



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Kanataup **TARIUNGI TATYA**

UKIURTAQTUQ UUMATYUTAI 2023



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Canada

Pitaqturiya

Tamna ilihimaniq atuqatigiyauyuq uumani tuhaqhitaut pipkaqtai angiyumik pinahuaqni naunaiyaiyinit, pitquhiliqiyit, umiaqpaup havakti, aulattiqatigit katimayit, angutikhaliqiyit, nunalikni ilauyut, ahiilu. Quyaqitavut pinahuaqni Inuit timigiya naunaiyaiyitlu ikayuqtuinit naunaiyaiyut uuminga tuhaqhitaut. Ilitturiyavut pinahuaqpiqaqnit tamaita tahapkuat qiniqtut kangiqhinahuaqni Ukiurtaqtuq tariuqni uumatyutit. Quyaqiyavut ilihimayavut tapkuat havakpiaqnit hatqiqtauyut uumani tuhaqhitaut havariyauyut iluani Inuit nunagiyait (Inuit Nunangat), tapkuat ilalgit nunat, imait, hiku, tamaitalu uumayut ilauni.

Thank You

Nakurmiik

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Quyanainni

Koana

Merci

© Tamna Nanngarnaqtuq King Kivgaqtuqhugu Kanata, Kivgaqtuqtaupluni taphumanga Minihitauyuq Iqaluliyit Tariuqmiutaliqiyit, 2025. Titiqniq Nappaa Fs23-549/1-2024Ikt-PDF ISBN 978-0-660-74065-2

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Makpirak qangani ajjingoak: Qinalugait qakuqtut kiklingani taphuma Ukiurtaqtuq Tariuq Aulariaq hikua. Piksa: Mark Williams. Qulaani: Tugaaliit imanittut. Piksa: Mark Williams.

Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Tautugautiaqni



Titirauyaq

Hivunmut

Canada's Oceans Now (Kanataup Tariungi Taty) tuhaqhitautil nainaqhimayut taty qanuritnit atuqtakhaitlu Kanataup tariungit. Tahapkuat tuhaqhitautil hanayauvak-tut ilagiplugit tapkuat Kavamatkuty Kanataup atuqpiaqni tuhaqhiti inungnut taty qanuritni Kanataup tariungi.

Canada's Oceans Now: Arctic Ecosystems, 2023 (Kanataup Tariungi Taty: Ukiurtaqtumi Uumatyutit, 2023) pipkaqtai nutat ilihimani tapkuat qanuritninut tariuqni uumatyutit tahamani Kanatamiuni Ukiurtaqtuani. Tamna tuhaqhitautil haavktauyug havaqatigini titiraqatigitlu tah-amanga Ukiurtaqtumi nunaliuyut tapkuatlu Inuit timingit, iliaqpiqhimaqut, kavamatkungittut timiuyut, tapkualu Iqaluliyit Tariuqmiutaliqiyit Kanata.

Una tuhaqhitautil pihimayug tuhagakhanit unniqtutti-aqni talvani Kanatamiuni Pitquhiliqutit Tuhaqhitautil Iqaluliyit Imaqmiutaliqiyit Naunaiyaiyit 3633, Qanuritnit Kanataup Ukiurtaqtuq Tariut.¹ Tapkuat tuhagakhat hatqiqtai pihimani nakuuhivalliqni pity-uhit kangiqhimani ilitnilu tapkuat Ukiurtaqtuq tariut uumatyutai. Tapkuat taty qanuritnit avatiliqutit, nayuqtauvaktut, uumayut, niqauvaktutlu uqauhiuyut. Una tuhaqhitautil akhuqyumiyat hivunmuktitni ilihimani uumayuvallit (hunaq tahamanitni), nayuqtauvaktut qanuritni (qanuq uumatyutit hanahimani atuqtaunilu), pityuhitlu aktuayai nayuqtauvaktut uumayutlu hugiaqnit (hungmat allatqikni ahianguqnilu atuqtaunit).

¹Niemi A., Ehrman A., Ahmed M., Arey M., Azetsu-Scott K., et al. 2024. State of Canada's Arctic Seas. Can. Tech. Rep. Fish. Aquat. Sci. 3633: xvi + 204 p. <https://www.dfo-mpo.gc.ca/oceans/publications/soto-rceo/2024/arc-technical-report-rapport-technique-eng.html>

■ Hivunmut

1 Iitniq Piqatigikhuni

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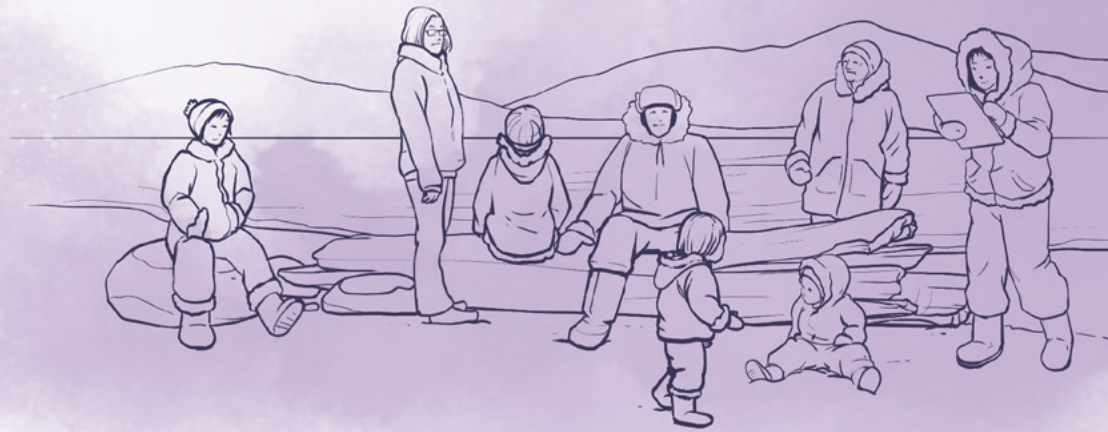
6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

Mittimatalik (Pond Inlet), Nunavut, Kanata. Piksa: Shutterstock.

