Demande de la CNER faisant l’objet d’un examen préalable #126223

Ocean Tracking Network: Marine fish tracking in Baffin Bay and connected waters onboard the RV Kiviuq 1.

Type de demande :	New
Type de projet:	Scientific Research
Date de la demande :	Monday, August 11, 2025
Period of operation:	from 2025-08-03 to 2028-10-19
Promoteur du projet:	Kevin Hedges Fisheries and Oceans Canada 501 University Crescent Winnipeg MB R3T 2N6 Canada Téléphone :: 2047705814, Télécopieur ::

DÉTAILS

Description non technique de la proposition de projet

Anglais: The main objective is to improve our understanding of the movement patterns and ecology of Greenland Shark, Greenland Halibut and Arctic Skate. Individuals of each species will be caught on bottom set longlines and marked with acoustic tags that allow the tracking of individual animals. Fish tracking moorings deployed near Clyde River and Qikiqtarjuaq, near the Disko Fan Conservation Area and along the shelf break in Baffin Bay will be retrieved, refit and redeployed. A new set of moorings will be deployed in the outer half of Cumberland Sound. Bottom set longline will be used to assess the distribution and relative abundance of commercially sized Greenland Halibut in inshore waters near Clyde River and Qikiqtarjuaq, Nunavut; fishing will not occur in Cumberland Sound. Longlines will be set for up to 12 hours; hooks will be baited with squid and the lines will be set on the ocean bottom. All captured fishes and invertebrates will be identified and the lengths and weights will be recorded for all Greenland Halibut and Arctic Skate. Tissue samples will be taken from a subset of specimens of all species (except SARA listed species and Greenland Sharks) for chemical tracer analyses to examine food web structure; gonad samples and morphometric measurements will also be taken from these individuals. VEMCO acoustic transmitters (V16s: http://www.vemco.com/pdf/v16cont.pdf) will be surgically implanted in the body cavities of captured and healthy Greenland Halibut (n=300), Greenland Sharks (n=60) and Arctic Skate (n=60). Surgical procedures and handling will be <5 mins to minimize stress to the animals. Greenland Sharks will be tagged from a zodiac, with the animals held parallel to the boat and just at the surface of the water. VEMCO acoustic monitors (VR2Ws: http://www.vemco.com/pdf/vr2w.pdf) that record the time and date of individual tagged animals (within >500 m of an individual monitor) will be deployed in arrays near Pond Inlet, Clyde River, Qikiqtarjuaq and in Cumberland Sound to track animal movements. Individual acoustic monitors will be secured using fixed 200lb weights, sub surface floats and an acoustic release mechanism that can be triggered the following year to retrieve monitors for data download. All non-retained animals will be returned to the water at the site of capture.

Français: L'objectif principal est d'améliorer notre compréhension des habitudes de déplacement et de l'écologie de la laimargue atlantique, du flétan du Groenland et de la raie boréale. Les individus de chaque espèce seront capturés à la palangre et marqués avec des étiquettes acoustiques qui permettent de suivre les animaux individuels. Les amarres de suivi des poissons déployées près de la rivière Clyde et de Qikiqtarjuaq, près de l'aire de conservation Disko Fan et le long du rebord du plateau continental dans la baie de Baffin seront récupérées, radoubées et redéployées. Un nouvel ensemble d'amarres sera déployé dans la moitié extérieure de la baie Cumberland. La palangre de fond sera utilisée pour évaluer la répartition et l'abondance relative du flétan du Groenland de taille commerciale dans les eaux côtières près de la rivière Clyde et de Qikiqtarjuaq, au Nunavut. La pêche n'aura pas lieu dans la baie Cumberland. Les palangres seront installées pour une durée maximale de 12 heures. Les hameçons seront appâtés avec des calmars et les lignes seront posées au fond de l'océan. Tous les poissons et invertébrés capturés seront marqués, et la longueur et le poids de tous les flétans du Groenland et des raies boréales seront consignés. Des échantillons de tissus seront prélevés sur un sous-ensemble de spécimens de toutes les espèces (à l'exception des espèces inscrites à la Loi sur les espèces en péril (LEP) et des laimargues atlantiques) pour des analyses de traceurs chimiques afin d'examiner la structure du réseau trophique. Des échantillons de gonades et des mesures morphométriques seront également prélevés sur ces individus. Des émetteurs acoustiques VEMCO (V16 : http://www.vemco.com/pdf/v16cont.pdf) seront implantés par intervention chirurgicale dans les cavités corporelles de flétans du Groenland capturés et sains (n = 300), de laimargues atlantiques (n = 60) et de raies boréales (n = 60). Les interventions chirurgicales et la manipulation prendront moins de 5 minutes pour minimiser le stress des animaux. Les laimargues atlantiques seront marquées à partir d'un zodiac, les animaux étant maintenus parallèlement au bateau et juste à la surface de l'eau. Des moniteurs acoustiques VEMCO (VR2W : http://www.vemco.com/pdf/vr2w.pdf) qui enregistrent l'heure et la date de l'identification des animaux (dans un rayon de plus de 500 m d'un moniteur individuel) seront déployés en réseaux près de Pond Inlet, de Clyde River, de Qikiqtarjuaq et dans la baie Cumberland pour suivre les déplacements des animaux. Les moniteurs acoustiques individuels seront sécurisés à l'aide de poids fixes de 200 lb, de flotteurs souterrains et d'un mécanisme de libération acoustique qui peut être déclenché l'année suivante pour récupérer les moniteurs pour le téléchargement des données. Tous les animaux non conservés seront remis à l'eau sur le site de capture.

