

Unipkaa 2022-mi Ilituqhainikut Hulijutit

Team Members:

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Ilituqhainiup Atia: “Hila, Hiku, Taquyuk, Immiktaakhalu Naunaiyaqniginik
Kagiqhiyaagani Halumailruut Puyuit Aulaniginik, Immaqmilu Uumayuvaluit
Nunagiyailu”

Havaami Qanuriniga Pijutauyulu: Una havaaq kagiqhijutaunahuaqtuq qanuq
halumailruvaluit puyuit aulaniqaqmagaa Ukiuqtaqtumi avatauyumi. Halumailruvaluit
puyuit pijutauyut hilap aalaguqnigani, amigaitulu inuit qauyimayut inuit hanavaktainik
akhaluutituraagapta, uunaqhiyaaganilu iglugiyavut. Kihiani, halumailruvaluit puyuit
inmiknik ilagikmiyaa nunagiyauyuni. Atauhiq atuqniqaqtuq inihag nanihiyaagani
halumailruvaluknik puyuknik kasiliitut (CH₄) kasiliivaluknit puyuit (CO₂)
immiktaakhaniitug taqyumilu, nugutuni puyukni. CO₂-guyut and CH₄-guyulu
atuqniqatigut nunagiyauyuni, ilagit immaqmi umayut hanavakmata ukuniga puyuknik,
ilagita atuqpaktainik. Imaitug, aqayavaluit ahiilu nautiaq CO₂-mik pivaktut immaqmit
aniqhaaktagakanik, atautikut ahiinik halumailruvaluit atuqpaktut aniqhaaktagahanik
hanalutiklu CH₄-mik. Ilituqhaiyumayugut qanuq puyuluknik ajikutainik CO₂-guyut
CH₄ –guyulu aulaniginik ukunani atuqtuni, qanuqlu ukua puyuit hatqiqpalianiginik
hilainaqmut. Akhuuknaqtug havaaritariagani una Ukiuqtaqtumi, ukua
naunaiyariaqaraptinik ukiugaaluk tamaat.

Tukliuyug pijutauyut uumani havaami nanihiyaagani ukua naunaiyautivut
nakurutauyaagani ukiuqtaqtumi nunagiyauyuni. Taimailuqhimayugut ukiuni
atuqhimayaptikni. Imaa, naunaiyaqtavut halumailruvaluit puyuit hilaliqivikni,
havaqatigihimayavut HTO-guyut napaktiriyaagani hilaliqivikhanik atuqniqaqluaqtuni
inikhani. Naunaiyautut ukunanga hilaliqiviknit takuyaulaqtut qaritauyami qungiakhani
atuqtaulutiklu aulaaqniqmi. Ihumayugut naunaiyautivut nuguyunik puyuluknik
immiqtaqviki taqyumilu ihumagiyauyuni nunagiyauyunit, ukua atuqniqaqtumi
uiguulaaqmata uumayunut. Imaa, inigiyauyut nuguhiyayunik kasiliivaluknik
piqainaqpaktulu nuguhiyayunik aniqhaaktagakanik, ukualu inigiyauyut Iqaluit ajikutait
Iqalukpiit kitpaavigiyumagitait. Ilaalu, inuit aktuqniqinik annaguuviktut Iqaluktuutiami
aktuqniqalaaqtut halumailrunik puyuknik taqyumi. Tuniqhimayugut havaqatigiyaagani
HTO-kut ahiilu ilauyut ukua ilituqhautivut nakurutauyaagani.

2022 Hulijutit

Qaujihaqtaujuqhat Katitiqhimajut Ubluinni: April 26 – June 04, 2022

Inigiyauyuni: Iqaluktuutiami Hanialilu Nunani.

