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Annual shrimp survey in Hudson Strait.

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New

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Marine Based Activities

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6/28/2023 11:40:03 AM

Period of operation: from 0001-01-01 to 0001-01-01

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Canada

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$\gamma_b \Delta^c \dot{\gamma} \Pi \sigma^b \quad \Lambda_{\text{C}} \sim \Delta^{\gamma_b} \gamma \sigma \Delta \sim \Delta^a \text{L}^a \sigma^b$

▷ΔΛΝΔ: Le relevé vise à étudier les stocks de crevettes dans la région du détroit d'Hudson. L'enquête se déroulera sur une période d'env. 50 jours (entre le 1er juillet et le 30 septembre) et utilisera un chalut démersal pour pêcher les crevettes. La pêche se fera à partir du navire de pêche. Une fois recensées, toutes les crevettes et les prises accessoires seront remises à l'eau.

Personnel

Days on site: 50

Total Person days: 800

Operations Phase: from 2023-07-14 to 2023-09-28

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Shrimp survey area	Marine Based Activities	Marine	The survey performed annually.	n/a	Nearest community - Kimmirut, about 65km away from sampling area; proximity of Hatton Basin Closure, no sampling in closure

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Information is not available			

[illegible]

$a^{\dagger}r^a r^b \Lambda_{\sigma} n^c \Delta_{\sigma} d^{cb} c$ በበፍጋሮ:

Transboundary

South Baffin

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[illegible]

Project transportation types

Transportation Type	ᐃᓇ ᑕᔭᖅᑐᒃᑐᑦ ᑎᓄᑦᑐᑦ	Length of Use
Water	Fishing Vessel Katsheshuk II	

Project accomodation types

△ ۲۰۰۶،

$\triangleleft^b C d^c$
$$\Delta^b C d_c n_\sigma \Delta^q \sigma^q$$
[illegible]
$$4^{\circ} 07' 20'' \text{C} \quad 4^{\circ} 07' 20'' \text{C}$$

The impacts of the proposed research will be negative (removal of the resource, bottom disturbance), however, mitigation measures (catch not retained, short duration of the individual tow) will mitigate the impacts to some extent.

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

The vessel to be used is a Canada registered (Home Port: ST.JOHN'S), operational (active) fishing vessel - Katsheshuk II(IMO: 9127174; Call Sign: VAAI); it will be used to deploy the demersal trawl (Campelen) in the pre-selected locations in the Hudson Strait.

SECTION H2: Disposal At Sea

Catch and bycatch will be disposed immediately after processing (enumeration). Any disposal from the vessel will be done according to marine regulations of Transport Canada for the offshore operating vessel. The vessel will not dispose waste in the inshore areas.

SECTION I1: Municipal Development

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There are no impacts for the physical environment.

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Catch and bycatch species removals are limited to an absolute minimum (15 minutes tows). Past history of the survey indicates that the following catch and bycatch amounts are expected: - shrimp: Northern Shrimp - 550kg, Striped Shrimp: 3200kg; - finfish (bony fish species): 2000kg; - other taxa (including sponges, corals, seastars etc.): 900 kg

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The survey provides information that feed directly into decision making on the Total Allowable Catch of shrimp. The shrimp in Hudson Strait are solely caught by the parties from Nunavut and Nunavik.

Miscellaneous Project Information

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There is a catch (shrimp) and bycatch (fishes, sponges) involved in this research activity. The duration of the individual tow, thus the overall impact at the particular location, are minimized by

reducing the tow time to 15 minutes and live release of fish when they are enumerated.

Cumulative Effects

Bycatch removal, shrimp (catch) removal from the particular location, disruption of the bottom by the trawl (minimal due to short tow duration).

Impacts

$\mathbb{A}^1_{\mathbb{C}} \times \mathbb{A}^1_{\mathbb{C}} \rightarrow \mathbb{A}^1_{\mathbb{C}}$

[illegible]
$$(P = \Delta b \Delta a P \cap \Delta^a a^b)^c, N = \Delta b \Delta a^b \Gamma \Delta \Delta \Delta^a a^b)^c \langle \Delta \Delta \Gamma \Delta \Delta \Gamma^b \rangle^b \Delta \Delta \Delta^a a^b \Gamma^c)^c, M = \Delta b \Delta a^b \Gamma \Delta \Delta \Delta \Delta^a a^b)^c \langle \Delta \Delta \Gamma \Delta \Delta \Gamma^b \rangle^b \Delta \Delta \Delta^a a^b)^c, U = a b \Delta \Delta L^a a^b \Gamma^c \rangle^b)$$

1	polygon	Shrimp survey area
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