



Institute of Ocean Sciences Institut des Sciences de la Mer

9860 West Saanich Road
Sidney, B.C. Canada
V8L 4B2

9860 West Saanich Road
Sidney, B.C. Canada
V8L 4B2

12 January 2022

Mosha Cote
Research liaison
Nunavummi Qaujisaaqtulirijikkut/Nunavut Research Institute (NRI)
Iqaluit, NU
X0A 0H0

Chairperson
Nunavut Impact Review Board (NIRB)
P.O Box 1360
Cambridge Bay, NU
X0B 0C0

TALVUUNA: Qauyihaiyut Laisiutaat #04 013 21R-M 2021 Ukium Nunngutaanut
Naunaitkutat 2022-milu Parnaiyautit.

Halu NRI-kut, NIRB-kut ilauyumayullu,

Una titiraq pihimalugu naunaitkutariyaqqut 2021-mi taryumik qauyihaipluta Qitiqmiut taryuanik, ataagut taamna amihunik ukiunik atuqtauyughaq NRI-kut laisiutaat **#04 013 21R-M**. Una titiraq ilittuqhitiyuqtauq parnaiyautiptingnik 2022-mi havakvighaptingnik, iniqtauyughat ataagut atahuq laisiutik.

Hivuanit havaaptingnit hamani aviktuqhimayumi, qauyihaipluta ilitturivaallirumayaqqut taryuq Qitiqmiuni qauyihaqlugillu qanurininganiit taryumut kuugaqmit harvaqtumit tagyaaqmilla-avugiiktut immat nirukilruni ikkalrunilu ikirahangnit. Qauyihaqpaktavut taryuq naunaitkutaliurumapluta nayugainik, nauyunik, avugiingniiniklu naunaitkutanik aviktuqhimayumi tamaat qauyihaiplutiklu ikirahangnit kangiqhungnilu umayuqaqpallianahugiyaptingnit.

2021-mi Ukium Nunngutaanut Naunaitkutat:

Mamianaqtuugaluaq, aullaariamik ayuqhautiqaqtut huli qalakyuarnaq-19-mut talvuuna umiaqmit-havaghutik qauyihaiyaamik talvani RV Martin Bergmann-mit 2021-mi. Kihimi ungavaihimayugut ayuqnaittumik malrungnik atuqtaughaaqtunik kihaqhimayunik talvani Dease Ikirahaanit imaqliighaaqtunik 2019-mit. Hapkua ungavaqtauhimayut umiaqtuqtunit talvani Sir Wilfrid Laurier havaktillutik taryumi August 10-mi, 2021. Tamangnik qauyihautit humaanngittut hanaqiyauniaqhutik ukiumi kihaqtitauqtaungmiyughat 2022-mi. Havaqatigivaktaqquttauq ikayuqtivut Iqaluktuuttiaqmi Qurluqtuqmilu qauyihaiyaamik kuukkanik tingmitjallu nayugainik. Mamianaqtuqtauq taimaa parnaiyaqhimayaqqut havaaghut

nutqaqtitauvaktut hilalungnirmiit Qalakyuarnaq-19-miluunniit qaffiiqhutik. Havaqativut qauyihaifi pulaaqhimayuq Qurluqtuqmut September 2021-mi havaqatigiyamik kivgaqtuyut Anguniaqtinit parnaiyaiyaamik qauyihaiyughanik Qurluqtum Kuugaanik talvanilu Iluilingmi ukiumi aullaqtitauyughaq (naunaitkutat ataaniittut).

2022-mi Parnaiyautit:

Umiaqmit-havaghutik Taryumit Qauyihaiyut: Aullaanginnarianikkumik Nunavunmut auyami 2022-mi, kihagtittiyumayugut qauyihautinik imaqmiklu qauyihaileta umiaqmit talvanngat CCGS Sir Wilfrid Laurier talvanngalluuniit R/V Martin Bergmann. Hapkua havaariyauniaqtut talvani Ungahitangmi, Iluilingmi, Qingaungmi, Queen Maud Ikrirahaanit, talvanilu Icebreaker Ikrirahaanit, huliyaghaqaqpallaangitpat, aullaarumayut talvunga Chantry Kangiqhuanut (St. Roch taamnalu Rasmussen Ikrirahait), takughauyutut Piksaut 1-mi. Ihumagilluaqtaqqut 2022-mi taimaa havaghimmaariamik havaaghanit aullaqtitauhimayut 2017-2019-milu, talvuuna, qauyihaiyaghraqqut, qauyihautit, havaauhiillu aajjikkutauniaqtut hivulliqmit tughirautinit.