Hilahiutiqarviat Aulapkaidjutit: Qiqaijaluarvia 15 – Ubluirvia 31, 2022

Inigiyauyuni: Halokvik Kuuga (30 Milemi), Melbourne Qikiqtaq, Finlayson Qikiqtait

Hilaliriviit

Atuqpaknirhaq, piqaqtugut pingahunik hilaliqivit havaktut haniani Ikaluktutiak (takulugu piksa nunauyaqlu ataani). Angijuq hilahiutit najugaat ahirruqtaujuq hikumin upinngaami 2019, imaalu ihuaqhaqtauhimajuq ukiungani 2021. Tamna Qikkiqtarjuq hilahiutit najugaat ihuaqhaqtauvakhimajuq ukiungani 2021, Halokvik Kuugaani hilahiutit ihuaqhaqtauvakhimajuq uumani ukiungani. Tapkuat nunalikni hilaliqiviit uukturaqta hila uunaqnia, anuritunia, anurip humingaqnia, kinipania hilap, akhuqtiginialu. Tapkuat tuhaqhitaikut ikaraq tamaat, tapkuatlu tuhagakhat takuyaulat talvani https://people.ucalgary.ca/~belse/Brent_Else/WX.html unalu <http://siku.org>. Qikirtaarjukmi Qiqiqtami hilaliqivik, naunaiyaqtavulu aularigutit qauyut (hiqiniqmit hilainaqmilu), unalu halumailruuq puyuuq pauvaluq hilainaqmi.

Hiku unalu Tarium Imaa Aktilaarutait

Amihuniqhani ukiuni katitpaktavut tariup imaa, imigaulaq imaa, tariupolu hikua naunaiyagakhat, ikayuriangitigut kangiqlhmani qanuq tahamna hilavut piqatauni imaqmuni uvaluniit hikup qangi. Tapkuat atuqtaukmiyut naunaiyaqni qanuq imaq ingutaqnia nunakut tariumun. Immaq hikulu naunaiyagakhat tutqumayaayut aulagtitauplutiklu naunaiyaiviptingnut talvani University-nga Calgary, talvani naunaiyaqtavut tariuquqtuni, pH, CO₂, CH₄, tapkuatlu akuhimaniriyai hanatyuhit. Atuni imaqmuni katitiqviptingni inait, atuqpakniqhavut uuktuqni hikup ibyunia, aputyaqnia (ukiumi), immap uunaqnia, tariuqaqnia, akuhmani aniqhaktugaulat, tamnalu chlorophyll-a piqaqnit.

Ukiungani 2022 tarium imaa tarium hikumiklu naunaijarningani katiqhivaktun malruungni inikhainnii: atauhiq ualiqhiani Iqaluktuutiami, atauhirlu haniani Ungahiktat Qikiqtat (takulugu nunaujaq ataani). Akungangni Qitiqqautijuq 26 – Imaruqtirvia. 4 talvanihimajugut CHARS aullaqhutalu najugainnut sikiituukkut. Talvuuna havakpaktitluta, iliuraqtavut (ahiit unngavaktiqhutitlu) hanalrutikharnik talvani malrunnik naunaijaqtauvingni najugaani. Hapkua atuqtaujut ingilrutit aktilaangit naunaijaqtauvaktun ataagut hikup tadjia, ihuaqhijaujut aniqhaaktarnirmun, tariuqarnianik, uunarninganik, imaalu nirijuminaqtunik. Havaqatigiikhutik nunarjuanginit hapkunanga Japan, Belgium, Norway ikajuqpaktut katiqhiplutik naunaijarningani hapkunani najugainni. Ilaujutlu naunaijarningani, hapkua upautihimajut katiqhuivaktun aktilaanginik tariup hikuani algae-mik, nirijuminaqtunik, imarmik naunaijaqtaujuqhamik nakuutqiamik kangiqlhjaangani tariup hikuani niqauvaktunik uumajunit tariurmiutanit. Havaqatigiiktut hamanga Avatiliqijinit Kanatami katitirijut tariurmi immarmik naunaijarningani Ukiuqtaqtumi Halumsilruvalungnik Pinahuarutimik havaakhamik. Akkungangni Imaruqtirvia 4 – Taaqhivaliavia 4 nappaqtirijugut tangmaarvikhamik Qikirtarjuk Qikiqtami taimaatut havakpaktavut hilahiutit najugaat havakhimmaaqhugitlu hilahiutit

maalu ivjuutilanganik qaujihaidjutit tariup hikuanik imaalu tariumi imaanik haniani qikiqtap. Havaktittiliqtugut aullaarudjijukhanik talvanga Anguniaqtuliqijitkunnin qaffiujuniklu nunanganit havaakhanik ikajuktikhanik ikajugianganic hapkuninga havaakharnik, munarittiaqtaujangini inungnik tamainnik qajangnaittumik.

