

# Metadata

<b>Standardized Instrument Name</b>	Sea-Bird SBE 19plus SEACAT CTD
<b>Scheme URI</b>	<a href="http://vocab.nerc.ac.uk/collection/L22/current/TOOL0047/">http://vocab.nerc.ac.uk/collection/L22/current/TOOL0047/</a>
<b>Term URI</b>	SDN:L22:TOOL0047
<b>Instrument DOI</b>	
<b>Instrument Unique ID</b>	19-7798
<b>ID Type</b>	Serial number
<b>Model No.</b>	SBE 19 plus V2
<b>Instrument Type</b>	Baseline
<b>Description</b>	SBE 19 plus V2 attached underneath the rosette water sampler (SBE 32). Sensors for conductivity, temperature, pressure. Attached sensors include SPAR, PAR, nitrate (SUNA), dissolved oxygen, and an ECO triplet.
<b>Manufacturer</b>	Seabird Electronics
<b>Manufacturer type</b>	Organizational
<b>Notes</b>	
<b>Sensor Details</b>	
<b>Sensor Details 1</b>	
<b>Instrument Sensor Name</b>	Temperature
<b>Instrument Sensor Serial No.</b>	7798
<b>Sensor Range</b>	-5 to +35
<b>Sensor Sensitivity</b>	0.0001
<b>Sensor Units</b>	°C
<b>Last Calibration Date</b>	2020-07-07

## Sensor Details 2

<b>Instrument Sensor Name</b>	Pressure
<b>Instrument Sensor Serial No.</b>	7798
<b>Sensor Range</b>	0 to 350
<b>Sensor Sensitivity</b>	0.002% of full scale range
<b>Sensor Units</b>	decibars
<b>Last Calibration Date</b>	2020-07-07

## Sensor Details 3

<b>Instrument Sensor Name</b>	Conductivity
<b>Instrument Sensor Serial No.</b>	7798
<b>Sensor Range</b>	0 to 9
<b>Sensor Sensitivity</b>	0.00005 (most oceanic water resolves 0.4 ppm in salinity). 0.00007 (high salinity water resolves 0.4 ppm in salinity). 0.00001 (fresh water resolves 0.1 ppm in salinity).
<b>Sensor Units</b>	S/m
<b>Last Calibration Date</b>	2020-07-07

## Sensor Details 4

<b>Instrument Sensor Name</b>	ECO triplet (fluorescence)
<b>Instrument Sensor Serial No.</b>	4660
<b>Sensor Range</b>	
<b>Sensor Sensitivity</b>	
<b>Sensor Units</b>	
<b>Last Calibration Date</b>	2020-06-26

## Sensor Details 5

<b>Instrument Sensor Name</b>	SBE 43 (dissolved oxygen)
<b>Instrument Sensor Serial No.</b>	3513

**Sensor Range** 120% of surface saturation in all natural waters (fresh and salt)

**Sensor Sensitivity** ± 2% of saturation (initial)

**Sensor Units** % sat or mg/L

**Last Calibration Date** 2020-06-26

#### Sensor Details 6

**Instrument Sensor Name** PAR

**Instrument Sensor Serial No.** 70648

**Sensor Range** ~400-700 nm

**Sensor Sensitivity**

**Sensor Units** μE m<sup>-2</sup> sec<sup>-1</sup>

**Last Calibration Date** 2020-12-16

#### Sensor Details 7

**Instrument Sensor Name** SPAR (Surface PAR)

**Instrument Sensor Serial No.** 20557

**Sensor Range** ~400-700 nm

**Sensor Sensitivity**

**Sensor Units** μE m<sup>-2</sup> sec<sup>-1</sup>

**Last Calibration Date** 2020-08-24

#### Sensor Details 8

**Instrument Sensor Name** SUNA (nitrate sensor)

**Instrument Sensor Serial No.** 1009

**Sensor Range**

**Sensor Sensitivity** 0.3 μM (0.004 mgN/L)

**Sensor Units** μM or mgN/L

Last Calibration  
Date

## Related Datasets

**Title** Southampton Island Marine Ecosystem Project (SIMEP) Rosette CTD Data 2019

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/en/dataset/rosette-ctd>

## Campaigns

**Title** James Bay 2021

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/james-bay-2021>