

Metadata

Dataset Name	Churchill KuKa Data 2021
Dataset General Type	Radar Data
Dataset Type	Dataset
Dataset Level	1.0
Program Website	
Keyword Vocabulary	Polar Data Catalogue
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary
Theme	
Title	Remote Sensing
URL	https://canwin-datahub.ad.umanitoba.ca/data/group/remote-sensing
Dataset Status	Complete
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2023-06-01
Dataset DOI	10.34992/11tj-wr82
Metadata Creation Date	2024
Publisher	CanWIN

Dataset Authors

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Dataset Collection Start Date	2021-12-02
Dataset Collection End Date	2021-12-13
Sample Collection	
Sample Collection 1	
Sampling Instrument Name	KuKa Radar by ProSensing Inc.
Standardized Sampling Instrument Name	
Sample Collection Method Name	Ku and Ka band microwave measurements
Comment	
Method Link	https://tc.copernicus.org/articles/14/4405/2020/
Method Summary	KuKa Radar was used to sample sea ice and lake ice at Churchill, Manitoba between December 2nd and 13th. The Surface-based fully polarimetric radar operating in Ku and Ka band frequency was used to obtain Ku and Ka band radar interactions over different sea ice and lake ice conditions on different sampling days. The details of the Kuka band radar is outlined in Stroeve et al., (2020) [https://tc.copernicus.org/articles/14/4405/2020/] (https://tc.copernicus.org/articles/14/4405/2020/).
Method Description Type	Methods

Activity Collection Type	Field Measurement
Preferred citation	
Analytical Instrument	
Analytical Instrument 1	
Analytical Instrument Name	Prosensing Inc.
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

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Awards**Awards 1****Award Title** Canada 150 Research Chair**Website** <https://www.canada150.chairs-chaire.gc.ca/chairholders-titulaires/index-eng.aspx#stroeve>**Funder Name** NSERC**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/files/um_kuka_radar_b685_cf5d_ae69/
Name	Churchill KuKa radar data 2021
Description	Ku and Ka band radar waveform datasets collected on sea ice and lake ice in Churchill, December 2021.
Format	NetCDF
Resource Category	data