ᓄᓇᕗᒻ ᐊᐸᑎᓕᓵᔨᖅᑎᑦ ᑲᑎᒪᔨᖏᑦᑎᒍᑦ ᑐᓴᕐᕕᒃᑐᑦ ᖃᒥᖅᑐᕐᕕᒃᓴᖅ #126223

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

ᑐᖅᓯᖅᑐᑎᐅᔨᕗᖅ ᖃᓄᐃᑦᑐᓂᖅ:	New
ᐱᓕᓚᐊᓘᔭᐅᔨᒪᔨᑦ ᖃᓄᐃᑦᑐᓂᖅ:	Scientific Research
ᐅᓪᓗᖓ ᑐᖅᓯᖅᑐᑎᓕᐊᔾᔨᐅᔨᑦ:	Wednesday, August 27, 2025
Period of operation:	from 2025-07-25 to 2028-10-10
ᐱᓕᓚᐊᖃᕈᒪᔨᖅ:	Kevin Hedges Fisheries and Oceans Canada 501 University Crescent Winnipeg MB R3T 2N6 Canada ᐅᖃᓕᓂᐅᑎᑦ: 2047705814, ᓯᕆᔨᒃᑯᑦ:

ᑐᓴᐅᒪᔭᒃᓴᑦ

ᖃᓄᐃᑦᑑᑎᓂᒃ ᐱᓕᕆᐊᖃᕐᓂᐊᕆᐊᖓᓐᓂᒃ

ᖃᓪᓗᓈᑎᑐᑦ: 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.

ᐅᐃᕖᑎᑐᑦ: 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.

ᐃᓄᒃᑎᑐᑦ: ᑐᕌᒐᓪᓚᑦᑖᖑᓂᐊᖅᑐᖅ ᐱᐅᓯᑎᑦᓯᒋᐊᕈᒪᓂᖅ ᐅᕙᒍᑦ ᑐᑭᓯᐅᒪᔭᖏᓐᓂᒃ ᓇᒧᑦ ᓅᑦᑕᐸᓐᓂᖏᒍᑦ ᐱᐅᓯᖏᓐᓂᒃ ᐊᒻᒪ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᑲᓛᓪᓖᑦ ᓄᓈᑕ ᐃᖃᓗᔾᔪᐊᖓᓐᓂᒃ, ᑲᓛᓪᓖᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖏᑦ, ᐊᒻᒪ ᐃᓱᖓᐅᔭᐃᑦ/ᐊᒡᓕᕐᓇᐃᑦ. ᐊᑐᓂ ᑕᒪᒃᑯᐊ ᐱᔭᐅᔪᑦ ᐃᖅᑲᖓᓃᑦᑐᓄᑦ ᐊᑦᑐᓈᑯᑖᓄᑦ ᐊᒻᒪ ᓇᓗᓇᐃᖅᑕᐅᕙᓪᓗᑎᒃ ᓂᐱᓕᐅᕈᑎᓄᑦ ᓂᕕᖓᑖᓄᑦ ᖃᐅᔨᓴᐅᑎᑦᓴᓂᒃ ᓂᕕᖓᑖᓕᖅᑕᐅᓂᖏᓐᓂᒃ. ᐃᖃᓗᓐᓂᒃ ᖃᐅᔨᓴᐅᑎᐅᔪᑦ ᕿᒪᑦᑕᐅᓯᒪᔪᑦ ᖃᓂᒋᔭᖏᓐᓂ ᑲᖏᖅᑐᒑᐱᐅᑉ ᐊᒻᒪ ᕿᑭᖅᑕᕐᔪᐊᑉ, ᖃᓂᒋᔭᖏᓐᓂ ᑏᔅᑯ ᕚᓐ ᐱᐅᖅᓱᐊᕐᕕᐅᑉ ᐊᕙᑎᐊᓂ ᐊᒻᒪ ᐃᖅᑲᖓᑕ ᑭᓪᓕᖓᒍᑦ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓᓂ ᐅᑎᖅᑎᑕᐅᓛᖅᑐᑦ, ᓄᑖᓂᒃ ᐱᓕᕆᔾᔨᑎᓂᒃ ᐋᖅᑭᑦᓯᕕᐅᓗᑎᒃ ᐊᒻᒪ ᖃᒪᑦᑕᐅᑲᓐᓂᕐᓗᑎᒃ. ᓄᑖᓂᒃ ᖃᐅᔨᓴᐅᑎᓕᐅᓛᖅᑐᑦ ᑎᓄᔾᔨᕕᒻᒥ ᐹᖅᐸᓯᐊᓄᑦ. ᐃᖅᑲᖓᓅᖓᔪᑯᑖᒥᒃ ᐊᑐᓛᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᓇᒧᙶᕙᓐᓂᖏᓐᓄᑦ ᐊᒻᒪ ᐊᒥᓲᓂᖏᓐᓂᒃ ᑮᓇᐅᔭᓕᐅᕈᑎᐅᕙᑦᑐᑦ ᐊᖏᓂᓇᕙᑦᑕᖏᓐᓂᒃ ᑲᓛᓪᓖᑦ ᓄᓈᑕ ᖃᓕᕋᓕᖏᑦ ᐃᒪᖏᓐᓂ ᖃᓂᑦᓴᖅᑐᓂᒃ ᑲᖏᖅᑐᒑᐱᐅᑉ ᐊᒻᒪ

