

Metadata

Dataset Name	Churchill Beluga Boat Drone Imagery
Dataset General Type	imagery
Dataset Type	Dataset
Dataset Level	1.1
Program Website	
Keyword Vocabulary	Polar Data Catalogue,Global Change Master Directory
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary ; https://gcmd.earthdata.nasa.gov/KeywordViewer/scheme/all?gtm_scheme=all
Theme	
Title	Marine
URL	https://canwin-datahub.ad.umanitoba.ca/data/group/marine
Dataset Status	Complete
Maintenance and Update Frequency	Not planned
Dataset Last Revision Date	2019-08-09
Dataset DOI	10.34992/sgs5-yw58
Metadata Creation Date	2025
Publisher	CanWIN

Dataset Authors

Dataset Authors 1

Name Harasyn, Madison
Type of Name Personal
Email Madison.harasyn@umanitoba.ca
Affiliation Centre for Earth Observation Science - University of Manitoba
ORCID ID <https://orcid.org/0000-0002-5741-6766>
ORCID
<http://orcid.org/>

Dataset Authors 2

Name Barber, David
Type of Name Personal
Email david.barber@umanitoba.ca
Affiliation Centre for Earth Observation Science - University of Manitoba
ORCID ID 0000-0001-9466-3291
ORCID
<http://orcid.org/>

Contributors

Project Data Curator Chan, Wayne

Project Data Curator email wayne.chan@umanitoba.ca

Project Data Curator Affiliation Centre for Earth Observation Science - University of Manitoba

Dataset Collection Start Date 2019-07-28

Dataset Collection End Date 2019-08-09

Sample Collection	
Activity Collection Type	Field Measurement
Preferred citation	
Analytical Instrument	
Analytical Method	
License Name	Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses
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	
Related Resources	
Publications	
Publications 1	
Publication Name	Detection and tracking of belugas, kayaks and motorized boats in drone video using deep learning
Identifier Code	10.1139/juvs-2021-0024
Identifier Type	DOI

Relationship to this dataset	Describes
Resource Type	Online Resource
Publication Type	JournalArticle
Spatial regions	churchill
Spatial extent West Bound Longitude	-94.3257662171
Spatial extent East Bound Longitude	-94.0706395086
Spatial extent South Bound Latitude	58.6686784698
Spatial extent North Bound Latitude	58.8195795207

Data and Resources

URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/e028a59d-284b-4502-acad-4aaf0e1776e1/download/davidbarber_img_6403.jpg
Name	Churchill Estuary - Madison Harasyn, David Barber
Description	Taken on June 13, 2018 in the Churchill Estuary as part of the Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/ad573eed-c8eb-434e-a012-09bf5ba2c43c/download/dji_0094.jpg
Name	Churchill Estuary
Description	Taken on April 24, 2019 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG

Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/7f84dcd1-13f0-4b3b-889b-6ace985ac927/download/dji_0106.jpg
Name	Churchill Estuary - Ice Floes 1
Description	Taken on June 20, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/3d05131d-1c8c-4cab-be9e-2e12a9807d9e/download/dji_0202.jpg
Name	Churchill Estuary - Ice Floes 2
Description	Taken on June 22, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/075cc222-d7e8-404e-af41-eb986ec8aab3/download/dji_0340.jpg
Name	Churchill Estuary - Ice Floes 3
Description	Taken on June 8, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/26a48e38-9ec9-49a6-95ba-60474e1487dd/download/maddie_drone.jpg
Name	Churchill Estuary - Madison Harasyn and Drone
Description	Taken on June 4, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/d34138b9-6b4b-439d-b95a-712e84709620/download/dji_0136.jpg
Name	Churchill Estuary - Boat

Description	Taken on June 20, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	JPEG
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga3.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 1
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga5.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 2
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga6.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 3
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga7.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 4
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data

URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga8.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 5
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga9.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 6
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga10.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 7
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data
URL	https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga11.mp4
Name	Churchill Beluga Boat Study drone video 2019 - 8
Description	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
Format	MP4
Resource Category	raw_data

Related Publications

Title Detection and tracking of belugas, kayaks and motorized boats in drone video using deep learning

URL <https://canwin-datahub.ad.umanitoba.ca/data/publication/detect-video-deep-learning>

Title One Beluga, Two Beluga, Three Beluga, Four: How to Count Belugas When You Run Out of Fingers and Toes

URL <https://canwin-datahub.ad.umanitoba.ca/data/publication/beluga-graphic-novel>

Deployment details

Title Churchill Drone Deployment

URL https://canwin-datahub.ad.umanitoba.ca/data/deployment_details/churchill-drone-deploy