |                             |                            |     |     |      |        |                  |                |    |
| No. of Column.                               |                | 1          | 2                         | 3          | 4                         | 5  | 6        | 7                    | 8        | 9               | 10        | 11        | 12        | 13                             | 14   | 15         | 16     | 17         | 18     | 19                              | 20                          | 21                              | 22                          | 23                         | 24  | 25  | 26   | 27     | 28               | 29             | 30 |

BAROMETER, “corrected Mean” at 9 A.M., minus the Correction†† = 30.073  
for Temp. (Col. 2), = 30.160... 0.087...  
Corrected Mean of Barometer at 9 P.M., minus the Correction†† = 30.072  
for Temp. (Col. 4), = 30.162... 0.090...  
Mean at Station, corrected, and at 32°, = 30.072  
Correction for height, 116 feet above Mean Sea-level, = 0.127  
Mean, reduced to 32°, and Sea-level, = 30.200  
Highest Reading, corrected for Index error, on the 29 th, = 30.450  
Lowest Do. Do., on the 7 th, = 29.640  
Difference, or Monthly Range, = 0.810

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 24 th, = 84.5  
Lowest in Month, corrected for Index errors, on the 14 th, = 42.0  
Difference, or Monthly Range, = 42.5  
“Corrected Mean” of all the Highest, (Col. 5), = 67.4  
“Corrected Mean” of all the Lowest, (Col. 6), = 49.5  
Difference, or Mean Daily Range, = 17.9  
\*\* Calculated Mean Temperature of Month, = 58.2  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =  
“Corrected Mean,” (Col. 7), of Black Bulb, Max. in Sun, =  
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =  
“Corrected Mean,” (Col. 8), of Black Bulb, Min. on grass, =  
Difference of above Means or Range (“exposed”), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 58.2  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 54.2  
†† Computed Temperature of Dew-Point, = 50.8 50.6  
†† Do. Elastic Force of Vapour, = 3.69  
†† Do. Weight of Vapour in a Cubic Foot of Air, =  
†† Relative Humidity, (Saturation = 100), = 76  
RAIN fell on 11 Days; Amount in Inches, = 1.565

| WIND.      |   | SUMMARY. |   |    |   |    |   |    |                   |             |                                 |
|------------|---|----------|---|----|---|----|---|----|-------------------|-------------|---------------------------------|
| Direction. | N | NE       | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day. |
| A.M.       | 0 | 11       | 1 | 2  | 2 | 2  | 7 | 4  | 1                 | 0.78        |                                 |
| P.M.       | 0 | 6        | 1 | 1  | 3 | 9  | 4 | 5  | 0.65              |             |                                 |
| Mean.      | 0 | 8        | 1 | 2  | 1 | 3  | 8 | 4  | 3                 | 0.72        | = 0.52                          |

Observations made and Return verified by

James May

(Signed)

James May

J.F.

M.







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow Cottage, County of Bute, in Lat. 55° 49' 50" Long. 5° 4' 5", Distance from Sea 10 miles.  
Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet. During the MONTH of July 1887.  
The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER.          |                         |                   |                         | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |   |                          | HYGROMETER.  |              |              |              | RAIN.   |                         | WIND.      |        |            |        | CLOUDS.   |           |  |   | THERMOMETERS<br>under Ground.        |   |                     |   | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. | Days of Month. |  |               |                      |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|----------------|---------------------|-------------------------|-------------------|-------------------------|---|-------------|---|--------------------------|--------------|--------------|--------------|--------------|---|-------------------------|------------|--------|------------|--------|---|-----------|--|---|--------------------------------------|---|---------------------|---|------|--------|--|----------------|--|---------------|----------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|              |                | 9 h. A.M.           |                         | 9 h. P.M.         |                         | Protected in<br>Shade, 4 feet above<br>Ground.          |             | Exposed to<br>Black Balls.<br>Sun, Grass. |                          | 9 h. A.M.    |              | 9 h. P.M.    |              | No. of<br>hours<br>in<br>which<br>it<br>fell. | Amount<br>in<br>inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | 9 A.M.  |           | P.M.                                     |   | 9 h. A.M.                            |   |                     | Temperature of<br>Air at Surface of<br>Water, No. |      |        |  |                | Temperature<br>of<br>Air<br>at<br>Height<br>and<br>Dew<br>Point. | 9 A.M. 9 P.M. |                      |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                | Barometer.<br>* No. | Attached<br>Thermometer | Barometer.<br>No. | Attached<br>Thermometer | Max.<br>No.   | Min.<br>No. | Max.<br>No.                               | Min. on<br>Grass.<br>No. | Dry<br>bulb. | Wet<br>bulb. | Dry<br>bulb. | Wet<br>bulb. |   |                         | Direction. | Force. | Direction. | Force. | Readings of<br>the H. Cup<br>Anemometer.<br>No. | 9 h. A.M. | Velocity<br>(0-10),<br>and<br>Direction. |   | Amount<br>(0-10),<br>and<br>Species. |   | No.<br>8<br>inches. |   |      |        |  |                |  |               | No.<br>12<br>inches. | No.<br>22<br>inches. |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|              |                |                     |                         |                   |                         |   |             |   |                          |              |              |              |              |   |                         |            |        |            |        |   |           | Inches.                                  | ° | Inches.                              | ° |                     |   |      |        |  |                |  |               |                      |                      | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = 29.824  
Corrected Mean of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = 29.806  
Mean at Station, corrected, and at 32°, = 29.815  
Correction for height, 116 feet above Mean Sea-level, = .127  
Mean, reduced to 32°, and Sea-level, = 29.942  
Highest Reading, corrected for Index error, on the 17th, = 30.340  
Lowest Do. Do., on the 26th, = 29.150  
Difference, or Monthly Range, = 1.190

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 17th, = 78.5  
Lowest in Month, corrected for Index errors, on the 26th, = 40.5  
Difference, or Monthly Range, = 38.0  
"Corrected Mean" of all the Highest, (Col. 5), = 66.8  
"Corrected Mean" of all the Lowest, (Col. 6), = 51.9  
Difference, or Mean Daily Range, = 14.9  
\*\* Calculated Mean Temperature of Month, = 59.4  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 17th, = 75  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 66.8  
Lowest at Night, Black Bulb, (corrected for Index errors), on the 26th, = 40.5  
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 51.9  
Difference of above Means or Range ("exposed"), = 14.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 58.4  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 55.6  
# Computed Temperature of Dew-Point, = 53.0  
# Do. Elastic Force of Vapour, = .405  
# Do. Weight of Vapour in a Cubic Foot of Air, = .001  
# Relative Humidity, (Saturation = 100), = 83  
RAIN fell on 20 Days; Amount in Inches, = .315  
WIND. SUMMARY.  
Direction. N NE E SE S SW W NW  
A.M. 1 1 1 4 9 11 3 1  
P.M. 1 1 1 1 5 9 5 6 2  
Mean, 1 0 1 1 5 9 8 5 1  
Calm or Variable. Mean Force. Mean Velocity in miles per day.  
0.70  
0.71  
0.70 = 0.49

\* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.  
† Embracing corrections for both capillary and Index Errors.  
‡ The Diurnal Range for Scotland is as yet unknown.  
§ Practically, though not absolutely a minus correction.  
|| These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.  
¶ While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 9 and 11 will be entered as the "Calculated Mean Temperature."  
\*\* Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by

James Kay

(Signed)

James Kay

77.



# INSTRUCTIONS FOR TAKING METEOROLOGICAL OBSERVATIONS.

WITH REMARKS ON THE USE OF INSTRUMENTS.

OF the chief objects that the Scottish Meteorological Society proposed to itself when the Society was established in 1855, was to secure uniformity in the system of observation pursued at all its Stations. Uniformity in the observations is absolutely necessary to justify the publication of Monthly Results from different observations, it being found that differences between the Returns from two Stations, so very considerable as to render them quite incomparable, may arise from dissimilarity in the position or the use of differently constructed instruments. It is therefore hoped, that those who kindly furnish Reports to the Society will, by a scrupulous attention to the following Directions, secure for their Monthly Returns, an accuracy and value commensurate with the labour and pains involved in making them; and, for the Tables published by the Society, an entire comparability among the several Returns, without which the Society's Reports must inevitably fail in achieving one of the main objects of Meteorological Observation.

The Council recommend that Observations be made precisely at 9 a.m. and 9 p.m. (Greenwich Railway Time only), and that the observations be made at the same place, and in the same position, of the columns of the Schedule. It is hoped that the utmost punctuality in the time of reading the instruments will be observed. Observers, in some few cases, may find this impossible; in such instances, they are specially requested to mark opposite every reading the time at which it was taken, if not at 9 a.m. or 9 p.m.

Weather-Glasses and Aneroids, though well-suited to indicate roughly variations of atmospheric pressure, are not fitted for scientific purposes. No Barometer should be used for Meteorological Observation that is not supplied with some means of adjustment or compensation which will secure that the height of the mercury in the tube is accurately measured from the fluctuating surface of the mercury in the cistern.

The Barometer in which the error arising from the fluctuating surface of the mercury in the cistern is entirely got rid of is Fortin's Barometer, the arrangement consisting in applying pressure by means of a screw to the bottom of the cistern, which is made of flexible ivory; thus raising or depressing the surface till it just meets the level of the mercury in the tube. This adjustment is made by means of a small screw, the zero point of the fixed scale. The Barometer being called the Point of Zero, the observer, by means of a convenient means of adjusting the ivory to the level of the mercury, is able to secure that the height of the mercury in the tube is accurately measured from the fluctuating surface of the mercury in the cistern.

This Barometer is the only one in which the error arising from the fluctuating surface of the mercury in the cistern is entirely got rid of. It is an excellent Barometer for ordinary Observers, inasmuch as it entirely eliminates the error of observation likely to arise in a few cases in setting the instrument to the zero point of the fixed scale when the light is not good. To show the accuracy with which these Barometers are made, it may be stated, that one was compared, during a whole year, with the Society's Standard Barometer, particular care being given to make the comparison when atmospheric pressure was rising or falling very rapidly, with the result that none of the readings differed from those of the Standard more than 0.003 inch.

A modification of Fortin's Barometer is used at a number of the Society's Stations, by which the coincidence of the zero point with the surface of the mercury is indicated by a little ivory float, whose lower part is freely turned by the hand and ease of the cistern. When the float is in the position of the zero point, the ivory float is raised, so as to form a straight line with those on its ivory frame, the surface of the mercury in the tube is then read. This preliminary setting must be made with scrupulous accuracy; as a slight error here will vitiate the readings from the remainder.

It is absolutely necessary that the Barometer which is to be used, shall have been compared with a Standard Barometer. The Barometer should be suspended in as good a light as can be secured, and to facilitate the reading, a piece of white paper may be put behind the tube. It must be hung truly perpendicular, and exposed to neither the sun's direct rays nor the heat of a fire, and must not be hung against a wall heated by a fire. The object being to secure that the whole instrument, including the brass fittings, the contained mercury, and the attached Thermometer, shall be, when read, at one uniform temperature, it is evident that the best position is that which is least liable to sudden changes of temperature.

In taking an Observation, the Attached Thermometer is first noted: the tube must then be gently tapped, and the cistern-adjustment carefully made. The eye, by raising and lowering it, must be brought into the plane of the back and front of the index—usually the front edge of the vernier, which must be carefully adjusted so as to form a straight line with those on its ivory frame, the surface of the mercury in the tube is then read. The observer's head should be taken quickly, so as to prevent heat from the observer's breath acting on the mercury.

The use of a lens will facilitate the adjustment and reading of the Barometer. A mistake not infrequently made by those beginning to observe, consisting in setting the eye of the vernier to the level of the clear surface of the mercury which is in direct contact with the glass tube, must be carefully avoided.