Nallautirvikhangit Kuukkaplu Aktilanginik

Ukiungani 2022, havaqativut hamanga USA-mit naunaijaivaktun pujuum anialailaqutaa hamani Greiner Tahiani, Imiqtarvikhaq Kuugajani, nallautirvikhahangit (Iqaluktuuttiaq) hapkuatlu 5 haniani tahiqqat pingahuni havainirni hikup mahaktirutaani imaalu ahirruqhimajat atuqhugu jetjak unalu mihingnautingit. Aadjikiigiakhanik naunaijaivaktugut qanngani imap imaatutlu imarmik 10 m itijumik. Ilaujutlu hapkununga JetYak mihingnautingit, imarmik naunaijarningani katitiqtaujut. Hapkua aktilaarutait ikajuutauvaktun uvaptingnun aadjikiigiakhanik hapkuninga pujuum anialailaqutaa anianiit aalatqiinin imaqarnionin. Tamna drone atuqtauvakhimajuq piksaliuriangini hikuup allanguqtirninganic. Havaqatigiiktut hamanga USA tallimat 5 iliharvingmi pulaaqhimajut imaalu katimapkaqtauhimajut nunagijaujumi hulipkaiplutik talvani CHARS uqatiariangani qaujihaqtamingnik.

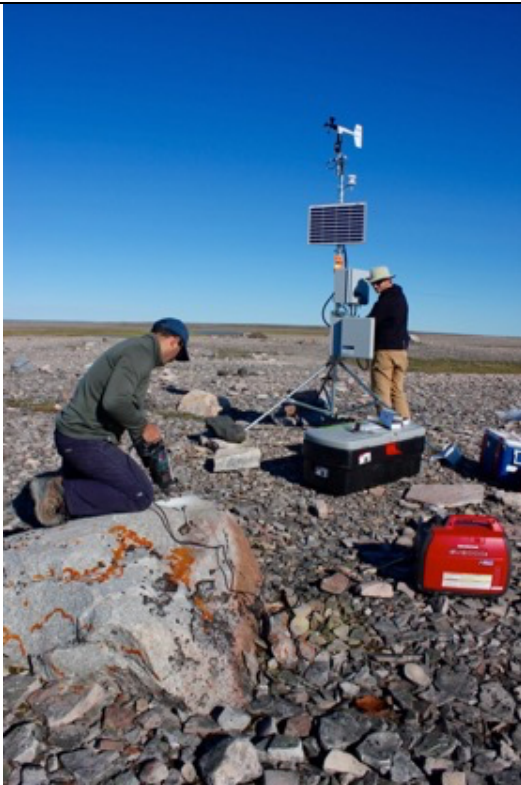
Kuugarmi Tahirlu Aktilaarutait

Qanngani imap naunaijarningani katitiqtauhimajut 22 inikhani talvani Greiner Tahirmi immarmik hikuqaqpaliatilugit hikup iluani. Qitqani Taaqhivalirvia 7-24, hamaniijugut CHARS tingmijugut haatakkut, katitiqhugit 30mL imarmik naunaijarningani atauttinin najugainin, ilaujut nunamingni ikajuqtimin. Ilangani ukiup qiqititinnagit, naunaijarningani katitiqtaukpata havainirmi tamaat nunallaani havaqatigiiktunun ilaujut. Hapkuat ihivriuqtaujukhat ihivriuqtauvaktun ihuariakhainik kangiqhijaangini tutquumaviit imaalu aulaviit apqutikhait imap aulaviit uvani Greiner Tahiani imarmi.

