

# Metadata

|   |   |
|---|---|
| <b>Dataset Name</b>                     | Carbon Sampling Data  |
| <b>Dataset General Type</b>             | carbon data   |
| <b>Dataset Type</b>                     | Dataset   |
| <b>Dataset Level</b>                    | 0.1   |
| <b>Program Website</b>                  |   |
| <b>Keyword Vocabulary</b>               | Polar Data Catalogue  |
| <b>Keyword Vocabulary URL</b>           | <a href="https://www.polardata.ca/pdcinput/public/keywordlibrary">https://www.polardata.ca/pdcinput/public/keywordlibrary</a>                 |
| <b>Theme</b>                            |   |
| <b>Title</b>                            | Atmosphere  |
| <b>URL</b>                              | <a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/modelling">https://canwin-datahub.ad.umanitoba.ca/data/en/group/modelling</a>   |
| <b>Title</b>                            | Freshwater  |
| <b>URL</b>                              | <a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/freshwater">https://canwin-datahub.ad.umanitoba.ca/data/en/group/freshwater</a> |
| <b>Title</b>                            | Marine  |
| <b>URL</b>                              | <a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/marine">https://canwin-datahub.ad.umanitoba.ca/data/en/group/marine</a>         |
| <b>Dataset Status</b>                   | Complete  |
| <b>Maintenance and Update Frequency</b> | Not planned   |
| <b>Dataset Last Revision Date</b>       | 2018-08-01  |
| <b>Dataset DOI</b>                      | 10.34992/gsq2-rj50  |

**Metadata  
Creation  
Date**

2022

**Publisher**

CanWIN

**Dataset  
Authors****Dataset  
Authors 1****Name** Papakyriakou, Tim**Type of Name** Personal**Email** [tim.papakyriakou@umanitoba.ca](mailto:tim.papakyriakou@umanitoba.ca)**Affiliation** Centre for Earth Observation Science - University of Manitoba**ORCID ID** 0000-0002-2019-9104

ORCID

<http://orcid.org/>**Dataset  
Authors 2****Name** Capelle, David**Type of Name** Personal**Email** [David.capelle@umanitoba.ca](mailto:David.capelle@umanitoba.ca)**Affiliation** Centre for Earth Observation Science - University of Manitoba**ORCID ID****Contributors****Contributors 1****Name****Role****Email****Affiliation****ORCID ID**

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|--|--|
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| <b>Project Data Curator email</b>            | <a href="mailto:David.capelle@umanitoba.ca">David.capelle@umanitoba.ca</a> |
| <b>Project Data Curator Affiliation</b>      | Centre for Earth Observation Science - University of Manitoba              |
| <b>Dataset Collection Start Date</b>         | 2017-02-15   |
| <b>Dataset Collection End Date</b>           | 2018-07-12   |
| <b>Sample Collection</b>                     |  |
| <b>Sample Collection 1</b>                   |  |
| <b>Sampling Instrument Name</b>              | pCO2 Measuring System  |
| <b>Standardized Sampling Instrument Name</b> |  |
| <b>Sample Collection Method Name</b>         | pCO2 system protocol   |
| <b>Comment</b>                               |  |
| <b>Method Link</b>                           |  |
| <b>Method Summary</b>                        |  |
| <b>Method Description Type</b>               |  |
| <b>Sample Collection 2</b>                   |  |
| <b>Sampling Instrument Name</b>              | FDOM sensor  |