The errors most frequently made in reading the Barometer are errors of 1.000 inch, most frequently made in reading the Barometer as 29.855 inches, instead of 29.865 inches, or 29.865 inches, instead of 29.875 inches. Experience having shown that even the very best Observers make these mistakes, particular attention is directed to the matter.

When a Barometer having adjustable surfaces has to be removed from its fastenings, the ivory peg must first be screwed so as to form a tight plug to the cistern, thus preventing the escape of the mercury. Then screw up the mercury not quite to the top of the tube, but to within a quarter of an inch of it, and take down the instrument; it should then be carried with the cistern uppermost. Before suspending the Barometer for use, it must be ascertained whether the space above the mercury is free from air. A simple test is produced when the mercury strikes the top of the tube, if a dull tap is heard, there is air in the tube, which must be got rid of.

As Barometers are liable to be damaged by the introduction of air into their tubes, on removal from the place, or in being roughly handled, it may be useful to Observers to know how the air may be expelled. First, close up the cistern by securing the ivory peg tight, so as to prevent the escape of mercury; then screw up the mercury to about half an inch from the top of the tube; and having slowly inverted the instrument, place the top of it on a yielding surface, such as the foot, and gently tap on the cistern with the palm of the hand, so as to induce the air to ascend through the column to the cistern, whence it may escape. Since there is the weight of two atmospheres—the pressure of the mercury in the Barometer, and the air outside—pressing on any air that may be inside the tube, it is usually a tedious operation to get it wholly expelled. After repeated trials, however, it is generally accomplished; and the clear metallic sound of the mercury, when gently struck against the top of the glass tube, will show when the whole of the air has been expelled. On hanging up the Barometer, care must be taken to see that the mercury in the tube before unfastening the foot of the cistern, &c. If this be not attended to, the mercury will flow out, and the instrument be seriously damaged.

The Council of the Society recommend that the Self-Registering Thermometers, and the Dry and Wet Bulb Hygrometers, and the Maximum and Minimum Thermometers, be kept in Stevenson's Linn-bonded Box for Thermometers, placed in a room where the thermometer is fixed in the ground. The posts must be of such a height, that the Thermometers are hung in position the Bulbs of the Maximum and Minimum Thermometers are at the same height of four feet above the ground, exactly at the same height of four feet above the ground. The Maximum Thermometer being hung immediately above the Minimum Thermometer. The Thermometer box is to be placed over a plot of grass, and in a free open space to which the sun's rays have free access during as much of the day as surrounding conditions enable the Observer to secure. The Thermometers are suspended on cross-baths in the centre of the box, and face the door, which should open to the north.

The Council regard the question of EXPOSURE OF HEIGHT ABOVE GROUND, AND METHOD IN PROTECTING THE THERMOMETERS, as vital in every system of Meteorological Observation, since without it Observations made at different Stations are incomparable, thus rendering it impossible to compare the climates of places with each other as regards their most important features. Professor Phillips, and Negretti and Zambra's Maximum Thermometers, and their Self-Registering Thermometers, are recommended. It is recommended that these Thermometers be graduated on the glass stem. The Minimum Thermometer is likely to be damaged—viz., the column of spirit breaking and part of the bulb falling by high temperatures and lodging at the top of the tube. This damage may be of occasional occurrence with Protected Thermometers, and is of frequent occurrence with exposed Thermometers. Hence, a systematic examination of Minimum Thermometers ought to be a regular part of the work carried on by each Observer.

Fortunately, Spirit Thermometers may be easily set right by any one, when the column of spirit chances to separate. Let the Thermometer be taken in the hand by the end farthest from the bulb, raised above the head, and then forcibly swung down towards the feet; the object being, on the principle of centrifugal force, to send down the detached portion of spirit till it unites with the column. A few blows, or swinging strokes, will generally be sufficient for the purpose; after which the Thermometer should be placed in a slanting position, to allow the rest of the spirit still adhering to the sides of the tube to drain down to the column. But another method must be adopted, if the portion of spirit in the top of the tube be small. Heat should be applied lightly and cautiously to the top end of the tube where the detached portion of spirit is, which, being turned colour of the bulb, will cause the spirit to break and the instrument too quickly; for, if this be done, the bulb will break and the instrument be destroyed. The best way to apply the requisite amount of heat, is by bringing the end of the tube slowly upwards towards a minute flame from a gas-burner; or, if gas be not at hand, a piece of heated metal will serve instead.

The bulbs of the Thermometers for registering the greatest heat from the sun's rays, and the least from radiation during night, have a black coating, which may easily be made, or mended, by the application of a mixture of lampblack and printer's ink. They are placed in shallow blackened boxes, whose sides protect the bulbs from the wind. The Maximum should be freely exposed to the sun, and the Minimum should rest on wooden supports a few inches from the surface of the grass in an open situation. Snow must not be allowed to cover either of these Thermometers; nor the sun's heat to affect the Minimum Thermometer by distillation. Black-balls enclosed in "glass jackets" may also be used, being interposed to the observation of Solar and Terrestrial Radiation is not yet in a sufficiently advanced state to warrant the exclusive recommendation of any one of them.

The Hygrometer in use at the Society's Stations consists of two Hygrometers usually by Negretti and Zambra, mounted on a single frame, the approved form of this apparatus being vitiated by the Hygro-metrical Observations. Observers are specially requested to attend to the following conditions:—The bulbs must be hung by at least an inch free from the scales and frame to which they are attached; the frame must be such as will be suspended; the water-cup must be covered, and altogether placed to the side, and a little below the level of the wet bulb, but in no case under the bulb; and the muslin must be of medium thickness, and fastened at the neck of the bulb by the cotton, which also supplies it with water. It must be seen to by the Observer that the muslin is always clean and moist, and the water pure. In frosty weather, observation is a matter of much delicacy, and must be made with great care. The bulb must be moistened by immersion from 15 to 30 minutes before the hour of observation. From the film of ice thus formed evaporation will proceed as from the moist cloth in ordinary circumstances.

In reading the Thermometer great care must be taken to bring the eye exactly opposite the tip of the index or Thermometer. The reading ought to be taken to tenths of a degree, and rounded in decimals. Thus the Thermometer will read 40° 30', or 40° 30' 10', or 40° 30' 20', or 40° 30' 30', or 40° 30' 40', or 40° 30' 50', or 40° 30' 60', or 40° 30' 70', or 40° 30' 80', or 40° 30' 90', or 40° 30' 100', or 40° 30' 110', or 40° 30' 120', or 40° 30' 130', or 40° 30' 140', or 40° 30' 150', or 40° 30' 160', or 40° 30' 170', or 40° 30' 180', or 40° 30' 190', or 40° 30' 200', or 40° 30' 210', or 40° 30' 220', or 40° 30' 230', or 40° 30' 240', or 40° 30' 250', or 40° 30' 260', or 40° 30' 270', or 40° 30' 280', or 40° 30' 290', or 40° 30' 300', or 40° 30' 310', or 40° 30' 320', or 40° 30' 330', or 40° 30' 340', or 40° 30' 350', or 40° 30' 360', or 40° 30' 370', or 40° 30' 380', or 40° 30' 390', or 40° 30' 400', or 40° 30' 410', or 40° 30' 420', or 40° 30' 430', or 40° 30' 440', or 40° 30' 450', or 40° 30' 460', or 40° 30' 470', or 40° 30' 480', or 40° 30' 490', or 40° 30' 500', or 40° 30' 510', or 40° 30' 520', or 40° 30' 530', or 40° 30' 540', or 40° 30' 550', or 40° 30' 560', or 40° 30' 570', or 40° 30' 580', or 40° 30' 590', or 40° 30' 600', or 40° 30' 610', or 40° 30' 620', or 40° 30' 630', or 40° 30' 640', or 40° 30' 650', or 40° 30' 660', or 40° 30' 670', or 40° 30' 680', or 40° 30' 690', or 40° 30' 700', or 40° 30' 710', or 40° 30' 720', or 40° 30' 730', or 40° 30' 740', or 40° 30' 750', or 40° 30' 760', or 40° 30' 770', or 40° 30' 780', or 40° 30' 790', or 40° 30' 800', or 40° 30' 810', or 40° 30' 820', or 40° 30' 830', or 40° 30' 840', or 40° 30' 850', or 40° 30' 860', or 40° 30' 870', or 40° 30' 880', or 40° 30' 890', or 40° 30' 900', or 40° 30' 910', or 40° 30' 920', or 40° 30' 930', or 40° 30' 940', or 40° 30' 950', or 40° 30' 960', or 40° 30' 970', or 40° 30' 980', or 40° 30' 990', or 40° 30' 1000', or 40° 30' 1010', or 40° 30' 1020', or 40° 30' 1030', or 40° 30' 1040', or 40° 30' 1050', or 40° 30' 1060', or 40° 30' 1070', or 40° 30' 1080', or 40° 30' 1090', or 40° 30' 1100', or 40° 30' 1110', or 40° 30' 1120', or 40° 30' 1130', or 40° 30' 1140', or 40° 30' 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# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barrow Cottage*, County of *North Ayr*, in Lat. *55° 49' 52"*, Long. *5° 45'*, Distance from Sea *10* miles.  
 Height of Cistern of the Barometer above Mean Sea-level *116* feet, above Ground *3* feet. During the MONTH of *August* 188*7*.  
 The Hours of Observation are of Greenwich Time.

