

Metadata

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)
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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

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

Title Dawson Bay Li Taan Aen Staansyoon_54190

URL <https://canwin-datahub.ad.umanitoba.ca/data/en/dataset/dawbay-metdata>