

# Metadata

<b>Dataset Name</b>	Churchill KuKa Data 2021
<b>Dataset General Type</b>	Radar Data
<b>Dataset Type</b>	Dataset
<b>Dataset Level</b>	1.0
<b>Program Website</b>	
<b>Keyword Vocabulary</b>	Polar Data Catalogue
<b>Keyword Vocabulary URL</b>	<a href="https://www.polardata.ca/pdcinput/public/keywordlibrary">https://www.polardata.ca/pdcinput/public/keywordlibrary</a>
<b>Theme</b>	
<b>Title</b>	Remote Sensing
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/remote-sensing">https://canwin-datahub.ad.umanitoba.ca/data/en/group/remote-sensing</a>
<b>Dataset Status</b>	Complete
<b>Maintenance and Update Frequency</b>	Not planned
<b>Dataset Last Revision Date</b>	2023-06-01
<b>Dataset DOI</b>	10.34992/11tj-wr82
<b>Metadata Creation Date</b>	2025
<b>Publisher</b>	CanWIN

## Dataset Authors

### Dataset Authors 1

<b>Name</b>	Stroeve, Julienne
<b>Type of Name</b>	Personal
<b>Email</b>	<a href="mailto:julienne.stroeve@umanitoba.ca">julienne.stroeve@umanitoba.ca</a>
<b>Affiliation</b>	Centre for Earth Observation Science - University of Manitoba
<b>ORCID ID</b>	

## Contributors

### Contributors 1

<b>Name</b>	Saha, Monojit
<b>Role</b>	DataCollector
<b>Email</b>	
<b>Affiliation</b>	Centre for Earth Observation Science - University of Manitoba
<b>ORCID ID</b>	

### Contributors 2

<b>Name</b>	Nandan, Vishnu
<b>Role</b>	DataCollector
<b>Email</b>	
<b>Affiliation</b>	Centre for Earth Observation Science - University of Manitoba
<b>ORCID ID</b>	

### Contributors 3

<b>Name</b>	Willatt, Rosemary
<b>Role</b>	DataCollector
<b>Email</b>	
<b>Affiliation</b>	

**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**

**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**

<b>Project Data Curator</b>	Stroeve Julianne
<b>Project Data Curator email</b>	<a href="mailto:julienne.stroeve@umanitoba.ca">julienne.stroeve@umanitoba.ca</a>
<b>Project Data Curator Affiliation</b>	Centre for Earth Observation Science - University of Manitoba
<b>Dataset Collection Start Date</b>	2021-12-02
<b>Dataset Collection End Date</b>	2021-12-13
<b>Sample Collection</b>	
<b>Sample Collection 1</b>	
<b>Sampling Instrument Name</b>	KuKa Radar by ProSensing Inc.
<b>Standardized Sampling Instrument Name</b>	
<b>Sample Collection Method Name</b>	Ku and Ka band microwave measurements
<b>Comment</b>	
<b>Method Link</b>	<a href="https://tc.copernicus.org/articles/14/4405/2020/">https://tc.copernicus.org/articles/14/4405/2020/</a>
<b>Method Summary</b>	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) [ <a href="https://tc.copernicus.org/articles/14/4405/2020/">https://tc.copernicus.org/articles/14/4405/2020/</a> ] ( <a href="https://tc.copernicus.org/articles/14/4405/2020/">https://tc.copernicus.org/articles/14/4405/2020/</a> ).
<b>Method Description Type</b>	Methods

<b>Activity Collection Type</b>	Field Measurement
<b>Preferred citation</b>	
<b>Analytical Instrument</b>	
<b>Analytical Instrument 1</b>	
<b>Analytical Instrument Name</b>	Prosensing Inc.
<b>Standardized Analytical Instrument Name</b>	
<b>Analytical Instrument Identifier Id</b>	
<b>Analytical Instrument Title Type</b>	Alternative Title
<b>Analytical Instrument Identifier Type</b>	
<b>Analytical Method</b>	
<b>Analytical Method 1</b>	
<b>Analytical Method Name</b>	
<b>Method Link</b>	
<b>Method Summary</b>	
<b>Laboratory</b>	
<b>Comments</b>	
<b>Variables Measured</b>	
<b>License Name</b>	Creative Commons Attribution 4.0 International
<b>Licence Type</b>	Open

**Embargo  
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Access**

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**Awards****Awards 1****Award Title** Canada 150 Research Chair**Website** <https://www.canada150.chairs-chaires.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

<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/kuka_radar_2021_zipped_51e7_c3f1_ad2b/">https://canwinerddap.ad.umanitoba.ca/erddap/files/kuka_radar_2021_zipped_51e7_c3f1_ad2b/</a>
<b>Name</b>	Churchill KuKa radar data 2021
<b>Description</b>	Ku and Ka band radar waveform datasets collected on sea ice and lake ice in Churchill, December 2021.
<b>Format</b>	NetCDF
<b>Resource Category</b>	data