| ELECTRICITY.                                 | Days of Month. | BAROMETER.          |                         |                   |                         | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |                                       |                          | HYGROMETER.     |              |                     |              | RAIN.   |                         | WIND.                       |        |                     |        | CLOUDS.     |   |                                      |           | THERMOMETERS<br>under Ground.                   |                                      |   |                   | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. | Days of Month. |                   |                                   |                                  |                |                |   |   |
|--|----------------|---------------------|-------------------------|-------------------|-------------------------|---|-------------|---------------------------------------|--------------------------|-----------------|--------------|---------------------|--------------|---|-------------------------|-----------------------------|--------|---------------------|--------|-------------|---|--------------------------------------|-----------|---|--------------------------------------|---|-------------------|------|--------|--|----------------|-------------------|-----------------------------------|----------------------------------|----------------|----------------|---|---|
|  |                | 9 h. A.M.           |                         | 9 h. P.M.         |                         | Protected in<br>Shade, 4 feet above<br>Ground.          |             | Exposed<br>Black Bulbs.<br>Sun-dials. |                          | Dry No. Wet No. |              | 9 h. A.M. 9 h. P.M. |              | No. of<br>hours<br>in<br>which<br>it<br>fell. |                         | No. Amount<br>in<br>inches. |        | 9 h. A.M. 9 h. P.M. |        | 9 A.M. P.M. |   | 9 h. A.M.                            |           | Temperature of<br>WELL at depth of<br>feet. No. |                                      | Temperature<br>at 1 inch,<br>and Density. |                   |      |        |  |                | 9 A.M. 9 P.M.     |                                   |                                  |                |                |   |   |
|  |                | Barometer.<br>* No. | Attached<br>Thermometer | Barometer.<br>No. | Attached<br>Thermometer | Max.<br>No.   | Min.<br>No. | Max. in<br>Sun-dial<br>No.            | Min. on<br>Screen<br>No. | Dry<br>bulb.    | Wet<br>bulb. | Dry<br>bulb.        | Wet<br>bulb. | No.   | Amount<br>in<br>inches. | Direction.                  | Force. | Direction.          | Force. | 9 h. A.M.   | Velocity<br>(0-5),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | 9 h. P.M. | Velocity<br>(0-5),<br>and<br>Direction.         | Amount<br>(0-10),<br>and<br>Species. | No. 3<br>inches.                          | No. 12<br>inches. |      |        |  |                | No. 22<br>inches. | No. 1<br>inch.                    | No. 1<br>inch.                   | No. 1<br>inch. | No. 1<br>inch. |   |   |
|  |                | inches.             | °                       | inches.           | °                       | °   | °           | °                                     | °                        | °               | °            | °                   | °            | °   | °                       | °                           | °      | °                   | °      | °           | °                                       | °                                    | °         | °   | °                                    | °   | °                 |      |        |  |                | °                 | °                                 | °                                | °              | °              | ° | ° |
|  |                | °                   | °                       | °                 | °                       | °   | °           | °                                     | °                        | °               | °            | °                   | °            | °   | °                       | °                           | °      | °                   | °      | °           | °                                       | °                                    | °         | °   | °                                    | °   | °                 |      |        |  |                | °                 | °                                 | °                                | °              | °              | ° | ° |
|  | 1              | 30.206              | 62                      | 30.200            | 62                      | 65.2  | 44          |                                       |                          | 60.5            | 55.5         | 55                  | 52.3         | 0.30  |                         | NW                          | 1      | NW                  | 5      |             | 3                                       | 10                                   |           |   |                                      |   |                   |      |        |  |                |                   | 5 clear & fine                    | 1                                |                |                |   |   |
|  | 2              | 30.224              | 59                      | 30.314            | 61                      | 62.6  | 47          |                                       |                          | 56              | 50.5         | 51.8                | 49.5         |   |                         | WNW                         | 1      | NW                  | 5      |             | 5                                       |                                      |           |   |                                      |   |                   |      |        |  |                | 2c warm           | 2                                 |                                  |                |                |   |   |
|  | 3              | 30.300              | 58                      | 30.314            | 62                      | 67.6  | 45          |                                       |                          | 55.0            | 51.5         | 52                  | 51.2         |   |                         | W                           | 5      | calm                |        |             | 10                                      |                                      |           |   |                                      |   |                   |      |        |  |                | clear & fine      | 3                                 |                                  |                |                |   |   |
|  | 4              | 30.286              | 63                      | 30.194            | 62                      | 73.5  | 47.5        |                                       |                          | 66.5            | 60           | 57                  | 54           |   |                         | SE                          | 5      | SE                  | 5      |             |   |                                      |           |   |                                      |   |                   |      |        |  |                | 1c warm           | 4                                 |                                  |                |                |   |   |
|  | 5              | 30.134              | 63                      | 30.040            | 65                      | 73  | 52.5        |                                       |                          | 64.2            | 57.6         | 61                  | 56           |   |                         | SE                          | 5      | S                   | 1      |             | 8                                       | 9                                    |           |   |                                      |   |                   |      |        |  |                | 1/2c clear        | 5                                 |                                  |                |                |   |   |
|  | 6              | 30.012              | 64                      | 29.774            | 64                      | 62  | 55.5        |                                       |                          | 60              | 59           | 57.5                | 57.5         |   |                         | SE                          | 5      | S                   | 1      |             | 10                                      | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c & web          | 6                                 |                                  |                |                |   |   |
|  | 7              | 30.012              | 60                      | 30.080            | 63                      | 64  | 54          |                                       |                          | 58.2            | 52           | 58                  | 54.6         |   |                         | NW                          | 2      | WSW                 | 5      |             | 6                                       | 10                                   |           |   |                                      |   |                   |      |        |  |                | cloudy fine       | 7                                 |                                  |                |                |   |   |
|  | 8              | 30.016              | 63                      | 30.016            | 62                      | 61  | 55.5        |                                       |                          | 60              | 58.2         | 56.2                | 55.2         |   |                         | W                           | 1.5    | W                   | 1.5    |             | 10                                      | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c & bly damp     | 8                                 |                                  |                |                |   |   |
|  | 9              | 30.018              | 61                      | 30.040            | 58                      | 61.5  | 50.5        |                                       |                          | 57              | 55           | 52                  | 49.5         |   |                         | W                           | 1.5    | NW                  | 1      |             | 10                                      | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c & bly damp     | 9                                 |                                  |                |                |   |   |
|  | 10             | 30.160              | 57                      | 30.180            | 58                      | 64  | 47.5        |                                       |                          | 54.2            | 49           | 49.5                | 46.2         |   |                         | NW                          | 1      | NW                  | 1      |             | 5                                       | 2                                    |           |   |                                      |   |                   |      |        |  |                | 2c & bly fine     | 10                                |                                  |                |                |   |   |
|  | 11             | 30.050              | 58                      | 30.020            | 57                      | 62  | 47          |                                       |                          | 56              | 49           | 50                  | 48           |   |                         | NW                          | 5      | NW                  | 5      |             | 5                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c & bly fine     | 11                                |                                  |                |                |   |   |
|  | 12             | 29.906              | 58                      | 29.860            | 58                      | 57.6  | 47.6        |                                       |                          | 56.5            | 52.8         | 52                  | 51           |   |                         | WNW                         | 5      | NE                  | 5      |             | 8                                       | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c                | 12                                |                                  |                |                |   |   |
|  | 13             | 29.930              | 56                      | 29.946            | 57                      | 61.2  | 46          |                                       |                          | 52.5            | 47.8         | 46.2                | 45.3         |   |                         | NE                          | 5      | NW                  | 5      |             | 10                                      | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c slight showers | 13                                |                                  |                |                |   |   |
|  | 14             | 29.854              | 54                      | 30.000            | 58                      | 60.5  | 42.5        |                                       |                          | 51.8            | 46.6         | 48.2                | 46.2         |   |                         | NW                          | 1      | NW                  | 5      |             | 8                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c & bly fine     | 14                                |                                  |                |                |   |   |
|  | 15             | 29.948              | 57                      | 29.850            | 61                      | 64.2  | 40.2        |                                       |                          | 58.5            | 52.2         | 51.8                | 49.8         |   |                         | WNW                         | 5      | calm                |        |             | 2                                       | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c fine           | 15                                |                                  |                |                |   |   |
|  | 16             | 29.750              | 58                      | 29.764            | 62                      | 71  | 44          |                                       |                          | 62              | 57           | 52                  | 50           |   |                         | SE                          | 5      | calm                |        |             | 2                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c fine warm      | 16                                |                                  |                |                |   |   |
|  | 17             | 29.800              | 58                      | 29.840            | 60                      | 65  | 46.2        |                                       |                          | 61.3            | 56           | 57                  | 48.5         |   |                         | NW                          | 5      | NW                  | 1      |             | 2                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c "              | 17                                |                                  |                |                |   |   |
|  | 18             | 29.880              | 59                      | 29.920            | 60                      | 64  | 47.5        |                                       |                          | 55.2            | 51           | 52.5                | 52.5         |   |                         | NW                          | 1      | NW                  | 5      |             | 8                                       | 8                                    |           |   |                                      |   |                   |      |        |  |                | 2c " showers      | 18                                |                                  |                |                |   |   |
|  | 19             | 29.944              | 58                      | 29.944            | 60                      | 65  | 48.2        |                                       |                          | 55.0            | 52.2         | 53.0                | 50.0         |   |                         | NW                          | 5      | NW                  | 5      |             | 10                                      | 8                                    |           |   |                                      |   |                   |      |        |  |                | 2c "              | 19                                |                                  |                |                |   |   |
|  | 20             | 30.000              | 57                      | 30.030            | 60                      | 66  | 43          |                                       |                          | 57.2            | 54           | 46                  | 44.5         |   |                         | NW                          | 5      | NW                  | 5      |             | 8                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c "              | 20                                |                                  |                |                |   |   |
|  | 21             | 30.030              | 57                      | 30.024            | 59                      | 63.5  | 41.5        |                                       |                          | 54.0            | 49.6         | 45.5                | 43.5         |   |                         | calm                        |        | calm                |        |             | 8                                       | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c "              | 21                                |                                  |                |                |   |   |
|  | 22             | 29.916              | 58                      | 29.868            | 58                      | 61.2  | 45          |                                       |                          | 56              | 55           | 54.2                | 53.5         |   |                         | SE                          | 5      | NW                  | 5      |             | 10                                      | 1                                    |           |   |                                      |   |                   |      |        |  |                | 2c damp           | 22                                |                                  |                |                |   |   |
|  | 23             | 29.914              | 57                      | 29.964            | 62                      | 68.5  | 47.5        |                                       |                          | 58.2            | 57.5         | 57                  | 54.5         |   |                         | W                           | 5      | calm                |        |             | 10                                      | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c fine           | 23                                |                                  |                |                |   |   |
|  | 24             | 29.929              | 60                      | 29.826            | 62                      | 72  | 50          |                                       |                          | 57.5            | 55.5         | 56                  | 54           |   |                         | NE                          | 1      | calm                |        |             | 8                                       | 5                                    |           |   |                                      |   |                   |      |        |  |                | 2c "              | 24                                |                                  |                |                |   |   |
|  | 25             | 29.808              | 62                      | 29.770            | 67                      | 64.5  | 53          |                                       |                          | 57              | 57.6         | 54.5                | 54           |   |                         | SE                          | 5      | calm                |        |             | 10                                      | 5                                    |           |   |                                      |   |                   |      |        |  |                | 2c & damp         | 25                                |                                  |                |                |   |   |
|  | 26             | 29.606              | 62                      | 29.514            | 62                      | 66.2  | 53.5        |                                       |                          | 61              | 59.5         | 57.5                | 57           |   |                         | E                           | 5      | S                   | 1      |             | 10                                      | 8                                    |           |   |                                      |   |                   |      |        |  |                | " & damp          | 26                                |                                  |                |                |   |   |
|  | 27             | 29.640              | 61                      | 29.650            | 63                      | 70.2  | 51          |                                       |                          | 59              | 57.6         | 60                  | 57           |   |                         | SE                          | 5      | SE                  | 5      |             | 10                                      | 5                                    |           |   |                                      |   |                   |      |        |  |                | 1c fine           | 27                                |                                  |                |                |   |   |
|  | 28             | 29.620              | 62                      | 29.560            | 62                      | 68  | 57          |                                       |                          | 61.8            | 60.6         | 58.3                | 56.5         |   |                         | SE                          | 5      | SE                  | 5      |             | 10                                      | 8                                    |           |   |                                      |   |                   |      |        |  |                | 2c fine           | 28                                |                                  |                |                |   |   |
|  | 29             | 29.460              | 62                      | 29.420            | 64                      | 68  | 54          |                                       |                          | 58.5            | 58           | 56.5                | 56           |   |                         | SE                          | 5      | calm                |        |             | 10                                      | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c fine           | 29                                |                                  |                |                |   |   |
|  | 30             | 29.400              | 64                      | 29.304            | 64                      | 66.4  | 55          |                                       |                          | 60              | 57           | 56.6                | 56.3         |   |                         | SW                          | 1      | SE                  | 5      |             | 8                                       | 8                                    |           |   |                                      |   |                   |      |        |  |                | cloudy showers    | 30                                |                                  |                |                |   |   |
|  | 31             | 29.200              | 62                      | 29.360            | 62                      | 65.2  | 53          |                                       |                          | 57.8            | 56.8         | 54                  | 53.3         |   |                         | calm                        |        |                     |        |             | 8                                       | 10                                   |           |   |                                      |   |                   |      |        |  |                | 2c heavy showers  | 31                                |                                  |                |                |   |   |
| Sums.  |                | 1589                | 15                      | 1413              | 11                      | 126   | 146         |                                       |                          | 159             | 179          | 147                 | 159          |   |                         | 76                          | 10     | 8                   |        |             | 232                                     | 166                                  |           |   |                                      |   |                   |      |        |  |                |                   | NOTATION USED IN GENERAL REMARKS. |                                  |                |                |   |   |
| Means.                                       |                | 29.905              | 59.7                    | 29.891            | 61.1                    | 65.3  | 48.8        |                                       |                          | 58.2            | 54.6         | 53.7                | 51.8         |   |                         | 0.69                        | 0.48   |                     |        |             | 7.5                                     | 5.4                                  |           |   |                                      |   |                   |      |        |  |                |                   | a. denotes aurora.                |                                  |                |                |   |   |
| † Total Corrections for Instrumental Errors. |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | cl. " cirrus.                    |                |                |   |   |
| † Corrections for Diurnal Range.             |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | cl.-cu. " cirro-cumulus.         |                |                |   |   |
| "Corrected Means."                           |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | cl.-s. " cirro-stratus.          |                |                |   |   |
| No. of Column.                               |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | cu. " cumulus.                   |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | cu.-s. " cumulo-stratus.         |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | d. " dew.                        |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | f. " fog.                        |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | fr. " frost.                     |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | h.-fr. " hoar-frost.             |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | h. " haze.                       |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | h. d. " heavy dew.               |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | hl. " hail.                      |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | l. " lightning.                  |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | li. cl. " light clouds.          |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | lu. co. " lunar corona.          |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | lu. ha. " lunar halo.            |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | m. denotes meteor.               |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | ms. " meteors.                   |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | n. " nimbus.                     |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | r. " rain.                       |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | h. r. " heavy rain.              |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | c. h. r. " continued heavy rain. |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | s. " stratus.                    |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | sc. " scud.                      |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | s. " snow.                       |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | sol. h. " solar halo.            |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | sq. " squall.                    |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   | sq. " squalls.                   |                |                |   |   |
|  |                |                     |                         |                   |                         |   |             |                                       |                          |                 |              |                     |              |   |                         |                             |        |                     |        |             |   |                                      |           |   |                                      |   |                   |      |        |  |                |                   |                                   |                                  |                |                |   |   |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = *29.821*  
 for Temp. (Col. 2), = *29.905* ..... - *0.084* }  
 Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = *29.804*  
 for Temp. (Col. 4), = *29.891* ..... - *0.087* }  
 Mean at Station, corrected, and at 32°, ..... = *29.813*  
 Correction for height, *116* feet above Mean Sea-level, ..... = *0.127*  
 Mean, reduced to 32°, and Sea-level, ..... = *29.940*  
 Highest Reading, corrected for Index error, on the *3* *th*, ..... = *30.314*  
 Lowest Do. Do., on the *31* *th*, ..... = *29.200*  
 Difference, or Monthly Range, ..... = *1.114*