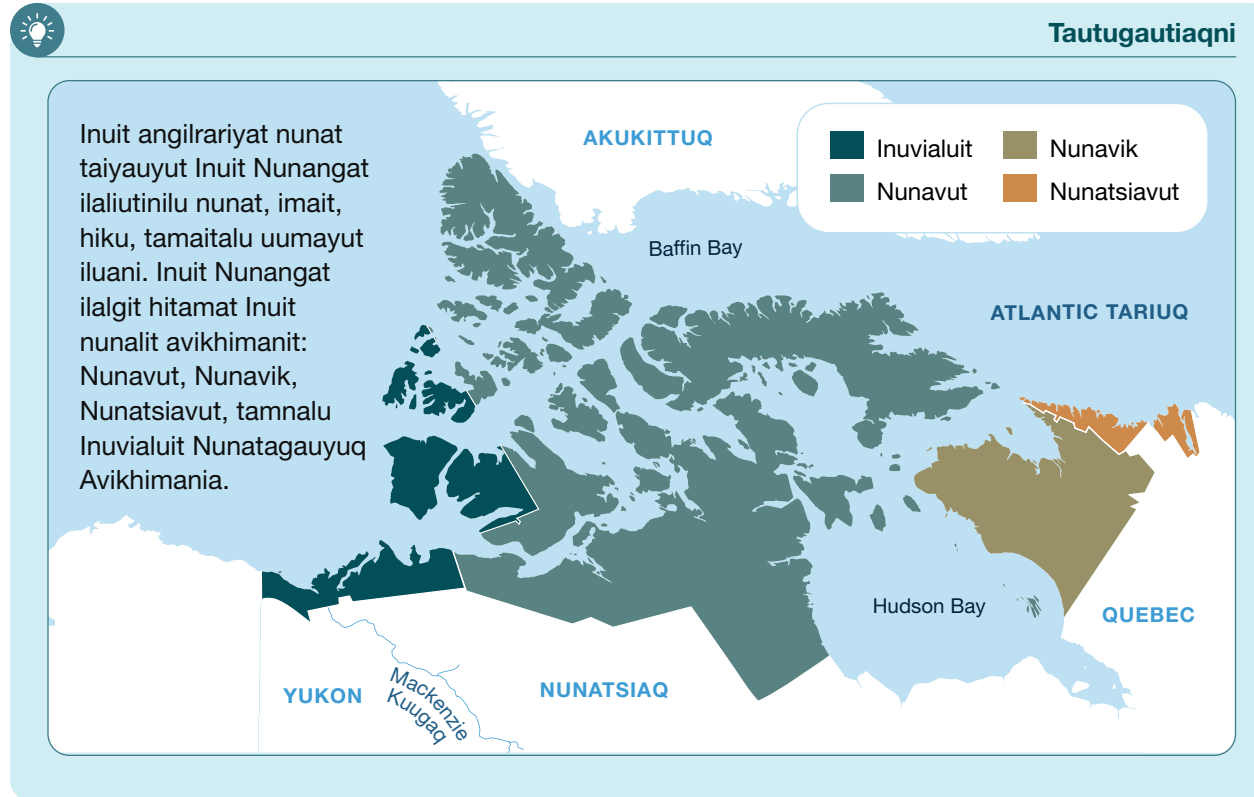


Ilitniq Piqatigikhuni



Naunaiyaiyit ukiurtaqtumilu Nunaqaqaqtut Inungnut havaqatigiktut aturiangi tatty atuqtut tuhagakhat hivunmuktitnilu nutat tuhagakhat piyalgit kangiqhimayangi aulanilu uumatyutit tahamani Kanatamiuni Ukiurtaqtuani.

Tamna Kanatamiuni Ukiurtaqtua ilalik Kanataup anginiqpaq tariuqni inaa, talvangat James Bay imaitnut talvanga ukiurtaqtuani Nunavut (Titirauyaq 1: Tuhaghitaut naunaiyaivia tamnalununaligiyaait Inuit Nunangat 🌐). Una Ukiurtaqtuq inaa ilagiya hanimuktunia tikitnia tariup hinaa tariunginnaqmilu avatait. Amihut inait naunaiya-qhimaittut, atuinaqtutlu amihut ilitakhat tahamani Ukiurtaqtuq tariuqni uumayut, nayuqtauvak-tut, uumatyutitlu pityuhit. Inuit humiliqak Inuit Nunangat naunaiyaiyitlu pivaliyut havaqatigiknit naunairiangi hugiaqnilu uumatyutit apiqtaunit. Tamna qanuritnia titiqtauni ilihimanit allatqiktut angiyumik humiliqak Kanatamiuni Ukiurtaqtuani. Atuqpiqtuq ilihimayaq humi Ukiurtaqtumi tamna tuhagakhaq piyakha qanurititlugulu ukiup ilaani unniqtuqnit. Ukiurtaqtuq-tamaat unniqtuavaknit pivakniqhat nalaumaitnit, taimalu ikayuqhiutingittut ihumaliurniqmut. Atuqhugu amihut-ukiunut tautugauni, nakuutqiyamik kangiqhimalaqtavut aktilat qanurittunilu allatqigutaunit piyut uumatyutinut, naunaiqnilu hilamit-ahianguqnit.



Hivunmut

1 Ilitniq Piqatigikhuni

- 🌐 Tautugautiaqni: Inuit Nunangat
- 🏔️ Titirauyaq 1: Tuhaghitaut naunaiyaivia tamnalununaligiyaait Inuit Nunangat
- 🌐 Tautugautiaqni: Aulattiqatigikniq Tariuqni Hapumminit Inait (MPA)
- 🏔️ Titirauyaq 2: Naunaiyainiq naunaiyaivik tamnalununaqaqaqtut Ilihimanit

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

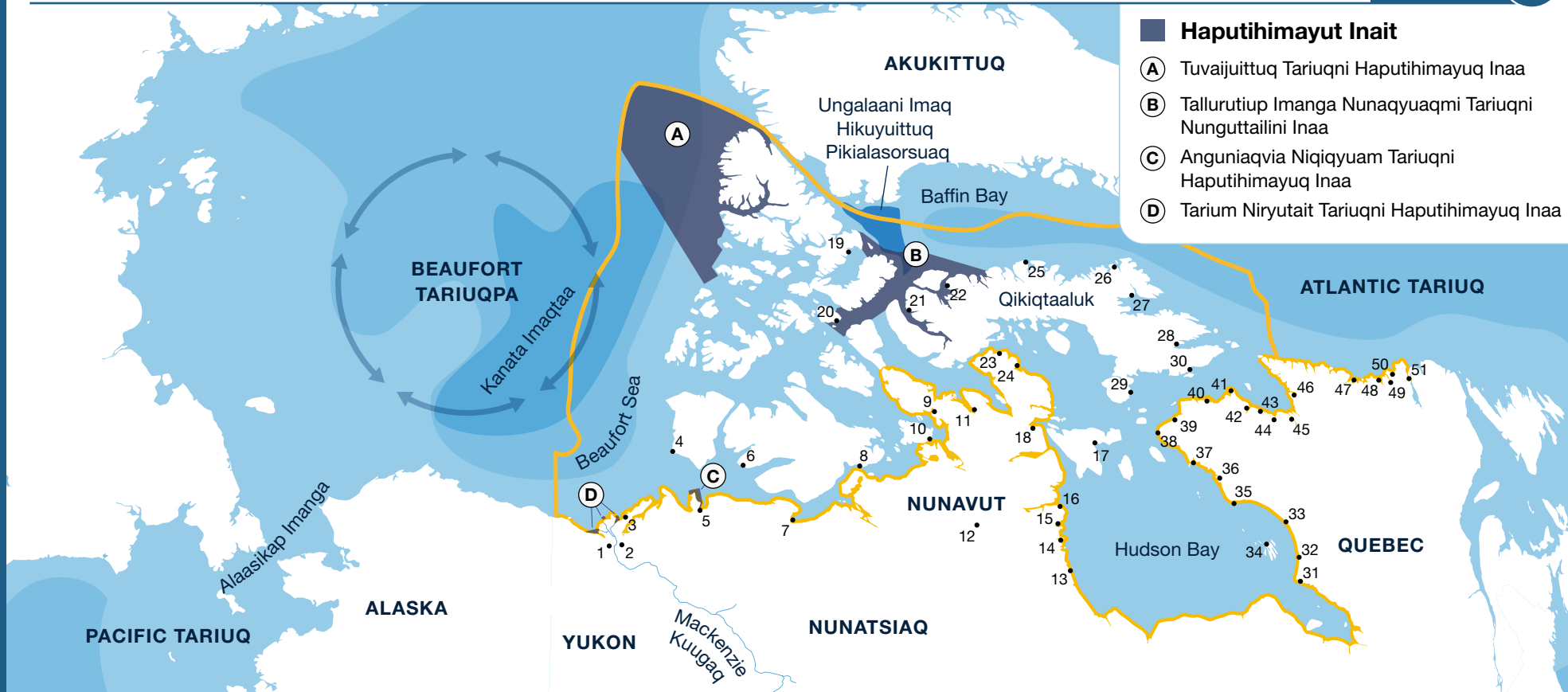
5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

Tuhaqhitaut naunaiyaivia tamnalununaligiyaait Inuit Nunangat

TITIRAUYAQ 1



- Haputihimayut Inait**
- (A) Tuvaijuittuq Tariuqni Haputihimayuq Inaa
 - (B) Tallurutiup Imanga Nunaqyuaqmi Tariuqni Nunguttailini Inaa
 - (C) Anguniaqvia Niqiyuam Tariuqni Haputihimayuq Inaa
 - (D) Tarium Niryutait Tariuqni Haputihimayuq Inaa

Nunaliuyut

Inuvialuit Nunatagauyuq Avikhimania

- 1 Aklavik/Aklavik
- 2 Inuvik/Inuvik
- 3 Tuktuuyaqtuuq/Tuktoyaktuk
- 4 Ikaahuk/Sachs Harbour
- 5 Paulatuuq/Paulatuk
- 6 Uluhaqtuuq/Uluhaktok

Nunavut

- 7 Qurluqtuq/Kugluktuk
- 8 Iqaluktuuttiaq/Ikalukutiak
- 9 Talurjuaq/Taloyoak
- 10 Uqshuqtuuq/Uqhuqtuuq
- 11 Kuugaarjuk/Kugaaruk
- 12 Qamani'tuaq/Baker Lake
- 13 Arviat
- 14 Tikirajuaq/Whale Cove
- 15 Kangiqliniq/Rankin Inlet
- 16 Igluligaarjuk/Chesterfield Inlet
- 17 Salliq/Coral Harbour
- 18 Nauyaat
- 19 Ausuittuq/Grise Fiord