Piksat Nunaujatlu Piksaliuqtauhimajut 2022 Hulivauhiutainnik:



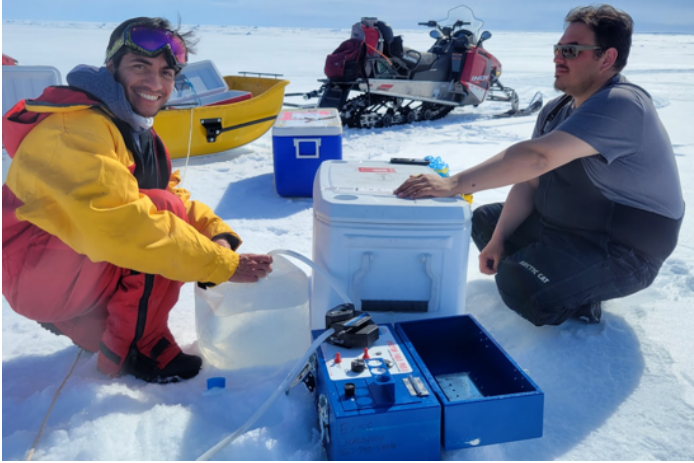
Nunauyaq taja hilaliqiviqagtunik havakviknik, nutaat hilaliqivikhauyut ahu (naunaiqniaqut nunagiyaunyuitut uqaqvigilraaqlugit), immaqmik hikumiklu ilituqhaivikhat havakviit.



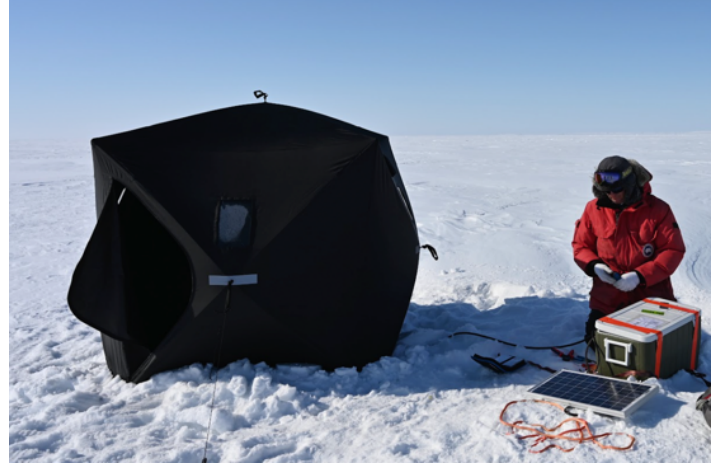
Tamna hilahiutiqarviat tahamnani 30 Milemi. Aadjikkuutavjaa hilahiutiqarviat hamaniittuq Melbourne Qikiqtaq.



Hilahiutiqartviat talvani Qikirtaarjuk Qikiqtani ihuaqhaqtaulraaqtitlugu.



Katiqhiplutik tariumit imarmik hikumi.



Tupiqhimaniaqtuntutquumavikhanik hanarutit
atuqtaujuqhat hamani hikumi imaatun 1 tatqiqhiut.



Piksaliuqhimajuq tangmaarvikharnik talvani Qikirtaajuk
Qikiqtarmi.



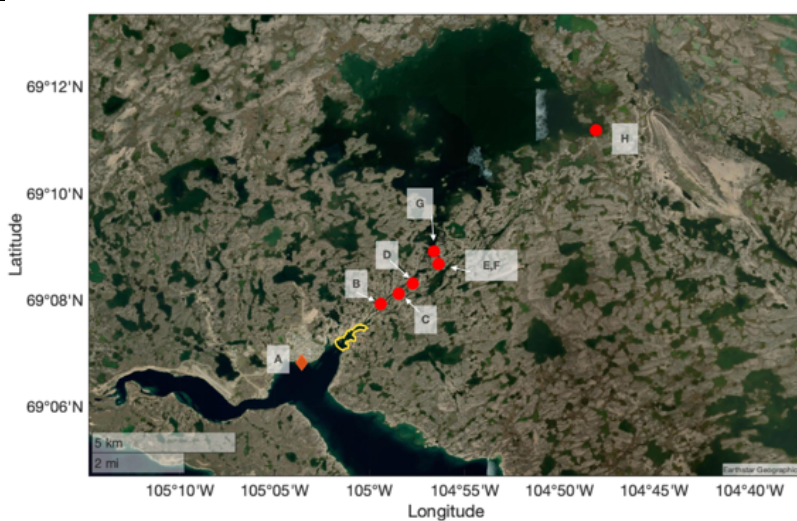
Katitiriyut taqyumi hikumik naunaiyagakhanik.



