

Cape Bounty Arctic Watershed Observatory

CBAWO is a comprehensive watershed research facility, comprised of paired watersheds and downstream lakes. Research is focused on terrestrial, aquatic and biogeochemical processes on land and in fresh water systems. Boundary layer meteorological and gas fluxes are also investigated. The station maintains numerous weather, river, stream, lake, soil, permafrost, vegetation and related sites for long term monitoring of the impacts of climate and related change on High Arctic systems.



Primary camp facilities. Photo credit: S. Lamoureux

	Name	Email	Phone Number
Primary Contact	Scott Lamoureux	Scott.Lamoureux@queensu.ca	(613) 533-6033

Owner
Queen's University

Membership
Associate Member

Website
<http://www.geog.queensu.ca/cbawo/>

Latitude
74.9

Longitude
-109.5

Location
Cape Bounty, Melville Island

Nearest Community
Resolute

Territory/ Province
Nunavut

Aboriginal Government/ Homeland
N/A

Facility Type
Seasonally-Operated Field Camp, Site for Observing/Monitoring

Research Hinterland

Continuous Permafrost, Freshwater, Lake, Streams, Terrestrial, Tundra

Power

Generator

Communications

Satellite phone, VHF

Local Transportation

Walking, snow machine, small boats

Equipment Storage

Cold storage, tents

Dormitory/Sleeping Facilities

Tents

Dining/Kitchen Facilities

Common kitchen-work space tent

Laboratory Facilities

Seasonal laboratory tents

Fuel Availability

Propane, limited gasoline

Research Requirements

Nunavut territorial permit

Special Rules and Regulations

Low impact travel and activities. Some restricted areas for research and safety.

Local External Resources

N/A

Nearest Medical Service

Resolute, Nursing Station

Research History

Research at CBAWO began in 2003 and has continued since that time. Activity significantly increased during the 2007-9 International Polar Year (IPY) and has continued with support from ArcticNet and NSERC. In addition to CBAWO core research activities, numerous field parties have based local and regional operations from the camp at CBAWO.

Current Projects

Research focusing on hydrological, permafrost, and terrestrial processes, with emphasis on geomicrobiological and biogeochemical cycling in soil and freshwaters. Limnological research and remote sensing research are also underway.

Main Research Disciplines

Climatology, Environmental Sciences, Geophysics, Geocryology, Geomorphology, Hydrology, Isotopic chemistry, Limnology, Mapping/GIS, Microbiology, Paleoecology, Paleolimnology, Soil Science, Terrestrial biology/ecology

Safety Considerations

Mandatory first aid and related training (firearms, boating, etc.).

Cost

Negotiable, cost recovery basis

Other Information

N/A

Last Updated

15-02-19