ᖃᑭᖅᑕᖅᓯᐊᕐᓴ, ᓄᓇᕗᓂᒥ; ᐃᖅᑲᓇᓱᓪᓚᕐᑐᑦᑐᑦ ᐅᕙᓂ ᑎᓄᐦᔨᕕᓂᒥ. ᐊᑦᑐᐃᓇᑦᑕᑦ ᐋᖅᑭᑕᑕᐅᓱᒪᓪᓚᕐᑐᖅᑐᑦ 12 ᐃᑲᖅᕿᓄᑦ; ᓂᑦᓱᖅᑐᑦ ᓂᓪᐊᖅᓪᓚᕐᑐᖅᑐᑦ ᓱᓕᐃᔪᓂᒃ ᐊᓂᒪ ᐃᖅᑲᖓᓇᕐᓚᑎᑕᐅᓪᓚᑎᒃ. ᐃᓕᓴᓇᑎᒃ ᐱᐅᐅᓪᓚᕐᑐᖅᑐᑦ ᐃᖅᑲᓇᐃᑦ ᐊᒪᒪ ᖃᑎᖅᓴᖅᖃᑦᑐᑦ ᐅᒪᔪᐃᑦ ᓇᓪᓇᐃᕆᖅᑕᐅᓪᓚᕐᑐᖅᑐᑦ ᐊᒪᒪ ᑕᑭᓂᖅᑐᑦ ᐱᐅᐅᓪᓚᑎᒃ ᐊᒪᒪ ᐅᖅᓄᓕᐅᓂᓂᕐᓂᓪᓚᑎᒃ ᐊᒪᒪ ᑎᑎᖅᑕᐅᓂᓴᓪᓚᑎᒃ ᐃᓕᓴᓇᖅᑐᓂᓪᓚᑎᒃ ᐃᓕᓴᓇᓕᕐᓂᑦ ᑲᓇᕐᓂᖅᑐᑦ, ᐊᒪᒪ ᐃᓱᖅᑐᐅᕆᐃᑦ/ᐊᖏᓕᓇᐃᑦ. ᐊᒥᖅᑐᓂᒃ ᐊᒪᒪ ᓂᖅᑭᖅᑐᓂᒃ ᐱᓇᓕᕐᓂᒃ ᐃᓕᓴᓇᓕᕐᓂᒃ ᐅᒪᔪᐃᑦ ᐊᒪᒪ ᐅᖅᑲᐃᕐᓱᓂᒃ ᐃᓕᓴᓇᓕᕐᓂᒃ ᐃᓕᓴᓇᓕᕐᓂᒃ (ᐱᐅᐅᓪᓚᑎᒃ ᐃᓕᑦ SARA ᑎᑎᕆᖅᑕᐅᓱᒪᔪᑦ ᐅᒪᔪᐃᑦ ᐊᒪᒪ ᑲᓇᕐᓂᒃ ᓄᓇᕗᓂᒃ ᐃᖅᑲᓇᐃᑦᑐᖅᓯᓂᒃ) ᐃᓪᐅᐅᑎᓄᑦ >ᓪᐅᕆᐃᐅᓱᒪᓖᓕᒫᑎᒃ ᑎᒥᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᑲᓕᕆᓪᓚᑎᒃ ᓂᕐᖓᒥᑎᒃ ᖃᓄᑎᒃ ᐱᑭᖅᐸᓪᓕᐊᔪᓂᒃ ᐅᑦᑕᐃᓭᓪᓚᑎᒃ ᖃᓄᑎᒃ ᐱᑭᖅᐸᓪᓕᐊᓭᓂᖅᑐᓄᑦ ᐱᓕᕐᓂᐊᕐᓂᖅᑐᓄᑦ ᑕᒪᐃᐅᐊ ᐱᓕᐅᔪᑦ. VEMCO ᓂᐱᓕᐅᑭᑎᓂᒃ (V16 ᓂᐱᓕᐅᑭᑎᑦ: http://www.vemco.com/pdf/v16cont.pdf) ᐃᓕᓴᖅᑕᓭᓕᖅᑐᑦ ᐅᒪᔪᐃᑦ ᑎᒥᖅᑎᑕ ᐃᓗᖅᑐᓄᑦ ᑎᑐᐅᔾᔪᐃᑦ ᐊᒪᒪ ᐊᓴᓂᐊᖅᖃᖅᑐᑦᓗᓄᑦ ᑲᓇᕐᓂᒃ ᓄᓇᕗᓂᒃ ᖃᓄᑕᓕᓕᖅᑐᑦ (n=300), ᑲᓇᕐᓂᒃ ᓄᓇᕗᓂᒃ ᐃᖅᑲᓱᐊᖅᖃᖅᑐᓂᒃ (n=60), ᐊᒪᒪ ᐃᓴᖅᑲᐅᕆᐃᑦ/ᐊᖏᓕᓇᐃᑦ (n=60). ᑲᒪᒋᐅᓴᓇᓴᐸᓇᖅᑐᑦ ᐅᒪᔪᐃᑦ ᑐᖅᑎᓂ 5 ᒪᓇᕐᓴ ᐱᔪᖅᓴᖅᑐᑕᐃᓗᓪᓚᐊᕐᓴᓇᑎᑦᑕ. ᑲᓇᕐᓂᒃ ᓄᓇᕗᓂᒃ ᐃᖅᑲᓱᐊᖅᖃᖅᑐᓂᒃ ᓂᕆᔨᓕᓕᖅᑕᐅᓇᖅᑐᑦ >ᓪᓕᓕᒥᒃ ᐅᒥᐊᖏᓪᒥᒃ ᐊᑐᕐᓂᒃ, ᐅᒪᔪᐃᑦ ᕿᓘᒧᐊᖅᖃᑎᒌᖅᑕᐅᓪᓚᑎᒃ ᐃᒪᓂ ᐊᒪᒪ ᐃᒪᐅᐸ ᖁᖅᖃᓱᓕᓇᓕᕆᖅᑐᑦ. VEMCO ᓂᐱᓕᐅᑭᑎᓂᒃ (VR2W ᓂᐱᓕᐅᑭᑎᑦ: http://www.vemco.com/pdf/vr2w.pdf) ᖃᐅᔨᓴᐅᑎᖅᑐᓂᒃ ᓓᓇᓓᐃᓴᐃᓱᓂᒃ ᓱᕈᖓᐃᖅᖃᓂᒃ ᐊᒪᒪ ᐅᓪᓗᖅᓂᒃ ᓂᕆᖏᖅᑎᓕᓪᓕᖅᑕᐅᓱᒪᔪᑦ ᐅᒪᔪᐃᑦ (ᐃᓗᐊᓂᑕᑐᓂᒃ >500 m ᖃᐅᔨᓴᐅᑎᒥᒃ ᐊᑕᐅᓱᕆᒃ) ᐃᓕᓯᑎᖅᑕᐅᓗᓪᓚᑎᒃ ᐱᓕᓀᔪᐸᑎᐅᖅᖃᖅᑕᑦᑕᓪᓚᕐᑐᖅᑐᑦ ᖃᓂᑎᕆᑕᓕᓀᓂ ᒥᑦᑎᒪᑕᓕᓀᓂ, ᑲᖏᖅᑐᑦᑐᓂᐱᓪᒃ, ᖁᑭᖅᑕᑦᔪᐊᖅ ᐊᒪᒪ ᑎᓄᐦᔨᓴᒪᒧᑦ ᖃᐅᔨᓴᐅᑎᖅᑕᐅᓪᓚᑎᒃ ᐅᒪᔪᐃᑦ ᓓᓕᐅᕐᓄᓐᓂᖅᑐᑦᑐᑦ. ᐊᑐᓂ ᓂᐱᓕᐅᑭᑎᓂᒃ ᖃᐅᔨᓴᐅᑎᖅᑕᐅᓱᒪᓕᒫᑦᑐᑦ ᐊᑐᑦᓗᓪᓚᑎᒃ ᐊᓂᑭᓕᔪᓂᒃ 200 <ᐅᓪᓂᒃ ᐅᖅᑐᒪᓪᓂᓪᓗᓂᑦ, ᐃᒪᐅᐸ ᐃᑭᐊᖏᓱᓕᓂᒃ >ᑦᑕᖅᑯᑎᖅᑐᓂᒃ ᐊᒪᒪ ᓂᐱᓕᐅᑭᑎᓂᒃ ᐱᓕᓀᔪᐸᑎᐅᖅᖃᓂᒃ ᐱᓴᑯᓕᓂᒃ ᐃᒪᒥᓂᒃ ᐊᐅᓪᓚᓴᓐᓇᖅᑕᑐᒃ ᐊᖏᔪᒪᓂᖅᑐᑦ ᐃᓗᐊᖅᑐᓂᒃ ᐊᖏᔪᒪᓂᖅᑐᑦ ᐱᓕᓀᔪᐸᑎᐅᖅᖃᓂᒃ ᓂᐱᓕᐅᑭᑎᓂᒃ ᐊᒪᒪ ᓂᐱᓕᐅᑭᑎᓂᒃ ᐱᓕᓀᔪᐸᑎᐅᖅᖃ