Inuktitut: ᑐᕌᒐᓪᓚᑦᑖᖑᓂᐊᖅᑐᖅ ᐱᐅᓯᑎᑦᓯᒋᐊᕈᒪᓂᖅ ᐅᕙᒍᑦ ᑐᑭᓯᐅᒪᔭᖏᓐᓂᒃ ᓇᒧᑦ ᓅᑦᑕᐸᓐᓂᖏᒍᑦ ᐱᐅᓯᖏᓐᓂᒃ ᐊᒻᒪ ᐱᕝᕕᑎᖃᖅᑐᓂᒃ ᑲᓛᔅᓘᑦ ᓄᓈᑕ ᐃᖃᓗᔾᔪᐊᖓᓐᓂᒃ, ᑲᓛᔅᓘᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖏᑦ, ᐊᒻᒪ ᐃᓱᖓᐅᔭᐃᑦ/ᐊᒡᓕᕐᓇᐃᑦ.

ᐊᑐᓂ ᑕᒪᒃᑯᐊ ᐱᔭᐅᔪᑦ ᐃᖅᑲᖓᓃᑦᑐᓄᑦ ᐊᑦᑐᓈᑯᑖᓄᑦ ᐊᒻᒪ ᓇᓗᓇᐃᖅᑕᐅᕙᓪᓗᑎᒃ ᓂᐱᓕᐅᕈᑎᓄᑦ ᓂᕚᖓᑖᓄᑦ ᖃᐅᔨᓴᐅᑎᑦᓴᓂᒃ ᓂᕚᖓᑖᓕᖅᑕᐅᓂᖏᓐᓂᒃ. ᐃᖃᓗᓐᓂᒃ ᖃᐅᔨᓴᐅᑎᐅᔪᑦ ᕿᒪᑦᑕᐅᓯᒪᔪᑦ ᖃᓂᒋᔮᖏᓐᓂ ᑲᖏᖅᑐᓖᐱᐅᑉ ᐊᒻᒪ ᕿᑭᖅᑕᕐᔪᐊᑉ, ᖃᓂᒋᔮᖏᓐᓂ ᐖᔅᑯ ᕓᓐ ᐱᐅᖅᓯᐊᕐᕕᐅᑉ ᐊᕙᑎᐊᓂ ᐊᒻᒪ ᐃᖅᑲᖓᑕ ᑭᓪᓕᖓᒍᑦ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓᓂ ᐅᑎᖅᑎᑕᐅᓲᖅᑐᑦ, ᓄᑖᓂᒃ ᐱᓕᕆᔾᔪᑎᓂᒃ ᐋᖅᑭᑦᓯᕙᐅᓗᑎᒃ ᐊᒻᒪ ᕿᒪᑦᑕᐅᑲᓐᓂᖅᓗᑎᒃ. ᓄᑖᓂᒃ ᖃᐅᔨᓴᐅᑎᓕᐅᓲᖅᑐᑦ ᑎᓄᔾᔨᕙᒻᒥ ᐹᖅᐸᓯᐊᓄᑦ. ᐃᖅᑲᖓᓅᖓᔪᑯᑖᒥᒃ ᐊᑐᓲᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᓇᒧᖕᒑᕙᓐᓂᖏᓐᓄᑦ ᐊᒻᒪ ᐊᒥᓲᓂᖏᓐᓂᒃ ᑮᓇᐅᔭᓕᐅᕈᑎᐅᕙᑦᑐᑦ ᐊᖏᓂᕆᕙᑦᑕᖏᓐᓂᒃ ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖕᒋᑦ ᐃᒪᖏᓐᓂ ᖃᓂᑦᓴᖅᑐᓂᒃ ᑲᖏᖅᑐᓖᐱᐅᑉ ᐊᒻᒪ ᕿᑭᖅᑕᕐᔪᐊᑉ, ᓄᓇᕗᒻᒥ; ᐃᖃᓗᒐᓱᓲᖏᑦᑐᑦ ᐅᕙᓂ ᑎᓄᔾᔨᕙᒻᒥ. ᐊᑦᑐᓈᑯᑖᑦ ᐋᖅᑭᑦᑕᐅᓯᒪᓲᖅᑐᑦ 12 ᐃᑲᕐᖁᓄᑦ; ᓂᑦᓯᖏᑦ ᓂᕆᐊᖅᑲᓲᖅᑐᑦ ᓯᑯᐃᑦᓂᒃ ᐊᒻᒪ ᐃᖅᑲᖓᓅᖓᑎᑕᐅᓗᑎᒃ. ᐃᓘᓐᓇᑎᒃ ᐱᔭᐅᓲᖅᑐᑦ ᐃᖃᓗᐃᑦ ᐊᒻᒪ ᕿᒥᕐᓗᖅᑲᖅᑐᑦ ᐆᒪᔪᐃᑦ ᓇᓗᓇᐃᔭᖅᑕᐅᓲᖅᑐᑦ ᐊᒻᒪ ᑕᑭᓂᖏᑦ ᐱᔭᐅᓗᑎᒃ ᐊᒻᒪ ᐅᖁᒪᐃᓐᓂᖅᓂᐊᖅᑕᐅᓗᑎᒃ ᐊᒻᒪ ᑎᑎᖅᑕᐅᕙᓪᓗᑎᒃ ᐃᓘᓐᓇᖏᓐᓄᑦ ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖕᒋᑦ, ᐊᒻᒪ ᐃᓱᖓᐅᔭᐃᑦ/ᐊᓪᓕᖅᓇᐃᑦ. ᐊᒥᖏᓐᓂᒃ ᐊᒻᒪ ᓂᕿᖏᓐᓂᒃ ᐱᕕᐅᕙᓲᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᔪᑦᓴᓂᒃ ᐃᓘᓐᓇᖏᓐᓂᒃ ᐆᒪᔪᓂᒃ (ᐱᔭᐅᖏᓪᓗᑎᒃ ᐃᒫᒃ SARA ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪ ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᐃᖃᓗᔾᔪᐊᖓᓐᓂᒃ) ᐃᓚᐅᕈᑎᓄᑦ ᐳᓚᐅᖅᕕᐅᓯᒪᓪᒪᖔᑕ ᑎᒥᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᒐᔭᖅᑐᑎᒃ ᓂᕿᒋᕙᑦᑕᖏᑦ; ᕿᑐᕐᖏᐅᕈᑎᒋᕙᑦᑕᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓗᑎᒃ ᐊᒻᒪ ᐱᕈᖅᐸᓪᓕᐊᔪᓂᒃ ᐆᑦᑕᐃᕙᓪᓗᑎᒃ ᖃᓄᑎᒋ ᐱᕈᖅᐸᓪᓕᐊᕙᓐᓂᖏᓐᓄᑦ ᐱᔭᐅᕕᐅᕙᓐᓂᐊᖅᒥᔪᑦ ᑕᒪᒃᑯᐊ ᐱᔭᐅᔪᑦ. VEMCO ᓂᐱᓕᐅᕈᑎᓂᒃ (V16 ᓂᐱᓕᐅᕈᑏᑦ: http://www.vemco.com/pdf/v16cont.pdf) ᐃᓕᓯᖃᑦᑕᓲᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑎᒥᖏᑕ ᐃᓗᖏᓐᓄᑦ ᑎᒍᔭᐅᔪᑦ ᐊᒻᒪ ᐋᓐᓂᐊᖃᖏᑦᑐᓄᑦ ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖕᒋᑦ (n=300), ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᐃᖃᓗᔾᔪᐊᖓᓐᓂᒃ (n=60), ᐊᒻᒪ ᐃᓱᖓᐅᔭᐃᑦ/ᐊᓪᓕᖅᓇᐃᑦ (n=60). ᑲᒪᒋᔭᐅᓇᓱᑉᐸᓲᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑐᖔᓂ 5 ᒪᓇᑦᓯ ᐱᔭᖅᑯᖅᑐᓵᓗᐊᖅᑯᓇᒋᑦ. ᑲᓲᔅᓵᑦ ᓄᓈᑕ ᐃᖃᓗᔾᔪᐊᖓᓐᓂᒃ ᓂᕚᖓᑖᓕᖅᑕᐅᓲᖅᑐᑦ ᐳᓪᓕᓕᓪᒥᒃ ᐅᒥᐊᑲᓪᓕᓪᒥᒃ ᐊᑐᖅᓗᑎᒃ, ᐆᒪᔪᐃᑦ ᖁᓪᒧᐊᖓᑎᑕᐅᕙᓪᓗᑎᒃ ᐃᒫᓂ ᐊᒻᒪ ᐃᒪᐅᑉ ᖄᖓᓂᓕᓪᓕᖁᐃᒍᑎᒃ. VEMCO ᓂᐱᓕᐅᕈᑎᓂᒃ (VR2W ᓂᐱᓕᐅᕈᑏᑦ: http://www.vemco.com/pdf/vr2w.pdf) ᖃᐅᔨᓴᐅᑎᖃᕐᓗᑎᒃ ᓇᓗᓇᐃᔭᐃᓖᓂᒃ ᓯᕿᙳᔭᖓᓂᒃ ᐊᒻᒪ ᐅᓪᓗᖓᓂᒃ ᓂᕚᖓᑖᓕᖅᑕᐅᓯᒪᔪᑦ ᐆᒪᔪᐃᑦ (ᐃᓗᐊᓃᑦᑐᓂᒃ >500 m ᖃᐅᔨᓴᐅᑎᒥᒃ ᐊᑕᐅᓯᕐᒥᒃ) ᐃᓲᑯᑎᖅᑕᐅᓗᑎᒃ ᐱᓕᕆᔾᔪᑎᐅᖃᑦᑕᓲᖅᑐᑦ ᖃᓂᒋᔮᖏᓐᓂ ᒥᑦᑎᒪᑕᓕᒃ, ᑲᖏᖅᑐᓖᐱᒃ, ᕿᑭᖅᑕᕐᔪᐊᖅ ᐊᒻᒪ ᑎᓄᔾᔨᕙᒻᒧᑦ ᖃᐅᔨᓴᖅᑕᐅᕙᓪᓗᑎᒃ ᐆᒪᔪᐃᑦ ᓇᓕᐊᓐᓄᕋᖅᓂᖏᑦ. ᐊᑐᓂ ᓂᐱᓕᐅᕈᑎᓂᒃ ᖃᐅᔨᓴᐅᑎᖃᓲᖅᑐᑦ ᐊᑐᖅᓗᑎᒃ ᐋᖅᑭᑦᓯᒪᔪᓂᒃ 200 ᐸᐅᓐᓂᒃ ᐅᖁᒪᐃᓐᓂᓕᓐᓄᑦ, ᐃᒪᐅᑉ ᐃᑭᐊᖓᓃᓯᓄᑦ ᐳᑦᑕᖅᑯᑎᖃᖅᑐᑎᒃ ᐊᒻᒪ ᓂᐱᓕᐅᕈᑎᓂᒃ ᐱᓕᕆᔾᔪᑎᖃᖅᑐᑎᒃ ᓴᒃᑯᐃᓖᓂᒃ ᐃᒻᒥᓂᒃ ᐊᐅᓚᔾᔭᒍᓇᖅᑐᓂᒃ ᐊᖅᑯᑉ ᑭᖕᒍᓪᓕᐅᑉ ᐃᓗᐊᓂ ᖃᐅᔨᓴᐅᑏᑦ ᐱᔭᐅᔪᓐᓇᓕᕋᔭᖅᓯᓗᑎᒃ ᓂᐱᓕᐅᖅᓯᒪᓂᖏᑦ ᖃᐅᔨᓴᐅᑎᓂ. ᐃᓘᓐᓇᑎᒃ ᐱᓯᒪᔭᐅᖏᑦᑐᑦ ᐆᒪᔪᐃᑦ ᐅᑎᖅᑎᑕᐅᓲᖅᑐᑦ ᐃᒫᓄᑦ ᐃᓂᖓᓄᑦ ᐱᔭᐅᕕᒋᓚᐅᖅᑕᖓᓄᑦ.

