

# Metadata

|                                     |  |
|-------------------------------------|--|
| <b>Standardized Instrument Name</b> | METEOROLOGICAL STATIONS  |
| <b>Scheme URI</b>                   | <a href="http://vocab.nerc.ac.uk/collection/P19/current/PLSR0226/">http://vocab.nerc.ac.uk/collection/P19/current/PLSR0226/</a>  |
| <b>Term URI</b>                     | SDN:P19::PLSR0226  |
| <b>Instrument DOI</b>               |  |
| <b>Instrument Unique ID</b>         | 300534061454190  |
| <b>ID Type</b>                      | Serial Number  |
| <b>Model No.</b>                    | H22-E14, SOH118303   |
| <b>Instrument Type</b>              | Baseline   |
| <b>Description</b>                  | Made up of multiple components listed below. Serial number is Iridium Weather station IMEI Equipment cost: \$9,904.50 + Iridium satellite Premium Plan: \$1,350 Sensor details found in attachment - Instrument Details - HOBO MMF Weather Station 2   |
| <b>Manufacturer</b>                 | Hoskin Scientific Limited  |
| <b>Manufacturer type</b>            | Organizational   |
| <b>Notes</b>                        | HOBO brand field gear that includes various sensors attached to tripod outfitted with solar panel and battery located in housing box. This meteorological station is located in Dawson Bay and is owned by the Manitoba Metec Federation (MMF). Calibration certificates stored in Lab Collector. They can be provided upon request. |
| <b>Sensor Details</b>               |  |
| <b>Sensor Details 1</b>             |  |
| <b>Instrument Sensor Name</b>       | Temperature and Relative Humidity  |
| <b>Instrument Sensor Serial No.</b> | 21048242   |
| <b>Sensor Range</b>                 | Temperature: -40°C to 75°C (-40°F to 167°F); RH: 0-100% RH at -40° to 75°C (-40° to 167°F); exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%   |
| <b>Sensor Sensitivity</b>           | Temperature: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F); RH: ±2.5% from 10% to 90% RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical  |

**Sensor Units** °C and %

**Last Calibration Date**

### Sensor Details 2

**Instrument Sensor Name** Photosynthetically Active Radiation (PAR)

**Instrument Sensor Serial No.** 21040572

**Sensor Range** 0 to 2500  $\mu\text{mol}/\text{m}^2/\text{sec}$ , wavelengths 400 to 700 nm

**Sensor Sensitivity**  $\pm 5 \mu\text{mol}/\text{m}^2/\text{sec}$  or  $\pm 5\%$ , whichever is greater in sunlight; additional temperature induced error  $\pm 0.75 \mu\text{mol}/\text{m}^2/\text{sec}/^\circ\text{C}$  from  $25^\circ\text{C}$  ( $0.42 \mu\text{mol}/\text{m}^2/\text{sec}/^\circ\text{F}$  from  $77^\circ\text{F}$ )

**Sensor Units**  $\mu\text{mol}/\text{m}^2/\text{sec}$

**Last Calibration Date**

### Sensor Details 3

**Instrument Sensor Name** Barometric Pressure

**Instrument Sensor Serial No.** 20812844

**Sensor Range** Rated for  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$ , must be used inside logger case, w/ 10 cm cable

**Sensor Sensitivity**  $\pm 3.0 \text{ mbar}$  (0.088 in. Hg) over full pressure range at  $25^\circ\text{C}$  ( $77^\circ\text{F}$ ); maximum error of  $\pm 5.0 \text{ mbar}$  (0.148 in. Hg) over  $-40^\circ$  to  $70^\circ\text{C}$  ( $-40^\circ$  to  $158^\circ\text{F}$ )

**Sensor Units** mbar

**Last Calibration Date**

### Sensor Details 4

**Instrument Sensor Name** Wind sensor/monitor

**Instrument Sensor Serial No.** 21055170

**Sensor Range** S-WCB-M003: 0 to 50 m/s (0 to 112 mph)

**Sensor Sensitivity** 0.20 m/s (0.46 mph) and 1.4 degrees

**Sensor Units** m/s and degrees

**Last Calibration Date**

### Sensor Details 5

|                                     |  |
|-------------------------------------|--|
| <b>Instrument Sensor Name</b>       | Rain Gauge   |
| <b>Instrument Sensor Serial No.</b> | 21050258   |
| <b>Sensor Range</b>                 | 0 to 12.7 cm (0 to 5 in.) per hour, maximum 4000 tips per logging interval |
| <b>Sensor Sensitivity</b>           | 0.01 in. (S-RGA-M002) or 0.2 mm (S-RGB-M002)                               |
| <b>Sensor Units</b>                 | mm   |
| <b>Last Calibration Date</b>        |  |

## Related Datasets

|              |   |
|--------------|---|
| <b>Title</b> | Dawson Bay Li Taan Aen Staansyoon_54190   |
| <b>URL</b>   | <a href="https://canwin-datahub.ad.umanitoba.ca/data/fr/dataset/dawbay-metdata">https://canwin-datahub.ad.umanitoba.ca/data/fr/dataset/dawbay-metdata</a> |