- 20 Qausuittuq/Resolute
- 21 Ikpiarjuk/Arctic Bay
- 22 Mittimatalik/Pond Inlet
- 23 Iglulik/Igloodik
- 24 Sanirajak/Hall Beach
- 25 Kangiqtugaapik/Clyde River
- 26 Qikiqtaryuaq
- 27 Panniqtuuq/Pangnirtung
- 28 Iqaluit
- 29 Kinngait/Cape Dorset
- 30 Kimmirut

Nunavik

- 31 Chisasibi
- 32 Kuujuaarapik
- 33 Umiujaq
- 34 Sanikiluaq
- 35 Inukjuak
- 36 Puvirnituk
- 37 Akulivik
- 38 Ivujivik
- 39 Salluit
- 40 Kangiqsujuaq
- 41 Quaqtuq
- 42 Kangiqsuk/Kangirsuk
- 43 Aupaluk

- 44 Tasiujaq
- 45 Kuujuaq
- 46 Kangiqsualujuaq

Nunatsiavut

- 47 Nunainguk/Nain
- 48 Agvituq/Hopedale
- 49 Qipuuqqaq/Postville
- 50 MaKovik/Makkovik
- 51 kikiak/Rigolet

Hivunmut

1 Iilitniq Piqatigikhuni

- Tautugautiaqni: Inuit Nunangat
- Titirauyaq 1: Tuhaqhitaut naunaiyaivia tamnalununaligiyaait Inuit Nunangat
- Tautugautiaqni: Aulattiqatigikniq Tariuqni Hapumminit Inait (MPA)
- Titirauyaq 2: Naunaiyainiq naunaiyaivik tamnalununaqqaqtut Ilihimanit

2 Atatyutiut, kihimik Allatqit

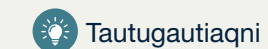
3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Tautugautiaqni

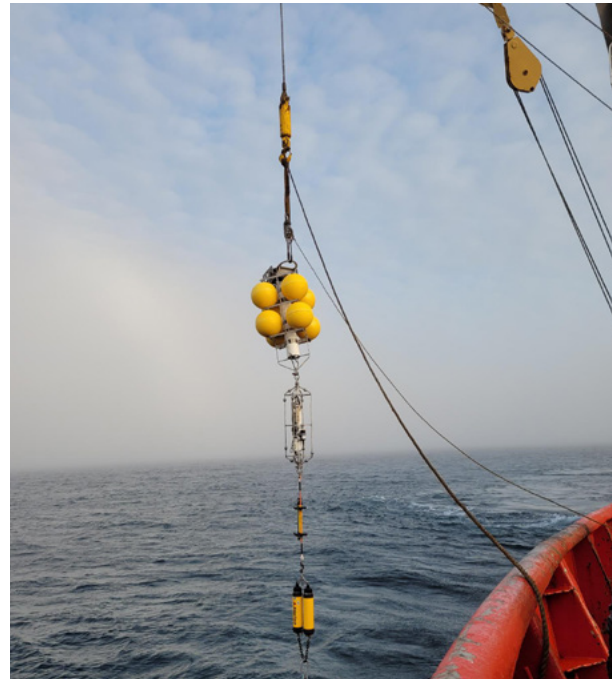


Titirauyaq

Akhut qanuritnit tahamani Ukiurtaqtuq akhuqnarutauyuq havarini naunaiyainiq munaqtaunitlu ukiuq-tamaat. Amihuniqhat naunaiyainiq atuqtauyut hikuilruyangat (mikhaani Julai tikitlugu Saptaiapa). Una piyuq inait tikitaula qayakkut umiak-kutlu. Huli, atuqni nutat pitquhiliqutit atuinaqnilu tautugaunit (naunaipkutariplogu, atuqni tariuqni kiahqhimavit) ilavalliqli ilihimanit uumatyutit, ilautitlugit uumayut uumayuvaluit hiamaumanilu quyagitnaq ukiunga. Ukiumi nunalikningaqtut munaqtauni piqarutaulat titiqnit tuhagakhat atuqpakniqhami tuhagakhat ayuqnaqni ukiup ilaani. Tamna atuqnia nutaq nipit (naunaipkutariplogu, nipiquqtuni) qangattaqhimayutlu (naunaipkutariplogu, unqahiktumut tautugut) naunaiyaut pitquhiliqutit nakuuhivalliqli nunaayat angutikhanut ingutaqnit amigaitnitlu ukiut ilagiyainut (naunaipkutariplogu, nunalikningaqtut qakuqtut qinalukkat unqahiktumut tautuknit havagutai ikayuqtigikniqlu unniqtutit qanuritnit).



Tapkuat piqatauni Nunaqqaqtut nunal-kni naunaiyainiq munaqtaunitlu aglivaliyut pinahuaqniq atatyutivalliqli Nunaqqaqtut Ilihmani Qablunaanitu naunaiyainiq tuhagakhat (**Titirauyaq 2: Naunaiyainiq naunaiyaivik tamnalu Nunaqqaqtut Ilihmanit**). Pititlugit amihut naunaiyainiq havanguyut piqaqtitilaqni tuhagakhat taty ahianguqinut, Nunaqqaqtut Ilihmani piqaqtitai hivituyumut tautukni atukhaqniqut. Katutyiqatigit pipkaqtauni ikayuqtigikni piplugit ikayuqhutik piruqhaqni kangiqhimaniq atuqhimayunik avatiliqutit uumatyutitlu huniumaitni qanuritnit, tapkuat ikayuqtut naunaiqni munaqnilu ahianguqnit. Atatyutini amihut pityuhit ilihmaniq piruqhaqni huli kanguqhimavalirutit avatiliqutit ahianguqinut. Una atuqpiqtaqtut atuttiaqtumik aulattiqatigikniq tariuqni uumayut uumatyutailu tahamani Inuit Nunangat.



Haumingni: David Putumiraqtuq atuqta hanalrut tahamuni tariuq hikua haniani Igluligaarjuk (Chesterfield Inlet) uukturarianga tariup uunaqnia tariuriknialu. Piksa: Darcy McNicholl, DFO. Taliqpiq: Pivaliatni hanalrutit munariyakhait tariuq uumayuvaluitlu qanuritnit talvani tamaat ukiuq uataani Kanataup Ukiuqtaqtuani. Piksa: Andrea Niemi, DFO.



Tautugautiaqni

Aulattiqatigikniq Tariuqni Hapumminit Inait (MPA)

Tahamani uataani Kanatamiuni Ukiurtaqtuq, malruk tariuqni hapumminit inait pinguqtauyut malikhugu tamna *Tariuqni Maligaqyuat* apqutigiplugit hivuliqli Inuvialuit nualiyut tapkuatlu aulattiqatigit timiuyut:

- [Tarium Niryutait Tariuqni Hapummini Inait \(TNMPA\)](#) pinguqtauyut 2010-mi
- [Anguniaqvia Niqiqyuam Tariuqni Hapummini Inait \(ANMPA\)](#) pinguqtauyut talvani 2016

Tamaqmik Tariuqni Hapumminit Inait (MPA) pilgit nunguttailinit ihumagiyaunit pivaliatigatauyut tapkununga Inuvialuit katutyiqatigit ikayuqtaunilu Beaufort Tariuq Qakuqtut Qinalukkat Aulatauni Parnaut pivaliatitai Iqaluliyit Katutyiqatigit Aulatauni Katimayiralaat. Tamna ANMPA hivulliyuq Kanatamiuni MPA-nga nunguttailiviqaqhuni ihumagiyaunia piplugu kihimik Nunaqqaqtut Ilihmanit; una ihumagiyauni ihuaqhimayut nayuqtauni atuqniqhat uumayuqatauyut uumayut (naunaipkutariplogu, Ukiurtaqtuq Iqalukpiq, qakuqtut qinalugait, nattiit).

Hivulliyuqni-ihuaqhiyauni, aulattiqatigit, munariyaunilu tapkunani MPA-ngit atuqtut katutyiqatigikniq Inuvialuit timiuyut tamnalu, Iqaluliyit Tariuqmiutaliqiyit Kanata (DFO), ikayuqtauplutik tapkunanga ahii ikayuqtuiyut.

