

Metadata

Field	Value
Dataset Name	Churchill snow geophysical data - December 2021
Dataset General Type	snow data
Dataset Type	Dataset
Dataset Level	0
Program Website	
Keyword Vocabulary	Polar Data Catalogue
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary
Theme	
Title	Cryosphere
URL	https://canwin-datahub.ad.umanitoba.ca/data/group/cryosphere
Title	Snow
URL	https://canwin-datahub.ad.umanitoba.ca/data/group/snow
Dataset Status	Planned
Maintenance and Update Frequency	Not planned

Field	Value
Dataset Last Revision Date	2023-08-08
Dataset DOI	10.34992/6v44-h203
Metadata Creation Date	2026
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	
Name	Stroeve, Julienne
Type of Name	Personal
Email	julienne.stroeve@umanitoba.ca
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	
Contributors	
Contributors 1	
Name	Saha, Monojit

Field	Value
Role	DataCollector
Email	
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	
Contributors 2	
Name	Nandan, Vishnu
Role	DataCollector
Email	
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	
Contributors 3	
Name	Willatt, Rosemary
Role	DataCollector
Email	

Field	Value
Affiliation	
ORCID ID	
Contributors 4	
Name	Mallett, Robbie
Role	DataCollector
Email	
Affiliation	
ORCID ID	
Contributors 5	
Name	Newman, Thomas
Role	DataCollector
Email	
Affiliation	
ORCID ID	
Contributors 6	

Field	Value
Name	Jensen, David
Role	DataCollector
Email	
Affiliation	Centre for Earth Observation Science - University of Manitoba
ORCID ID	
Contributors 7	
Name	Yackel, John
Role	DataCollector
Email	
Affiliation	University of Calgary
ORCID ID	
Project Data Curator	Stroeve, Julienne
Project Data Curator email	julienne.stroeve@umanitoba.ca

Field	Value
Project Data Curator Affiliation	Centre for Earth Observation Science - University of Manitoba
Dataset Collection Start Date	2021-12-02
Dataset Collection End Date	2023-08-12
Sample Collection	
Sample Collection 1	
Sampling Instrument Name	Conductivity Meter
Standardized Sampling Instrument Name	
Sample Collection Method Name	Snow salinity measurements
Comment	
Method Link	
Method Summary	A conductivity meter was used to measure the snow salinity from different snow layers collected from snow pits.
Method Description Type	Methods
Sample Collection 2	
Sampling Instrument Name	Temperature Probe
Standardized Sampling Instrument Name	

Field	Value
Sample Collection Method Name	Snow temperature profile measurements
Comment	
Method Link	
Method Summary	A temperature probe was used to measure the changing snow temperature profile across different depths of the snow pit
Method Description Type	Methods
Sample Collection 3	
Sampling Instrument Name	Snow Density Cutter
Standardized Sampling Instrument Name	
Sample Collection Method Name	Snow density measurement
Comment	
Method Link	
Method Summary	A snow density cutter was used to take snow samples across different layers of the snow pit. The snow density was later calculated after weighing the snow layers and using the approximate density of the cutter.
Method Description Type	Methods
Activity Collection Type	Field Measurement
Preferred citation	

Field	Value
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	
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
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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	Canada 150 Research Chair
Website	https://www.canada150.chairs-chaieres.gc.ca/chairholders-titulaires/index-eng.aspx#stroeve
Funder Name	
Funder Identifier Code	
Funder Identifier Type	
Funder Identifier Scheme	
Grant Number	
Related Resources	
Related Resources 1	
Related Resource Name	

Field	Value
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	churchill
Spatial extent West Bound Longitude	
Spatial extent East Bound Longitude	
Spatial extent South Bound Latitude	
Spatial extent North Bound Latitude	

Data and Resources

Field	Value
URL	https://CanWINerddap.ad.umanitoba.ca/erddap/tabledap/snow_pit_range_data_5276time%2CDepth_from_snow_ice_interface_start%2CDepth_from_snow_ice_interface_end
Name	Snow geophysical properties - depth ranges
Description	These geophysical properties were measured from depth ranges , where zero (0) is
Format	CSV
Resource Category	data
URL	https://CanWINerddap.ad.umanitoba.ca/erddap/tabledap/snow_pit_point_data_7bac1time%2CDepth_from_snow_ice_interface%2CDepth_from_snow_ice_interface_result_v
Name	Snow geophysical properties - single depths
Description	These geophysical properties were measured from specific depths , where SSI
Format	CSV
Resource Category	data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/873d0464-6c92-4bb6-bd10-7c
Name	Log file
Description	Log containing additional information and comments for each station measurement.

Field	Value
Format	CSV
Resource Category	supplemental