ᐱᓕᕆᐊᕆᐅᓂᐊᖅᑐᑦ

ᓇᒥ	ᖃᓄᐃᓕᑐᒥᑦ ᐱᓕᕆᐊᖃᖅᓂᐊᖅᐸ	ᑭᓱᑦ ᓄᓇᖏᑦᑕᓂ	ᑐᙵᐅᒪᔭᓴᑦ ᓄᓇᐅᓪ ᖃᑐᒃᐅᓪᓕᒪᔭᖅᓂᐊᖅᑐᓴᓂᓗ	ᐃᑦᙵᓂᑕᖃᖏᐊᐅᓪᓕᐅᖅᐸ ᐃᓄᖓᓄᑦ ᓇᐅᖅᑕᐅᖃᖅᑎᑦᑕᓂᓂᓗᒍ ᑕᐃᑦᓱᒪᓂᑐᐊᐅᓪᓕᐅᖅᑐᖅ	ᖃᓂᓗᓂᖅᓯᖅ ᓄᓇᑕᒋᔭᐅᔪᖅ ᐊᒻᒪᓗ ᓴᓪᒥᑎᓱᐊᐅᓪᓕᐅᒍᓗ ᓱᓇᓄᑦ
Fish tracking mooring	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
Fish tracking mooring	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
Fish tracking mooring	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
Fish tracking mooring	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

ᓄᓇᕗᑦᔨ ᐃᓕᐅᖃᑕᐅᓂᖏᓐᓄ ᓄᓇᓕᓪᓗ ᐊᐱᵇᑐᖅᓱᒪᐅᖅᓯᓂᖏᓐᓄᓚᓄᑦ ᐃᑲᔪᑕᐅᔪᓴᓐᓇᖅᑐᑦ

ᓄᓇᕗᑦᓴᖅ	ᐊᑎᑦ	ᑲᑐᔾᔨᐊᖃᖅᑎᑭᑦᓴᖅ	ᖃᓄᖅᑲᓂᓗ ᑐᑭᖅᑎᑕᐅᓪᓕᐅᖅᑐᓴᓂᓗ
ᐸᓐᓂᖅᑐᖅ	Mark Kilabuk	Pangnirtung Hunters and Trappers Organization	2025-05-21

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Transboundary
South Baffin

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ᑲᕿᒪᒋᐅᔨᓵᑦ ᐊᐃᒃᑐᓗᓯᒪᔨᓂᓂᓂ ᒪᓕᑦᓄᓵᒐᓴᓂᒃ ᐱᕆᔭᓵᓂᓴᓂᓗ ᖃᒪᓕᑦ ᐱᔪᖏᑕᑭᑎᓂᒃ ᓀᐃᓴᓵᓂᓴᓄᓗᓕᑦ	ᖃᓄᐃᑦᑐᓪᓚᓀᐅᕈᕿ ᓀᐃᓴᓵᓯᑕᑭᑎᔪᖅ ᐱᔪᖏᑕᑭᑎᔪᖅ ᐊᖏᕐᑕᐅᓯᒪᔪᖅ	ᐃᓚᖓ ᖃᓄᐃᑦᑐᓕᕿᓂᕿ	ᐅᓪᓗᒥ ᑐᓂᔭᖅ/ ᑐᓴᕐᓇᑕᐅᓪᓚᐅᕐᕕᖏᓐᓂᖅ	ᑭᓪᓕᖃᕐᓇᖅᓯᒪᓂ
ᖃᓇᑕᒥ ᐃᖃᓗᓪᓕᓴᐃᑦ ᑕᓇᐅᓪᓕᓴᓪᓗᑎᑦ	Licence to Fish for Scientific Purposes	Applied, Decision Pending		
ᓄᓇᕗᒻᒥ ᖃᐅᔨᓴᖅᑐᑦᓯᐊᓂᖅ	NRI license to deploy moorings in Cumberland Sound	Applied, Decision Pending		