Hivunmut

1 Iitniq Piqatigikhuni

- Tautugautiaqni: Inuit Nunangat
- Titirauyaq 1: Tuhaghitaut naunaiyaivia tamnalu nunaligiyait Inuit Nunangat
- Tautugautiaqni: Aulattiqatigikniq Tariuqni Hapumminit Inait (MPA)
- Titirauyaq 2: Naunaiyainiq naunaiyaivik tamnalu Nunaqqaqtut Ilihmanit

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Tautugautiaqni



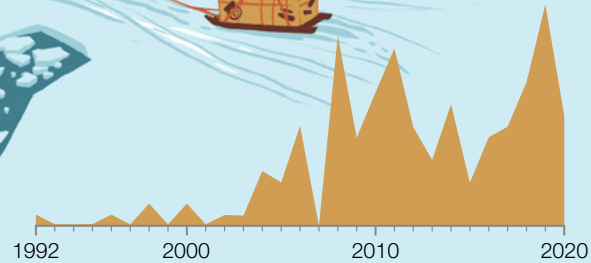
Titirauyaq

Naunaiyainiq naunaiyaivik tamnalu Nunaqaqaqtut Ilihimanit

TITIRAUYAQ 2



Nunalikni hivuliqtit piqatauyutlu ilavalliyut naunaiyainiq nauaniyaiyut munaqnilu humiliqak Inuit Nunangat



Inuit Ilihimani tuhaumatitai Qablunaat naunaiyainit, pityutauyut kangiqhimavalliqli avatiliqutit ilitquhiliqutitlu atuqpiaqni uumayut, ilautitlugit Ukiurtaqtumi iqalukpit, qakuqtut qinalukkat, nattiitlu.

Pinahuaqni atatyutinit allatqit pityuhit ilihimani hugiaqnit uumatyutit inuliquititlu akhuqnit piqatai hilap ahianguqni ilavaliqutut.



Nunalikni pitquhiliqiyit atuqtai allatqit pitquhiliqutit hanalrutitlu katitiqui tuhagakhat tahamunga Ukiurtaqtuq avatai uumayutlu.

Hivunmut

1 Ilitniq Piqatigikhuni

- Tautugautiaqni: Inuit Nunangat
- Titirauyaq 1: Tuhaghitaut naunaiyaivia tamnalu nunaligiyait Inuit Nunangat
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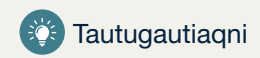
3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

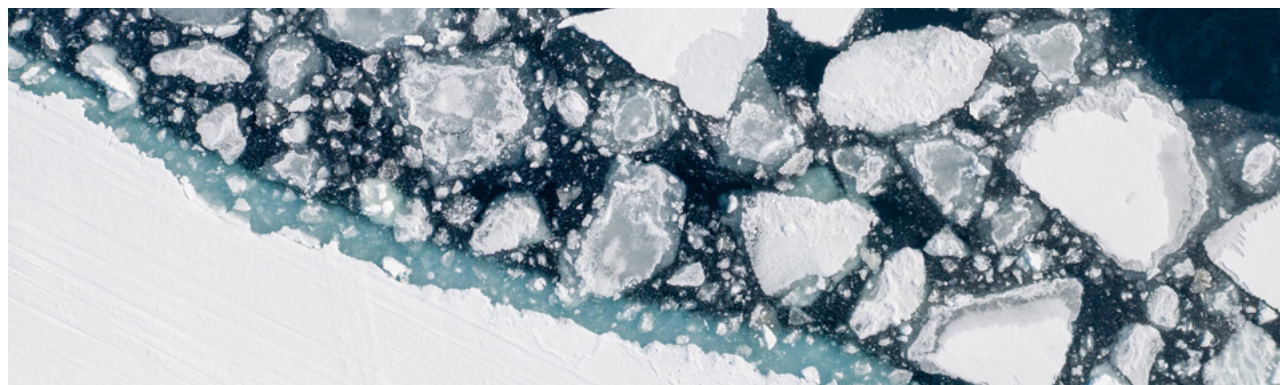


Atatyutyut, kihimik Allatqit

Kanataup Ukirtaqtua pilik inait ayyikkutaittut tariup hikua tariutlu qanuritnit, pigaluaqtitlugu akhut hugiaqtitni talvanga Pacific, Atlantic, tamnaluk Qitqani Ukiurtaqtuq Tariut.

Tariup hikua tariuqnilu pitquhit tahamani Kanatamiuni Ukiurtaqtuani qanuripkagaulat atatyutainut tariut, kihimik huniumaittut ayyikutaittut. Tuhagakhaluqhimayut tapkuani 20 ukiut avataanutlu atuqpiactut naunairiangi kangiqhiyangilu ahianguqnit allatqigutaunilu tapkununga tariut inait. Hivituyumut naunaiyainiq tariup-hikua pitquhit pin-iqhamik qangattaqtihimayut tuhagakhat qauyihaqni (talvanga 1979 ublumilut). Qangattaqtihimayut hatqilaqtailu qanuritnit tamnatut uunaqnia aqayaitlu katitnit, kihimik tahamani tariut qangini. Tariuqni pitquhit uqauhiyut ataani naunaiqtauyut umiaqmit

uukturaqnit utiqtaqhugit auyaq tamaat (naunaipekutaripplugu, tamna Beaufort Gyre tuhagakhaq) tamnaluk/ualuniit tariuqmi kiahahimanigut. Hivituyumut kiahahimavit immap iluani ipiutait hanalrutit katitiriyut tariut tuhagakhat tapkuatut uunaqnit, tariuriknit, immap ingutaqnia, hikuplu ipyunia ukiuq tamaat. Tapkuat himmiqtauyut ukiuq tamaat atuinariakhai titiqni tuhagakhat. Talvani tamaat Kanatamiuni Ukiurtaqtuani, ikitqiyat saivanit kiahahimavit uukturaqtai tariup qanuritnit atuinaqtumik avataanut 20 ukiut.







Haumingni: Tariuq Hikua haniani Mittimatalik (Pond Inlet), Nunavut, Kanata. Piksa: Shutterstock. Taliqpiq: Tiriunginnaqmi imaqq naunaiyaqnia tahamani Kanataup Ukiurtaqtuq Tariunga. Piksa: Caity Allison, DFO.

Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutyut, kihimik Allatqit

-  Titirauyaq 3: Tariup hikua ahianguqnit
-  Tautugautiaqni: Qanurittuni Tariup Hikua
-  Titirauyaq 4: Beaufort Gyre: katitiqni uunaqnia imigaulaqlu imaqq tariuqni
-  Titirauyaq 5: Kanatamiuni Ukiurtaqtuq kuukviunia kuukviginialu

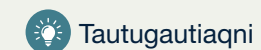
3 Nutanguqtauni Niriugiyayuyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Tariup hikua ahianguqnit

TITIRAUYAQ 3



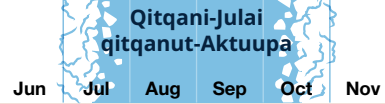
Tariup hikua ahianguqpaliyuq humiliqak Ukiurtaqtumi. Tahapkuat ahianguqnit aktuayai Ukiurtaqtumi tariuqni uumatyutai amihunut piplugit. Atuni qiuqut takukhautitai allatqit pityuhit tapkuat hikut ahianguqnit.