**Standardized  
Sampling  
Instrument  
Name**

Probe/Sensor

**Sample  
Collection  
Method Name**

FDOM sensor protocol

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**

**Sample  
Collection 3**

**Sampling  
Instrument  
Name**

Thermal-salinograph

**Standardized  
Sampling  
Instrument  
Name**

**Sample  
Collection  
Method Name**

TSG (Thermal-salinograph system) protocol

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**

**Sample  
Collection 4**

**Sampling  
Instrument  
Name**

Pressure of In-situ Gases Instrument

**Standardized  
Sampling  
Instrument  
Name**

**Sample  
Collection  
Method Name**

PIGI (Pressure of In-situ Gases Instrument) system protocol

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**

**Sample  
Collection 5**

**Sampling  
Instrument  
Name**                      Radiation sensor

**Standardized  
Sampling  
Instrument  
Name**                      Probe/Sensor

**Sample  
Collection  
Method Name**              Radiation sensor system protocol

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**

**Sample  
Collection 6**

**Sampling  
Instrument  
Name**                      Rosette

**Standardized  
Sampling  
Instrument  
Name**                      discrete water samplers

**Sample  
Collection  
Method Name**              Ship Rosette protocol

**Comment**

**Method Link**

**Method  
Summary**

**Method  
Description  
Type**

**Sample  
Collection 7**

**Sampling Instrument Name** Niskin bottle

**Standardized Sampling Instrument Name** Niskin Bottle

**Sample Collection Method Name** Surface Water Sampling (ship bow, zodiac, skippy boat)

**Comment**

**Method Link**

**Method Summary**

**Method Description Type**

### **Sample Collection 8**

**Sampling Instrument Name** BOD glass bottles

**Standardized Sampling Instrument Name** WATER BOTTLES

**Sample Collection Method Name** Helicopter Sampling

**Comment**

**Method Link**

**Method Summary**

**Method Description Type**

### **Sample Collection 9**

**Sampling Instrument Name** Ice corers

**Standardized Sampling Instrument Name** Ice Auger

**Sample Collection Method Name** Ice and Under-ice Water protocol

Comment

Method Link

Method  
Summary

Method  
Description  
Type

**Activity  
Collection  
Type**

Field Measurement/Observation - Portable Data Logger

**Preferred  
citation**

**Analytical  
Instrument**

**Analytical  
Instrument 1**

**Analytical  
Instrument  
Name**

Guildline AUTOSAL machine

**Standardized  
Analytical  
Instrument  
Name**

**Analytical  
Instrument  
Identifier Id**

**Analytical  
Instrument  
Title Type**

Alternative Title

**Analytical  
Instrument  
Identifier Type**

**Analytical  
Method**

**License  
Name**

Creative Commons Attribution 4.0 International

**Licence  
Type**

Open

**Embargo  
Date**

**Licence URL**

<https://spdx.org/licenses>

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## Awards

## Related Resources

### Related Resources 1

Related Resource Name

Resource Code

Identifier Type

Relationship To This Dataset

Resource Type Online Resource

Type

Series Name

## Publications

### Publications 1

Publication Name

Identifier Code

Identifier Type

Relationship to this dataset

Resource Type Online Resource

Publication Type

## Spatial regions

hudson-bay



|  |
|--|
| <b>Spatial extent West Bound Longitude</b> |
| <b>Spatial extent East Bound Longitude</b> |
| <b>Spatial extent South Bound Latitude</b> |
| <b>Spatial extent North Bound Latitude</b> |

## Data and Resources

|                          |   |
|--------------------------|---|
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/f509cd70-9e74-46f4-a9c8-7a46eb224761/resource/cf6976e5-da7a-4076-90b4-c39bd33fb4fc/download/baysys_carbon_sampling_2017_2018.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/f509cd70-9e74-46f4-a9c8-7a46eb224761/resource/cf6976e5-da7a-4076-90b4-c39bd33fb4fc/download/baysys_carbon_sampling_2017_2018.csv</a>                 |
| <b>Name</b>              | Carbon sampling data -BaySys  |
| <b>Description</b>       | Data describing the principal components of the carbon system across the Hudson Bay.  |
| <b>Format</b>            | CSV   |
| <b>Resource Category</b> | data  |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/f509cd70-9e74-46f4-a9c8-7a46eb224761/resource/af30d1f2-7b18-46b8-9753-886af8edb4e9/download/carbon-smapling-supplemental-information.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/f509cd70-9e74-46f4-a9c8-7a46eb224761/resource/af30d1f2-7b18-46b8-9753-886af8edb4e9/download/carbon-smapling-supplemental-information.pdf</a> |
| <b>Name</b>              | Supplemental Metadata   |
| <b>Description</b>       | Supplemental Information for the Carbon sampling dataset. Information includes detailed description of sampling methods, the data file variables, data processing and instrumentation used.   |
| <b>Format</b>            | PDF   |
| <b>Resource Category</b> | supplemental  |

# Related Publications

**Title** BaySys Project Reports - Phase 1 and Phase 2

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/en/publication/baysys-reports-1-2>

# Instrument details

**Title** General Oceanics 8050 pCO2 system

**URL** [https://canwin-datahub.ad.umanitoba.ca/data/en/instrument\\_details/general-oceanics-8050-pco2-system](https://canwin-datahub.ad.umanitoba.ca/data/en/instrument_details/general-oceanics-8050-pco2-system)

# Campaigns

**Title** 2018 Spring Hudson Bay Wide CCGS Amundsen Campaign

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/2018-spring-hudson-bay-wide-ccgs-amundsen-campaign>