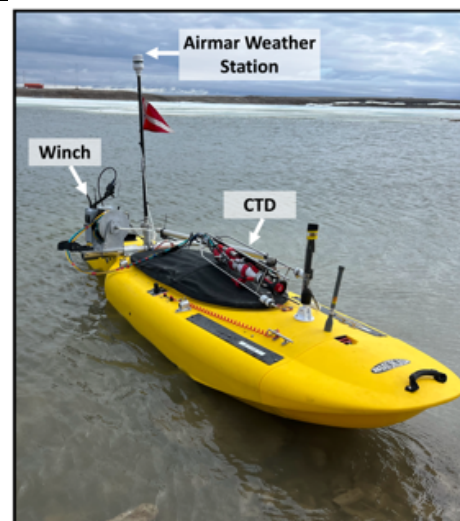
Iligiiktunut ilaujut hamanga Japan unalu Iqaluktuutiamilu



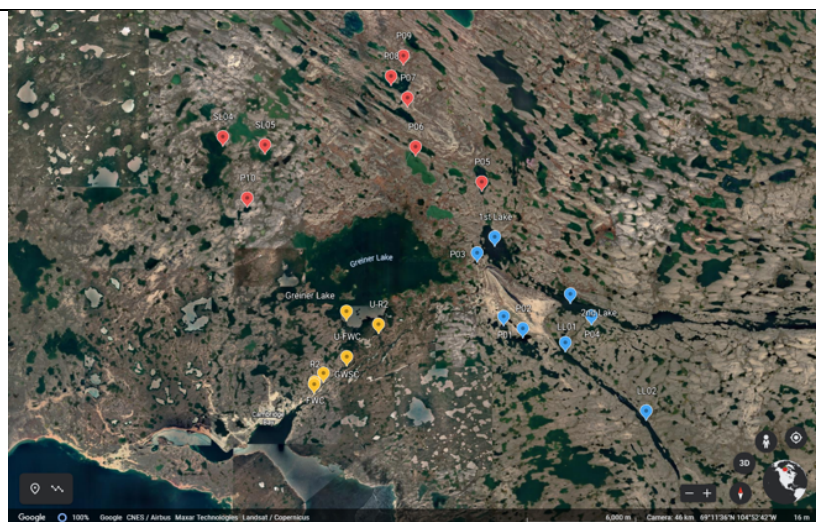
Upalungaijaqtugut hamani CHARS



Nunaujaq humi naunaijarningani katitiqtauhimajut ilagijaanik JetYak-mi naunaijarningani havaami upingaami ahirruqtiqtitlugu hiku.



Uva JetYak-guyuup qanurituuniga 2022-mi atuqtautilugu Iqaluktuutiami.



Nunaujaq humi imap naunaijarningani katitiqtaujut aujami angmaumajumi imarmi. Quriqtaq naunaijautauivaktuq imaatut havainirmi tamaat, arjiqtaq tatqiqhiut tamaat, aupadjaktuq atauhirmik.



Piksaliuqhimajut tahirmi imarmik naunaijaqtauvingni pinahuarutimik.