Hikuqakhaqtiginia: Tariup hinaani inaa

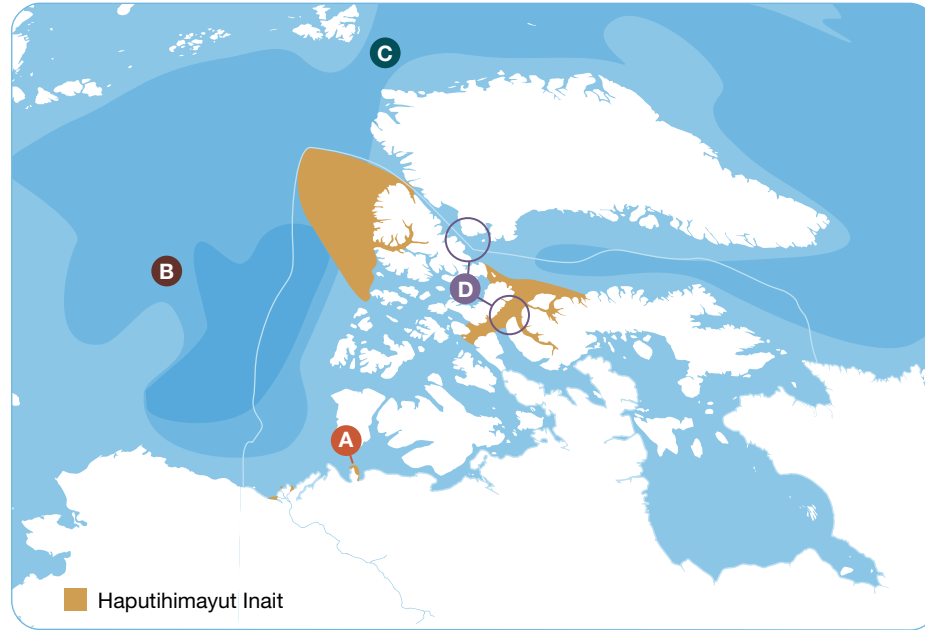
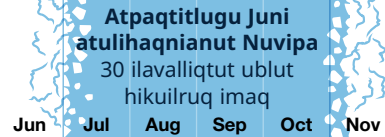
A

Talvani Anguniaqvia Niqiyuam Tariuqni Hapummivia Inaa, tariup hinaa hikuqainartuq tatqimik tungauttugu atuqpaktanit 40 ukiut qangiqtut.

Hikuittuq imaq ublut 40 ukiut qangiqtut



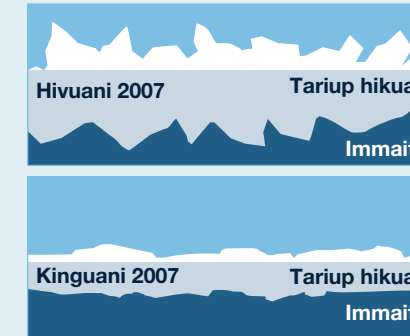
Hikuilrut imait ubluni ublumi



Hikukkut aularniq: Fram Strait tariunga

C

Hiku ingutartuq tahamanga Ukiurtaqtuq Tariunga tahamanga Atlantic tahamuuna Fram Strait tariunga. Talvanga 2007, tamna hiku ipyuyuq maniittuqlu. Taimanga, tamna hiku haattuvaktuq manitqiyauplunilu.



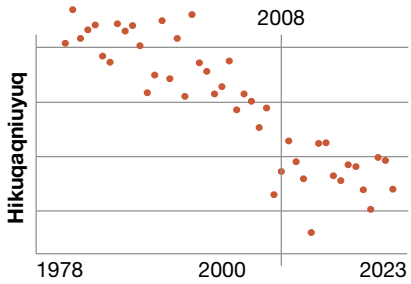
Hikuqaqniyuq: Tamaat Ukiurtaqtuq

B

Hikuqaqniyuq auyami

- 42% Mikhigiaqtuq hikuqaqniyuq
- Mikhigiaqnia atuqniqhauya hivuani 2008

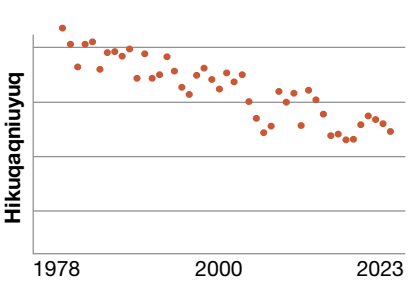
Hikuqaqniyuq auyami



Hikuqaqniyuq ukiumi

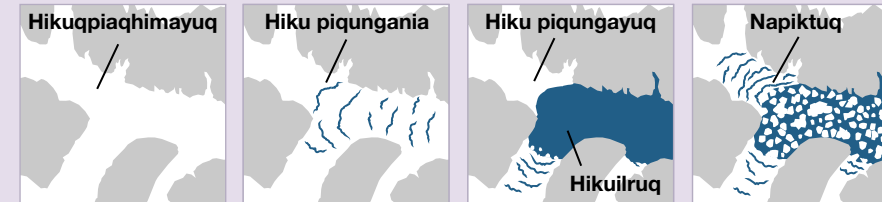
- 10% mikhigiaqnia hikuqaqnia
- Mikhigiaqnia auyayuittuq akuniyumik

Hikuqaqniyuq ukiumi



Hikup ilitqunia: Arches

D



- Hiku piqungania napayuuq tuluqtautiyyuq ingilranik tariup hikua. Una pipkaqta inaa hikuilruq (hikuilruq) pinguiqtitnia haniani piqunganiq. Hikuilrut atuqpiagtut hikuilruuq nauyqtauvaknit ahia hikuhimatitlugu inait.
- Hikuilruni, aqayavaluit pirulat qilamiutqiyamik upinngami, iqaluit katitvigilaqtai, tariuqnilu angutikhat tariumilu tingmiat niriniaqvigiyyai.

Pinguqnahatqiyat, ivuqharaitqiyauplutiklu: 1979-2022

Lancaster hiku piqungania: Atukhaqnia atuqpakniqha 1.5 tatqiqhiutit ikitquyaq

Ungallani Imaq hiku piqungania: Atukhaqpaktuq atuqniqhamik 3 tatqit ikitquyamik. 2007-mi, tamna hikup piqungania pingungittuq hivulliqpamik, Pingungitmiyuqtautauq tapkunani 2009, 2010, 2017, tamnalu 2019

Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiyyut, kihimik Allatqit

- Titirauyaq 3: Tariup hikua ahianguqnit
- Tautugautiaqni: Qanurittuni Tariup Hikua
- Titirauyaq 4: Beaufort Gyre: katitqini uunaqnia imigaulaqlu imaq tariuqni
- Titirauyaq 5: Kanatamiuni Ukiurtaqtuq kuukviunia kuukviginialu

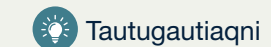
3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Tautugautiaqni



Titirauyaq



Qanurittuni Tariup Hikua

Ukiup ilaanut hiku:

Tariup hikua katitpaliayuq tamaqminutlu auktuqtuq uvaluniit haqvaqhiqtuq aniplugu Ukiurtaqtuq iluani ukiungani.

Amihunut ukiunut-hikutuqaq

Tariup hikua hikunia hikuhiimakhaqtigiyuq atauhiungittumut auyamut.

Nunamut hikuhimania

Hiku haniani tariup hinaa uvaluniit qikiqtani huniumaittut anuqhiraluaqtitlugu uvaluniit tariup haqvanut. Una hiku haqvaqhiyuittuq.

Hiqumait katitni hikut

Haqvaqhiqtut tariup hikui quyaginnayuktut nunaqarniqnut tuluqtaqvut haqvaqnilu allatqiktut ipyunit ukiungani.



Tahamani Ukiurtaqtuqmi tamaat, tariup hiku-qaqnia mikhivalliqtuq tamaitni ukiup ilaitni, hikuilruqaqnia ilavalliqtuq inaitni hikuqaqtut kihimik ukiumi (Titirauyaq 3: Tariup hikua ahianguqnit 🌊). Auyautitlugu hikuqarniq aktilaq mikhivallirtuq talvunga 82% akungani 1979 tamnalu 2023 Ukiurtaqtumutlu tamaat. Una angiyumik mikhigiaqnia hiku aktilaq piyuq tammaini ipyuyut amihunut-ukiut tariuq hikua (Tautugautiaqni: Qanurittuni Tariup Hikua). Una tammaini tai-mainigittuq tamaitni inait tahamani Ukiurtaqtumi. Kanatamiuni imait pihimainnaqtaimihut-ukiut hiku nayugauvaknit. Tapkunani kingulliqni 10 auyat, amihut-ukiut tariup hikua mikhivalliqtuq 7% tahamani ungalauniqpangani inaa Kanatamiuni Ukiurtaqtuq (Titirauyaq 3: Tariup hikua ahianguqnit 🌊). Kayumittumik ahianguqni tariup hikua takuyaulat. Piqaqmiyuq ukiunik qulaunaqtuniklu pivakni kayumiktumik, hakugiktut mikhigiqni uvaluniit ilagiaqni.