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *4* *th*, ..... = *73.0*  
 Lowest in Month, corrected for Index errors, on the *15* *th*, ..... = *40.2*  
 Difference, or Monthly Range, ..... = *32.8*  
 "Corrected Mean" of all the Highest, (Col. 5), ..... = *65.3*  
 "Corrected Mean" of all the Lowest, (Col. 6), ..... = *48.8*  
 Difference, or Mean Daily Range, ..... = *16.5*  
 \*\* Calculated Mean Temperature of Month, ..... = *57.1*  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the *th*, ..... =  
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, ..... =  
 Lowest at Night, Black Bulb, (corrected for Index errors), on the *th*, ..... =  
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, ..... =  
 Difference of above Means or Range ("exposed"), ..... =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), ..... = *56.0*  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), ..... = *53.2*  
 ‡ Computed Temperature of Dew-Point, ..... = *50.6*  
 ‡ Do. Elastic Force of Vapour, ..... = *358.370*  
 ‡ Do. Weight of Vapour in a Cubic Foot of Air, ... =  
 ‡ Relative Humidity, (Saturation = 100), ..... = *82*  
 RAIN fell on *20* Days; Amount in Inches, ..... = *3.72*

| WIND.      |                  | SUMMARY.          |             |                                 |  |
|------------|------------------|-------------------|-------------|---------------------------------|--|
| Direction. |                  | Calm or Variable. | Mean Force. | Mean Velocity in miles per day. |  |
| A.M.       | 0 2 2 3 1 1 9 8  | 1                 | 0.69        |                                 |  |
| P.M.       | 0 2 0 5 3 0 3 10 | 8                 | 0.48        |                                 |  |
| Mean.      | 0 2 1 6 2 1 6 9  | 4                 | 0.59 = 0.35 |                                 |  |

\* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.  
 † Embracing corrections for both capillarity and Index Errors.  
 ‡ The Diurnal Range for Scotland is as yet unknown.  
 †† Practically, though not absolutely a minus correction.  
 ‡‡ These "Hygrometrical Reductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.  
 ‡‡‡ While the Diurnal Range is unknown, the Arithmetic Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."  
 Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by

*James May*

(Signed)

*James May*

*J.E.*

*17*







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barone Cottage County of Perth, in Lat. 56° 49' 50" Long. 3° 4' 5", Distance from Sea 10 miles.  
 Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet. During the MONTH of September 1888.  
 The Hours of Observation are of Greenwich Time.

