

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	30023406813390
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 1
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 St. Laurent and is owned by the Manitoba Métis Federation (MMF). Calibration certificates stored in Lab Collector. They can be provided upon request. Site is currently decommissioned due to sensor and battery failure. Archived data collected prior to decommissioning will be made available. When active again, link to dataset page of station will be placed here.

Sensor Details

Sensor Details 1

Instrument Sensor Name	Temperature and Relative Humidity
Instrument Sensor Serial No.	21048243
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.	21040570
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.	20812842
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.	21055171
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.	21050257
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	St Laurent Li Taan Aen Staansyoon_17060
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/stlaurent-metdata_17060
Title	St Laurent Li Taan Aen Staansyoon_13390
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/stlaurent-metdata