Triut inait turaqhugit atatyutauyut, kihimik ayyik-kutaittut inait ilihimayauyut. Una ilalik tamna Beaufort Gyre tamna kaivittuq, tariunginnaqmi inaa attaqtuyuq itinia Kanata Imaqaqnia tahamani uataani Kanatamiuni Ukiurtaqtuani (Titirauyaq 4: Beaufort Gyre: katitqini uunaqnia imigaulaqlu imaqtariuqni 🌊). Tamna tunngatani qanurilitita taphuma Beaufort Gyre attavigiya. Naunaiyautit taimanga 2003 nanaiqhimayai katittaqnit imigaulaqlu







imaq ikittuni hannat miitat qangani uuma gyre katittaqnilu uunarniq tahamani qangata atinnuani qaliriknia imaq talvangaqtuq Pacific. Una piruqpaliania atuqtuq talvani 26 ukiut piyarangat Beaufort Gyre kaivitnia taliqpianut kaivitniq qilamikpiaq (Titirauyaq 4: Beaufort Gyre: katitqini uunaqnia imigaulaqlu imaqtariuqni 🌊). Tamna ilagiaqnia uqumaitnia imigaulaqlu imaqtariuq qangani tamna gyre tunuya anmut Pacific qaliriknia imaq qunmut (qunmukpaliania) itkatqiyamutlu tunngata uataani Kanatamiuni Ukiurtaqtuani. Una ingutaqnia tariuqatqiyuq imaqtariuq mikhaanut hinaanut munaqtauyuq 30 ukiunut kahaqhimayuni hanalrutit haniani tariup natqanut tunngataani. Taimaittuq hivituyumut tuhagakhat katitauni piyalgit naunairiangi una ahianguqnia naunaittumik.

Huqpiaqnia tariuq nayugaunia pinguqtauyuq allanguqtaqinut tamatkikni tariunginnaqmi tariuplu hinaani imait. Uunaqnit tariuquqtunilu atuqpiqtut pityutai munaqinut hanatyuhit aturuminaqnilu tariuq nayugauni uumayunut. Tamna mikiyuq aktilaq ahianguqnia uukturaqnia tariup imaa uataani kivataanilu Kanatamiuni Ukiurtaqtuan (Titirauyaq 5: Kanatamiuni Ukiurtaqtuq kuukviunia kuukviginialu 🌊) allatqiktut angitqiyani ahianguqnit tautugauni taimattauq ukiuni talvani Bering tamnalu Barents Tariut. Tahapkuat ahii Ukiurtaqtuq tariut pivaliayut uunatqiyamik imait hanianittunit tariunit.

Hivunmut

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Beaufort Gyre: katitqni uunaqnia imigaulaqlu imaq tariuqni

TITIRAUYAQ 4



Tamna Beaufort Gyre angiyuq tariuqni inaa tahamna qanga imaq kaivittuq

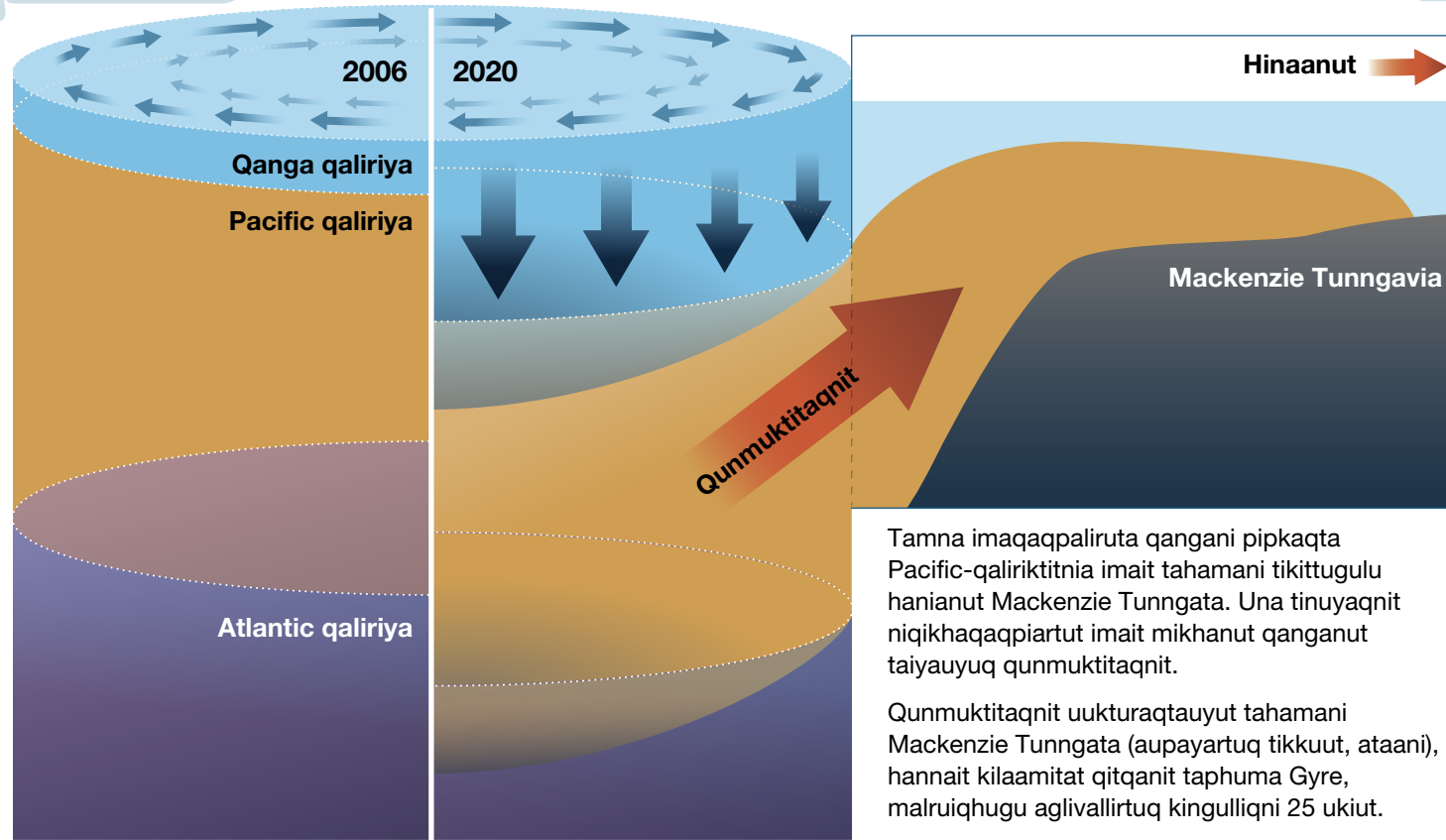
Tamna Beaufort Gyre kaivittuq taliqpikmut uvaluniit haumikhiqmut naahuriplugu anuqip ilitqulia.

Kayumitqiyamik taliqpikmut kaivitnia pingutita imigaulaq imaq hiku auktuqtumit kuugaqnitlu katitnit haniani qanga taphuma Gyre, tinupluniuk Pacific qaliriya ititqiyamut.

Imigaulaq imaq talvani Gyre ilagiqnia taphuminga/mikhaani 50% talvanga 2003 tikitlugu 2008.

Talvani qangiqtumi, tamna kaivitnia nuuttuq turaqnia tamaat 5-10 ukiut. Anuqqit pipkaqtat kaivipkaqnia taliqpikmut atuqpakniqhaq tatyta taimanga 1997.

Pikpat kaivitpat utimut turaqnia, tamna katittaqnia imigaulaq qangani imaq kuukniaq tahamuuna Kanatamiuni Ukiurtaqtuq imait talvunga Atlantic Tariuq.

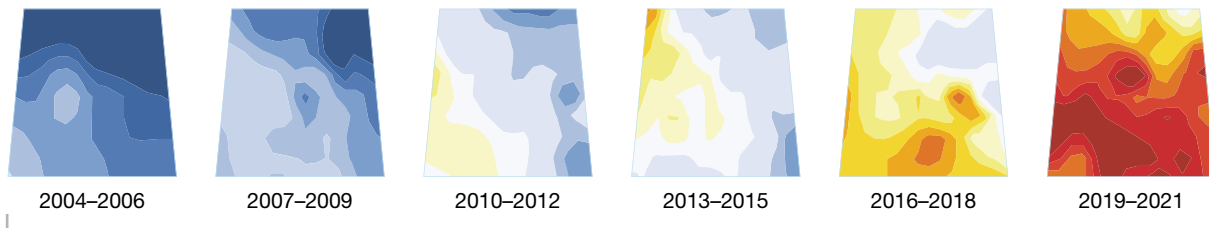


Tamna imaqaqpaliruta qangani pipkaqta Pacific-qaliriktitnia imait tahamani tiktugulu hanianut Mackenzie Tunngata. Una tinuyaqnit niqkhaqapiartut imait mikhanut qanganut taiyauyuq qunmuktitaqnit.