Umiaqmit-havaaghat taryumi qauyihaiyunut aullaqtitauniaqtut akunngani August 1 2022, September 30-lu 2022-mi, taapkualu havaqatighat titiraqhimayut Naunaitkutaaq 2-mi ataani. Tughirautauhimayut havaaghat 2022-mi taapkuanguyut: a) ungavailutik kihagtittiffaaqlutiklu qauyihautinik atuqtaughaaqtughanik; taimalu b) qauyihailegit pitquhiit avugiignillu taryuq alruyaqtuqtunik qauyihautinik atuqhutik kivipkaihimayunik umiaqmit imiqtaqhetik qauyihaqtughanik. Titiraqhimayutut hivulliqni tughirautinit, kihagttaghais ingirlutit tunngaviqarniaqtut ungavaqpagiamik immap iluani kihaqhimayughat taryum natianit taimaa ungahiaqluni 15m-nik immap qaanganit. Aippariit kihaqhimayughat qauyihautilgit harvam hakugingnianik qauyihaiaamik hikuplu hilingnianik qauyihaqtaqhtiklu immap niklamanianik taryuqarnianik qunngiaqhugillu qauyihaqtait (qaumania, qaummarngnia, marlingania, qanuqlu).

Nunallaarnit-aullaqtihimayut Taryumik Qauyihaiyut: Havaqatiginiaqhimayaqqut ikayuqtivut Qurluqtuqmi, Qingaungmi, Iqaluktuutiaqmilu qauyihaiaamik havaklutik 2022-2023-mi. Talvanitut 2021-2022-mi, havaqatigihimmaarahuaqtaqqut taapkua Qurluqtuqmi Anguniaqtit Naniriaqtuqtillu Katimayiit taapkualu Kaniitian Anguyaktit Ikayuqtuit Taryuqmi Naahuriyut katitiriamik ukiumit naunaiqhimaliqtainik kuukkamit taryumut aallatqiinggaq talvanngat Qurluqtum Kuugaanit talvunga Coronation Ikrirahaanit. Qauyihaiplutik katitiriniaqtut naunaiqhimaliqtainik pitquhiinik avugiingniiniklu atuqhutik tunngavilingnik qauyihautinik Qurluqtuqmi havaklutik upinngaghama (February 2022) ukiuraaluk March-mut aippaagunnguqqat 2023-mi. Tallimaiqlutik 6-nikluuniit qauyihaqtughanik katitirilutik ukiuq atuqtillugu, hila nakuukpat aullaariamilu nangiarnaitpat. Ukiumi qauyihaivangniat sikiitukkut auyamilu havaklutik qayaqtuqhetik.

Havaqatiginiaqhimayaqqullu taapkua Qingaungmi Anguniaqtit Naniriaqtuqtillu Katimayiit upinngaami kuukkamit-taryumut imaqmik qauyihaiaamik Ayapapaktuq Kuugaanit Burnside Kangiqhua haniani. Hapkua havaaghakkut titirarumayut naunaiqhimaliqtainik hanguyumik pitquhiqtut (niklamanianik taryuqarnianiklu, itinianiklu) avugiingniillu (niqautit, alkaline,

nauyut paungit, avugiiktut uumaqutit) nanminiiniklu talvani kuukkam qaqhuanit talvunga kangiqhuanut hikuiqtinnagu.

