

# Metadata

| Field                                   | Value   |
|---|---|
| <b>Dataset Name</b>                     | SERF2012: Thin Sea Ice C-band Polarimetric and Physical Time Series   |
| <b>Dataset General Type</b>             | Radar data  |
| <b>Dataset Type</b>                     | Dataset   |
| <b>Dataset Level</b>                    | 1.1   |
| <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>                            | Cryosphere  |
| <b>URL</b>                              | <a href="https://canwin-datahub.ad.umanitoba.ca/data/group/cryosphere">https://canwin-datahub.ad.umanitoba.ca/data/group/cryosphere</a> |
| <b>Dataset Status</b>                   | Complete  |
| <b>Maintenance and Update Frequency</b> | As needed   |
| <b>Dataset Last Revision Date</b>       | 2026-04-28  |
| <b>Dataset DOI</b>                      |   |

| Field                         | Value  |
|-------------------------------|--|
| <b>Metadata Creation Date</b> | 2026   |
| <b>Publisher</b>              | CanWIN   |
| <b>Dataset Authors</b>        |  |
| <b>Dataset Authors 1</b>      |  |
| <b>Name</b>                   | Dadjoo, Mehran   |
| <b>Type of Name</b>           | Personal   |
| <b>Email</b>                  | <a href="mailto:dadjoom@myumanitoba.ca">dadjoom@myumanitoba.ca</a>               |
| <b>Affiliation</b>            | Centre for Earth Observation Science - University of Manitoba                    |
| <b>ORCID ID</b>               |  |
| <b>Dataset Authors 2</b>      |  |
| <b>Name</b>                   | Isleifson, Dustin  |
| <b>Type of Name</b>           | Personal   |
| <b>Email</b>                  | <a href="mailto:Dustin.Isleifson@umanitoba.ca">Dustin.Isleifson@umanitoba.ca</a> |
| <b>Affiliation</b>            | Centre for Earth Observation Science - University of Manitoba                    |

| Field                                   | Value  |
|---|--|
| <b>ORCID ID</b>                         |  |
| <b>Contributors</b>                     |  |
| <b>Contributors 1</b>                   |  |
| <b>Name</b>                             |  |
| <b>Role</b>                             |  |
| <b>Email</b>                            |  |
| <b>Affiliation</b>                      | Centre for Earth Observation Science - University of Manitoba                    |
| <b>ORCID ID</b>                         |  |
| <b>Project Data Curator</b>             | Isleifson, Dustin  |
| <b>Project Data Curator email</b>       | <a href="mailto:Dustin.Isleifson@umanitoba.ca">Dustin.Isleifson@umanitoba.ca</a> |
| <b>Project Data Curator Affiliation</b> | Centre for Earth Observation Science - University of Manitoba                    |
| <b>Dataset Collection Start Date</b>    | 2012-02-10   |
| <b>Dataset Collection End Date</b>      | 2012-02-12   |
| <b>Sample Collection</b>                |  |
| <b>Sample Collection 1</b>              |  |

| Field  | Value             |
|--|-------------------|
| <b>Sampling Instrument Name</b>                |                   |
| <b>Standardized Sampling Instrument Name</b>   |                   |
| <b>Sample Collection Method Name</b>           |                   |
| <b>Comment</b>                                 |                   |
| <b>Method Link</b>                             |                   |
| <b>Method Summary</b>                          |                   |
| <b>Method Description Type</b>                 | Methods           |
| <b>Activity Collection Type</b>                | Field Measurement |
| <b>Preferred citation</b>                      |                   |
| <b>Analytical Instrument</b>                   |                   |
| <b>Analytical Instrument 1</b>                 |                   |
| <b>Analytical Instrument Name</b>              | ProSensing        |
| <b>Standardized Analytical Instrument Name</b> |                   |
| <b>Analytical Instrument Identifier Id</b>     |                   |
| <b>Analytical Instrument Title Type</b>        | Alternative Title |
| <b>Analytical Instrument Identifier Type</b>   |                   |
| <b>Analytical Method</b>                       |                   |
| <b>Analytical Method 1</b>                     |                   |
| <b>Analytical Method Name</b>                  |                   |

| Field                                      | Value   |
|--|---|
| <b>Method Link</b>                         |   |
| <b>Method Summary</b>                      |   |
| <b>Laboratory</b>                          |   |
| <b>Comments</b>                            |   |
| <b>Variables Measured</b>                  | C-band backscattering NRCS values in VV, HH, HV polarizations   |
| <b>Licence Name or Copyright Statement</b> | Creative Commons Attribution 4.0 International  |
| <b>Copyright Statement</b>                 |   |
| <b>Licence Type</b>                        | Open  |
| <b>Embargo Date</b>                        |   |
| <b>Licence URL</b>                         | <a href="https://spdx.org/licenses">https://spdx.org/licenses</a>   |
| <b>Terms of Access</b>                     | <p>CanWIN datasets are licensed individually, however most are licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) Public License. Details for the licence applied can be found using the Licence URL link provided with each dataset. By using data and information provided on this site you accept the terms and conditions of the License. Unless otherwise specified, the license grants the rights to the public to use and share the data and results derived therefrom as long as the proper acknowledgment is given to the data licensor (citation), that any alteration to the data is clearly indicated, and that a link to the original data and the license is made available.</p> |
| <b>Terms of Use</b>                        | <p>By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).</p>  |

| Field                                      | Value   |
|--|---|
| <b>Awards</b>                              |   |
| <b>Related Resources</b>                   |   |
| <b>Related Resources 1</b>                 |   |
| <b>Related Resource Name</b>               | A Study on the C-Band Polarimetric Scattering and Physical Characteristics of Frost Flowers on Experimental Sea Ice |
| <b>Resource Code</b>                       | 10.1109/TGRS.2013.2255060   |
| <b>Identifier Type</b>                     | DOI   |
| <b>Relationship To This Dataset</b>        |   |
| <b>Resource Type</b>                       | DOI, Relationship to Dataset: Is Published In, Type: Journal Article  |
| <b>Type</b>                                |   |
| <b>Series Name</b>                         |   |
| <b>Publications</b>                        |   |
| <b>Spatial regions</b>                     |   |
| <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

| Field                    | Value   |
|--------------------------|---|
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/038e72a9-363f-4b2b-b71c-1482bed7a877/resource/4df106b7-de53-4e11-b04f-723c7077227b/download/data_2012_serf_cband_25deg_tair_cfdm_thickness.xlsx">https://canwin-datahub.ad.umanitoba.ca/data/dataset/038e72a9-363f-4b2b-b71c-1482bed7a877/resource/4df106b7-de53-4e11-b04f-723c7077227b/download/data_2012_serf_cband_25deg_tair_cfdm_thickness.xlsx</a> |
| <b>Name</b>              | Serf 2012 Cband Data  |
| <b>Description</b>       |   |
| <b>Format</b>            | XLSX  |
| <b>Resource Category</b> | data  |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/038e72a9-363f-4b2b-b71c-1482bed7a877/resource/93573c03-73ff-49f6-ad20-dd164a99a6a4/download/data-dictionary-serf2012-c-band.xlsx">https://canwin-datahub.ad.umanitoba.ca/data/dataset/038e72a9-363f-4b2b-b71c-1482bed7a877/resource/93573c03-73ff-49f6-ad20-dd164a99a6a4/download/data-dictionary-serf2012-c-band.xlsx</a>                               |
| <b>Name</b>              | Detailed Data Dictionary  |
| <b>Description</b>       | Descriptions of all variables measured.   |
| <b>Format</b>            | XLSX  |
| <b>Resource Category</b> | data  |