

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Edinburgh*, County of *Edinburgh*, in Lat. _____, Long. _____, Distance from Sea _____ miles.

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

During the MONTH of *January* 188*7*.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M. | | | | HYGROMETER. | | | | Rain. | WIND. | | | | CLOUDS. | | | | SUNSHINE. H.ours. | THERMOMETERS under Ground. | | | SEA. | OZONE. | GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended. | Days of Month. | |
|--|----------------|---------------------|---------------------------|-------------------|---------------------------|---|-------------|---|-------------------|--------------|--------------|--------------|--------------|-------|---|-------------------------|------------------|-------|------------------|-------|--|--|----------------------|--|------------------|-------------------|------|--------|--|----------------|-------------------|
| | | 9 h. A.M. | | 9 h. P.M. | | Protected in Shade, 4 feet above Ground. | | Exposed Black Bulbs. Sun-rays on Grass. | | 9 h. A.M. | | 9 h. P.M. | | | 9 h. A.M. | | 9 h. P.M. | | 9 h. A.M. | | P.M. | | | 9 h. A.M. | | | | | | | |
| | | Barometer. * No. | Attached Ther- mometer | Barometer. No. | Attached Ther- mometer | Max. No. | Min. No. | Max. in Sun-rays | Min. on Grass. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | Dirrec- tion. | Force | Dirrec- tion. | Force | Amounts of the H. Cup Anemometer. No. | Velocity (0-10), and Species. | | Velocity (0-10), and Species. | No. 8 inches. | No. 12 inches. | | | | | No. 22 inches. |
| | | inches. | ° | inches. | ° | ° | ° | ° | ° | ° | ° | ° | ° | | ° | No. | | | | | | | | | | | | | | | |
| | 1 | | | | | 36.7 | 34 | | | 36 | 34.8 | 2 | 2 | 0 | 58 | 1- | SE | -5 | | | SE | light | 0 | 0 | 34 | 36 | 38.3 | | | 1 | |
| | 2 | | | | | 40.3 | 29.5 | | | 34.7 | 34.7 | 38 | 34.5 | 0.9 | 6 | 0 | W | 1- | | | W | W | 0 | 0 | 34 | 35.8 | 38.2 | | | 2 | |
| | 3 | | | | | 39.7 | 34 | | | 39 | 38.4 | 39.5 | 39 | 0 | W | 5 | NE | -5 | | | W | W | 0 | 0 | 35 | 36 | 34.5 | | | 3 | |
| | 4 | | | | | 41.4 | 35 | | | 38 | 34.5 | 2 | 2 | 2.6 | W | 1- | W | -5 | | | W | W | 0 | 0 | 36.5 | 34 | 38.5 | | | 4 | |
| | 5 | | | | | 38.4 | 24.5 | | | 2 | 2 | 5 | 2 | 0 | W | 1- | W | -5 | | | W | W | 0 | 0 | 33.2 | 36.5 | 38.5 | | | 5 | |
| | 6 | | | | | 36.8 | 24 | | | 2 | 2 | 2 | 2 | 0 | W | 0 | NE | 0 | | | W | W | 0 | 0 | 33 | 36 | 38.5 | | | 6 | |
| | 7 | | | | | 33.4 | 24.4 | | | 2 | 2 | 2 | 2 | 0 | W | 5 | W | -5 | | | W | W | 0 | 0 | 33 | 35 | 38 | | | 7 | |
| | 8 | | | | | 36.6 | 24 | | | 2 | 2 | 2 | 2 | 0 | SE | 5 | SE | -5 | | | 0 | 0 | 0 | 0 | 32.5 | 35 | 38 | | | 8 | |
| | 9 | | | | | 35.3 | 28 | | | 2 | 2 | 38 | 34.4 | 0 | W | 0 | W | -5 | | | W | W | 0 | 0 | 33 | 35 | 34.4 | | | 9 | |
| | 10 | | | | | 34.9 | 26.8 | | | 34.5 | 32.3 | 40 | 38 | 0 | SE | 5 | W | -5 | | | W | W | 0 | 0 | 32.8 | 35 | 34.5 | | | 10 | |