| ELECTRICITY.   | Days of Month. | BAROMETER. |                                |            |                                | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |      |                         |      | HYGROMETER. |           |           |           | RAIN.   |                         | WIND.      |        |            |        | CLOUDS.                                 |                                      |   |                                      | THERMOMETERS<br>under Ground. |                   |                   | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Deposition or Effluvia of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. |                      | Days of Month.   |    |    |
|--|----------------|------------|--------------------------------|------------|--------------------------------|---|------|-------------------------|------|-------------|-----------|-----------|-----------|---|-------------------------|------------|--------|------------|--------|---|--------------------------------------|---|--------------------------------------|-------------------------------|-------------------|-------------------|------|--------|---|----------------------|------------------|----|----|
|  |                | 9 h. A.M.  |                                | 9 h. P.M.  |                                | Protected in<br>Shade, 4 feet above<br>Ground.          |      | Exposed<br>Black Bulbs. |      | 9 h. A.M.   |           | 9 h. P.M. |           | No. of<br>hours<br>in<br>which<br>it<br>fell. | Amount<br>in<br>inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | 9 A.M.                                  |                                      | P.M.                                    |                                      | 9 h. A.M.                     |                   |                   |      |        |   |                      |                  |    |    |
|  |                | Barometer. | Atta-<br>ched Ther-<br>mometer | Barometer. | Atta-<br>ched Ther-<br>mometer | Max.  | Min. | Max.                    | Min. | Dry bulb.   | Wet bulb. | Dry bulb. | Wet bulb. |   |                         | Direction. | Force. | Direction. | Force. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | No. 8<br>inches.              | No. 12<br>inches. | No. 22<br>inches. |      |        |   |                      |                  |    |    |
|  |                | inches.    | °                              | inches.    | °                              | °   | °    | °                       | °    | °           | °         | °         | °         |   |                         | °          | °      | °          | °      | °                                       | °                                    | °                                       | °                                    | °                             | °                 | °                 |      |        |   |                      |                  | °  | °  |
|  | 1              | 29.426     | 60                             | 29.346     | 62                             | 65.5  | 52.2 |                         |      | 57          | 54        | 56.5      | 53.5      |   | 615                     | SSW        | 5      | ENE        | 5      |   |                                      | 8                                       | 10                                   |                               |                   |                   |      |        |   | 4 clear fine         | 1                |    |    |
|  | 2              | 29.020     | 60                             | 29.286     | 60                             | 57.8  | 53   |                         |      | 55.2        | 54.2      | 54        | 52        |   | 020                     | WSW        | 1      | WSW        | 1      |   |                                      | 10                                      | 5                                    |                               |                   |                   |      |        |   | cloudy cloudy        | 2                |    |    |
|  | 3              | 29.508     | 60                             | 29.544     | 60                             | 68  | 51   |                         |      | 60          | 56.3      | 54        | 53        |   | 430                     | SSW        | 1      | calm       | -      |   |                                      | 8                                       | 10                                   |                               |                   |                   |      |        |   | 4 clear fine         | 3                |    |    |
|  | 4              | 29.466     | 58                             | 29.420     | 59                             | 60.6  | 52.5 |                         |      | 56          | 55.3      | 53.2      | 52.2      |   | 070                     | NE         | 5      | calm       | -      |   |                                      | 10                                      | 6                                    |                               |                   |                   |      |        |   | cloudy showers       | 4                |    |    |
|  | 5              | 29.296     | 58                             | 29.134     | 60                             | 61  | 48   |                         |      | 53          | 52        | 52        | 51.2      |   | 575                     | SE         | 5      | E          | 1      |   |                                      | 10                                      | 10                                   |                               |                   |                   |      |        |   | Drill and rain       | 5                |    |    |
|  | 6              | 29.270     | 57                             | 29.442     | 58                             | 57.5  | 50   |                         |      | 51.3        | 50.4      | 53.5      | 49.8      |   | 205                     | NE         | 5      | NE         | 1      |   |                                      | 10                                      | 10                                   |                               |                   |                   |      |        |   | " " " "              | 6                |    |    |
|  | 7              | 29.812     | 56                             | 30.124     | 56                             | 62  | 44.5 |                         |      | 55          | 49.3      | 45        | 43        |   | -                       | N          | 1      | NW         | 5      |   |                                      | 2                                       | 2                                    |                               |                   |                   |      |        |   | 4 clear fine         | 7                |    |    |
|  | 8              | 30.162     | 56                             | 29.930     | 56                             | 64.8  | 41.5 |                         |      | 59          | 54        | 53.2      | 52.3      |   | 145                     | SSW        | 1      | S          | 1.5    |   |                                      | 5                                       | 10                                   |                               |                   |                   |      |        |   | cloudy               | 8                |    |    |
|  | 9              | 29.784     | 59                             | 29.800     | 56                             | 60.6  | 41   |                         |      | 59          | 57.4      | 49        | 46.2      |   | 208                     | SW         | 5      | W          | 5      |   |                                      | 10                                      | 8                                    |                               |                   |                   |      |        |   | Drill cloudy showers | 9                |    |    |
|  | 10             | 29.760     | 55                             | 29.764     | 55                             | 57.5  | 45.5 |                         |      | 51.5        | 48.8      | 50        | 48.5      |   | 473                     | W          | 1.5    | WNW        | 2      |   |                                      | 8                                       | 10                                   |                               |                   |                   |      |        |   | cloudy showers       | 10               |    |    |
|  | 11             | 29.600     | 55                             | 29.720     | 56                             | 59.2  | 45   |                         |      | 52          | 51.2      | 45.2      | 42.2      |   | 065                     | N          | 5      | N          | 5      |   |                                      | 8                                       | 2                                    |                               |                   |                   |      |        |   | 4 clear breezy fine  | 11               |    |    |
|  | 12             | 29.644     | 54                             | 29.706     | 54                             | 55  | 44   |                         |      | 51          | 48        | 44.5      | 43        |   | 006                     | WNW        | 1      | NW         | 5      |   |                                      | 5                                       | -                                    |                               |                   |                   |      |        |   |                      | 50 fine rain     | 12 |    |
|  | 13             | 29.870     | 52                             | 29.890     | 53                             | 61  | 38   |                         |      | 52          | 47        | 49        | 45        |   | -                       | NW         | 1      | NW         | 1.5    |   |                                      | -                                       | -                                    |                               |                   |                   |      |        |   |                      | 30 breezy fine   | 13 |    |
|  | 14             | 29.822     | 54                             | 29.770     | 55                             | 60.6  | 44.5 |                         |      | 56          | 51.3      | 49        | 48.5      |   | 420                     | NW         | 1.5    | calm       | -      |   |                                      | 1                                       | 10                                   |                               |                   |                   |      |        |   |                      | 40 and rain      | 14 |    |
|  | 15             | 29.770     | 55                             | 29.810     | 57                             | 62.6  | 44   |                         |      | 56.3        | 52        | 50        | 49        |   | 328                     | -          | -      | calm       | -      |   |                                      | -                                       | 10                                   |                               |                   |                   |      |        |   |                      | 50 " "           | 15 |    |
|  | 16             | 29.850     | 57                             | 29.980     | 56                             | 59.5  | 46.5 |                         |      | 51.5        | 50.6      | 48.5      | 46        |   | 080                     | NW         | 1      | -          | -      |   |                                      | 10                                      | -                                    |                               |                   |                   |      |        |   |                      | 50 " showers     | 16 |    |
|  | 17             | 30.192     | 54                             | 30.380     | 56                             | 67  | 40   |                         |      | 57          | 53        | 46        | 45        |   | -                       | NW         | 5      | W          | 5      |   |                                      | 2                                       | 2                                    |                               |                   |                   |      |        |   |                      | 30 fine          | 17 |    |
|  | 18             | 30.450     | 54                             | 30.500     | 56                             | 64  | 39   |                         |      | 57.2        | 53.2      | 47.5      | 45.5      |   | -                       | calm       | -      | NW         | 5      |   |                                      | -                                       | -                                    |                               |                   |                   |      |        |   |                      | clear & fine     | 18 |    |
|  | 19             | 30.476     | 54                             | 30.410     | 57                             | 59.5  | 45   |                         |      | 54.5        | 49.6      | 53        | 50.3      |   | -                       | NW         | 1      | NW         | 1      |   |                                      | 8                                       | 2                                    |                               |                   |                   |      |        |   |                      | 30 breezy fine   | 19 |    |
|  | 20             | 30.360     | 56                             | 30.350     | 57                             | 67.5  | 46.5 |                         |      | 57          | 52.5      | 48        | 47        |   | 002                     | ENE        | 5      | calm       | -      |   |                                      | 1                                       | -                                    |                               |                   |                   |      |        |   |                      | clear fine       | 20 |    |
|  | 21             | 30.352     | 55                             | 30.320     | 55                             | 56  | 46.2 |                         |      | 51.5        | 50.3      | 51.5      | 51        |   | -                       | calm       | -      | calm       | -      |   |                                      | 10                                      | 10                                   |                               |                   |                   |      |        |   |                      | Drill heavy mild | 21 |    |
|  | 22             | 30.316     | 56                             | 30.356     | 57                             | 63.5  | 49   |                         |      | 55          | 51.5      | 50        | 48.2      |   | -                       | NW         | 5      | NW         | 1.5    |   |                                      | 8                                       | -                                    |                               |                   |                   |      |        |   |                      | c & fine         | 22 |    |
|  | 23             | 30.430     | 54                             | 30.490     | 55                             | 65  | 42.5 |                         |      | 53          | 51.5      | 50        | 49        |   | -                       | calm       | -      | SE         | 5      |   |                                      | -                                       | 5                                    |                               |                   |                   |      |        |   |                      | " "              | 23 |    |
|  | 24             | 30.446     | 56                             | 30.390     | 59                             | 66  | 49   |                         |      | 55          | 53        | 52        | 50        |   | -                       | NE         | 5      | calm       | -      |   |                                      | 2                                       | 10                                   |                               |                   |                   |      |        |   |                      | 30 fine          | 24 |    |
|  | 25             | 30.200     | 56                             | 29.880     | 56                             | 66.8  | 51   |                         |      | 54          | 52.5      | 53        | 52.3      |   | 140                     | WNW        | 5      | SW         | 1      |   |                                      | 10                                      | 10                                   |                               |                   |                   |      |        |   |                      | Drill mild       | 25 |    |
|  | 26             | 29.568     | 57                             | 29.430     | 55                             | 68  | 47   |                         |      | 51.2        | 49.3      | 47.5      | 46        |   | 400                     | WNW        | 5      | W          | 5      |   |                                      | 8                                       | -                                    |                               |                   |                   |      |        |   |                      | 30 showers       | 26 |    |
|  | 27             | 29.224     | 53                             | 29.190     | 52                             | 52.6  | 40   |                         |      | 42.3        | 41.5      | 44        | 41.5      |   | 020                     | calm       | -      | SW         | 5      |   |                                      | 8                                       | 5                                    |                               |                   |                   |      |        |   |                      | 40 " "           | 27 |    |
|  | 28             | 29.234     | 50                             | 29.320     | 50                             | 61.2  | 37   |                         |      | 48          | 46        | 39.5      | 38.2      |   | 030                     | NE         | 5      | NW         | 5      |   |                                      | 5                                       | -                                    |                               |                   |                   |      |        |   |                      | 30 fine          | 28 |    |
|  | 29             | 29.480     | 51                             | 29.790     | 52                             | 62.3  | 38   |                         |      | 52          | 49        | 52        | 50.2      |   | -                       | NE         | 1      | E          | 1.5    |   |                                      | 5                                       | 5                                    |                               |                   |                   |      |        |   |                      | 40 breezy fine   | 29 |    |
|  | 30             | 29.006     | 53                             | 30.094     | 53                             | 65  | 45   |                         |      | 58          | 52        | 45.3      | 44        |   | -                       | ENE        | 1      | calm       | -      |   |                                      | 1                                       | -                                    |                               |                   |                   |      |        |   |                      | 30 " "           | 30 |    |
|  | 31             |            |                                |            |                                |   |      |                         |      |             |           |           |           |   |                         |            |        |            |        |   |                                      |   |                                      |                               |                   |                   |      |        |   |                      |                  |    | 31 |
| Sums.  |                | 13 48      | 13                             | 15 44      | 14                             | 159   | 13 4 |                         |      | 133         | 128       | 134       | 135       |   | 65                      |            | 7      | 7          |        |   |                                      |   | 173                                  | 152                           |                   |                   |      |        |   |                      |                  |    |    |
| Means.   |                | 29.828     | 55.5                           | 29.852     | 56.1                           | 61.4  | 52   |                         |      | 54.1        | 51.2      | 49.5      | 47.8      |   | 4.532                   |            | 0.62   | 0.58       |        |   |                                      |   | 5.8                                  | 5.1                           |                   |                   |      |        |   |                      |                  |    |    |
| † Total<br>Corrections<br>for Instru-<br>mental<br>Errors. |                |            |                                |            |                                |   |      |                         |      |             |           |           |           |   |                         |            |        |            |        |   |                                      |   |                                      |                               |                   |                   |      |        |   |                      |                  |    |    |
| ‡ Corre-<br>ctions for<br>Diurnal<br>Range.                |                |            |                                |            |                                |   |      |                         |      |             |           |           |           |   |                         |            |        |            |        |   |                                      |   |                                      |                               |                   |                   |      |        |   |                      |                  |    |    |
| “Cor-<br>rected<br>Means.”                                 |                |            |                                |            |                                |   |      |                         |      |             |           |           |           |   |                         |            |        |            |        |   |                                      |   |                                      |                               |                   |                   |      |        |   |                      |                  |    |    |
| No. of<br>Column.  |                | 1          | 2                              | 3          | 4                              | 5   | 6    | 7                       | 8    | 9           | 10        | 11        | 12        | 13  | 14                      | 15         | 16     | 17         | 18     | 19                                      | 20                                   | 21                                      | 22                                   | 23                            | 24                | 25                | 26   | 27     | 28  | 29                   | 30               |    |    |

| NOTATION USED IN GENERAL REMARKS. |                 |  |  |          |                       |
|-----------------------------------|-----------------|--|--|----------|-----------------------|
| a.                                | denotes aurora. |  |  | m.       | denotes meteor.       |
| ci.                               | cirrus.         |  |  | ms.      | meteors.              |
| ci.-cu.                           | cirro-cumulus.  |  |  | n.       | nimbus.               |
| ci.-s.                            | cirro-stratus.  |  |  | r.       | rain.                 |
| cu.                               | cumulus.        |  |  | h. r.    | heavy rain.           |
| cu.-s.                            | cumulo-stratus. |  |  | c. h. r. | continued heavy rain. |
| d.                                | dew.            |  |  | s.       | stratus.              |
| f.                                | fog.            |  |  | sc.      | scud.                 |
| fr.                               | frost.          |  |  | s.       | sleet.                |
| h.-fr.                            | hoar-frost.     |  |  | s.       | snow.                 |
| h.                                | haze.           |  |  | sol.     | solar halo.           |
| h. d.                             | heavy dew.      |  |  | sq.      | squall.               |
| hl.                               | hail.           |  |  | sqs.     | squalls.              |
| l.                                | lightning.      |  |  | t.       | thunder.              |
| li. cl.                           | light clouds.   |  |  | t. s.    | thunder storm.        |
| li. sh.                           | light showers.  |  |  | w.       | wind.                 |
| lu. co.                           | lunar corona.   |  |  | g.       | gale of wind.         |
| lu. ha.                           | lunar halo.     |  |  |          |                       |

| TABLE FOR ESTIMATING FORCE OF WIND. |                        |                            |                        |                             |                        |
|-------------------------------------|------------------------|----------------------------|------------------------|-----------------------------|------------------------|
| Estimated<br>Force,<br>0-6.         | Common<br>Designation. | Estimated<br>Force<br>0-6. | Common<br>Designation. | Estimated<br>Force,<br>0-6. | Common<br>Designation. |
| 0                                   | Calm                   | 1-5                        | Light breeze           | 4                           | Blowing hard           |
| 0.5                                 | Very light air         | 2                          | Fresh breeze           | 5                           | Blowing a gale         |
| 1                                   | Light air              | 3                          | Very fresh             | 6                           | Violent gale           |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† for Temp. (Col. 2), = 29.756  
 Corrected Mean" of Barometer at 9 P.M., minus the Correction†† for Temp. (Col. 4), = 29.778  
 Mean at Station, corrected, and at 32°, = 29.767  
 Correction for height, 116 feet above Mean Sea-level, = .127  
 Mean, reduced to 32°, and Sea-level, = 29.894  
 Highest Reading, corrected for Index error, on the 18th, = 30.500  
 Lowest Do. Do., on the 2nd, = 29.020  
 Difference, or Monthly Range, = 1.480

S.-R. THERMOMETER, (in shade, etc.) Highest in Month, (corrected for Index Errors), on the 3rd, = 68.0  
 Lowest in Month, corrected for Index errors, on the 28th, = 37.0  
 Difference, or Monthly Range, = 31.0  
 "Corrected Mean" of all the Highest, (Col. 5), = 61.1  
 "Corrected Mean" of all the Lowest, (Col. 6), = 45.2  
 Difference, or Mean Daily Range, = 15.9  
 \*\* Calculated Mean Temperature of Month, = 53.2  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =   
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =   
 Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =   
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =   
 Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 51.8  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 49.5  
 ‡ Computed Temperature of Dew-Point, = 47.2  
 ‡ Do. Elastic Force of Vapour, = .326  
 ‡ Do. Weight of Vapour in a Cubic Foot of Air, =   
 ‡ Relative Humidity, (Saturation = 100), = 85  
 RAIN fell on 19 Days; Amount in Inches, = 4.53

| WIND.      |                     | SUMMARY.          |             |                                 |  |
|------------|---------------------|-------------------|-------------|---------------------------------|--|
| Direction. | N NE E SE S SW W NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day. |  |
| A.M.       | 3 5 2 1 4 1 5 5     | 4                 | 0.62        |                                 |  |
| P.M.       | 1 1 3 1 1 2 5 7     | 9                 | 0.58        |                                 |  |
| Mean.      | 2 3 2 2 1 3 2 5     | 6                 | 0.60        | 0.36                            |  |

\* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.  
 † Embracing corrections for both capillarity and Index Errors.  
 ‡ The Diurnal Range for Scotland is as yet unknown.  
 †† Practically, though not absolutely a minus correction.  
 ‡‡ These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.  
 While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."  
 Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by James Gray

(Signed) James Gray

J.G.  
 M.