Personnel

Personnel on site: 10
Days on site: 30
Total Person days: 300
Operations Phase: from 2025-08-03 to 2028-10-19

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years	Scientific/International Polar Year Research	Marine	Ocean Tracking Network moorings located in the area for more than 3 years.	N/A	Inside Hatton Basin Conservation Area
Outer half of Cumberland Sound; moorings located in area for last two years	Scientific/International Polar Year Research	Marine	Ocean Tracking Network moorings located in the area for last two years	N/A	Closest Community is Pangnirtung; inside the Cumberland Sound Turbot Management Area
NAFO Divisions 0A-0B border inside Davis Strait Conservation Area; moorings located in the area for 3+ years	Scientific/International Polar Year Research	Marine	Ocean Tracking Network moorings located in the area for more than 3 years.	N/A	Inside Davis Strait Conservation Area
Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years	Scientific/International Polar Year Research	Marine	Ocean Tracking Network moorings located in the area for more than 3 years.	N/A	Inside Hatton Basin Conservation Area

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Pangnirtung	Mark Kilabuk	Pangnirtung Hunters and Trappers Organization	2025-05-21

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Transboundary
South Baffin

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Pêches et Océans Canada	Licence to Fish for Scientific Purposes	Applied, Decision Pending		
Institut de recherche du Nunavut	NRI license to deploy moorings in Cumberland Sound	Applied, Decision Pending		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	Commercial air travel for field crew from Ontario to Nunavut, and return to Ontario	
Water	Transit of F.V. Kiviuq I from Newfoundland to Nunavut, research cruise in Nunavut for this project, transit of ship back to Newfounland at end of project.	

Project accomodation types

Autre,

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
Kiviuq 1	1	28.53	The Kiviuq 1 is a steel fixed-gear fishing vessel owned by Arctic Fishery Alliance. It is equipped with freezing at sea capabilities. The net tonnage of the vessel is 199.38. The maximal vessel speed is 12 knots. The Kiviuq is primarily used for marine research and delivers supplies to Arctic Fishery Alliance's owner communities during the summer months.

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Oil and lubricant products	hazardous	1	3000	3000	Gallons	2-20 gallons of oil and lubricant products are used on a daily basis for a vessel in the 25 meter size range.
Diesel	fuel	1	130000	130000	Gallons	On average a small research vessel fuel consumption is about 15-30 gallons per hour (this is dependent upon factors such as vessel size, speed and type of work occurring).

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Scientific/International Polar Year Research	Eaux grises	246 liters per day per person	Greywater will be released back into the marine environment in designated areas/zones where this is allowed. All marine transport laws will be followed. Greywater will include cleaning and rinsing of the vessel deck after sampling procedures are completed.	No additional treatment procedures are identified.
Scientific/International Polar Year Research	Dangereux	1-2% of heavy fuel oil used ends up as sludge	All oil and lubricant products used will be stored safely in appropriate containers and disposed of when the vessel reaches the home port. Disposal at port will follow provincial and federal guidelines for safe disposal.	No additional treatment procedures are identified.
Scientific/International Polar Year Research	Déchets non combustibles	1.4-2.3 Kg per person per day	All non-combustible waste will be stored on board the vessel and disposed when the vessel reaches a port. Disposal at the port will follow provincial/territorial and federal guidelines for safe disposal.	No additional treatment procedures are identified.
Scientific/International Polar Year Research	Mort-terrain (sol organique, déchets, résidus)	80-200 kg per long line set	Overburden (organic waste products from longlining) will be released back into the marine environment in designated areas/zones where this is allowed. All marine transport laws will be followed.	No additional treatment procedures are identified.