| | 11 | | | | | 43.3 | 33 | | | 43.3 | 40.3 | 45 | 44.1 | 0 | W | 2- | W | 2- | | | W | W | 0 | 0 | 33 | 36 | 34.5 | | | 11 | |
| | 12 | | | | | 44.5 | 41 | | | 46.3 | 45.3 | 44 | 45.4 | 0 | SE | 1.5 | W | 1- | | | W | W | 0 | 0 | 33.3 | 33.4 | 34.5 | | | 12 | |
| | 13 | | | | | 44.4 | 41.9 | | | 43.4 | 41 | 43.7 | 35.2 | 0 | W | 1- | W | -5 | | | 0 | 0 | 0 | 0 | 35 | 36 | 38 | | | 13 | |
| | 14 | | | | | 48.2 | 34.5 | | | 36.8 | 32.3 | 2 | 2 | 0 | W | 15 | W | 1- | | | W | W | 0 | 0 | 35 | 36.5 | 38 | | | 14 | |
| | 15 | | | | | 34.2 | 34.5 | | | 34.7 | 33.5 | 40 | 34 | 0 | W | 5 | W | -5 | | | W | W | 0 | 0 | 33.5 | 36.4 | 34.9 | | | 15 | |
| | 16 | | | | | 41 | 33.2 | | | 38.6 | 34.5 | 2 | 2 | 0 | W | 0 | W | 1- | | | W | W | 0 | 0 | 34 | 36.6 | 34.7 | | | 16 | |
| | 17 | | | | | 36.7 | 28 | | | 2 | 2 | 2 | 2 | 0 | W | 5 | W | -5 | | | 0 | 0 | 0 | 0 | 34.6 | 35.5 | 34.4 | | | 17 | |
| | 18 | | | | | 32.5 | 31.5 | | | 2 | 2 | 2 | 2 | 0 | SW | 6 | SW | 1- | | | W | W | 0 | 0 | 33 | 35 | 34 | | | 18 | |
| | 19 | | | | | 34.5 | 34 | | | 34.3 | 32.8 | 34.5 | 33.8 | 0 | W | 2- | W | -5 | | | 0 | 0 | 0 | 0 | 33.5 | 35.3 | 34.5 | | | 19 | |
| | 20 | | | | | 42.8 | 33 | | | 43.1 | 41 | 2 | 2 | 0.3 | W | 1- | W | 1.5 | | | W | W | 0 | 0 | 33.5 | 35 | 34.5 | | | 20 | |
| | 21 | | | | | 43.8 | 24.4 | | | 2 | 2 | 34 | 34 | 40 | W | 15 | W | 1- | | | 0 | 0 | 0 | 0 | 33.5 | 35 | 34.6 | | | 21 | |
| | 22 | | | | | 34.8 | 24 | | | 2 | 2 | 2 | 2 | 0 | W | 5 | W | 1.5 | | | 0 | 0 | 0 | 0 | 33.4 | 34 | 34 | | | 22 | |
| | 23 | | | | | 46.1 | 25 | | | 46.3 | 44 | 42.5 | 40.3 | 0.5 | W | 2- | W | 1- | | | 0 | 0 | 0 | 0 | 33.5 | 35 | 34.3 | | | 23 | |
| | 24 | | | | | 48 | 35.7 | | | 40 | 39.2 | 40.1 | 36.1 | 0.8 | W | 5 | W | 1- | | | 0 | 0 | 0 | 0 | 36 | 35.5 | 34.2 | | | 24 | |
| | 25 | | | | | 45.1 | 33 | | | 40 | 36.5 | 34.5 | 36.2 | 0 | W | 5 | W | -5 | | | 0 | 0 | 0 | 0 | 34 | 35.8 | 34.5 | | | 25 | |
| | 26 | | | | | 45 | 34.4 | | | 44.8 | 42 | 34.7 | 35.2 | 0.3 | W | 5 | W | 5 | | | W | W | 0 | 0 | 34.5 | 34 | 34.5 | | | 26 | |
| | 27 | | | | | 49.3 | 40.5 | | | 41.3 | 39.2 | 43.5 | 40.3 | 0.3 | W | 15 | W | 1- | | | 0 | 0 | 0 | 0 | 39.9 | 39 | 38.3 | | | 27 | |
| | 28 | | | | | 46.8 | 40.3 | | | 44 | 44.5 | 46 | 43 | 0 | W | 5 | W | -5 | | | W | W | 0 | 0 | 32.5 | 39 | 39 | | | 28 | |
| | 29 | | | | | 50.5 | 40.5 | | | 43 | 41.4 | 41.5 | 39.6 | 0 | W | 5 | W | -5 | | | W | W | 0 | 0 | 37 | 40 | 39.6 | | | 29 | |
| | 30 | | | | | 44.6 | 40.3 | | | 41.4 | 40 | 40.5 | 39.4 | 0 | W | 1- | W | -5 | | | W | W | 0 | 0 | 34 | 40 | 40 | | | 30 | |
| | 31 | | | | | 46.8 | 38 | | | 42.4 | 34.5 | 40.2 | 34.5 | 0.4 | W | 5 | W | 5 | | | W | W | 0 | 0 | 38.5 | 37.5 | 40 | | | 31 | |
| Sums. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + 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 | |