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow Cottage, County of Bute, in Lat. 58° 49' 50", Long. 5° 45', Distance from Sea 10 miles.

Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet.

During the MONTH of October 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month.                               | BAROMETER.          |                                |                   |                                | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |             |                                   |                          | HYGROMETER.      |                  |                  |                  | RAIN. | WIND.                                   |                         |            |        | CLOUDS.    |        |   |           | THERMOMETERS<br>under Ground.           |                                      |   |                                      | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. | Days of Month. |                  |                   |                     |   |  |   |
|--------------|--|---------------------|--------------------------------|-------------------|--------------------------------|---|-------------|-----------------------------------|--------------------------|------------------|------------------|------------------|------------------|-------|---|-------------------------|------------|--------|------------|--------|---|-----------|---|--------------------------------------|---|--------------------------------------|------|--------|--|----------------|------------------|-------------------|---------------------|---|--|---|
|              |  | 9 h. A.M.           |                                | 9 h. P.M.         |                                | Protected in<br>Shade, 4 feet above<br>Ground.          |             | Exposed<br>Black Bulbs.<br>Grass. |                          | 9 h. A.M.        |                  | 9 h. P.M.        |                  |       | 9 h. A.M.                               |                         | 9 h. P.M.  |        | 9 A.M.     |        | P.M.  |           | 9 h. A.M.                               |                                      | 9 A.M. 9 P.M.                           |                                      |      |        |  |                |                  |                   |                     |   |  |   |
|              |  | Barometer.<br>* No. | Attach-<br>ed Ther-<br>mometer | Barometer.<br>No. | Attach-<br>ed Ther-<br>mometer | Max.<br>No.   | Min.<br>No. | Max. H.<br>Sun's rays<br>No.      | Min. on<br>Grass.<br>No. | Dry bulb.<br>No. | Wet bulb.<br>No. | Dry bulb.<br>No. | Wet bulb.<br>No. |       | No. of<br>hours in<br>which it<br>fell. | Amount<br>in<br>inches. | Direction. | Force. | Direction. | Force. | Readings of<br>the H. Cap<br>Anemometer.<br>No. | 9 h. A.M. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. |      |        |  |                | No. 3<br>inches. | No. 10<br>inches. | No. 22<br>inches.   | Temperature of<br>Wet Bulb, in<br>feet, No. | Temperature<br>at surface<br>and<br>Dew Point. |   |
|              |  | inches.             | °                              | inches.           | °                              | °   | °           | °                                 | °                        | °                | °                | °                | °                |       | °                                       | °                       | °          | °      | °          | °      | °   | °         | °                                       | °                                    | °                                       | °                                    |      |        |  |                | °                | °                 | °                   | °   | °  | ° |
|              | 1  | 30.174              | 52                             | 30.250            | 52                             | 63.8  | 39.5        |                                   |                          | 52               | 49.6             | 46               | 45               |       |   | NE                      | 5          | NW     | 5          |        |   | 2         | 1                                       |                                      |   |                                      |      |        |  |                |                  |                   | 3/4 clear fine      | 1   |  |   |
|              | 2  | 30.300              | 51                             | 30.270            | 55                             | 62  | 42          |                                   |                          | 53               | 50               | 51.5             | 49.5             |       |   | NW                      | 1          | calm   |            |        |   | 8         | 10                                      |                                      |   |                                      |      |        |  |                |                  | cloudy mild       | 2                   |   |  |   |
|              | 3  | 30.384              | 55                             | 30.354            | 56                             | 61.3  | 49          |                                   |                          | 54.5             | 50               | 49.5             | 46.5             |       |   | NW                      | 1          | NYW    | 5          |        |   | 8         |   |                                      |   |                                      |      |        |  |                |                  | 5/8 fine          | 3                   |   |  |   |
|              | 4  | 30.354              | 54                             | 30.342            | 55                             | 55.6  | 44          |                                   |                          | 53               | 50.2             | 50               | 48.5             |       | 010                                     | NNW                     | 5          | NW     | 5          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  | cloudy fine       | 4                   |   |  |   |
|              | 5  | 30.296              | 52                             | 30.224            | 53                             | 54  | 44          |                                   |                          | 50               | 49               | 50               | 48.5             |       | 050                                     | calm                    |            | calm   |            |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   | gull                | 5   |  |   |
|              | 6  | 30.120              | 53                             | 30.040            | 54                             | 54  | 48          |                                   |                          | 52               | 50.8             | 52               | 49.5             |       | 020                                     | W                       | 1          | NW     | 5          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  | gull & "Row"      | 6                   |   |  |   |
|              | 7  | 29.930              | 54                             | 29.896            | 52                             | 56.2  | 42          |                                   |                          | 54               | 51.3             | 42.2             | 41.6             |       | 280                                     | W                       | 1          | E      | 1          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  | gull & damp       | 7                   |   |  |   |
|              | 8  | 29.948              | 50                             | 29.908            | 47                             | 52.5  | 35.5        |                                   |                          | 43.2             | 40.2             | 39.5             | 36.2             |       |   | NE                      | 5          | NE     | 5          |        |   | 1         |   |                                      |   |                                      |      |        |  |                |                  | clear fine        | 8                   |   |  |   |
|              | 9  | 29.830              | 45                             | 29.740            | 46                             | 52.3  | 32          |                                   |                          | 44.3             | 41.2             | 39.5             | 36.5             |       |   | NE                      | 5          | E      | 5          |        |   | 2         | 1                                       |                                      |   |                                      |      |        |  |                |                  | 1/2 "             | 9                   |   |  |   |
|              | 10   | 29.660              | 45                             | 29.718            | 45                             | 50  | 33.5        |                                   |                          | 43.5             | 40               | 37               | 35               |       | 035                                     | NE                      | 1          | NE     | 5          |        |   | 8         |   |                                      |   |                                      |      |        |  |                |                  |                   | 1/4 " Sleet showers | 10  |  |   |
|              | 11   | 29.672              | 43                             | 29.680            | 44                             | 48.5  | 32.5        |                                   |                          | 39.5             | 36.2             | 34               | 32               |       |   | NW                      | 1          | NYW    | 5          |        |   | 8         |   |                                      |   |                                      |      |        |  |                |                  |                   | 1/2 " fine          | 11  |  |   |
|              | 12   | 29.608              | 41                             | 29.724            | 43                             | 50.3  | 39          |                                   |                          | 38               | 32.2             | 39               | 36               |       |   | NW                      | 5          | NW     | 5          |        |   | 1         |   |                                      |   |                                      |      |        |  |                |                  |                   | 1/2 " breezy chilly | 12  |  |   |
|              | 13   | 29.946              | 43                             | 29.980            | 46                             | 52.6  | 36.5        |                                   |                          | 46               | 42.6             | 43               | 39.5             |       | 045                                     | NNW                     | 1          | NW     | 1          |        |   | 5         | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   | 1/4 " dr fine       | 13  |  |   |
|              | 14   | 29.830              | 47                             | 30.040            | 44                             | 46.5  | 32.5        |                                   |                          | 45               | 40.5             | 32.5             | 30               |       |   | NW                      | 1.5        | NYW    | 5          |        |   | 8         |   |                                      |   |                                      |      |        |  |                |                  |                   | 1/3 " blowy chilly  | 14  |  |   |
|              | 15   | 30.170              | 42                             | 30.280            | 45                             | 54  | 30.2        |                                   |                          | 42               | 37.5             | 34.5             | 32.6             |       |   | NNE                     | 5          | calm   |            |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   | gull                | 15  |  |   |
|              | 16   | 30.330              | 43                             | 30.450            | 50                             | 55  | 35          |                                   |                          | 45               | 44               | 47               | 47               |       |   | calm                    |            | calm   |            |        |   | 8         | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/2 "                                       | 16   |   |
|              | 17   | 30.540              | 50                             | 30.490            | 51                             | 53.8  | 42.5        |                                   |                          | 50               | 49               | 49.5             | 45.5             |       | 015                                     | calm                    |            | NW     | 1          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   | gull & fine         | 17  |  |   |
|              | 18   | 30.410              | 51                             | 30.350            | 52                             | 53.5  | 47          |                                   |                          | 51.2             | 48.8             | 50               | 48               |       |   | WSW                     | 1          | NE     | 1          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   | cloudy bly chilly   | 18  |  |   |
|              | 19   | 30.230              | 52                             | 30.110            | 52                             | 52.5  | 47.5        |                                   |                          | 51.5             | 47.5             | 48               | 47               |       | 070                                     | SW                      | 1.5        | W      | 1.5        |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | 19  |  |   |
|              | 20   | 30.250              | 50                             | 30.360            | 50                             | 52.5  | 41          |                                   |                          | 49.3             | 44               | 41.8             | 39               |       |   | NYW                     | 1.5        | NW     | 5          |        |   | 9         | 2                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/2 " changeable                            | 20   |   |
|              | 21   | 30.454              | 47                             | 30.452            | 48                             | 56.2  | 35          |                                   |                          | 44.6             | 41.5             | 36.5             | 35.5             |       |   | NYW                     | 5          | NYW    | 5          |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   |                     | 3/4 "                                       | 21   |   |
|              | 22   | 30.334              | 48                             | 30.220            | 51                             | 57.5  | 36.5        |                                   |                          | 50               | 45               | 48.5             | 46               |       | 080                                     | WSW                     | 5          | W      | 5          |        |   | 8         | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/4 " fine                                  | 22   |   |
|              | 23   | 29.960              | 52                             | 29.916            | 49                             | 51.5  | 39.2        |                                   |                          | 51               | 50               | 39.2             | 37.3             |       | 130                                     | WSW                     | 1          | NW     | 5          |        |   | 10        | 1                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | cloudy & showers                            | 23   |   |
|              | 24   | 30.154              | 45                             | 30.480            | 41                             | 45  | 30          |                                   |                          | 39.5             | 35               | 32.4             | 30.3             |       |   | NYW                     | 5          | NYW    | 5          |        |   | 2         | 8                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | 3/4 fine cold                               | 24   |   |
|              | 25   | 30.556              | 42                             | 30.400            | 47                             | 48.5  | 32.5        |                                   |                          | 36               | 32.2             | 41               | 36.5             |       |   | NYW                     | 5          | W      | 5          |        |   | 3         | 8                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | cloudy chilly                               | 25   |   |
|              | 26   | 30.070              | 46                             | 29.784            | 48                             | 49.2  | 39          |                                   |                          | 46               | 42               | 48.5             | 47               |       | 300                                     | SSW                     | 2          | SW     | 1          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | gull  | 26   |   |
|              | 27   | 29.624              | 50                             | 29.474            | 51                             | 55.3  | 40          |                                   |                          | 52.8             | 51               | 51.2             | 49               |       | 010                                     | SW                      | 1          | WSW    | 1          |        |   | 10        | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | gull & stormy                               | 27   |   |
|              | 28   | 29.420              | 50                             | 29.380            | 51                             | 54.5  | 43          |                                   |                          | 50               | 46.2             | 46               | 42.5             |       | 096                                     | SW                      | 1.5        | SW     | 1          |        |   | 8         | 5                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/2 " damp                                  | 28   |   |
|              | 29   | 29.250              | 49                             | 29.250            | 48                             | 49.5  | 41.5        |                                   |                          | 43               | 41.2             | 44.5             | 41.2             |       | 185                                     | WSW                     | 1.5        | SW     | 1          |        |   | 8         | 5                                       |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/2 " showers                               | 29   |   |
|              | 30   | 29.084              | 48                             | 29.080            | 49                             | 51.3  | 41.5        |                                   |                          | 46               | 42               | 42.3             | 40.5             |       | 320                                     | SW                      | 5          | W      | 1.5        |        |   | 1         | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | 1/4 " blowy showers                         | 30   |   |
|              | 31   | 29.218              | 48                             | 29.272            | 46                             | 50.3  | 38          |                                   |                          | 44               | 40               | 44.5             | 42               |       | 710                                     | calm                    |            | SSW    | 5          |        |   |           | 10                                      |                                      |   |                                      |      |        |  |                |                  |                   |                     | gull  | 31   |   |
|              | Sums.  | 11147               | 10                             | 11165             | 13                             | 1310  | 154         |                                   |                          | 114              | 106              | 157              | 178              |       | 6                                       |                         | 8          |        | 9          |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   |                     |   | NOTATION USED IN GENERAL REMARKS.              |   |
|              | Means.                                       | 30.003              | 1483                           | 30.000            | 491                            | 53.3  | 38.9        |                                   |                          | 47.0             | 44.0             | 43.6             | 41.3             |       |   | 0.81                    | 0.66       |        |            |        |   | 6.3       | 5.8                                     |                                      |   |                                      |      |        |  |                |                  |                   |                     |   |  |   |
|              | † Total Corrections for Instrumental Errors. |                     |                                |                   |                                |   |             |                                   |                          |                  |                  |                  |                  |       |   |                         |            |        |            |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   |                     |   |  |   |
|              | † Corrections for Diurnal Range.             |                     |                                |                   |                                |   |             |                                   |                          |                  |                  |                  |                  |       |   |                         |            |        |            |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   |                     |   |  |   |
|              | "Corrected Means."                           |                     |                                |                   |                                |   |             |                                   |                          |                  |                  |                  |                  |       |   |                         |            |        |            |        |   |           |   |                                      |   |                                      |      |        |  |                |                  |                   |                     |   |  |   |
|              | No. of Column.                               | 1                   | 2                              | 3                 | 4                              | 5   | 6           | 7                                 | 8                        | 9                | 10               | 11               | 12               | 13    | 14                                      | 15                      | 16         | 17     | 18         | 19     | 20  | 21        | 22                                      | 23                                   | 24                                      | 25                                   | 26   | 27     | 28   | 29             | 30               |                   |                     |   |  |   |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.950  
 for Temp. (Col. 2), = 30.003 - 0.053  
 Corrected Mean of Barometer at 9 P.M., minus the Correction†† = 29.945  
 for Temp. (Col. 4), = 30.000 - 0.055  
 Mean at Station, corrected, and at 32°, = 29.947  
 Correction for height, 116 feet above Mean Sea-level, = .127  
 Mean, reduced to 32°, and Sea-level, = 30.074  
 Highest Reading, corrected for Index error, on the 25th, = 30.556  
 Lowest Do. Do., on the 30th, = 29.080  
 Difference, or Monthly Range, = 1.476