Project transportation types

Transportation Type	ᓄᓇᒧᑦ ᐊᑐᑌᐅᓂᐊᖅᓯ	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.	
Land	Taxi in iqaluit between airport, hotel, and vessel at start and end of cruise	

Project accomodation types

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ᐊᖏᕐᕋᖅ ᐱᖅᓂᑦ ᐊᑐᖅᑕᐅᓂᐅᖅᑐᖅ ᖃᓄᐃᑦᑐᓴᖅᓯᒪ	ᖃᑦᓯᐅᐊᓕᑦ	ᐊᖏᕐᓂᖏᕐᒥᑦ - ᐳᖅᑐᓂᖏᕐᒥᑦ	ᓯᖓᒪᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᐸ
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.
Internal electronic tag (V16, Innovasea Inc.)	420	56 mm long	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.
Fish tracking moorings	70	14 m tall	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 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. Instruments will also record water temperature, salinity, and depth.
Longlines	20	1.5 km long	Bottom set longlines 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.

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ᓯᓚᒪᑦ ᐅᖅᓯᐅᓴᕐᕋᐊᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᐸ	ᖃᓄᐃᑦᑐᓴᖅᓯᒪᓕᕆᓂᐅᖅ ᐅᖅᓯᐅᓴᕐᕋᐊᖅ	ᖃᑦᓯᐅᐊᓕᖅᑐᑎᑦ ᐅᖅᓯᐅᓴᖅᑎᐅᑎᑦ	ᐃᓕᖅᐅᐸ ᐃᒪᖅᑎᑎᕐᓚᕐᓂᖏᕐᓴᒪ	ᑲᑎᓪᓗᒍ	ᐃᓕᖅᐃᑦ ᐊᒥᓱᓂᖏᕐᒥᑦ	ᓯᓚᒪᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᐸ
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).
Silicone grease	hazardous	1	0.15	0.15	Liters	Waterproof seals on moored instruments (VEMCO monitors, acoustic releases, conductivity-temperature-depth instruments)

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Scientific/International Polar Year Research	ᐃᒪᐃᑦ ᐊᑐᖅᑕᐅᔾᔨᓇᖅᓯᒪᔪᑦ	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	ᐊᑦᑕᓇᖅᑐᖅ	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	ᐊᐳᑕᑾᑦ ᐃᓂᐊᓪᑕᐅᐳᓴᓇᖅᑎᑦᑐᑦ	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	ᐅᔾᕿᐃᔾᐃᓂᖅ ᓄᓇᒥᑦ ᓄᑎᑕᓂᖅ ᐊᑐᐸᐅᓴᓇᓴᐲᖅᑎᑦᑐᓂᑲ, ᓇᓚᕐᓗᓂᑲ	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	ᖃᓂᖅᑕᑦᑕᓂᖅ	30 liter per person per day	Sewage will be stored in a holding tank and released into the marine	No additional treatment procedures are identified.

			environment in designed areas where this is allowed. All marine transport laws will be followed regarding waste and dumping of waste.	

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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

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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.

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

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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

This application was edited to respond to questions provided by email on 2025-08-27:•Clarify if the scientific crew will be staying in accommodations in Iqaluit before and after the research activities.oI have checked the “community” box under accommodations, checked the “Land” transportation box too and add a note there about taxis between airport, hotel, and ship.•Provide a list of equipment used for these research activities. Only the research vessel was listed in the equipment list.oInternal electronic tags, fish tracking moorings, and longlines were added under “Equipment” on the “Material Use” page.•Provide a list of chemicals that would be used in the research activities.oSilicone grease used to coat o-rings in mooring components was added under “Hazardous Materials and Chemicals Use” un the “Materials Use” page.oAs per the approved Animal Use Protocol for this research, anesthetics and analgesics will not be used as the animal handling time will be minimal with external tagging that likely causes only acute, brief discomfort to the animal. Therefore, no additional chemicals added.•Has the RV Kiviuq been included in other research activities in Nunavut? That is, has it been previously assessed by the NIRB?oThe FV Kiviuq has previously been used for research activities in Nunavut conducted by Arctic Fisheries Alliance and the Marine Institute, but I do not know if the ship was previously assessed by NIRB.