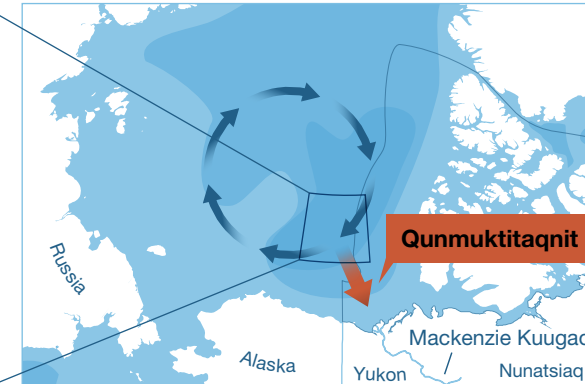
Qunmuktitaqnit uukturaqtauuyut tahamani Mackenzie Tunngata (aupayartuq tikkuut, ataani), hannait kilaamitat qitqanit taphuma Gyre, malruiqhugu aglivallirtuq kingulliqni 25 ukiut.

Tariup uunaqnia tahamani Pacific qaliriknia taphuma Beaufort Gyre, 2004-2021

Niglamatqiyaaq Uunatqiyaaq



Taimanga 2004, tamna aturniqhaq uunarniq talvani Pacific qaliriknia taphuma Gyre ilagiartuq talvanga 250 talvunga 850 milian joules atuni kikarikuq miitat.



Hivunmut

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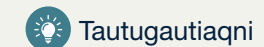
3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



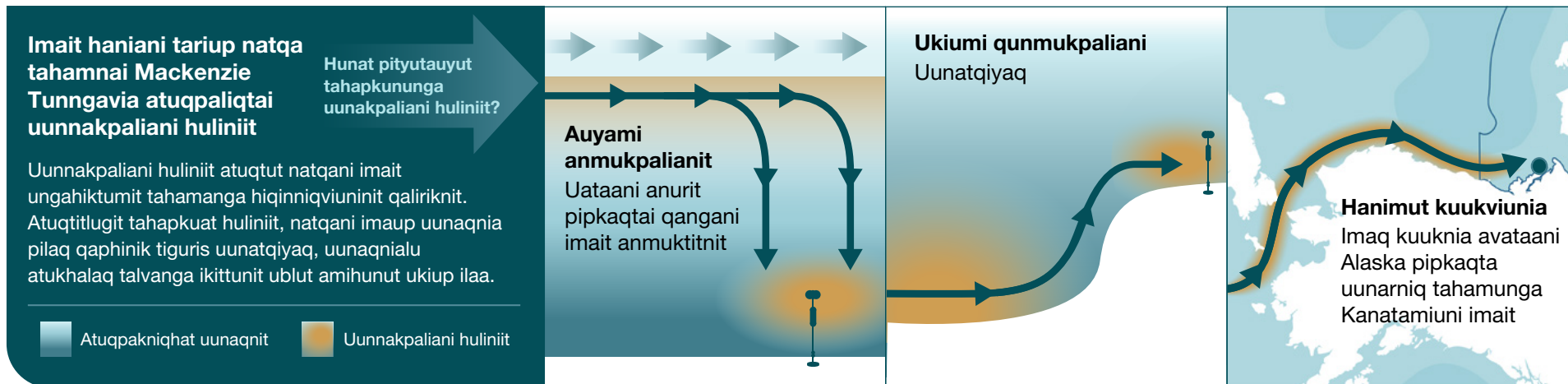
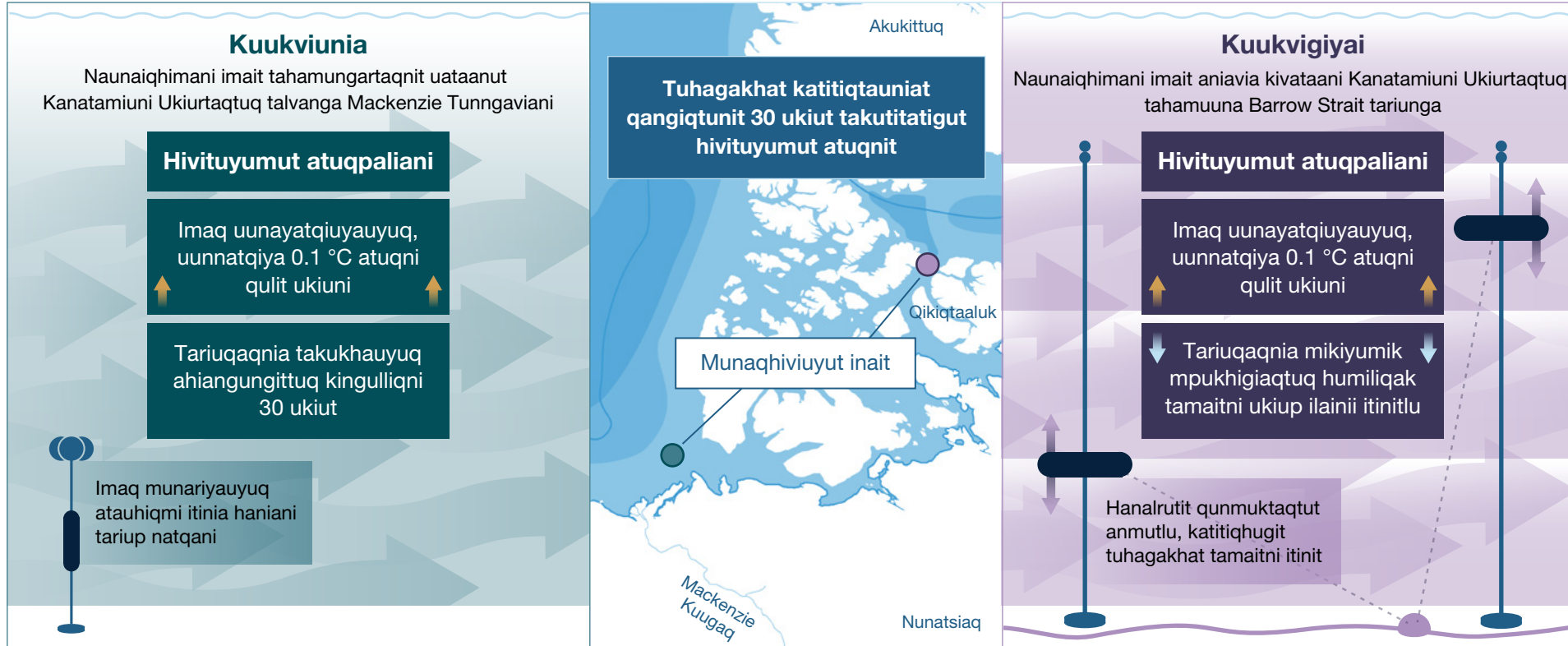
Tautugautiaqni



Titirauyaq



Piyaliuyugut tuhagakhat katitigauhimagut tuinaqtumik akuniukhaqtumik (20 ukiut avataanutlu) naunaittumik naunaiqni ahianguqnit tariup imaa



Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

- Titirauyaq 3: Tariup hikua ahianguqnit
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- Titirauyaq 5: Kanatamiuni Ukiurtaqtuq kuukviunia kuukviginialu

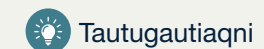
3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

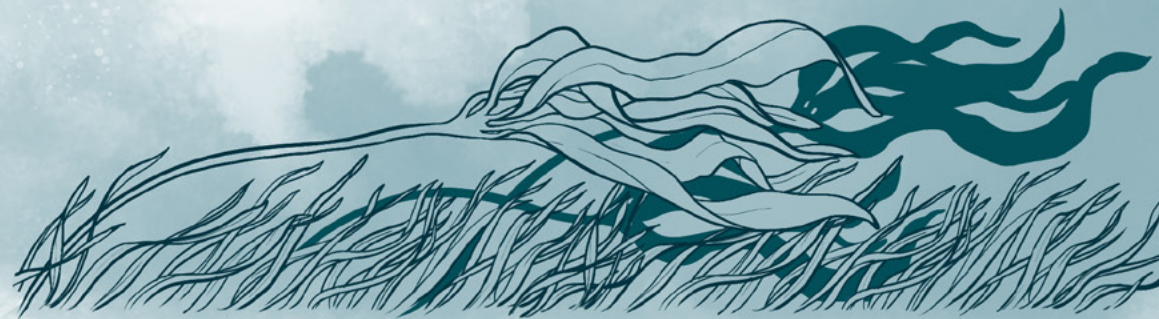


Tautugautiaqni



Titirauyaq

Nutanguqtauni Niriugiyauyut



Nutaq naunaiyainiq takukhautita piqaqni ilaitnik malikhangitni niriunaitnilu pityuhit tariuqni uumatyutit hugiaqni allatqituqaunit uvaluniit hilap ahianguqnia.

