**Royal Astronomical Observatory: 1834-1899**

Digitised from: Meteorological Diaries

Held at: South African Astronomical Observatory

**File contents (one file per year)**

1 Feb 1834 to 31 Aug 1858:

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Inside Thermometer: Air temperature (°F)
* Outside Thermometer: Air temperature (°F)
* Wet Bulb in Shade: Wet bulb temperature (°F)
* Wind Force: Text as written in the source (Beaufort Scale 0-12)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)
* Remarks: Text as written in the source

1 Sept 1858 to 14 Feb 1860:

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Standard Thermometer: Air temperature (°F)
* Dry Bulb Thermometer: Dry bulb temperature (°F)
* Wet Bulb Thermometer: Wet bulb temperature (°F)
* Wind Force: Text as written in the source (Beaufort Scale 0-12)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)
* Remarks: Text as written in the source

15 Feb 1860 to 31 Dec 1873

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Standard Thermometer: Air temperature (°F)
* Dry Bulb Thermometer: Dry bulb temperature (°F)
* Wet Bulb Thermometer: Wet bulb temperature (°F)
* Wind Force: Text as written in the source (Miles per hour)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

1 Jan 1874 to 31 Dec 1876:

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Minimum: Minimum temperature (°F)
* Maximum: Maximum temperature (°F)
* Standard Thermometer: Air temperature (°F)
* Dry Bulb Thermometer: Dry bulb temperature (°F)
* Wet Bulb Thermometer: Wet bulb temperature (°F)
* Wind Force: Text as written in the source (Beaufort Scale 0-12)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

1 Jan 1877 to 20 Feb 1878:

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Minimum: Minimum temperature (°F)
* Maximum: Maximum temperature (°F)
* Standard Thermometer: Air temperature (°F)
* Dry Bulb Thermometer: Dry bulb temperature (°F)
* Wet Bulb Thermometer: Wet bulb temperature (°F)
* Wind Force: Text as written in the source (Miles per hour)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

1 Jan 1879 to 31 Dec 1879

* Month: character
* Day: number
* Time: Only daily reading
* Barometer: Uncorrected pressure (English Inches)
* Minimum: Minimum temperature (°F), three locations: “Roof”, “the Crib”, “Grounds”
* Maximum: Maximum temperature (°F), three locations: “Roof”, “the Crib”, “Grounds”
* Dry Bulb Thermometer: Dry bulb temperature (°F), three locations: “Roof”, “the Crib”, “Grounds”
* Wet Bulb Thermometer: Wet bulb temperature (°F), three locations: “Roof”, “the Crib”, “Grounds”
* Wind Force: Text as written in the source (Miles per hour)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

1 Jan 1880 to 31 Aug 1880:

* Month: character
* Day: number
* Time: Only daily reading
* Barometer: Uncorrected pressure (English Inches)
* Minimum: Minimum temperature (°F)
* Maximum: Maximum temperature (°F)
* Dry Bulb Thermometer: Dry bulb temperature (°F)
* Wet Bulb Thermometer: Wet bulb temperature (°F)

Remarks: Text as written in the source

1 Jan 1881 to 31 Dec 1886

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Dry Bulb Thermometer: Dry bulb temperature (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Wet Bulb Thermometer: Wet bulb temperature (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Min/Max Temperature reading (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Wind Force: Text as written in the source (Miles per hour)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

1 Jan 1887 to 31 Dec 1899

* Month: character
* Day: number
* Time: Local Solar Time?
* Barometer: Uncorrected pressure (English Inches)
* Attached Thermometer: Temperature of Mercury (°F)
* Barometer: Pressure corrected to 32F (English Inches)
* Dry Bulb Thermometer: Dry bulb temperature (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Wet Bulb Thermometer: Wet bulb temperature (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Min/Max Temperature reading (°F), three locations: “Window Crib”, “Glaisher Stand”, “Stevenson Crib”
* Wind Force: Text as written in the source (Beaufort Scale)
* Wind Direction: Text as written in the source, ½ recorded as h (Roman 24 wind rose)

Remarks: Text as written in the source

The recording times vary throughout the 19th century as follows:

1834-1836: Sunrise, Noon, Sunset, Midnight

1837: Mixed throughout

1838-Aug 1858: 00h00, 03h20, 09h30, 20h40

Sept 1858-1870: 00h00, 05h00, 09h00, 17h00, 21h00

1871-1873: 03h00, 09h00, 15h00, 21h00

1874-1877: 00h00, 06h00, 12h00, 18h00

1878, 1879, 1880: daily reading

1881-1883: 01h22, 10h00, 18h00

1884-1889: 01h22, 20h00

1890-1899: 8am, Noon, 8pm