

Metadata

Field	Value
Title	The Manitoba Great Lakes Program
Research Program Name	Manitoba Great Lakes Program
Keyword Vocabulary	Polar Data Catalogue
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary
Website	https://umanitoba.ca/earth-observation-science/research/manitoba-great-lakes-program
Theme	
Title	Air Temperature
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/air-temperature
Title	Atmosphere
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/modelling
Title	Dissolved organic carbon
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/dissolved-organic-carbon
Title	Lakes
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/lakes
Title	Nutrients
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/nutrients

Field	Value
Title	Oxygen
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/oxygen
Title	Particulate matter
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/particulate-matter
Title	Plankton
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/plankton
Title	Subsurface Temperature
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/subsurface-temperature
Title	Surface Salinity
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/surface-salinity
Title	Surface Temperature
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/surface-temperature
Title	Water Colour
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/water-colour
Status	In Progress
Project Area	Lake Winnipeg Basin,Manitoba Great Lakes,Lake Winnipegosis,Lake Manitoba
Spatial regions	manitoba-great-lakes

Field	Value
Spatial extent West Bound Longitude	127.45739221572876
Spatial extent East Bound Longitude	-27.066243609948597
Spatial extent South Bound Latitude	-19.980860824921276
Spatial extent North Bound Latitude	140.81676721572876
Project DOI	10.5203/2nq5-pc53
Metadata Creation Date	2026
Publisher	CanWIN
Principal Investigators	
Principal Investigators 1	
Principal Investigator Name	Barber, David
Type of Name	Personal
Principal Investigator Email	david.barber@umanitoba.ca
Principal Investigator Affiliation	Centre for Earth Observation Science - University of Manitoba
Principal Investigator ORCID ID	0000-0001-9466-3291

Field	Value
	ORCID
	http://orcid.org/
Co-Investigators	
Co-Investigators 1	
Co-Investigator Name	Papakyriakou, Tim
Co-Investigator Role	ProjectMember
Co-Investigator Email	Tim.Papakyriakou@umanitoba.ca
Co-Investigator Affiliation	Centre for Earth Observation Science - University of Manitoba
Co-Investigator ORCID ID	
Co-Investigators 2	
Co-Investigator Name	Herbert, Claire
Co-Investigator Role	ProjectManager
Co-Investigator Email	Claire.Herbert@umanitoba.ca
Co-Investigator Affiliation	Centre for Earth Observation Science - University of Manitoba

Field	Value
Co-Investigator ORCID ID	0000-0003-2724-4200
	ORCID
	http://orcid.org/
Co-Investigators 3	
Co-Investigator Name	McCullough, Greg
Co-Investigator Role	ProjectLeader
Co-Investigator Email	Greg.McCullough@umanitoba.ca
Co-Investigator Affiliation	Centre for Earth Observation Science - University of Manitoba
Co-Investigator ORCID ID	
Project Data Curator	Herbert, Claire
Project Data Curator email	portalco@umanitoba.ca
Project Data Curator Affiliation	Centre for Earth Observation Science - University of Manitoba
Project Start Date	2012-04-01

Field	Value
Project End Date	
License Name	Creative Commons Attribution 4.0 International
Licence Schema Name	SPDX
Licence URL	https://spdx.org/licenses
Terms of Access	<p>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.</p>
Terms of Use	<p>By accessing this data you agree to [CanWIN's Terms of Use](https://dev.uni-manitoba.links.com.au/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).</p>
Awards	
Related Facilities	['9e21f6b6-d13f-4ba2-a379-fd962f507071', 'e71895ff-beba-4070-8d87-1160bfb7de97']

Data and Resources

Field	Value
URL	https://canwin-datahub.ad.umanitoba.ca/data/project/2f8c057e-a1df-4ff8-8a76-744212ea379a/resource/88b2600d-eb58-4bda-b79d-21b8ceb90b3c/download/lmb_algal_stns_thesis.png
Name	Lake Manitoba sample stations from 2016-2020
Description	Map showing stations sampled as part of the [Seasonal Monitoring in the Manitoba Great Lakes Project](https://canwin-datahub.ad.umanitoba.ca/data/project/mbgl-mooring) and [Claire Herbert's Masters Thesis](https://canwin-datahub.ad.umanitoba.ca/data/project/satellite-mbgl).
Format	PNG
Resource Category	documents
URL	https://umanitoba.ca/earth-observation-science/field-stories#manitoba-great-lakes-program
Name	Stories from the Field
Description	**Click the link above to view the field stories from the Manitoba Great Lakes Program webpage.** Students in CEOS conduct research that contributes to the global conversation on climate change and its effects on our planet. From their field research, they write stories and bring photos back from their experiences.
Format	HTML
Resource Category	web_services

Field	Value
URL	https://canwin-datahub.ad.umanitoba.ca/data/project/2f8c057e-a1df-4ff8-8a76-744212ea379a/resource/fc5097ad-3a58-4fbc-9173-f75b633da822/download/lwpo_stns.png
Name	Lake Winnipegosis sample sites, 2016-2020
Description	Map showing stations sampled as part of the [Seasonal Monitoring in the Manitoba Great Lakes Project](https://canwin-datahub.ad.umanitoba.ca/data/project/mbgl-mooring) and [Claire Herbert's Masters Thesis](https://canwin-datahub.ad.umanitoba.ca/data/project/satellite-mbgl).
Format	PNG
Resource Category	documents
URL	https://share.garmin.com/mbgl
Name	MBGL field work
Description	View where we are in the field
Format	
Resource Category	web_services

Sub-projects

Field	Value
Title	Seasonal lake monitoring in the MBGL
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/project/mbgl-mooring

Field	Value
Title	Nutrient Exports in the Swan Lake Watershed - Master's Thesis
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/project/nutrient-exports-swan-lake-masters
Title	MBGL Idronaut Data
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/project/mbgl-idronaut-data
Title	Spatial distribution of water quality and phytoplankton in the Upper Manitoba Great Lakes
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/project/satellite-mbgl
Title	Land to Ocean Aquatic Continuum of Carbon Research Program
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/project/ct-freshwater-marine-spectrum

Related Datasets

Field	Value
Title	Morphometric Data for Lake Manitoba
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/dataset/lmb-bathym

Related Publications

Field	Value
Title	Manitoba Great Lakes Protocols
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/publication/mbgl-protocols
Title	Spatial distribution of water quality and phytoplankton in the Upper Manitoba Great Lakes
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/publication/spatial-distr-mbgl-thesis
Title	The Chemical Analysis of Fresh Water

Field	Value
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/publication/fwi-chem-fw
Title	Hydrological forcing of a recent trophic surge in Lake Winnipeg
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/publication/hy-forc-lwpg
Title	Morphometric Data for Lake Manitoba
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/publication/lmb-morph-data-publ

Campaigns

Field	Value
Title	MBGL_2021_09_M2
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl_2021_09_m2
Title	MBGL Synoptic Survey 1 May-June 2016
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-ss1-may-june-2016
Title	MBGL Synoptic Survey 1 May 15 - May 23, 2017
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-synoptic-survey-1-may-15-2017
Title	MBGL Synoptic Survey 2 July 27 - August 20, 2016
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-ss2-july-august-2016
Title	MBGL Synoptic Survey 2 August 4 - August 12 , 2017
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-ss2-2017
Title	MBGL Synoptic Survey 3 September 17 - September 29 , 2017
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-ss3-2017