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. | so. ha. | solar halo. |
| h. d. | heavy dew. | sq. | squall. |
| hl. | hail. | sq.s. | squalls. |
| l. | lightning. | t. | thunder. |
| li. cl. | light clouds. | t. s. | thunderstorm. |
| 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 Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common 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 $\frac{1}{1000}$ for Temp. (Col. 2), = _____"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = _____

Mean at Station, corrected, and at 32°, = _____

Correction for height, feet above Mean Sea-level, = _____

Mean, reduced to 32°, and Sea-level, = _____

Highest Reading, corrected for Index error, on the _____ th, = _____

Lowest Do. Do., on the _____ th, = _____

Difference, or Monthly Range, = _____

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the _____ th, = _____

Lowest in Month, corrected for Index errors, on the _____ th, = _____

Difference, or Monthly Range, = _____

"Corrected Mean" of all the Highest, (Col. 5), = _____

"Corrected Mean" of all the Lowest, (Col. 6), = _____

Difference, or Mean Daily Range, = _____

** Calculated Mean Temperature of Month, = _____

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), = _____

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = _____

Computed Temperature of Dew-Point, = _____

Do. Elastic Force of Vapour, = _____

Do. Weight of Vapour in a Cubic Foot of Air, = _____

Relative Humidity (Saturation = 100), = _____

RAIN fell on _____ Days; Amount in Inches, = _____

| WIND. | | SUMMARY. | | | |
|------------|--|----------|-----|-----|-----|
| Direction. | | N | NE | E | SE |
| A.M. | | 1 | 1 | 2 | 3 |
| P.M. | | 2 | 2 | 1 | 2 |
| Mean. | | 1.5 | 1.5 | 1.5 | 2.5 |

(Signed)

Robert Grosvenor

Observations made and
Return verified by

SCOTTISH METEOROLOGICAL SOCIETY.

Height of Cistern of the Barometer above Mean Sea-Level_____feet, above Ground_____feet.

During the MONTH of February 1896.

The Hours of Observation are of Greenwich Time.

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{11}$ }
for Temp. (Col. 2), = }

"Corrected Mean" of Barometer at 9 P.M., *minus* the Correction $\frac{1}{11}$ {
for Temp. (Col. 4), =

Mean at Station, corrected, and at 32°,.....

Correction for height, feet above Mean Sea-level,.....

Mean, reduced to 32°, and Sea-level,

Highest Reading, corrected for Index error, on the _____th,.....