Planned Activities for 2022-2023

Ikayuqtiriini Ilauyut:

Brent Else (Ilagiyaa Ayugituup, Havaami Hivuliqhuqtit, University of Calgary)
Kristina Brown (Ilagiyaa Ayugituup, Havaami Hivuliqhuqtit, University of Manitoba)
Anna Michel (Ikayuqti Naunaiyaiyuni, Woods Hole Oceanographic-mi Havakviuyumi)
Jane Kirk (Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami)
Zoe Walker (Aunaiyaiyit Ikayuqti, University of Calgary)
Christina Braybrook (Aniguqhihimayuq Ilihaqtuq, University of Calgary)
Elise Imbeau (Aunaiyaiyit Ikayuqti, Iqaluktuutiaq)
Gabriel Ferland (Aunaiyaiyit Ikayuqti, Iqaluktuutiaq)
Brendan Langan (Aunaiyaiyit Ikayuqti, Iqaluktuutiaq)

Upalugaiqtut Hulijutikhat 2023-mi: Niriuktugut pilariakhavut naunaiyainiq haniani Ikaluktutiak upinngaaq. Amihuniqhat huliniit ayyikkipyaktut pihimayaptingnut hivuani.

1. Hilaliriviit

Uumani atuqtukhami ukiumi, upangniaqtavut pingahut hilahiutiqarviit qanittuani Iqaluktuutiami ihuaqhaqtaujangni. Havaktikhaptinik piniaqtugut atauhirmik Iqaluktuutiami inungmik ikajuqtukhamik hilahiutiqarviani havaganginnaqtukhamik ukiungani. Qalagjuarut ajuqhautaivaktuq uqautigijami hivunikhanik una hilahiutiqarviatkut havaakhaq nunangani, imaalu tuhaqtidjutikhaniklu havaakhakkut. Piquqtugut pijumajunut qunngiarmik (<https://vimeo.com/362146773>) takunnaqtiniaqtavut inungnut tuhaumapkaidjutikkut.

2. Tarium Hikuanik ihivriqtaujukhanik

Ukungani 2022, ihumagijaqtut tarium hikua imaalu tariurmit imarmik qaujihaqtaujukhanik hannianit hilahiutiqartviat talvani Finlayson Qikiqtait. Aulaqiniaqtugut Qiqaijalarvia, aullaarniaqtugut sikiitukkut katiqhiluta. Amigaittut htariumi hikuanik qaujihaqtaujukhat mahaktitauniaqtut imaalu utiqtitaultik qaujihaqtauvianut ukuat CO₂, aktilanginik tariunganik, mahaqhimajuq oxygen, nirijauvaktuniklu. Tariup hikuanik, hanaqidjuvivut mikihungujut, ikuutarniit putuut (anginiqatut imaatut 10"). Nakhalaitugut amihunik kumiyaqtunik, ihumaluknaqniga kuviiniq mikiyuq. Qajaginarniaqtugut sikiitukkut, ukuatlu janulitatnit huqhut qajangnaittumik uqhurjuat kiniqtat ingaqtaililugit.

Una tarium hikua havaakhaq ilaqaqtuq havaqatigiiktunik aallanik nunarjuanit. Tamna tadja atuqtat nunarjuami qaujihaijit ilaujut uumani havaqatigiiktunut:

Nunarjuaq/Havagvigjuaq	Nappait Ilaujukhat
Japan (Hokkaido University)	4

Hapkuat aquijukhat nalunaqtulijit talvaniihungujut Canadian High Arctic Research Station (CHARS). Munaqtauniaqtun hapkuat havaqatigiiktut qajangnaittumik aullaariangini tariumhikuanik najugakhainut, atauhirmik havaktikhamik piniaqtugut, havaktitinaqtugutlu aullaataujukhanik aullarudjijukhanik anguhiqijikkunit HTO.

3. Tangmarvikhat hamani Finlayson Qikiqtait

Nutqarniaqtaqqut tarium hikuanik ihivriutaujukhanik havaakhaq havaktauvaktuq talvunga CHARS nungudjuqiliqqan Qiqaijalarvia auqtuqpallialiqqat. Katiqhihimaariamini qaujihaqtakhanik hanianit hilahiutiqtarvingmit Imaruqtirvia unalu Taaqhivaliavia, tupikhimaniaqtugut tahamani Finlayson Qikiqtait. Tupqit tangmarvianni piqarniaqtut atauhirmik igavikhamik tupirmik, amihuniklu hinikgvikhainik tupirnik. Ihivriutaujukhanik katiqhihimmaarniaqtugut tarium hikuanik hiku ivjutlaktitlugu, ahiit atulirluta qajangnik katiqhijaptingni ihivriutaujukhanik.