Ukiumi munarivangniaqtaat taryum qanurininganiit Dease Ikirahaanit taapkua nunallaarmiutat ikayuqtuit Iqaluktuuttiqaqmit, nangiarnaiqqat aullaariamik taryumi. Aullaqviginiaqtaat ikaqlugu Dease Ikirahaat Kinngaaryungmit talvunga Itipliaryungmut talvungalu Ungahitangmut. Hapkua aullaaqtaghait taryumi qauyihaqviginiaqtait hanguvianit hikukkut naunaiyariamik ukiumi qanurininganiit immap niklamania, taryuqarnia, avugiiktullu uumaqutit katiqhugait.

Havakvighaqquut ukiuraaluk aulaniaqmat, tughiraqtugut taimaa qauyihainiqmut laisiutiplingnit katitiriamik havaklutik talvani qulaani taihimayunit aviktuqhimayunit January 2022-mit December 2022-mut.

Ilttuqhitit:

Qauyihaivaktugut atuqhugit taryuliqiyit ingilrutait ukiuraaluklu kihaqhimayukkut ihivriuriamit taryumiutat Qitiqmiut Taryutaanit, harvaqlu kuukkam imautaanit talvunga taryuqmut, tagyaqtullu nirukittunit ikirahangnit. Ilihimattiarumayaqqut harvait havaangillu aviktuqhimayumi umayut, taimaa NRI-kut taapkualu Kanatami Ukiuqtaqtumi Qauyihaqviat ayuqnaqtunik ilihimayaghanik hivituyumik umayuutinik taryuqmik munaqhiyaamik qauyihaiyaamiklu.

Quanaqpiaqquhi ikayuqpakkaffi ihivriuqtaptingnik uqauhiqaruffilu tuharumainnaqtugut, pitquhimayunik, ihumagiyaptingniklu qauyihaqtut mighaagut. Quviahuinnaqtugut kiuhiyaamik apiqhuutinik, hivayaqluta ihuariyakkut. Havaqatigiyamik 2022-mi naahurittiaqqugut.

Titiraqtunga,



Dr. Bill Williams - Research Scientist

Fisheries and Oceans Canada

Ocean Sciences Division

Institute of Ocean Sciences

9860 West Saanich Road

Sidney, BC

V8V 4L1

Tel: (250) 363-6343

Fax: (250) 363-6690

Email: Bill.Williams@pac.dfo-mpo.gc.ca

Kivgaqtuqhugit havaaghanit ikayuqtigiit-PI-nguyut:

Bodil Bluhm, Professor, University of Tromso, Norway
Email: bodil.bluhm@uit.no

Kristina Brown, Research Scientist, Fisheries and Oceans Canada, Institute of Ocean Sciences
Email: Kristina.Brown@dfo-mpo.gc.ca

Eddy Carmack, Emeritus Research Scientist, Fisheries and Oceans Canada, Institute of Ocean Sciences, Email: Eddy.Carmack@dfo-mpo.gc.ca

Seth Danielson, Research Associate Professor, University of Alaska Fairbanks.
Email: sldanielson@alaska.edu

Brent Else, Assistant Professor, Geography, University of Calgary
Email: belse@ucalgary.ca

C.J. Mundy, Associate Professor, Biological Oceanography, University of Manitoba
Email: CJ.Mundy@umanitoba.ca