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18th, = 63.8  
 Lowest in Month, corrected for Index errors, on the 12th, = 29.0  
 Difference, or Monthly Range, = 34.8  
 "Corrected Mean" of all the Highest, (Col. 5), = 53.3  
 "Corrected Mean" of all the Lowest, (Col. 6), = 38.9  
 Difference, or Mean Daily Range, = 14.4  
 \*\* Calculated Mean Temperature of Month, = 46.1  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =  
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =  
 Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =  
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =  
 Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 45.3  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.2  
 # Computed Temperature of Dew-Point, = 39.87  
 # Do. Elastic Force of Vapour, = 24.5  
 # Do. Weight of Vapour in a Cubic Foot of Air, =  
 # Relative Humidity, (Saturation = 100), = 81  
 RAIN fell on 16 Days; Amount in Inches, = 2.36

| WIND.      |   |    |   |    |   |    |   |    |                   |             |                                 |
|------------|---|----|---|----|---|----|---|----|-------------------|-------------|---------------------------------|
| SUMMARY.   |   |    |   |    |   |    |   |    |                   |             |                                 |
| Direction. | N | NE | E | SE | S | SW | W | NW | Calm or Variable. | Mean Force. | Mean Velocity in miles per day. |
| A.M.       | 4 | 3  | 0 | 0  | 1 | 4  | 5 | 8  | 4                 | 10.81       |                                 |
| P.M.       | 0 | 3  | 2 | 0  | 1 | 3  | 5 | 13 | 4                 | 0.66        |                                 |
| Mean.      | 2 | 3  | 1 | 0  | 1 | 4  | 6 | 10 | 4                 | 0.24        | 0.55                            |

Observations made and Return verified by

James Kay

(Signed)

James Kay

J.F.

J.F.







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barrow-in-Warwick, County of Northampton, in Lat 54° 45' N, Long 5° 45' W, Distance from Sea 10 miles.

Height of Cistern of the Barometer above Mean Sea-level        feet, above Ground        feet.

During the MONTH of November 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY.                                 | Days of Month. | BAROMETER.                |   |                         |   | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |                   |                                   |                                | HYGROMETER.               |                           |                           |                           | RAIN.   |                         | WIND.      |        |            |        | CLOUDS.  |   |                                      |   | THERMOMETERS<br>under Ground.        |                     |                        |                         | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors,<br>Remarkable Depression or Elevation of Barometer,<br>Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning,<br>began and ended. |  | Days of Month.    |   |  |                |               |                         |
|--|----------------|---------------------------|---|-------------------------|---|---|-------------------|-----------------------------------|--------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|-------------------------|------------|--------|------------|--------|--|---|--------------------------------------|---|--------------------------------------|---------------------|------------------------|-------------------------|------|--------|--|--|-------------------|---|--|----------------|---------------|-------------------------|
|  |                | 9 h. A.M.                 |   | 9 h. P.M.               |   | Protected in<br>Shade, 4 feet above<br>Ground.          |                   | Exposed<br>Black Bolls.<br>Grass. |                                | 9 h. A.M.                 |                           | 9 h. P.M.                 |                           | No. of<br>hours<br>in<br>which<br>it<br>fell. | Amount<br>in<br>inches. | 9 h. A.M.  |        | 9 h. P.M.  |        | Readings of<br>the H. Cup<br>Anemometer.<br>No. _____<br>9 h. A.M. | 9 A.M.                                  |                                      | P.M.                                    |                                      | Sunshine.<br>Hours. | 9 h. A.M.              |                         |      |        |  |  |                   | Temperature of<br>WELL at depth of<br>feet. No. _____ | Temperature<br>at 1 fathom,<br>and Density,<br>_____ | 0-10.<br>_____ | 9 A.M. 9 P.M. |                         |
|  |                | Barometer.<br>* No. _____ | Attach-<br>ed Ther-<br>mometer<br>No. _____ | Barometer.<br>No. _____ | Attach-<br>ed Ther-<br>mometer<br>No. _____ | Max.<br>No. _____                                       | Min.<br>No. _____ | Max. in<br>Sun-rays<br>No. _____  | Min. on<br>Grass.<br>No. _____ | Dry<br>bulb.<br>No. _____ | Wet<br>bulb.<br>No. _____ | Dry<br>bulb.<br>No. _____ | Wet<br>bulb.<br>No. _____ |   |                         | Direction. | Force. | Direction. | Force. |  | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. | Velocity<br>(0-6),<br>and<br>Direction. | Amount<br>(0-10),<br>and<br>Species. |                     | No. _____<br>8 inches. | No. _____<br>12 inches. |      |        |  |  |                   |   |  |                |               | No. _____<br>22 inches. |
|  |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
|  |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
|  |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| 1  | 28.824         | 47                        | 28.764                                      | 47                      | 47.5  | 42.5  |                   |                                   | 44.6                           | 43                        | 45.5                      | 43.3                      | 24.0                      | SE  | 2                       | SE         | 5      |            | 10     | 5  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | Dull stormy & wet | 1   |  |                |               |                         |
| 2  | 28.880         | 47                        | 28.740                                      | 48                      | 48  | 42  |                   |                                   | 42.5                           | 42                        | 45                        | 44.5                      | 61.0                      | SE  | 1                       | S          | 2      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | "                 | 2   |  |                |               |                         |
| 3  | 28.400         | 48                        | 28.526                                      | 46                      | 50.8  | 28.2  |                   |                                   | 45                             | 42                        | 38.3                      | 37                        | 0.08                      | S   | 1                       | S          | 1      |            | -      | 5  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | 1/2 clear fine    | 3   |  |                |               |                         |
| 4  | 28.796         | 45                        | 29.100                                      | 49                      | 51.2  | 25.5  |                   |                                   | 35.5                           | 34.5                      | 44.5                      | 43                        | -                         | N   | 5                       | N          | 1      |            | 1      | 2  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | 3/4 " showers     | 4   |  |                |               |                         |
| 5  | 29.220         | 48                        | 29.170                                      | 49                      | 52  | 42  |                   |                                   | 44                             | 42.5                      | 42.5                      | 42                        | 0.60                      | N   | 5                       | SE         | 5      |            | 7      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | Dull & wet        | 5   |  |                |               |                         |
| 6  | 29.280         | 47                        | 29.574                                      | 47                      | 46.5  | 42  |                   |                                   | 45.2                           | 43.5                      | 45.2                      | 44                        | 24.0                      | NE  | 1.5                     | NE         | 1.5    |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  | " & blowy         | 6   |  |                |               |                         |
| 7  | 29.800         | 47                        | 29.660                                      | 48                      | 49  | 44.5  |                   |                                   | 47.3                           | 43                        | 46.2                      | 43.2                      | 0.10                      | NE  | 2                       | NE         | 2      |            | 9      | 9  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 7              |               |                         |
| 8  | 30.060         | 48                        | 30.122                                      | 47                      | 49.2  | 44.5  |                   |                                   | 47.5                           | 46                        | 45.5                      | 44                        | 0.10                      | NE  | 5                       | NE         | 2      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 8              |               |                         |
| 9  | 30.120         | 46                        | 30.104                                      | 46                      | 48.2  | 42  |                   |                                   | 42.3                           | 38.5                      | 42.3                      | 38.6                      | -                         | NE  | 1                       | NE         | 1      |            | 10     | 3  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 9              |               |                         |
| 10   | 29.984         | 47                        | 30.044                                      | 45                      | 44  | 32  |                   |                                   | 41.5                           | 38                        | 42.5                      | 40                        | -                         | N   | 5                       | N          | 5      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 10             |               |                         |
| 11   | 30.070         | 45                        | 30.150                                      | 45                      | 45  | 39.3  |                   |                                   | 44                             | 41.5                      | 42.2                      | 40                        | -                         | NE  | 5                       | calm       | -      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 11             |               |                         |
| 12   | 30.150         | 46                        | 30.100                                      | 45                      | 44.5  | 39.5  |                   |                                   | 41.5                           | 38.5                      | 39.5                      | 38                        | 0.05                      | W   | 5                       | calm       | -      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 12             |               |                         |
| 13   | 30.010         | 45                        | 29.912                                      | 44                      | 40  | 37.5  |                   |                                   | 38.5                           | 38.3                      | 39                        | 36.2                      | -                         | NW  | 5                       | NE         | 5      |            | 9      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 13             |               |                         |
| 14   | 29.800         | 42                        | 30.230                                      | 40                      | 40.3  | 34.0  |                   |                                   | 36.0                           | 33.2                      | 35                        | 31.2                      | 0.10                      | NE  | 5                       | NE         | 5      |            | 8      | -  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 14             |               |                         |
| 15   | 30.220         | 38                        | 30.200                                      | 39                      | 43  | 27  |                   |                                   | 38.5                           | 36.3                      | 32.5                      | 30                        | 0.18                      | NW  | 5                       | calm       | -      |            | 1      | 5  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 15             |               |                         |
| 16   | 30.076         | 43                        | 30.016                                      | 45                      | 45  | 32  |                   |                                   | 41.0                           | 39.3                      | 43                        | 40                        | -                         | SW  | 1.5                     | SW         | 1.5    |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 16             |               |                         |
| 17   | 29.890         | 45                        | 29.670                                      | 46                      | 44.5  | 41  |                   |                                   | 41                             | 40                        | 42.2                      | 41.5                      | 1.35                      | S   | 2                       | SW         | 5      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 17             |               |                         |
| 18   | 29.260         | 46                        | 29.110                                      | 46                      | 43.5  | 38.5  |                   |                                   | 42.5                           | 41                        | 39                        | 38                        | 2.08                      | SE  | 1                       | calm       | -      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 18             |               |                         |
| 19   | 29.190         | 42                        | 29.430                                      | 43                      | 44  | 32  |                   |                                   | 35.3                           | 34.3                      | 32.5                      | 30.5                      | -                         | SE  | 5                       | calm       | -      |            | 1      | -  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 19             |               |                         |
| 20   | 29.520         | 41                        | 29.480                                      | 41                      | 41  | 30  |                   |                                   | 34                             | 33                        | 37.5                      | 36                        | 0.05                      | NW  | 5                       | calm       | -      |            | 7      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 20             |               |                         |
| 21   | 29.500         | 41                        | 29.636                                      | 44                      | 43  | 35  |                   |                                   | 37.3                           | 36.3                      | 40                        | 38.5                      | -                         | E   | 5                       | SE         | 1      |            | 1      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 21             |               |                         |
| 22   | 29.864         | 45                        | 30.120                                      | 45                      | 44  | 39.3  |                   |                                   | 42.5                           | 41                        | 40                        | 36                        | -                         | NE  | 1.5                     | E          | 1      |            | 10     | 8  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 22             |               |                         |
| 23   | 30.130         | 40                        | 30.000                                      | 40                      | 44  | 30  |                   |                                   | 31.5                           | 29                        | 36                        | 33                        | -                         | N   | 5                       | S          | 1.5    |            | -      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 23             |               |                         |
| 24   | 29.660         | 42                        | 29.460                                      | 45                      | 45.5  | 36  |                   |                                   | 41                             | 38                        | 43.5                      | 40.5                      | 2.35                      | S   | 1                       | SW         | 1      |            | 9      | 5  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 24             |               |                         |
| 25   | 29.420         | 44                        | 29.244                                      | 45                      | 45  | 38  |                   |                                   | 40                             | 38.2                      | 44                        | 43                        | 5.95                      | NW  | 5                       | S          | 1      |            | 2      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 25             |               |                         |
| 26   | 29.144         | 50                        | 29.224                                      | 50                      | 52  | 43.3  |                   |                                   | 51.5                           | 50                        | 47                        | 44.3                      | 1.95                      | SSW   | 2                       | SW         | 1      |            | 10     | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 26             |               |                         |
| 27   | 29.050         | 48                        | 29.490                                      | 47                      | 48.0  | 38  |                   |                                   | 42                             | 40                        | 40                        | 38                        | 5.30                      | SW  | 2                       | WSW        | 1      |            | 10     | 9  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 27             |               |                         |
| 28   | 29.640         | 45                        | 29.650                                      | 45                      | 47.5  | 36  |                   |                                   | 39                             | 37.2                      | 39.5                      | 37                        | 0.05                      | SW  | 5                       | SW         | 5      |            | 8      | 3  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 28             |               |                         |
| 29   | 29.560         | 43                        | 29.573                                      | 43                      | 42  | 32.5  |                   |                                   | 37                             | 36                        | 37                        | 35.5                      | 0.90                      | calm  | -                       | N          | 5      |            | 8      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 29             |               |                         |
| 30   | 29.644         | 43                        | 29.750                                      | 40                      | 48.5  | 32.2  |                   |                                   | 40.5                           | 38.5                      | 48                        | 47.3                      | 0.00                      | SW  | 5                       | SW         | 1      |            | 8      | 10   |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  | 30             |               |                         |
| 31   | 29             |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               | 31                      |
| Sums.  | 1314.3         | 14                        | 1114  | 15                      | 136   | 13.5  |                   |                                   | 12.9                           | 14.5                      | 14.6                      | 12.5                      | 22.0                      | 2.8   | 4.9                     | 4.1        | 22.75  |            | 27.5   | 25.5   |   | 219                                  | 234                                     |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| Means.                                       | 29.573         | 44.7                      | 29.612                                      | 45.2                    | 46.3  | 37.3  |                   |                                   | 42.3                           | 38.8                      | 41.2                      | 39.1                      | 40.7                      |   |                         |            |        | 0.92       |        | 0.85   |   | 7.3                                  | 7.8                                     |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| † Total Corrections for Instrumental Errors. |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| † Corrections for Diurnal Range.             |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| "Corrected Means."                           |                |                           |   |                         |   |   |                   |                                   |                                |                           |                           |                           |                           |   |                         |            |        |            |        |  |   |                                      |   |                                      |                     |                        |                         |      |        |  |  |                   |   |  |                |               |                         |
| No. of Column.                               | 1              | 2                         | 3   | 4                       | 5   | 6   | 7                 | 8                                 | 9                              | 10                        | 11                        | 12                        | 13                        | 14  | 15                      | 16         | 17     | 18         | 19     | 20   | 21                                      | 22                                   | 23                                      | 24                                   | 25                  | 26                     | 27                      | 28   | 29     | 30   |  |                   |   |  |                |               |                         |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.530  
 for Temp. (Col. 2), = 29.573 - 0.043 = 29.530  
 Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.568  
 for Temp. (Col. 4), = 29.612 - 0.044 = 29.568  
 Mean at Station, corrected, and at 32°, = 29.549  
 Correction for height, 116 feet above Mean Sea-level, = 1.27  
 Mean, reduced to 32°, and Sea-level, = 29.676  
 Highest Reading, corrected for Index error, on the 15th, = 30.220  
 Lowest Do. Do., on the 3rd, = 28.400  
 Difference, or Monthly Range, = 1.820

