

Metadata

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	
Dataset Status	Planned
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2023-08-08
Dataset DOI	10.34992/6v44-h203
Metadata Creation Date	2023
Publisher	CanWIN
Dataset Authors	
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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	
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	
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	
License Name	Creative Commons Attribution 4.0 International
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses
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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	
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

URL	https://CanWINerddap.ad.umanitoba.ca/erddap/tabledap/snow_pit_range_data_5276_e582_9692.csvp?time%2CDepth_from_snow_ice_interface_start%2CDepth_from_snow_ice_interface_end%2CMass_of_snow%2CMass_of_snow_result_value_qualifier%2CBag_mass_to_subtract
Name	Snow geophysical properties - depth ranges
Description	These geophysical properties were measured from depth ranges , where zero (0) is the snow-sea ice interface (SSI) .
Format	CSV
Resource Category	data
URL	https://CanWINerddap.ad.umanitoba.ca/erddap/tabledap/snow_pit_point_data_7bac_1649_ed04.csvp?time%2CDepth_from_snow_ice_interface%2CDepth_from_snow_ice_interface_result_value_qualifier%2CMass_of_snow%2CMass_of_snow_result_value_qualifier%2CBag_mass
Name	Snow geophysical properties - single depths
Description	These geophysical properties were measured from specific depths , where SSI represents the snow-sea ice interface .
Format	CSV
Resource Category	data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/873d0464-6c92-4bb6-bd10-7cfa8e78b854/resource/40e98323-3364-41c5-878a-2fae1b91f990/download/snow_pit_log
Name	Log file
Description	Log containing additional information and comments for each station measurement.
Format	CSV
Resource Category	supplemental