Havaktukhat ikittuuniaqtun tangvakhimaviani, hapkuanginait 2-3 nalunaqtulijit. Havaktikhaqhiurniaqtugut Iqaluktuutiamit ikajuqtikhanik tangmarvianni, atauhirmik qaujihaijip ikajuqtikhanik atauhirmiklu aullarudjijukhamik. Havaktut tamajatlu agjaqtauqattarniaqtut avatingnut qikiqtamit naataraikpangnik malruuk havainiik halikaptakkut. Aullaarutigtitlugu halipkapta qulvakuut aullaniaqtugut iqhitaarinnaittumik uumajunik imaalu uumilruhaarnaittumik aullaqtunik. Upalungaijarniaqtaqqut ingilravikhaqqut Iqaluktuutiamit talvunga Finlayson Qikiqtanut tingminnaittumik qajagijaujut najugainut.

4. Ukiumi Tahiq Naunaijainiq Greiner hamani-Kitigak

Uvani 2019 unalu 2021, katitiqtavut tahirni imarmik naunaijarningani hikumit amihuni mikijuni tahirni Iqaluktuutiami. Hapkua naunaijarningani atuqtaujut aktilaahugit ihuaqhaqtauhimajut kaasit imaatan CO₂ unalu CCH₄. Ukiungani 2023, katitirijumajugut ajikutaanik naunaijarningani hamanga Greiner uvanilu Kitigak Tahirmilu. Aullaniaqtugut tahirnun Qiqaijarluarviamun, aturlutin hikumik iqalukhiurnikkut 10" pukugiangani imarnik naunaijarningani. Aturniaqtugutlu atuqtakhanik naunaijariami uunaqutinga, ihuarharhimajuq anirhaarninnga aadlallu aadlatqiingujut, titirlugit apud hikumillu ivjuninginnik. Aturumajugutlu ataani imap piksaliummik uukturlugu imaalu piksalilurluta iqalungnik. Uqautiginiaqtavut piksat iqalungnik nunaqaqtunun inungnun. Uqautigittaaqtavutlu humi ikuutaqtaptingnik, nunallaani ilaujut aturumakpagit iqalukhiuriamingnik. Tikinahuarutivut katitirlugit naunaijarningani amigaituni aalakiini najugaini tamangni tahirni, 20-30. Nunallaani ihivriuhidjutikharnik ikajuktiujut imaalu/imaaluuniit aullaarudjijukhat atuqtauniaqtun umunga hulilukaarutikharnik.

5. Kuugarmi Tahirlu Aktilaarutait

Auyami, katitiriniaqtugut naunaiyagakhanik hinaanit tattit kuuvaluilu, mikiyumiluniit qainanit. Ikayuqtigiyavut Ilihaqvikiyuami Calgary-mi (Taakti Stadnyk) Manitoba-mi (Taakti Brown) ikayuqniaqaatigut immaqmik katitiriyaagani. Kuukani, katitiriniaqtugut immaqmik hinaanut akhaluutituqluta, papiklutalu immaqmik atuqlugu mikiyuq papaut. Taimaatauq taqyumi naunaiyainiqmik, tahiqmik kuukmiklu naunaiyainiq mikiyumik aktuqniqaqniaqtuq. Munarinuaqtugut kuviigitaaptikni hunanikliqaa. Ilagiyaanik havagiami Ikaluktuutiami Tahiqmi immaqanigani, katitiriyumayugulu naunaiyagakhanik Tahiqyuamit immavaluknik, Kitiqamit immavaluknik.

