

Metadata

Field	Value
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/en/group/cryosphere
Title	Remote Sensing
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/remote-sensing
Dataset Status	Complete
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2025-08-10

Field	Value
Dataset DOI	10.34992/01GA-DT35
Metadata Creation Date	2025
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	
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Type of Name	Personal
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Type of Name	Personal

Field	Value
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Contributors	
Contributors 1	
Name	
Role	
Email	
Affiliation	
ORCID ID	
Project Data Curator	Dadjoo, Mehran
Project Data Curator email	dadjoom@myumanitoba.ca
Project Data Curator Affiliation	Centre for Earth Observation Science - University of Manitoba

Field	Value
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

Field	Value
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)
Licence Name or Copyright Statement	Creative Commons Attribution 4.0 International
Copyright Statement	
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses

Field	Value
Terms of Access	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.
Terms of Use	By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).
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	

Field	Value
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	

Field	Value
Spatial extent North Bound Latitude	

Data and Resources

Field	Value
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