

▷⁹ḅ_ḥ▷^ḥḥ: 7098642011, ḥḅḥ^ḥḅ^ḥ:

ᐅᐃᐱᑎᓂᑦ: Le projet proposé s'appuie sur l'intérêt exprimé par les communautés Inuites du Nunavut pour évaluer l'état et la valeur de leurs ressources benthiques marines et les perspectives de leur utilisation durable dans le contexte de la sécurité alimentaire et des changements climatiques. Il vise à élargir notre compréhension des assemblages benthiques côtiers, en mettant l'accent sur les processus hiver-printemps se produisant près des glaces de mer et sur les espèces pertinentes pour les pêches commerciales et de subsistance. Des objectifs interdépendants seront consacrés à la recherche fondamentale, au transfert de connaissances pratiques et à la mobilisation communautaire. Les travaux sur le terrain devraient avoir lieu à l'été/automne 2022 et à l'hiver/printemps 2023. L'approche est centrée sur l'utilisation d'un submersible télécommandé (ROV) portable déployé à travers des trous dans la glace de mer pour étudier la structure de la communauté benthique et sa diversité dans deux régions principales (Bas vs Haut-Arctique, plus précisément Sanikiluaq et Grise Fiord). Le ROV aura un impact minimal sur l'environnement ; il captera des vidéos du benthos et prélèvera quelques échantillons d'eau, de sédiments et d'organismes. Des vidéos seront utilisées pour des analyses scientifiques et pour créer du matériel pédagogique ; elles seront partagées avec les partenaires dans les deux localités. Un segment complémentaire évaluera les méthodes les mieux adaptées pour la collecte et la manipulation des principales espèces commerciales. La vie benthique sous-jacente ou à proximité des polynies côtières et des glaces riveraines dans l'Arctique est un sujet sous-étudié. Les découvertes ont donc le potentiel de fournir de nouvelles informations sur les interactions entre les espèces et le couplage benthique-pélagique, y compris la façon dont les oiseaux et les mammifères dépendent et alimentent le benthos sous-jacent. Le projet

[illegible]

Operations Phase: from 2022-05-31 to 2023-06-30

$\Lambda \subset \mathbb{N} \times \mathbb{N} \rightarrow \sigma \in \mathbb{C}$

ᐱᓯ	ᖃᓄᐃᑦᕆᒥᑦ ᐱᓚᓇᐳᖃᖅᓂᐳᖅ<	Pᔪᑦᑭᑦ ᓄᓇᖅᑭᑦᑕᓂᓂ	ᑐᙵᐸᓴᔨᔩᙵᑦ ᓄᓇᐃᑦ ᖃᓄᖅ ᐳᑐᓴᐃᓚᐃᖅᓯᓴᓴᓇᐳᖅᓴᑦᓂᔭ	ᐃᑦᙵᖅᑕᖃᖅᐳᐃᐋᓚᐃᖅ< Δᓄᔪᓄᑦ ᓇᐳᖅᑕᐃᖅᑕᑦᓂᑭᐋᓴ ᑕᐃᑦᓯᓴᓂᑐᖅᐃᓚᖅᑐᖅ	ᖃᓂᓂᓂᖅᑭᖅ ᓄᓇᓚᓯᔭᐃᐳᖅ ᐳᓴᓴᑐ ᙵᑐᓴᓯᔭᓯᐳᐋᓴᓴ ᓯᓇᓄᑦ
Sanikiluaq: we have had two preliminary on-site meetings and exchanges with local partners (HTA members and High School)	Camp	Inuit Owned Surface Lands	N/A	N/A	N/A
Vicinity of Sanikiluaq in Belcher islands: we have obtained information on sites of interest from partners	Sampling sites	Marine	N/A	N/A	Sanikiluaq
Grise Fiord: a visit and on-site meeting with local partners (HTA members, outfitter) occurred in 2021	Camp	Inuit Owned Surface Lands	N/A	N/A	N/A
Vicinity of Grise Fiord: that has not been explored yet	Sampling sites	Marine	N/A	N/A	Grise Fiord

[illegible]

ᓄᓇ ᑦᕐᕋᖅ	ᐱᑏᑦ	ᐃᐅᙳᐱᖅᑎᑏᑦᕋᖅ	ᖅᕆᔭ ᐅᖅᑎᑦᐅᓂᐅᓂᐱᑦᒃᓂᖅ
ᐱᐅᓯᐱᑦᕋᖅ	Susie Qaunaq	Aviq Hunters and Trappers Organization	2021-08-03
ᕐᓂᓯᐱᑦᕋᖅ	Lucassie Arragutainaq	Sanikiluaq Hunters and Trappers Organization	2019-03-15
ᕐᓂᓯᐱᑦᕋᖅ	Joel Heath	Arctic Eider Society	2019-03-15
ᐱᐅᓯᐱᑦᕋᖅ	Terry Noah	Ausuittuq Adventures	2021-08-11
ᕐᓂᓯᐱᑦᕋᖅ	Michelle Morrison	Paatsaali School	2022-02-04

ᓕᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ

ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ:

North Baffin

South Baffin

ᓕᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ

ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ
ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	Licence to Fish for Scientific Purposes	Active	2022-03-03	2022-09-30
Hunters and Trappers Associations/Organizations	Sanikiluaq HTO and Iviq HTO -- Partners in project and help with local logistics in Sanikiluaq and Grise Fiord	Active	2022-01-31	

Project transportation types

Transportation Type	ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	Length of Use
Water	Small boats (locally owned) to reach field sites: ice-free areas	
Land	Snowmobiles and / or all-terrain vehicles (locally owned) to reach field sites : shore or ice floe	

Project accomodation types

ᓂᓐᓂᓐ ᓂᓐᓂᓐ

$\triangleleft^b C d^c$
$$\Delta^b C d \leq \rho \sigma \Delta^a \sigma^b$$

$\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0$ $\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0$	$\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0$ $\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0$	$\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0$ $\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0 \pi^0$	$\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0$ $\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0 \pi^0$	$\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0 \pi^0$ $\Lambda^c \rightarrow \Lambda^c \pi^+ \pi^- \pi^0 \pi^0 \pi^0 \pi^0$
Information is not available				

$\Delta^{\circ} \text{OFGD} \approx {}^c\text{D}^c$ $\Delta^b\text{D}^{fb}\text{CDPL}\downarrow^c$

We will be staying in the communities, either at hotel or rented house. We will hire guides and outfitters. We will also give invited presentations at HTO and/or schools. No predicted impact on the communities other than positive ones, like engagement, training, employment and use of infrastructure. At the field sites (marine / nearshore) sampling will occur using one of the following: a portable underwater ROV (camera) with very small capacity for sample collection (water, sediment, organisms) or locally owned fishing boats and gear. Minimal disturbance will therefore occur (under the supervision of local partners). In addition, local partners may contribute portions of fishing catches as samples, again with minimal disruptions typical of community activities (following their own permits as applicable).

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 11: Municipal Development

[illegible]

ᐱᓪᑦ ᐃᑦᐅᐅᑦ ᖃᓄᐃᑦᑐᑦ ᑕᓚᐅᓂᖅ: ᐅᐭᔨᖃᑕᖃᑦᓂᖅ

ᐱᓪᑲ ᐃᑦᑎᐅᔭ ᖃᑳᐃᕐᕐᑲᑎᐅᐄᓂᖃ: ᐃᑳᑦᑎᐄᓂᖃᒃᑲᐅᑦ-ᐱᑦᑦᐃᑦᑲᑎᐄᓂᖃᒃᑲᐅᑦ

Miscellaneous Project Information

[illegible]

Cumulative Effects

Impacts

$\mathbf{e} \rightarrow \mathbf{e} \Delta^{\mathfrak{b}} \mathbf{C} \triangleright \sigma^{\mathfrak{a}} \mathbf{r}^{\mathbf{c}} \quad \mathbf{d} \leftarrow \mathbf{n} \Gamma \triangleright \mathbf{C} \dot{\sigma}^{\mathbf{c}} \mathbf{d}^{\mathbf{c}} \quad \mathbf{d}^{\mathbf{b}} \mathbf{d}^{\mathfrak{b}} \mathbf{C} \triangleright \mathbf{r}^{\mathbf{L}} \mathbf{r}^{\mathbf{c}}$

[illegible]
$$(P = \langle b \rangle \dot{\cup} \mathcal{P} \cap \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp}, N = \langle b \rangle \dot{\cup} \mathcal{P} \cap \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp}, M = \langle b \rangle \dot{\cup} \mathcal{P} \cap \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp}, U = \mathcal{P} \dot{\cup} \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp} \cup \mathcal{P}^{\perp})$$

1	polyline	Vicinity of Sanikiluaq in Belcher islands: we have obtained information on sites of interest from partners
2	polyline	Vicinity of Grise Fiord: that has not been explored yet
3	point	Sanikiluaq: we have had two preliminary on-site meetings and exchanges with local partners (HTA members and High School)
4	point	Grise Fiord: a visit and on-site meeting with local partners (HTA members, outfitter) occurred in 2021

- | | | |
|---|----------|--|
| 1 | polyline | Vicinity of Sanikiluaq in Belcher islands: we have obtained information on sites of interest from partners |
| 2 | polyline | Vicinity of Grise Fiord: that has not been explored yet |
| 3 | point | Sanikiluaq: we have had two preliminary on-site meetings and exchanges with local partners (HTA members and High School) |
| 4 | point | Grise Fiord: a visit and on-site meeting with local partners (HTA members, outfitter) occurred in 2021 |