Scientific/International Polar Year Research	Eaux usées (matières de vidange)	30 liter per person per day	Sewage will be stored in a holding tank and released into the marine environment in designed areas where this is allowed. All marine transport laws will be followed regarding waste and dumping of waste.	No additional treatment procedures are identified.

Répercussions environnementales :

Environmental impacts are expected to be minor and reversible. Project activities are focused on releasing captured fish alive and in good condition, and minimizing impacts on habitats to minimize effects on fish movement and habitat selection behaviours.

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 de l'environnement existant : Environnement physique

Research will occur in marine waters outside any concentrations of sea ice. Marine areas are used by other vessels for transportation, commercial fishing (outside Conservation areas, where longlining will take place) tourism, military purposes.

Description de l'environnement existant : Environnement biologique

Marine biological community is considered healthy; commercial fisheries for Greenland Halibut and Northern and Striped Shrimp being sustainably managed.

Description de l'environnement existant : Environnement socio-économique

Cumberland Sound is a traditional hunting and fishing area for the community of Pangnirtung. Project activities, area and duration were co-developed with the Pangnirtung Hunters and Trappers Organization board.

Miscellaneous Project Information

N/A

Identification des répercussions et mesures d'atténuation proposées

No significant impacts anticipated; no mitigation measures developed.

Répercussions cumulatives

Significant cumulative effects with other human activities or climate change are not anticipated. Project is small in scale, occurs away from other human activities, and is focused on releasing caught fish alive and healthy, and minimizing impacts on marine habitats to obtain realistic data on fish movement and habitat use.