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 5th, 42.6 = 52.0  
 Lowest in Month, corrected for Index errors, on the 15th, = 27.0  
 Difference, or Monthly Range, = 25.0  
 "Corrected Mean" of all the Highest, (Col. 5), = 46.3  
 "Corrected Mean" of all the Lowest, (Col. 6), = 37.3  
 Difference, or Mean Daily Range, = 9.0  
 \*\* Calculated Mean Temperature of Month, = 41.8  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the       th, =         
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =         
 Lowest at Night, Black Bulb, (corrected for Index errors), on the       th, =         
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =         
 Difference of above Means or Range ("exposed"), =       

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 41.0  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.0  
 # Computed Temperature of Dew-Point, = 36.5  
 # Do. Elastic Force of Vapour, = 2.15  
 # Do. Weight of Vapour in a Cubic Foot of Air, =         
 # Relative Humidity, (Saturation = 100), = 84  
 RAIN fell on 20 Days; Amount in Inches, = 3.27

| WIND.      |  | SUMMARY. |    |   |    |   |
|------------|--|----------|----|---|----|---|
| Direction. |  | N        | NE | E | SE | S |
| A.M.       |  | 3        | 7  | 2 | 2  | 5 |
| P.M.       |  | 2        | 6  | 2 | 1  | 5 |
| Mean.      |  | 3        | 6  | 2 | 1  | 5 |

Calm or Variable. Mean Force. Mean Velocity in miles per day.

0 0.5 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30'

0.92 0.85 0.89 = 0.79 lbs.

Observations made and Return verified by

James May

(Signed)

James May

J.F.

7A.







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Marone Cottage, County of But, in Lat. 55° 49' 50", Long. 5° 45', Distance from Sea 10 miles.  
Height of Cistern of the Barometer above Mean Sea-level 116 feet, above Ground 3 feet. During the MONTH of December 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. |                       |            |                       | SELF-REGISTERING THERMOMETERS.<br>Read Daily, at 9 P.M. |          |                      |          | HYGROMETER. |           |           |           | RAIN.                          |         | WIND.      |        |                                 |                               | CLOUDS.                         |                               |               |                | THERMOMETERS under Ground. |     |     | SEA. | OZONE. | GENERAL REMARKS.<br><br>As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.<br><br>Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. |                            |                          |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|              |                | 9 h. A.M.  |                       | 9 h. P.M.  |                       | Protected in Shade, 4 feet above Ground.                |          | Exposed Black Bulbs. |          | 9 h. A.M.   |           | 9 h. P.M. |           | 9 h. A.M.                      |         | 9 h. P.M.  |        | 9 A.M.                          |                               | P.M.                            |                               | 9 h. A.M.     |                |                            |     |     |      |        |   |                |                            |                          |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |                | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. No.  | Min. No. | Max. No.             | Min. No. | Dry bulb.   | Wet bulb. | Dry bulb. | Wet bulb. | Direction.                     | Force.  | Direction. | Force. | Velocity (0-10), and Direction. | Amount (0-10), and Direction. | Velocity (0-10), and Direction. | Amount (0-10), and Direction. | No. 3 inches. | No. 12 inches. | No. 22 inches.             |     |     |      |        |   |                |                            |                          |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |                | * No.      | inches.               | °          | inches.               | °   | °        | °                    | °        | °           | °         | °         | °         | No. of hours in which it fell. | inches. | No.        | No.    | No.                             | No.                           | No.                             | No.                           | No.           | No.            | No.                        | No. | No. |      |        |   |                | Temperature and Dew Point. | Temperature and Density. | 9 A.M. | 9 P.M. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |                | inches.    | °                     | inches.    | °                     | °   | °        | °                    | °        | °           | °         | °         |           |                                |         |            |        |                                 |                               |                                 |                               |               |                |                            |     |     |      |        |   |                |                            |                          |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\frac{1}{2}$  for Temp. (Col. 2), = 29.600  
Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\frac{1}{2}$  for Temp. (Col. 4), = 29.606  
Mean at Station, corrected, and at 32°, = 29.603  
Correction for height, 116 feet above Mean Sea-level, = .127  
Mean, reduced to 32°, and Sea-level, = 29.730  
Highest Reading, corrected for Index error, on the 3 th, = 30.220  
Lowest Do. Do., on the 8 th, = 28.800  
Difference, or Monthly Range, = 1.420

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 th, = 51.5  
Lowest in Month, corrected for Index errors, on the 22 th, = 22.5  
Difference, or Monthly Range, = 29.0  
"Corrected Mean" of all the Highest, (Col. 5), = 43.1  
"Corrected Mean" of all the Lowest, (Col. 6), = 32.2  
Difference, or Mean Daily Range, = 10.9  
\*\* Calculated Mean Temperature of Month, = 37.6

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =   
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =   
Lowest at Night, Black Bulb, (corrected for Index errors), on the th, =   
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =   
Difference of above Means or Range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 36.5  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 35.2  
Computed Temperature of Dew-Point, = 33.4  
Do. Elastic Force of Vapour, = .191  
Do. Weight of Vapour in a Cubic Foot of Air, =   
Relative Humidity, (Saturation = 100), = 89  
RAIN fell on 20 Days; Amount in Inches, = .402

| WIND.      |  | SUMMARY. |    |   |    |   |    |    |    |
|------------|--|----------|----|---|----|---|----|----|----|
| Direction. |  | N        | NE | E | SE | S | SW | W  | NW |
| A.M.       |  | 3        | 5  | 0 | 0  | 2 | 7  | 5  | 6  |
| P.M.       |  | 2        | 0  | 0 | 2  | 1 | 4  | 10 | 8  |
| Mean.      |  | 2        | 3  | 0 | 1  | 2 | 5  | 8  | 7  |

Observations made and Return verified by

James May

(Signed)

James May

M.A. J.P.



