



ມୋହ୍ର ଏକୁସାନ୍ତେଜ୍ ବୁଲଟିଙ୍ଗ୍ ଉପରେ କେମ୍ବାଜ୍ ଯୁଗ୍ମିତିକ୍ ନାମିତିକ୍ #125793

High Arctic Cetacean Survey 2023

କେମ୍ବାଜ୍ କ୍ଷେତ୍ରରେ ନେମାଦିନୀରେ: New

ଅଧିକାରୀ କାର୍ଯ୍ୟକ୍ରମରେ
ନେମାଦିନୀରେ: Scientific Research

ମୁଦ୍ରା କେମ୍ବାଜ୍ ବୁଲଟିଙ୍ଗ୍ ଉପରେ: 4/6/2023 3:43:35 PM

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

ବ୍ୟାପକ କାର୍ଯ୍ୟକ୍ରମରେ: from 0001-01-01 to 0001-01-01

ଅଧିକାରୀ କାର୍ଯ୍ୟକ୍ରମରେ:
Cortney Wheeler
Fisheries and Oceans Canada
501 University Crescent
Winnipeg Manitoba R3T 2N6
Canada
ମୋହ୍ର ନାମିତିକ୍: 12044510087, ମୋହ୍ର ନାମିତିକ୍:

፳፻፲፭ ዓ.ም. ሌጭ ተስፋይ እና ሌጭ ተስፋይ

A survey of narwhal, beluga and bowhead whales will be conducted in the Canadian high Arctic in August 2023. The last survey of all the narwhal stocks simultaneously occurred in 2013 and since then, there is further research which supports potential movement of narwhals among previously defined summering regions. As a result, surveys of all the stocks within a short period of time is needed. The survey will cover areas previously surveyed for these stocks in 2013, while incorporating information and knowledge from the communities Hunters and Trappers Organizations that was sought during a scoping meeting in January 2020, and satellite telemetry of narwhals from 2012-2018 to determine high-use areas. Surveys will be flown in a DeHavilland Twin Otter (DH-6) equipped with bubble windows and a camera hatch at the rear. Overlapping photographs will be taken along transect lines from an altitude of 610 m (2000 ft). Two camera systems will be installed in the twin otter camera hatch. Each system will consist of a Nikon D850 camera, a Garmin GPS unit and a laptop computer. Geo-referenced images will be saved on the laptop in real time and analyzed for all marine mammal sightings after the survey. This survey will provide updated abundance estimates for all the Canadian Baffin Bay narwhal stocks, Cumberland Sound beluga whales, and Eastern Canada- West Greenland bowhead whales. Updated abundance estimates are needed to ensure sustainable harvests in Nunavut.

Une enquête sur le narval, le béluga et la baleine boréale sera menée dans le Haut-Arctique canadien en août 2023. La dernière étude de tous les stocks de narvals simultanément a eu lieu en 2013 et depuis lors, d'autres recherches soutiennent le mouvement potentiel des narvals entre les régions d'estivage précédemment définies. Par conséquent, il est nécessaire d'effectuer des enquêtes sur tous les stocks dans un court laps de temps. L'étude couvrira les zones déjà étudiées pour ces stocks en 2013, tout en incorporant les informations et les connaissances des organisations de chasseurs et de trappeurs des communautés qui ont été demandées lors d'une réunion de cadrage en janvier 2020, et la télémétrie par satellite des narvals de 2012 à 2018 pour déterminer les zones à forte utilisation. Les relevés seront effectués à bord d'un DeHavilland Twin Otter (DH-6) équipé de fenêtres à bulles et d'une trappe à caméra à l'arrière. Des photographies se chevauchant seront prises le long des lignes de transect à une altitude de 610 m (2000 ft). Deux systèmes d'appareil photo seront installés dans la trappe de l'appareil photo du Twin Otter. Chaque système sera composé d'un appareil photo Nikon D850, d'une unité GPS Garmin et d'un ordinateur portable. Les images géoréférencées seront sauvegardées sur l'ordinateur portable en temps réel et analysées pour toutes les observations de mammifères marins après l'étude. Cette étude fournira des estimations d'abondance actualisées pour tous les stocks canadiens de narvals de la baie de Baffin, les bélugas de la baie de Cumberland et les baleines boréales de l'est du Canada et de l'ouest du Groenland. Des estimations actualisées de l'abondance sont nécessaires pour garantir des récoltes durables au Nunavut.

Δμ^θΠ]^θ: ήδη ταξιδεύει στην περιοχή της Κύπρου, όπου συναντά την ομάδα της Δημοκρατίας της Κύπρου. Η ομάδα της Δημοκρατίας της Κύπρου αποτελείται από μέλη της Εθνικής Αρμόδιας Υπηρεσίας για την Προστασία της Εθνικής Στρατηγικής Στολής (ΕΑΣΤ) και της Εθνικής Αστυνομίας της Δημοκρατίας της Κύπρου. Το μέλλον της συνάντησης δεν είναι γνωστό.

Inuinnaqtun: Naunaiyautit tuugait, arvit arvillu havaktauniaqtut uvani Kanatami anginiqhakkut Ukiuqtaqtumi uvani Niqiliqivik 2023. Kinguliit naunaiyautit tamaita tuugadjat tamayait attautimiitut uvani 2013mi talvanganlu, piqaqtuq hivumut ihiviugutinik kitut ikayuutauyut ingutaaqniqmik kiklinik kinguani naunaiyaghimayut auyami aviktungnii. Talvuuna, naunaiyainig tamainnik piqarninnga

naittumik ikaarnimik ihariagiyaayuq. Naunaiyautit pidjutiginiaqtait kitut kinguani naunaiyaqtauyut hapkununga pihimayainun uvani 2013mi, ilaUBLUGIT Kangiqhidjutit uvalu ilihimayatik hapkunanga nunallaani Anguniaqtit Katimayiit tapkua qiniqtauyut katiimatilugit uvani UBLUQTUHIVIA 2020, uvalu satellite telemetry natqait hamanga 2012-2018 ihumaliugutikhat angiyumik-atungnikkut nayugait. Ihivriudjutikhangit tingminiaqtun talvani DeHavilland Twin Ottermi (DH-6) piqaqtun puptalaanik igalaarnik piksaliurutmiklu piksaliurutmik. Qaliriiknigit piksat piyauniaqut nalruyunik 610-miitamik (2000 ft). Malruk piksaliutit auladjutait iliuraqtauniaqtut uvani twin otter piksaliut. Tamangnik hanaqidjutikharnik piqarniaqtun Nikon D850nik piksaliurutmik, Garmin GPSnik iglukharnik qaritauyangniklu qaritauyangnik. Nunamiutanik ilidjuhikgivakgainik piksaliukhimayunik tutkikhaktaulutik mikharut laptop nik havakhikhimayunik uvunalu kinikhianikmun ihiviuktauyukhanik tamainik taryumiutanik nirgitinik takungnakpaktukhanik talvanga ihiviukhinikmun naunaiyainikmun naunaitkutakanik. Una naunaiyaut tunihiniaqtuq nutaanguqtihimayunik amigainiit itqungniarutit tamainun Kanatami Qikiqtaalungmi narwhalnik, Cumberland Soundmi qilalukkat, kivataanilu Kanatami-Kalaaliit arvit. Nuutaanguqtihimayut amigaitilaangit nallautiqhimayut piqaqtukhat naunaiyaiyangat atuqtauhmaagiaqaqtunik anguniaqtakharnik Nunavunmi.

Personnel

Personnel on site: 16

Days on site: 22

Total Person days: 352

Operations Phase: from 2023-08-04 to 2023-08-25

Δε-Δε-Δε-Δε-Δε-Δε

Δε	Δε-Δε-Δε-Δε-Δε-Δε	Δε	Δε-Δε-Δε-Δε-Δε-Δε	Δε-Δε-Δε-Δε-Δε-Δε	Δε-Δε-Δε-Δε-Δε-Δε
Jones Sound	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A	N/A	Grise Fiord, Nunavut
Norwegian Bay	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A/	N/A	Grise Fiord, Nunavut
Foxe Basin	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A	N/A	Sanirajak, Nunavut
East Baffin Island/Somerset	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A	N/A	Resolute Bay, Arctic Bay, Pond Inlet, Clyde River, Qikiqtaulik, Pangnirtung, Taloyoak