6. Aujami Tariumit Qaujihaqtait

Tadja nalunaqtuq tapkuat R/V *Martin Bergmann* aullarniariakhanik Iqaluktuutiamit uumani aujami. Pijuminaqqan, aturniaqtaqqut umiaq katiqidjutigilugu qaujihaqtaujukhanik hapkuninga CH₄, CO₂, oxygen, niglaumatilanganik, unalu aktilanginik tariunganik. Aturniaqtavut “imap ingilrania” naunaijarlugit pH, CO₂, aktilanginik tariunganik, unalu imap niglaumatilanganik umiaq ingilratitlugu. Upangniaqtavut qaujihaivigivaktavut najugainni, takunnaqtun nunaujami ataani. Havaktiaqpaktgut atauhirmik nunangani inungmik ikajuqtukhamik qaujihaqtikhamik.

7. JetYak-guyuq (ugahiktuanit igilrapkagaulaaqtuq qayaq)

2018-mi, havaqatiqahimayugut ilaginik ilituqhaiyunik Amialigat Nunagiyaanit (Taakti Anna Michel, Woods Hole Oceanographic-kut Havakvianit) aulapkaiyut ugahiktuanit qayaqmik haniani Iqaluktuutiap. Qayaq naunaiyaiyuq CO₂-nik CH₄-mik, niglaumaniganiklu, taquyaqniganiklu aulatilugu immaqmi. Ukua ilituqhaiyit tufaaramayut JetYak-mik hikuiyalikaat atuqtukhami upingaami. JetYak-guyuq igniqutiqaqtuq kasiliqtuqtumik, munariniaqut uqhuvaluknik kuviigitaaptikni. Taimainigani, aktuqniqalimaiquuqtuq avatauyumik. JetYak-guyuq atuqtauniaqtuq kuukap paagani hikuinigani Immiqtaqviup Kuugani aulaqtiriaqat. Aturumayaqulu Immiktaqviup Kuugani, Iqaluktuutiamilu Tahiqmi. Tikmipkainiarunaqhiyugut mikiyumik ilikut tikmiyunuamik piksaliuriagani Immiqtaqviup Kuuganik, Iqaluktuutiamilu Tahiqmik. Tamna tadja atuqtat nunarjuami qaujihaijit ilaujut uumani havaqatigiiktunut:

Nunarjuaq/Havagvigjuaq	Nappait Ilaujukhat
USA (Woods Hole Oceanographic)	3

8. Aturahuaqtitni Huliniit/Ilihimani Kinguvaarit Katitvia

Parnaktugut atuqtitnia ilihimanit atuqatugikni katitniq tapkuat ilauyut naunaiyainiptingnut havaqatigit tapkuatlu ilagit nunalikni ilauyut takuni naunaiyainiq tuhagakhat katitauyut talvani Ikaluktutiak Tahiq, Imigaulaq Immaq Kuugauyaq, tahamnalutariup hinaa Iqakuktutiakmi havaqatiginilu piyauni tukiliurutit piplugit tapkuat qanuritnit. Naunaiyainiq qanuritni hatqititauniat atuqlugit nunaayat piksatlu tapkuatlu katitnit pilaa uqaqatigikni titiqpalianilu nunaayat piksatlu allanguqtaunikhat, nakuuhivalliqnit, uvaluniit ilagiaqni piplugit nunalikni ilihimanii tautuknilu. Tamna katitniq atuqtaulaqmiyuq uuktutauninut nutat naunaiyaqni inait uvaluniit naunaiyainiq huliniit piplugit nunalikni hivulliutyaqnit. Tapkuat qanuritnit ilaliutiyauniat talvani PhD Unipkaliangit ilihautit turangayutlu iliharniq makpiraliugat piqataunitlu katitnini titiraqatigikniat (piyumakpata) tapkunani makpiraliuqni/hanayauni hatqititut tapkunanga katitnit. Pitaqtavut nakuanut angiqtaunit uumunga ilihimanit kinguvariinut huliniit upinngaangani 2020 (REB19-2110) havaqatigikniatlu tapkununga University-nga nakuatuqnit katimayit atuqpalianinut ilagiarutit Qalakyuarniq hivuranaqnit ihuaqhautit allanguqpalirutitlu.