

# METEOROLOGICAL OBSERVATIONS.

FROM THE 16TH TO THE 31ST DEC., 1877, INCLUSIVE.

Recorded daily at Hobart Town, Tasmania, at 10h. 33m. p.m., simultaneously with registration made at 7h. 35m. a.m., at Washington, United States, in pursuance of a proposition of the late Vienna Congress, for a system of International Synchronous Observations.

Private Observatory, Hobart Town.

Lat. 42° 52' 13" S.

Long. 9h. 49m. 29.2s. E.

(Registered for the Royal Society, Tasmania.)

| Day of Month. | Barometer corrected for Temp. Index Error and to Mean Sea Level. |             | Thermometers   |                                | Relative Humidity. | Wind.   |            | Cloud. |     | Rain in 24 hours.     | Weather. |
|---------------|--|-------------|----------------|--------------------------------|--------------------|---------|------------|--------|-----|-----------------------|----------|
|               | Fahrenheit.  | Centigrade. | Direction from | Force in lbs. per square foot. |                    | Amount. | Character. |        |     |                       |          |
| 16            | 29.565   | 53.0        | 15.0           | 72                             | NW                 | .52     | 9.5        | K      | .04 | Large conglomerate K  |          |
| 17            | 29.620   | 60.0        | 15.5           | 77                             | W                  | .52     | 10.0       | N      | .01 | Raining               |          |
| 18            | 29.445   | 53.0        | 15.0           | 77                             | NW                 | .52     | 7.5        | K      | .06 | Moon, cloud, and star |          |
| 19            | 29.760   | 60.0        | 15.5           | 77                             | NW                 | .52     | 9.0        | K      | .06 | Large K, and moon     |          |
| 20            | 30.080   | 54.0        | 12.0           | 78                             | SW                 | .52     | 0          | 0      | .0  | Moonlight             |          |
| 21            | 29.915   | 60.0        | 15.5           | 88                             | S                  | .26     | 10.0       | KN     | .0  | Cloudy, sky covered   |          |
| 22            | 29.425   | 66.0        | 19.0           | 83                             | NW                 | .26     | 9.0        | KN     | .0  | Cloud and rain        |          |
| 23            | 29.630   | 53.0        | 13.3           | 76                             | NW                 | .26     | 10.0       | N      | .95 | Do., sky covered      |          |
| 24            | 29.665   | 54.0        | 12.0           | 80                             | NW                 | .52     | 10.0       | KN     | .02 | Cloud, sky covered    |          |
| 25            | 29.835   | 56.5        | 13.5           | 76                             | SE                 | .26     | 4.5        | K      | .07 | Stars and cloud       |          |
| 26            | 29.945   | 60.5        | 16.0           | 82                             | N                  | .26     | 10.0       | KN     | .0  | Cloud, sky covered    |          |
| 27            | 30.010   | 62.0        | 16.5           | 82                             | SE                 | .26     | 10.0       | N      | .0  | Cloud, sky covered    |          |
| 28            | 30.120   | 60.5        | 16.0           | 88                             | SE                 | .26     | 4.0        | K      | .0  | Starlight             |          |
| 29            | 30.060   | 64.5        | 18.0           | 73                             | SE                 | .52     | 3.5        | K      | .0  | Starlight             |          |
| 30            | 29.860   | 66.0        | 19.0           | 73                             | NW                 | .26     | 3.0        | K      | .0  | Ditto, ditto          |          |
| 31            | 30.020   | 60.0        | 15.5           | 77                             | S                  | .52     | 10.0       | N      | .0  | Set rain              |          |

FRANCIS ABBOTT, F.R.A.S., etc., Observer.

N.B.—The time of registration at Hobart Town, 10h. 33m. p.m., being after dark, renders it impossible to make the wind and cloud records more than approximately correct. The rainfall is measured at 7h. 30m. a.m. local time.