

New

Scientific Research

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▷ΔΛΠΣ: Aperçu du projet de l'USCGC Healy dans la Baie de Baffin. Il s'agit d'un projet de recherche multidisciplinaire qui prendra avatange du navire de la garde côtière américaine Healy opérant dans la baie de Baffin en septembre/octobre 2021. Il y aura à bord des équipes scientifiques de diverses institutions, comme détaillé ci-dessous. Nous partirons de Nuuk, au

[illegible]

Operations Phase: from 2021-09-17 to 2021-10-10

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Line 1. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 2. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 3. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 4. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 5. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 6. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 7. This is a transect along which the ship will	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical

take measurements of the water.					miles from shore.
Line 8. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 9. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.
Line 10. This is a transect along which the ship will take measurements of the water.	Marine Based Activities	Marine	The transect has not been occupied previously.	Not Applicable.	We will take measurements no closer than 3 nautical miles from shore.

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የጥያቄው ስም	ሰነድ	የፖሊስ ኮሚሽነር	ቀን
የፖሊስ ኮሚሽነር	Geela Kooneeliusie	Senior administrative officer	2019-03-15

$\epsilon \Delta^{\alpha} j^{\beta} \wedge J^{\alpha} e^{\beta} \dot{N} \quad \nabla^{\alpha} r^{\beta} C D P L \dot{r}^{\gamma}$

$a^b r^c \sigma^d$ $\Lambda c_n d_n^e \Delta D \sigma^f J^g$ $n n f^h r^i$:

Transboundary

North Baffin

South Baffin

[illegible][illegible]

Project transportation types

Transportation Type	Vehicle	Length of Use
Water	US Coast Guard Cutter Healy	

Project accomodation types

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◀▷↳◀⁹⁶▷⁹⁶

Λ⁹δ^c 4⁹π² 4⁹π²CDσD4⁹ Δ^cπ²π²π² Δ^cπ²Δ^c, Γ^cπ²π²π², π²π²π², π²π²π²

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Conductivity-Temperature-Depth (CTD)	1	6' x 3'	To collect vertical profiles of temperature, salinity, oxygen, fluorescence, and beam transmission at specified locations.
Niskin bottles	24	3' x 0.5'	To collect water samples for measuring chemical properties.
Flow-through sensors	4	Attached to ship	Several devices to monitor the properties of seawater/air by passing seawater/air through them as the vessel is underway. A detailed list of these sensors is provided in the documentation at the end of the application.
12-kHz echosounder	1	Attached to ship	Bathymetric data collection.
150-kHz acoustic Doppler current profiler (ADCP)	1	Attached to ship	To collect vertical profiles of water velocity.
75-kHz ADCP	1	Attached to ship	To collect vertical profiles of water velocity.
Autonomous glider	1	5' x 1.5'	This will be launched near Jakobshavn glacier, West Greenland to collect measurements of temperature, salinity, velocity, and turbulence. It will be recovered by CCGS Amundsen later in the fall.
Surface velocity drifter	30	2' x 2'	These will be deployed from the vessel at various locations in Baffin Bay. They drift with the surface currents and transmit their data to satellite. The sensors on the drifters are described in the

$\triangleleft^b C d^c$
$$\Delta^b C d_{\sigma} \sim \Delta^a \sigma^a$$

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Marine Based Activities	ፍጥነት ማረጋገጫ	1 Liter	Will stay on ship and be disposed after reaching home port.	N/A

$$4^{\circ} 07' 20'' \text{C} \quad 4^{\circ} 56' 00'' \text{C}$$

There are no predicted environmental impacts.

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

We will use the United States Coast Guard Cutter Healy to conduct an interdisciplinary research cruise in Baffin Bay. The scientific objectives and activities being carried out on the ship are detailed in the Project Overview. The particulars of the vessel are included in the Project Documents section.

SECTION H2: Disposal At Sea

The vessel complies with all international waste management guidelines and is self-contained with respect to waste. The vessel management plans are included in the Project Documents section.

SECTION 11: Municipal Development

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[illegible]

