

Project Dashboard

Multidisciplinary Observatory for Arctic Climate Change and Extreme Events Monitoring

(MOACC) (149812)

Proposal Status: Conformity Determination Issued

- **Overview**
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Project Overview

Type of application: **New**

Proponent name:	Alexandre Langlois
Company:	Universite de Sherbrooke

Schedule:

Start Date:	2022-01-01
End Date:	2026-12-31
Operation Type:	Annual

Project Description:

The Multidisciplinary Observatory for Arctic Climate Change and Extreme Events Monitoring (MOACC) proposal is submitted by the Université de Sherbrooke (lead institution-UdeS), University of Toronto (UofT), Western University (WU) and Université de Montréal (UM). The main objective of our project is to develop a permanent multidisciplinary scientific infrastructure that enables long-term observations of Arctic climate change, bringing together experts from a wide range of expertise and institutions. The project is led by Prof. Alexandre Langlois (UdeS) and Prof. Kimberley Strong (UofT) and responds to a consensus on the lack of temporal observations that are crucial to understand feedback processes and to promote model development in the Arctic. The innovative aspect of this proposal resides in its multidisciplinary approach while enabling long-term Arctic measurements spanning several disciplines. The proposed observatory will be located at the Canadian High Arctic Research Station (CHARS) in Cambridge Bay, Nunavut, while enhancing the reach of CHARS with linkages to the Environment and Climate Change Canada supersite in Iqaluit. Our ambition is to establish the site as one of the largest instrumented high Arctic observatories dedicated to the monitoring of key indicators that drive climate change. The site will generate and enhance partnerships, not only with Canadian research centers and organizations, but also with international research partners and networks.

Personnel:

Persons:	5
Days:	100

Project Map

List of all project geometries:

ID	Geometry	Location Name
9070	polygon	New project geometry

Planning Regions:

Qikiqtani

Affected Areas and Land Types

Municipal

Settlement Area

Project Land Use and Authorizations

Project Land Use

Scientific Research

Licensing Agencies

No data found.

Other Licensing Requirements

No data found.

Material Use

Equipment

Type	Quantity	Size	Use
Scientific instruments	NA	NA	Scientific instrument deployment: meteorological stations, antennas.

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Gasoline	5	20	Liters	For generators only

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
No records found.				

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
0		

Waste and Impacts

Environmental Impacts

No waste from scientific instruments is expected.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
No data found.			