Δε-Δε-Δε-Δε-Δε-Δε

Δε-Δε-Δε-Δε-Δε-Δε	Δε-Δε-Δε-Δε-Δε-Δε	Δε-Δε-Δε-Δε-Δε-Δε	Δε-Δε-Δε-Δε-Δε-Δε
Clyde River	James Arreak	Nangmautaq Hunters and Trappers Organization	2022-12-21
Amy Barnabas		Ikajutit Hunters & Trappers Association	2022-12-21
Lizzie		Sanirajak Hunters and Trappers Association	2022-12-21
Jennifer		Mittimatalik Hunters & Trappers Organization	2022-12-21
Martha Nuqingaq		Nattivak Hunters & Trappers Organization	2022-12-21
Nancy Amarualik		Resolute Bay Hunters & Trappers Organization	2022-12-21
Mark Kilabuk		Pangnirtung Hunters & Trappers Organization	2022-12-21
Louisa		Iviq Hunters & Trappers Association	2022-12-21
Jimmy Oleekatalik		Spence Bay Hunters and Trappers Organization	2022-12-21

ՀԱՅՈՒԹԻC ԱՐՅՈՒԹՈՒՆ ԳՐՈՒԹԿԸ

Transboundary

Kitikmeot

Kivalliq

North Baffin

South Baffin

ՀԱԿԱՔՆ ԱՅՋԵՐՈՒ ԳՐԱԾՈՒՅՑ

Project transportation types

Transportation Type	Description	Length of Use
Air	Twin otters will be used to fly systematic survey lines.	

Project accommodation types

፭፻፲፯

አዲሱ ፍቃድ የሚገኘውን ምርመራ በዚህ አገልግሎት የሚያስፈልግ ይችላል

በበኩረምናውን የኩረምናውን ምርመራ በኩረምናውን የኩረምናውን ምርመራ

የኢትዮ ድንብ አገልግሎት ፋይናስተዳደርና	የመልካምና የማረጋገጫ	የከፍል የማረጋገጫ	ሻኬሻ ΔLb6 በጥቅምትና	በበት	ሻኬሻ ፈጥሮች	የኢትዮ ፈይናስተዳደርና
Aviation fuel	fuel	45	205	9225	Liters	Fuel will be cached by PCSP at airstrips prior to the survey.

ΔΛ ۶۶ ፭፻ ۶۶ C>RԼ ۶۶ C ۶۶

▷ ስር ተስፋ አንቀጽ ማስተካከል	የዕለታዊ ምክንያት	አዋጅ ምክንያት
0		

◀^b C d^c

$\triangle^b C \dot{d} \subset n \sigma \triangle^b \sigma^{-b}$

አር-\ፋኑ-\ፌት-\ፌት-\ፌ	የ-\ፌ-\ፌ-\ፌ-\ፌ-\ፌ	የ-\ፌ-\ፌ-\ፌ-\ፌ-\ፌ	የ-\ፌ-\ፌ-\ፌ-\ፌ-\ፌ	የ-\ፌ-\ፌ-\ፌ-\ፌ-\ፌ
Aerial surveys	‘d ‘C ‘n ‘s ‘b	5L	Left on the land	People may need to go to the washroom while landing to refuel.

There will be no environmental impacts on the land as we will use already demarcated landing strips where fuel is regularly cached. There will be minimal noise disturbance to wildlife as we fly at an altitude of 1000-2000ft.

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

Ł°a ፲፻ሺ፻ ዓመልካርናኝነዱሮች፡ ምዕራቅ ዓመልካቸው

Ł°a ፲፻ሺ፻ ዓመልካርናኝነዱሮች፡ ደረጃውን አስተዳደር

Ł°a ፲፻ሺ፻ ዓመልካርናኝነዱሮች፡ ሆኖም በኋላ ስራውን አስተዳደር

Miscellaneous Project Information

አጠቃላይ ጥሩ የሚከተሉት ዓመልካቸው በኋላ ስራውን አስተዳደር

Cumulative Effects

Impacts

የጋዢልናርድሮስና ፈቅርበት ተመርምሪቱ እና ተመርምሪቱ

$$(P = \Delta b D \Delta P \cap \Delta a \Delta b C, N = \Delta b D \Delta P \cap \Delta C \Delta a \Delta b C, L = \Delta C \Delta P \cap \Delta a \Delta b C, M = \Delta b D \Delta P \cap \Delta C \Delta a \Delta b C, U = \Delta b D \Delta P \cap \Delta a \Delta b C)$$



List of Project Geometries

1	polyline	Jones Sound
2	polyline	Norwegian Bay
3	polyline	East Baffin Island/Somerset
4	polyline	Foxe Basin