Miscellaneous Project Information

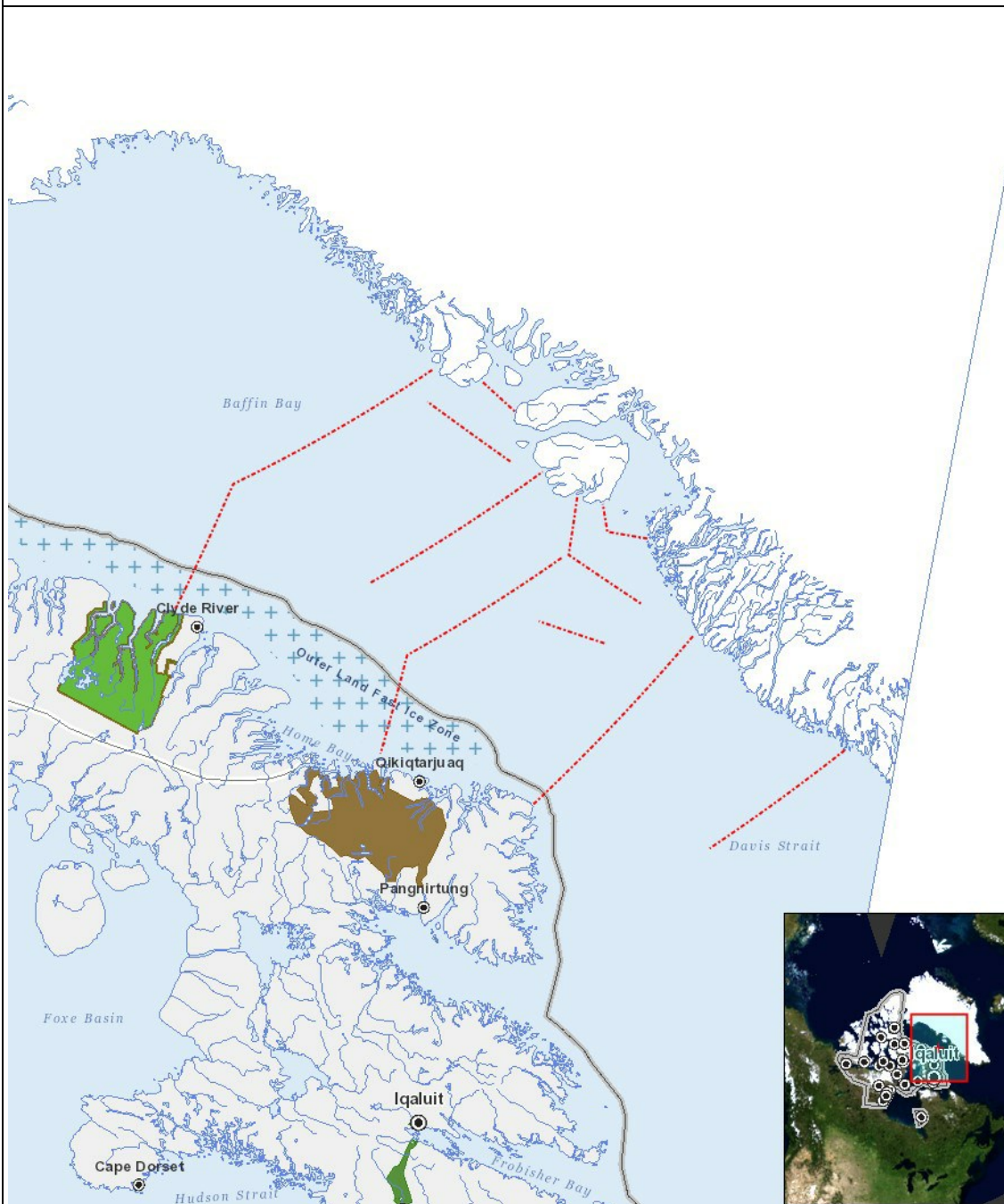
உதா. $\Delta^{\text{ab}} \text{CD} \sigma^{\text{bc}}$ $\Delta^{\text{b}} \text{CD} \text{PL} \Delta^{\text{c}}$ $\Delta^{\text{bc}} \text{CD} \sigma^{\text{bc}}$ $\Delta^{\text{c}} \text{DPL} \Delta^{\text{a}} \text{CD} \sigma^{\text{ab}}$

Cumulative Effects

Impacts

$\Delta^{\epsilon_b} C D \sigma^{-\epsilon_c} r^c$ $d e n f d c \dot{c}^c d^c$ $d^b d^{\epsilon_b} C D r L \dot{r}^c$

[illegible]
$$(P = \langle \text{b b d a p n j a s b} \rangle^c, N = \langle \text{b b d s r j c d j a s b} \rangle^c \langle \text{c d f j j r s b} \rangle^{s_b} \langle \text{c d j a s r c} \rangle^c \neg, M = \langle \text{b b d s r j c d j a s b} \rangle^c \langle \text{c d f j j r s b} \rangle^{s_b} \langle \text{c d j a s b} \rangle^c \neg, U = \langle \text{b b d r l a s r c} \rangle^{s_b})$$



List of Project Geometries

- | | | |
|---|----------|--|
| 1 | polyline | Line 1. This is a transect along which the ship will take measurements of the water. |
| 2 | polyline | Line 2. This is a transect along which the ship will take measurements of the water. |
| 3 | polyline | Line 3. This is a transect along which the ship will take measurements of the water. |
| 4 | polyline | Line 4. This is a transect along which the ship will take measurements of the water. |
| 5 | polyline | Line 5. This is a transect along which the ship will take measurements of the water. |
| 6 | polyline | Line 6. This is a transect along which the ship will take measurements of the water. |

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| 7 | polyline | Line 7. This is a transect along which the ship will take measurements of the water. |
| 8 | polyline | Line 8. This is a transect along which the ship will take measurements of the water. |
| 9 | polyline | Line 9. This is a transect along which the ship will take measurements of the water. |
| 10 | polyline | Line 10. This is a transect along which the ship will take measurements of the water. |