

Metadata

| | |
|-------------------------------------|---|
| Standardized Instrument Name | Sea-Bird SBE 19plus SEACAT CTD |
| Scheme URI | http://vocab.nerc.ac.uk/collection/L22/current/TOOL0047/ |
| Term URI | SDN:L22:TOOL0047 |
| Instrument DOI | |
| Instrument Unique ID | 19-7798 |
| ID Type | Serial number |
| Model No. | SBE 19 plus V2 |
| Instrument Type | Baseline |
| Description | 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. |
| Manufacturer | Seabird Electronics |
| Manufacturer type | Organizational |
| Notes | |
| Sensor Details | |
| Sensor Details 1 | |
| Instrument Sensor Name | Temperature |
| Instrument Sensor Serial No. | 7798 |
| Sensor Range | -5 to +35 |
| Sensor Sensitivity | 0.0001 |
| Sensor Units | °C |
| Last Calibration Date | 2020-07-07 |

Sensor Details 2

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

Sensor Details 3

| | |
|-------------------------------------|--|
| Instrument Sensor Name | Conductivity |
| Instrument Sensor Serial No. | 7798 |
| Sensor Range | 0 to 9 |
| Sensor Sensitivity | 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). |
| Sensor Units | S/m |
| Last Calibration Date | 2020-07-07 |

Sensor Details 4

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

Sensor Details 5

| | |
|-------------------------------------|---------------------------|
| Instrument Sensor Name | SBE 43 (dissolved oxygen) |
| Instrument Sensor Serial No. | 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 $\mu\text{E m}^{-2} \text{ sec}^{-1}$

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 $\mu\text{E m}^{-2} \text{ sec}^{-1}$

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/dataset/rosette-ctd>

Campaigns

Title James Bay 2021

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