



## **NIRB Application for Screening #126437 Ocean Change 2026**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** Monday, June 1, 2026

**Period of operation:** from 2026-07-30 to 2026-08-13

**Project Proponent:** Clemens von Scheffer  
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atulihaaliqqat August 2026 unalu qitqani-August 2026. Tikitiqtut aulagtiqtullu qanuriniitigut hilap qanuginiatigut tariumi. Qayaq tikihimayuq hamanga Sisimiut, Greenlandmin, ikaaqtinagu Nunavunmun. Apqutaat hivuraanut apqutauyuq, nutqaqhuni tulakvingmut Pangnirtuumut, kinggulliqpaaq tikilvikhaa Bridgewater (Nova Scotia), umiaq ukiiniaqtuq. Umiaqtuqtut aulahimmaarniaqtut 2027-mi, ikaaqhugu Atlantic-kut utiriamingni Hamburgmut.

**Personnel**

Personnel on site: 9

Days on site: 15

Total Person days: 135

Operations Phase: from 2026-07-30 to 2026-08-13

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Area in which the sailing boat will operate and measure oceanographic parameters	Researching	Marine	N/A	N/A	The marked area will be sailed through, coming from Greenland and then going southward. The community and port of Pangnirtung will be visited.
approximate track	Researching	Marine	N/A	N/A	See the description of area. The port and community of Pangnirtung will be visited.

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Pangnirtung	N/A	N/A	2026-04-22

# Authorizations

Indicate the areas in which the project is located:

Transboundary  
South Baffin

## Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Other	Marine scientific research application to Canadian government.	Applied, Decision Pending		
Nunavut Research Institute	An application will be submitted as soon as we hear back from NIRB (this application).	Not Yet Applied		

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	wooden traditional sailing boat	

## Project accommodation types

Other,

# Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Ocean Pack	1	100x50	To measure temperature, salinity, oxygen and pCO <sub>2</sub> in ocean surface water
CTD sonde	1	ca. 50 x 10	Conductivity, Temperature, Depth measurements at certain points

## Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Other	fuel	0	0	0	Kg	Sailing boat, wind
Diesel	fuel	5	900	4500	Liters	maneuvering in port

## Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	Fresh water for cooking, drinking, etc. is produced on board by a Spectra Cape Horn Extreme 330 from sea water.	Water is taken from the ocean along the sailing route.

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Camp	Greywater	500 L	Greywater produced during the cruise is stored in a tank and disposed at harbour/port facilities where possible (etc. Nain, Halifax).	N/A

### Environmental Impacts:

There are generally no expected impacts, neither negative nor positive. However, there could be an indirect positive effect, as data about coastal waters and the ocean will be made available publicly and accessible for the community about water temperatures, salinity and oxygen. If spotted, marine plastic litter will be collected when feasible (e.g. ghost nets). Noise levels are negligible and no harmful substances or methods are being used.

# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**

**SECTION E3: Vessel Use**

## **SECTION F1: Site Cleanup**

## **SECTION G1: Well Authorization**

## **SECTION G2: Onland Exploration**

## **SECTION G3: Offshore Exploration**

## **SECTION G4: Rig**

## **SECTION H1: Vessel Use**

## **SECTION H2: Disposal At Sea**

## **SECTION I1: Municipal Development**

### **Description of Existing Environment: Physical Environment**

Although coastal waters will be sailed through, the maximum effort is to avoid disturbing wildlife. Since a sailing boat is used, no lasting impacts are expected.

### **Description of Existing Environment: Biological Environment**

### **Description of Existing Environment: Socio-economic Environment**

The boat will call port at Pangnirtung and hopefully meet and talk with people of the local communities.

### **Miscellaneous Project Information**

No contacts were made beforehand, therefore N/A and an arbitrary date were put into the form. Regarding community involvement, the crew of the sailing boat would be happy to speak and get in touch with members of the community during the port stay in Pangnirtung.

### **Identification of Impacts and Proposed Mitigation Measures**

No impact is expected, as the boat is mostly on the sea, sailing along its route. Waste will be collected on board, pressed and stored on board until it can be disposed at designated port facilities.

