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/en/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	2022
Publisher	CanWIN
Dataset Authors	
Dataset Authors 1	
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Type of Name	Personal

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Dataset Authors 2		
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Contributors	
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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
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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	58.6686784698

Latitude	

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/en/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/en/publication/beluga-graphic-novel

Deployment details

Title	Churchill Drone Deployment
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/deployment_details/churchill-drone-deploy