Lowest Do. Do., on the th,.....

Difference, or **Monthly Range**,

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th,..... =

Lowest in Month, corrected for index errors, on the th, =

Lowest in Month, corrected for index errors, on the _____th, = _____

Difference, or **Monthly Range**, 11

"Corrected **Mean**" of all the Highest, (Col. 5), =

"Corrected Mean" of all the Lowest, (Col. 6),..... =

Difference, or **Mean Daily Range**, =

** Calculated Mean Temperature of Month,

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, 1961

"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), =

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols.

Computed Temperature of Dew-Point, =

¶ Do. **Elastic Force of Vapour,** =

Do. Weight of Vapour in a Cubic Foot of Air,

```
## Relative Humidity (Saturation = 100), ..... =
```

IN fell on Days; Amount in Inches, =

WIND. **SUMMARY.**

[illegible]

(Signed)

Robert Grosvenor.

| No. | Name of vessel | Date | Observations made and | | Remarks |
|-----|----------------|------|-----------------------|--|---------|
| | | | Return verified by | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | | | | | |
| 43 | | | | | |
| 44 | | | | | |
| 45 | | | | | |
| 46 | | | | | |
| 47 | | | | | |
| 48 | | | | | |
| 49 | | | | | |
| 50 | | | | | |
| 51 | | | | | |
| 52 | | | | | |
| 53 | | | | | |
| 54 | | | | | |
| 55 | | | | | |
| 56 | | | | | |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | | | | | |
| 61 | | | | | |
| 62 | | | | | |
| 63 | | | | | |
| 64 | | | | | |
| 65 | | | | | |
| 66 | | | | | |
| 67 | | | | | |
| 68 | | | | | |
| 69 | | | | | |
| 70 | | | | | |
| 71 | | | | | |
| 72 | | | | | |
| 73 | | | | | |
| 74 | | | | | |
| 75 | | | | | |
| 76 | | | | | |
| 77 | | | | | |
| 78 | | | | | |
| 79 | | | | | |
| 80 | | | | | |
| 81 | | | | | |
| 82 | | | | | |
| 83 | | | | | |
| 84 | | | | | |
| 85 | | | | | |
| 86 | | | | | |
| 87 | | | | | |
| 88 | | | | | |
| 89 | | | | | |
| 90 | | | | | |
| 91 | | | | | |
| 92 | | | | | |
| 93 | | | | | |
| 94 | | | | | |
| 95 | | | | | |
| 96 | | | | | |
| 97 | | | | | |
| 98 | | | | | |
| 99 | | | | | |
| 100 | | | | | |

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Oban and Easdale, County of Argyllshire, in Lat. _____, Long. _____, Distance from Sea _____ miles.

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

During the MONTH of March 1887.

The Hours of Observation are of Greenwich Time.

| ELECTRICITY. | Days of Month. | BAROMETER. | | | | SELF-REGISTERING THERMOMETERS. 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. | | | 9 h. A.M. | | 9 h. P.M. | | 9 h. A.M. | | 9 h. P.M. | | 9 h. A.M. | | 9 h. P.M. | | | | | | | |
| | | Barometer. | Attached Thermometer. | Barometer. | Attached Thermometer. | Max. | Min. | Max. | Min. | Dry bulb. | Wet bulb. | Dry bulb. | Wet bulb. | | No. of hours in which it fell. | Amount in inches. | Direction. | Force. | Direction. | Force. | Velocity (0-10). | Amount (0-10). | Velocity (0-10). | Amount (0-10). | No. | No. | | | | | No. | No. |
| | | * No. | | No. | | No. | No. | No. | No. | | | | | | | | | | | | | | | | | | | | | | | |
| | | inches. | | inches. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | | | | |
| | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | 13 | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | | | |
| | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | 17 | | | | |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | |
| | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | 19 | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | | | | |
| | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | 21 | | | | |
| | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | | | |
| | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | 23 | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | | | |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | 25 | | | | |
| | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | 26 | | | | |
| | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | 27 | | | | |
| | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | 28 | | | | |
| | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | 29 | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | |
| | Sums. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Means. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + 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 | |