### **Cumulative Effects**

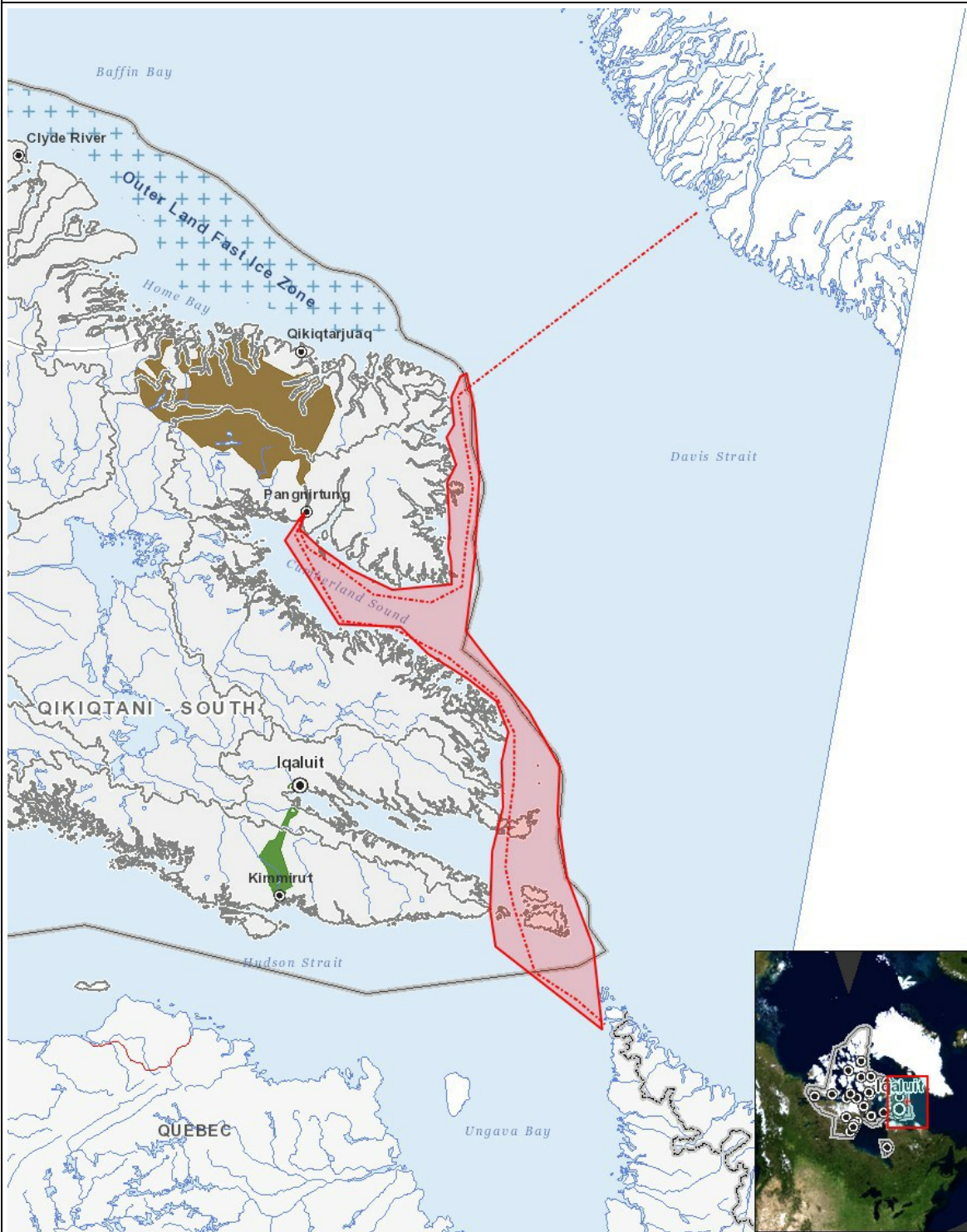
# Impacts

## Identification of Environmental Impacts

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>																									
Researching		-	-	-	-	-	-	-	-	-	-	-	-		P	P	P	-			-	-	-	-	-
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

## Project Location



## List of Project Geometries

- 1 polygon Area in which the sailing boat will operate and measure oceanographic parameters
- 2 polyline approximate track