Metadata

Dataset Name	SERF2017: Thin Sea Ice Multivariate Physical & Radar Time Series
Dataset General Type	sea ice time series
Dataset Type	Dataset
Dataset Level	1.1
Program Website	
Keyword Vocabulary	
Keyword Vocabulary URL	
Theme	
Title	Cryosphere
URL	https://canwin-datahub.ad.umanitoba.ca/data/fr/group/cryosphere
Title	Remote Sensing
URL	https://canwin-datahub.ad.umanitoba.ca/data/fr/group/remote-sensing
Dataset Status	Complete
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2025-08-10
Dataset DOI	10.34992/01GA-DT35
Metadata Creation Date	2025

Publisher

CanWIN

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Dataset Collection Start Date	2017-01-12
Dataset Collection End Date	2017-01-14
Sample Collection	
Sample Collection 1	
Sampling Instrument Name	
Standardized Sampling Instrument Name	
Sample Collection Method Name	
Comment	
Method Link	
Method Summary	
Method Description Type	Methods
Activity Collection Type	
Preferred citation	
Analytical Instrument	

Analytical Instrument 1

Analytical Instrument Name	
Standardized Analytical Instrument Name	
Analytical Instrument Identifier Id	
Analytical Instrument Title Type	Alternative Title
Analytical Instrument Identifier Type	

Analytical Method

Analytical Method 1

Analytical Method Name	
Method Link	
Method Summary	
Laboratory	
Comments	
Variables Measured	C-band NRCS values (dB), C-band NRCS values in HH polarization (dB), C-band NRCS values in HV polarization (dB), air temperature (°C), surface temperature (°C), Cumulative Freezing Degree Moments (CFDM), humidity (%), wind speed (m/s), surface cover salinity (PSU), ice surface salinity (PSU), bulk ice salinity (PSU), frost flower height (cm), ice thickness (cm)

License Name

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Licence Type

Open

Embargo Date

Licence URL

https://spdx.org/licenses

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Awards

Awards 1

Award Title

Website

Funder Name

Funder Identifier Code

Funder Identifier Type

Funder Identifier Scheme

Grant Number

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	Dadjoo, M., & Isleifson, D. (2025, July). Thin Sea Ice Thickness Prediction Using C-band Polarimetric Radar and Physical Observations Via Multivariate Random Forest Algorithm. In 2025 IEEE 20th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM) (pp. 74-77). IEEE.
Identifier Code	
Identifier Type	
Relationship to this dataset	
Resource Type	Online Resource
Publication Type	ConferenceProceeding

Spatial regions	
Spatial extent West Bound Longitude	
Spatial extent East Bound Longitude	
Spatial extent South Bound Latitude	
Spatial extent North Bound Latitude	

Data and Resources

URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/3c39d0b7-7ebe-450f-8c16-2350ef2ac394/resource/952c74af-356a-4e95-83ee-3e99766818f9/download/data_serf2017_multivariate-sea-ice-time-series.xlsx
Name	Data_SERF2017_Multivariate Sea Ice Time Series.xlsx
Description	
Format	XLSX
Resource Category	data