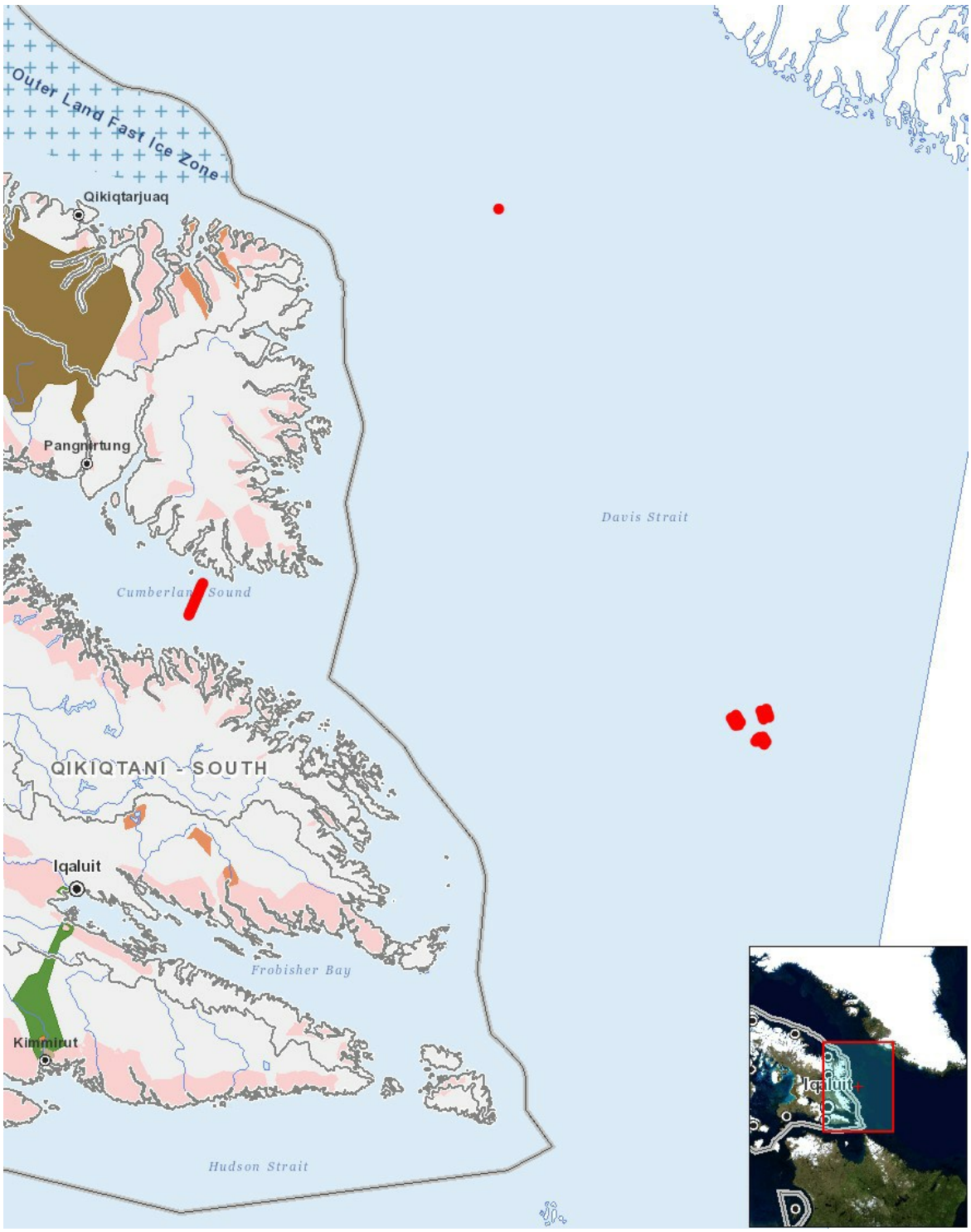
Impacts

Identification des répercussions environnementales

	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
Construction																									
-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-
Exploitation																									
Scientific/International Polar Year Research		-	-	-	-	M	-	-	-	-	-	-	M		-	-	-	M	M		-	P	-	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
2	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
3	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
4	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
5	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years

6	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
7	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
8	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
9	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
10	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
11	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
12	point	NAFO Divisions 0B-2G border inside Hatton Basin Conservation Area; moorings located in the area for 3+ years
13	point	Outer half of Cumberland Sound; moorings located in area for last two years
14	point	NAFO Divisions 0A-0B border inside Davis Strait Conservation Area; moorings located in the area for 3+ years
15	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
16	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
17	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
18	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
19	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
20	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
21	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
22	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
23	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
24	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
25	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
26	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
27	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
28	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
29	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
30	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
31	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years

32	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
33	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
34	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
35	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
36	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
37	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
38	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
39	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
40	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
41	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
42	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
43	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
44	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
45	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
46	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
47	point	Northern end of Hatton Basin Conservation Area; moorings located in the area for 3+ years
48	point	Outer half of Cumberland Sound; moorings located in area for last two years
49	point	Outer half of Cumberland Sound; moorings located in area for last two years
50	point	Outer half of Cumberland Sound; moorings located in area for last two years
51	point	Outer half of Cumberland Sound; moorings located in area for last two years
52	point	Outer half of Cumberland Sound; moorings located in area for last two years
53	point	Outer half of Cumberland Sound; moorings located in area for last two years
54	point	Outer half of Cumberland Sound; moorings located in area for last two years
55	point	Outer half of Cumberland Sound; moorings located in area for last two years
56	point	Outer half of Cumberland Sound; moorings located in area for last two years
57	point	Outer half of Cumberland Sound; moorings located in area for last two years
58	point	Outer half of Cumberland Sound; moorings located in area for last two years
59	point	Outer half of Cumberland Sound; moorings located in area for last two years
60	point	Outer half of Cumberland Sound; moorings located in area for last two years
61	point	Outer half of Cumberland Sound; moorings located in area for last two years
62	point	Outer half of Cumberland Sound; moorings located in area for last two years
63	point	Outer half of Cumberland Sound; moorings located in area for last two years
64	point	Outer half of Cumberland Sound; moorings located in area for last two years

65	point	Outer half of Cumberland Sound; moorings located in area for last two years
66	point	Outer half of Cumberland Sound; moorings located in area for last two years
67	point	Outer half of Cumberland Sound; moorings located in area for last two years
68	point	Outer half of Cumberland Sound; moorings located in area for last two years
69	point	Outer half of Cumberland Sound; moorings located in area for last two years
70	point	Outer half of Cumberland Sound; moorings located in area for last two years
71	point	Outer half of Cumberland Sound; moorings located in area for last two years