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No significant impacts anticipated; no mitigation measures developed.

Cumulative Effects

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

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	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
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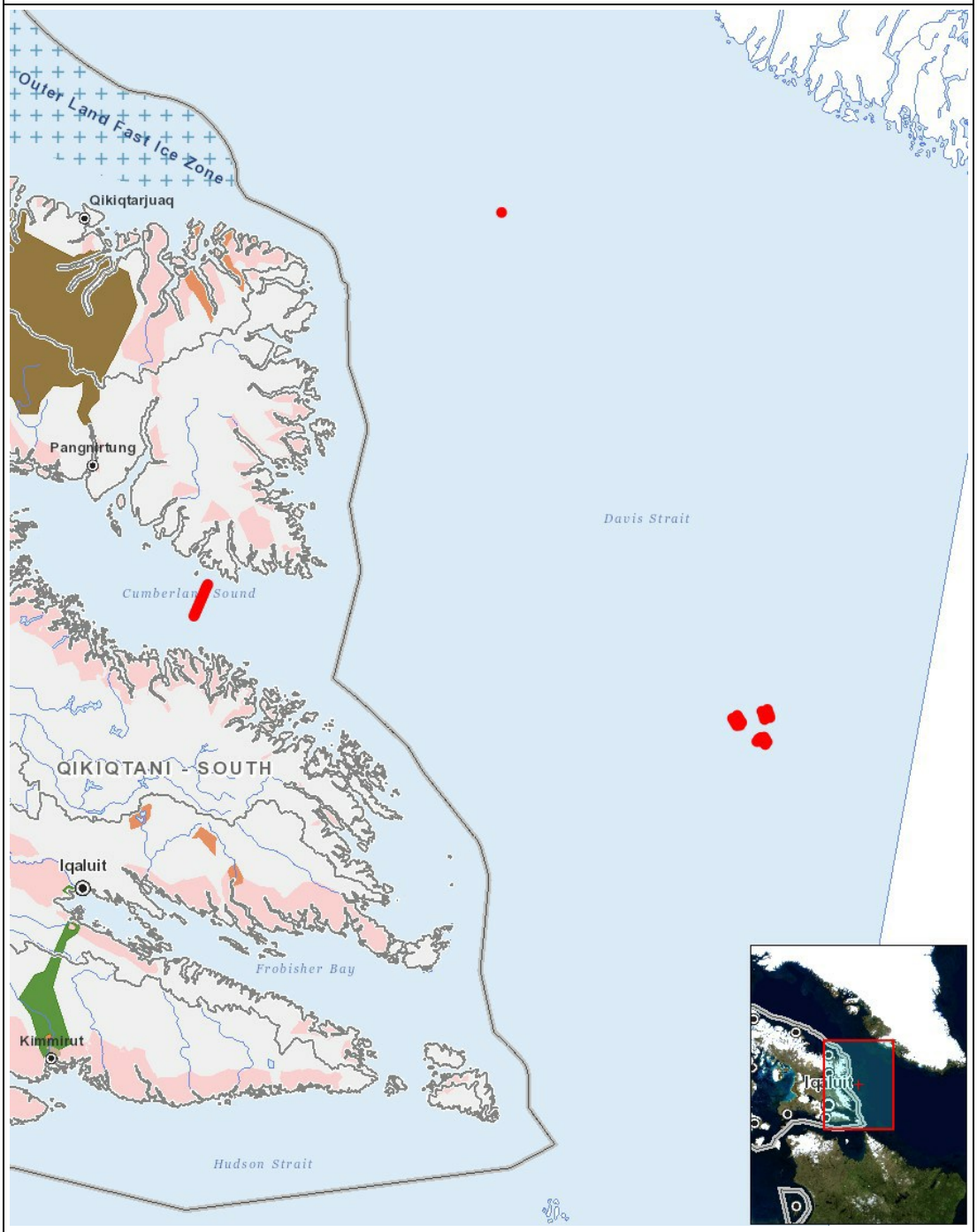

List of Project Geometries

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