NOTATION USED IN GENERAL REMARKS.

| | | | |
|--------|-----------------|--------|-----------------------|
| a. | denotes aurora. | m. | denotes meteor. |
| cl. | cirrus. | ms. | meteors. |
| ci-cu. | cirrus-cumulus. | al. | albus. |
| ci-s. | cirrus-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. | so.ha. | solar halo. |
| h.d. | heavy dew. | sq. | squall. |
| h.l. | hail. | sq. | 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 Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common Designation. | Estimated Force, 0-6. | Common 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 $\frac{1}{100}$ for Temp. (Col. 2), = _____"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = _____

Mean at Station, corrected, and at 32', = _____

Correction for height, feet above Mean Sea-level, = _____

Mean, reduced to 32', and Sea-level, = _____

Highest Reading, corrected for Index error, on the _____ th, = _____

Lowest Do. Do., on the _____ th, = _____

Difference, or Monthly Range, = _____

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the _____ th, = _____

Lowest in Month, corrected for Index errors, on the _____ th, = _____

Difference, or Monthly Range, = _____

"Corrected Mean" of all the Highest, (Col. 5), = _____

"Corrected Mean" of all the Lowest, (Col. 6), = _____

Difference, or Mean Daily Range, = _____

** Calculated Mean Temperature of Month, = _____

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), = _____

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = _____

Computed Temperature of Dew-Point, = _____

Do. Elastic Force of Vapour, = _____

Do. Weight of Vapour in a Cubic Foot of Air, = _____

Relative Humidity (Saturation = 100), = _____

RAIN fell on _____ Days; Amount in Inches, = _____

| WIND. | SUMMARY. | | | | | | | | | | | |
|-------|------------|---|----|---|----|---|----|---|----|--------------------|-------------|---------------------------------|
| | Direction. | N | NE | E | SE | S | SW | W | NW | Calms or Variable. | Mean Force. | Mean Velocity in miles per day. |
| A.M. | | | | | | | | | | | | |
| P.M. | | | | | | | | | | | | |
| Mean. | | | | | | | | | | | | |

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.
+ Enabling corrections for both capillarity and Index Errors.
+ The Diurnal Range for Scotland is as yet unknown.
+ Practically, though not absolutely a minus correction.
+ These "Expositional Corrections" 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) Robert Grosvenor

SCOTTISH METEOROLOGICAL SOCIETY.

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

During the MONTH of April 1889

The Hours of Observation are of Greenwich Time.

BAROMETER, "corrected Mean" at 9 A.M., *minus* the Correction $\frac{1}{11}$ } =
for Temp. (Col. 2), =

"Corrected Mean" of Barometer at 9 P.M., *minus* the Correction †† {
for Temp. (Col. 4), =

Mean at Station, corrected, and at 32°,..... =

Correction for height, feet above Mean Sea-level,..... =

Mean, reduced to 32°, and Sea-level, 252

Highest Reading, corrected for Index error, on the th,.....

Lowest Do. Do., on the th,..... =

Difference, or Monthly Range,

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th,..... =

Lowest in Month, corrected for Index errors, on the th, =

Lowest in Month, corrected for Index errors, on the th, =

Difference, or **Monthly Range**, 51

"Corrected Mean" of all the Highest, (Col. 5),

"Corrected Mean" of all the Lowest. (Col. 6).....

DISCOUNT FROM Daily Business

Difference, or Mean Daily Range, 25

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 ranges ("exposed")

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11),

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols.

†† Computed **Temperature of Dew-Point**, =

Do. Elastic Force of Vapour,

Do. Weight of Vapour in a Cubic Foot of Air,

** Relative Humidity (Saturation = 100), =

N fell on Days: Amount in Inches

RAIN fell on Days; Amount in Inches, _____

[illegible]

(Signed)

Observations made and
Return verified by