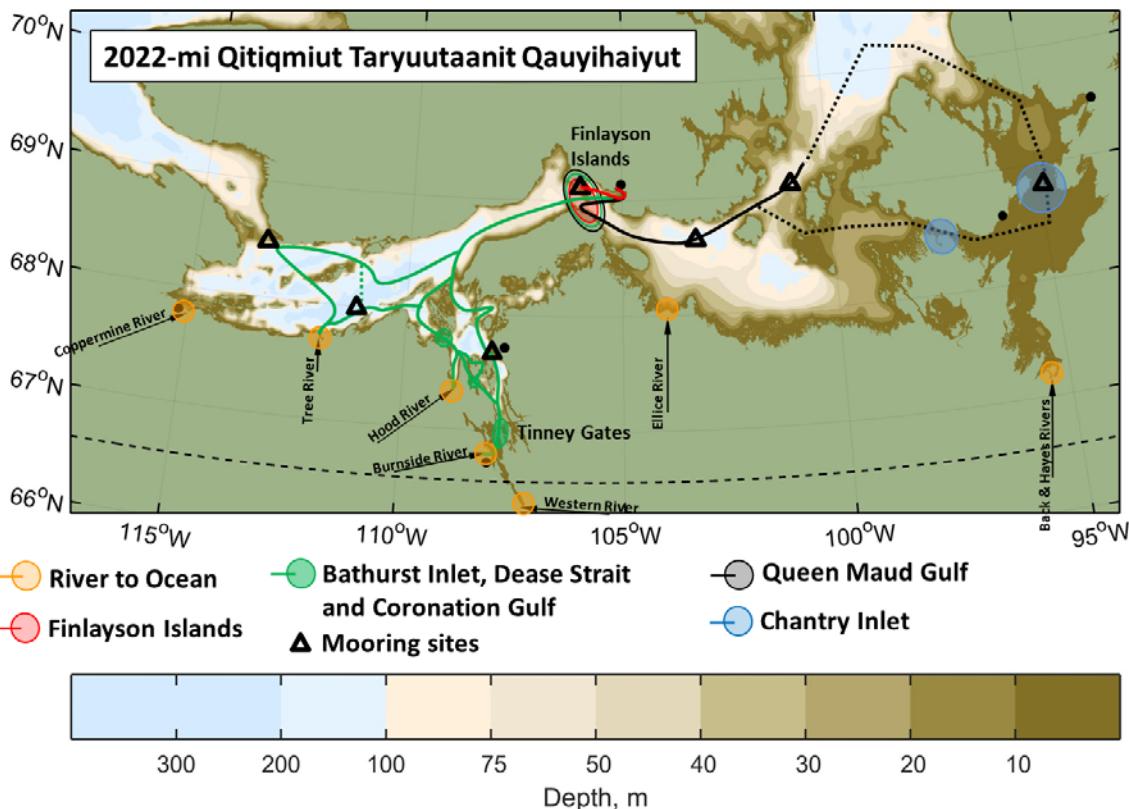
John Nelson, Research Scientist, Fisheries and Oceans Canada, Institute of Ocean Sciences,
Email: John.Nelson@dfo-mpo.gc.ca

Adrian Schimnowski, Executive Director, Arctic Research Foundation.
Email: adrian@arcticresearchfoundation.ca

Bill Williams, Research Scientist, Fisheries and Oceans Canada, Institute of Ocean Sciences, Email:
Bill.Williams@pac.dfo-mpo.gc.ca

Piksautit Naunaitsutallu:

1. Nunauyaq takupkaiyuq 2022-mi aullaqvigaanik nayugaghailu umiaqmit-havaanguyut taryumiutanik qauyihaiyut August 1, 2022-mit ahu 30 September 2022-mut.



2. Naahuriayut havaktitauyughat 2022-mi umiaqmit-havaktughanit taryumik qauyihaiyunik

01 August 2022 – 30 September 2022 (ubluit naunaitiqniaquut)

Ilauyukhaq	Havaakkhaa	Havakviuyuq	Iltuhagakhaq Ihumagiyauluuaqtuq
Bill Williams	Co-PI	DFO	Physical Oceanography
Seth Danielson	Co-PI	U. of Alaska Fairbanks	Physical Oceanography
Eddy Carmack	Co-PI	DFO	Ocean Ecosystem Concepts
Bodil Bluhm	Co-PI	U. of Tromso, Norway	Benthic Ecology
Kristina Brown	Co-PI	DFO	River and Ocean Geochemistry
John Nelson	Co-PI	DFO	Zooplankton
Brent Else	Co-PI	U. of Calgary	Carbon Dioxide Chemistry
Mike Dempsey	Technician	DFO	Mooring recovery/deployment
Chis Clarke	Technician	DFO	Mooring recovery/deployment
Shawn Marriott	Technician	U. of Calgary	Water sampling
Richard Sims	Postdoc	U. of Calgary	Carbon Dioxide Chemistry
Hank Statscewich	Student	U. of Alaska Fairbanks	Physical Oceanography