

Metadata

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| Standardized Instrument Name | METEOROLOGICAL STATIONS |
| Scheme URI | http://vocab.nerc.ac.uk/collection/P19/current/PLSR0226/ |
| Term URI | SDN:P19::PLSR0226 |
| Instrument DOI | |
| Instrument Unique ID | 300534061454190 |
| ID Type | Serial Number |
| Model No. | H22-E14, SOH118303 |
| Instrument Type | Baseline |
| Description | 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 |
| Manufacturer | Hoskin Scientific Limited |
| Manufacturer type | Organizational |
| Notes | 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. |
| Sensor Details | |
| Sensor Details 1 | |
| Instrument Sensor Name | Temperature and Relative Humidity |
| Instrument Sensor Serial No. | 21048242 |
| Sensor Range | 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% |
| Sensor Sensitivity | 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°C ($0.42 \mu\text{mol}/\text{m}^2/\text{sec}/^\circ\text{F}$ from 77°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°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°C (77°F); maximum error of $\pm 5.0 \text{ mbar}$ (0.148 in. Hg) over -40° to 70°C (-40° to 158°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

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

Related Datasets

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|--------------|---|
| Title | Dawson Bay Li Taan Aen Staansyoon |
| URL | https://lwbin-dev.ad.umanitoba.ca/data/fr/dataset/mmf-2-data |