

# Metadata

<b>Dataset Name</b>	Churchill Beluga Boat Drone Imagery
<b>Dataset General Type</b>	imagery
<b>Dataset Type</b>	Dataset
<b>Dataset Level</b>	1.1
<b>Program Website</b>	
<b>Keyword Vocabulary</b>	Polar Data Catalogue,Global Change Master Directory
<b>Keyword Vocabulary URL</b>	<a href="https://www.polardata.ca/pdcinput/public/keywordlibrary">https://www.polardata.ca/pdcinput/public/keywordlibrary</a> ; <a href="https://gcmd.earthdata.nasa.gov/KeywordViewer/scheme/all?gtm_scheme=all">https://gcmd.earthdata.nasa.gov/KeywordViewer/scheme/all?gtm_scheme=all</a>
<b>Theme</b>	
<b>Title</b>	Marine
<b>URL</b>	<a href="https://lwbins-dev.ad.umanitoba.ca/data/fr/group/marine">https://lwbins-dev.ad.umanitoba.ca/data/fr/group/marine</a>
<b>Dataset Status</b>	Complete
<b>Maintenance and Update Frequency</b>	Not planned
<b>Dataset Last Revision Date</b>	2019-08-09
<b>Dataset DOI</b>	
<b>Metadata Creation Date</b>	2022
<b>Publisher</b>	CanWIN

## Dataset Authors

### Dataset Authors 1

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### Dataset Authors 2

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## Contributors

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**Dataset Collection Start Date** 2019-07-28

**Dataset Collection End Date** 2019-08-09

<b>Sample Collection</b>	
<b>Activity Collection Type</b>	Field Measurement
<b>Preferred citation</b>	
<b>Analytical Instrument</b>	
<b>Analytical Method</b>	
<b>License Name</b>	Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International
<b>Licence Type</b>	Open
<b>Embargo Date</b>	
<b>Licence URL</b>	<a href="https://spdx.org/licenses">https://spdx.org/licenses</a>
<b>Terms of Access</b>	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.
<b>Terms of Use</b>	By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).
<b>Awards</b>	
<b>Related Resources</b>	
<b>Publications</b>	
<b>Spatial regions</b>	churchill

<b>Spatial extent West Bound Longitude</b>	-94.3257662171
<b>Spatial extent East Bound Longitude</b>	-94.0706395086
<b>Spatial extent South Bound Latitude</b>	58.6686784698
<b>Spatial extent North Bound Latitude</b>	58.8195795207

## Data and Resources

<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/e028a59d-284b-4502-acad-4aaf0e1776e1/download/davidbarber_img_6403.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/e028a59d-284b-4502-acad-4aaf0e1776e1/download/davidbarber_img_6403.jpg</a>
<b>Name</b>	Churchill Estuary - Madison Harasyn, David Barber
<b>Description</b>	Taken on June 13, 2018 in the Churchill Estuary as part of the Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/ad573eed-c8eb-434e-a012-09bf5ba2c43c/download/dji_0094.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/ad573eed-c8eb-434e-a012-09bf5ba2c43c/download/dji_0094.jpg</a>
<b>Name</b>	Churchill Estuary
<b>Description</b>	Taken on April 24, 2019 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/7f84dcd1-13f0-4b3b-889b-6ace985ac927/download/dji_0106.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/7f84dcd1-13f0-4b3b-889b-6ace985ac927/download/dji_0106.jpg</a>
<b>Name</b>	Churchill Estuary - Ice Floes 1
<b>Description</b>	Taken on June 20, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.

<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/3d05131d-1c8c-4cab-be9e-2e12a9807d9e/download/dji_0202.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/3d05131d-1c8c-4cab-be9e-2e12a9807d9e/download/dji_0202.jpg</a>
<b>Name</b>	Churchill Estuary - Ice Floes 2
<b>Description</b>	Taken on June 22, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/075cc222-d7e8-404e-af41-eb986ec8aab3/download/dji_0340.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/075cc222-d7e8-404e-af41-eb986ec8aab3/download/dji_0340.jpg</a>
<b>Name</b>	Churchill Estuary - Ice Floes 3
<b>Description</b>	Taken on June 8, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/26a48e38-9ec9-49a6-95ba-60474e1487dd/download/maddie_drone.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/26a48e38-9ec9-49a6-95ba-60474e1487dd/download/maddie_drone.jpg</a>
<b>Name</b>	Churchill Estuary - Madison Harasyn and Drone
<b>Description</b>	Taken on June 4, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/d34138b9-6b4b-439d-b95a-712e84709620/download/dji_0136.jpg">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/d34138b9-6b4b-439d-b95a-712e84709620/download/dji_0136.jpg</a>
<b>Name</b>	Churchill Estuary - Boat
<b>Description</b>	Taken on June 20, 2018 in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	JPEG
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga3.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga3.mp4</a>

<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 1
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga5.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga5.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 2
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga6.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga6.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 3
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga7.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga7.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 4
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga8.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga8.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 5
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4

<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga9.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga9.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 6
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga10.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga10.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 7
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga11.mp4">https://canwinerddap.ad.umanitoba.ca/erddap/files/Drone_Data_588f_21fe_8ff6/beluga11.mp4</a>
<b>Name</b>	Churchill Beluga Boat Study drone video 2019 - 8
<b>Description</b>	Drone footage of beluga whales and boats in the Churchill Estuary as part of the Churchill Beluga Boat Study.
<b>Format</b>	MP4
<b>Resource Category</b>	raw_data
<b>URL</b>	<a href="https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/e07866e4-6be1-4720-94f1-5cd27e056e05/download/canwin_project_metadata_template2019churchill_harasyn.docx">https://lwbin-dev.ad.umanitoba.ca/data/dataset/b5f259b4-3ace-4750-bfb0-47c4e794082f/resource/e07866e4-6be1-4720-94f1-5cd27e056e05/download/canwin_project_metadata_template2019churchill_harasyn.docx</a>
<b>Name</b>	CANWIN Project Metadata - 2019 Churchill UAV Data
<b>Description</b>	CANWIN metadata templates are filled out for instruments, deployments, datasets, and projects. This template is for UAV (unmanned aerial vehicle) videos and photos collected during the 2019 field season over the Churchill Estuary.
<b>Format</b>	DOCX
<b>Resource Category</b>	supplemental

# Related Publications

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

**URL** <https://lwbin-dev.ad.umanitoba.ca/data/fr/publication/beluga-graphic-novel>

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

**URL** <https://lwbin-dev.ad.umanitoba.ca/data/fr/publication/detection-and-tracking-beluga>

# Instrument details

**Title** DJI Zenmuse Z30

**URL** [https://lwbin-dev.ad.umanitoba.ca/data/fr/instrument\\_details/dji-zenmuse-z30](https://lwbin-dev.ad.umanitoba.ca/data/fr/instrument_details/dji-zenmuse-z30)

# Deployment details

**Title** July 27th 2019 Churchill Drone Deployment

**URL** [https://lwbin-dev.ad.umanitoba.ca/data/fr/deployment\\_details/july-27th-2019-churchill-drone-deployment](https://lwbin-dev.ad.umanitoba.ca/data/fr/deployment_details/july-27th-2019-churchill-drone-deployment)