Nutaq tuhagakhaq takukhautita ayurnaqlia ilanilu niriunaitnia hugiarutit tariuqni uumatyutit tariup allatqiknia uvaluniit hilap ahianguqnia. Niriunaittut tariup huqpiaruhit uumayutlu hiamaumanit naunaiqtauyut akuniuyumik humiliqak nigiani tah-amunga ungallaanut inait.



Ihuaqtit tariuqni hiku tammainit?

Umiakkuqnit tahamuuna Kanataup Ukiurtaqtumi Aularianga niriugiyauyuq ayuqnaitqiyaunia tariup hikua tammainianut. Kihimik, hutqiyaunia 1968-2006 tamnalu 2007-2020 takukhautitai pigaluaqtitlugu mikitqiyuq amihut-ukiut hikutuqait (piqaqni aglivalianilu) tahamani Ukiurtaqtuq Triuq Aularianga, huli umiakkuq hivuranaqniyuq qakugumut hivunikhami. Attaqtuhini nayuqtauni tariumi nauyut niriugiyauyut piplugu hiku tammainia ahiilu hilap-turangani avatiliqutit ahianguqnit, kihimik attaqtuhigiqni nayuqtauvaktut huli naunaiqtaungittut ikiyttuni Kanatamiuni inait piplugu 10 ukiut tuhagakhat. Qangahaq naunaiyutit James Bay nauhimayut aktuanit imaqmut qulliliquhiurniq pivaliatitnit uunnakpiarnitlu 1990-ni takukhautinnaqta tammainit. Unattauq akiraqtuqmiya taty a hilap-turangania attaqtuhivalliania nauhimayut nayuqtauvakni ahiini ilait Ukiurtaqtuq. Kanatami, ilai atulat pilaqnit tariuqni hiku tammaini tamnalu Ukiurtaqtuq uunnakpaliania qilamiunginangittut atuqpiariangilu naunaqtut.






Hivunmut

1 Iilitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

-  Tautugautiaqni: Hikuilrut
-  Tautugautiaqni: Tariuq Huruilaqni Akhurutaunit
-  Titirauyaq 6: Piqaqvia uvaluniit kivinia: CO₂ Ukiurtaqtup imait

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Hilalirit kihimi allatqit

Naliqarigaluaqhutik inait, takuyavut allatqikni ayyikkinginangittut. Ahianguqni nauhimayut uumayuvallit titiqtauhimayut tahamani Pacific tamnalu Atlantic Tariungi. Kihimik, pigaluaqtitlugu akhut atatyutini tahapkuat imait, taimaittut ahianguqni naunaiqtaungittut tahamani Kanatamiuni Ukiurtaqtuani. Tamna Uanangani Imaq tamnalu Lancaster Sound hikua piringayut (**Titirauyaq 3: Tariup hikua ahianguqnit** 🌊) mikaphuktut ikittut hannait kilaamitat avihimani tahamani kivataani Ukiurtaqtuq. Tahapkuat hikut piringani atuqpiaqtut hikuilrunut (**Tautugautiaqni: Hikuilrut**). Tapkuat qaphiuni ublut ukiuq tamaat piringayut huniumaittut taimattauq tapkununga 20 ukiunut, taimalu talvani 2001-2022 ahityiqtaligini ahianguqtut. Tapkuat hugiaruiqtut taimattauq pityuhi pipkaqni hilamit uvaluniit tariumit.

Nattiit tariup hikuani. Piksa: Mark Williams.



Tautugautiaqni

Hikuilrut

Hikuilrut inigiyai haattut hiku uvaluniit hikuilrut imait atuqtitlugu hikuqaqniuyut. Hikuilrut huqpiaqtut nayugaunit hivurahaqni uunnakpalianiqmut ahianguqtita tariup hikua, qanga uunnaknia, aktilangalu imigaulaq imaq itiqnia Ukiurtaqtuq Tariuqmut. Ahianguqni tariuq-hikua ingutaqni hatqiqtai nutat, hivikitumut hikuilrut talvani Tuvaijuittuq (tamna Kingulliq Hiku Inaa). Tamna ahityiqtaqnia nirunaqtuq hikiulruttamnat Sarvarjuaq (tamna Uanaani Imaq) ilavalliayut. Hikuilrut hivurahaqtauyut tammaiyauni uvaluniit akhut ahityiqnit.

Angiyuq-aktilaq hutqiknit

Angiyumik-aktilaq, pitquhi humiliqak tariuqni humiliqaklu Kanatamiuni Ukiurtaqtuani ayyik-kutaringitai nalauttaqnit. Qangahaq naunaiyaqnia tariup natqa uumayuvallit nalvauyut tahamani Kanatamiuni Ukiurtaqtuani Tariunga piqatqiyaq allatqinik tariup natqani uuvayuvallit qimiqluittut tahamangaunganiyt Kanatamiuni Atlantic tamnalu Pacific imait piqaqnit. Una allautqiyaq attatqutqiyainik pinahugini uumayuvallit ikikligiaqni uananganukpalianini qiniqtuni. Uumayut atuqpi-aqtut niqauninut takukhauni ilai malikhaqni pitquhi allatqini uumayuvallinilu, ilautitlugit nauhimayut tapkuatlu Ukiurtaqtumi uugait. Una malikhaqnia niriuknaittuq amihunut tariuqni uumatyutit, piniqhamik pipplugu atuinaqnia hila ahianguqnia aktuanit. Tariut hinaani imait, katiqhuqhimani nauhimayut malikhaqtut humiliqak tamaat Kanatamiuni Ukiurtaqtuani, ilautitlugu Hudson Bay. Tapkuat piqaqnit tamaita pivakniqhat akhurna-qniunit uumayut uumayuvallit. Qangahaq umiaqpaqniqngaqut uukturaqnit (imakkut nipitunit) tariut hinaitni nayuqtauvaknit humiliqak tamaat Kanatamiuni Ukiurtaqtuani naunaiqhimani huniumaittut pitquhi Ukiurtaqtumi uugait uumatyutai. Kihimik, allatqiknit ukiumity ukiumut takukhautitai pivigiyai tariup hikua hiquptuqnia qanurityutaulaq Ukiurtaqtumi uugait uumatyutai, piniqhamik talvani Baffin Bay.




Ahia atuinangittuq tariuqni qanuritnit naunaiqtaulat piyarangat Kanatamiuni Ukiurtaqtuani hutqikni ahiinut Ukiurtaqtuq avikhimanit hilaqyuaqmilu tariut. Una ilalgit qanuritnit turangayut tariuq akuhimanit (**Tautugautiaqni: Tariuq Huruilaqni Akhurutaunit**) piqaqnilu utuqait, ipyuyut tariup hikui talvani Tuvaijuittuq Tariunga Hapummiyauvia ungallani Ellesmere Qikirtaq. Piqaqpalliqmiyuq utuqait tariuq hikui talvani inaani ahianiunnganit tamaat Ukiurtaqtumi (**Titirauyaq 3: Tariup hikua ahianguqnit** 🌊).

Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

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5 Uumayut Huniumaitni Nayuqpaqtailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit




Tautugautiaqni



Titirauyaq

Piittuq tariuq uunnakpaliania pitquhia nalvauyuq talvani Kivataani Beaufort Tariuq, malikhugu qangattaqhimayut tuhagakhat auyani tariup-qanga uunaqnit (2003-2019). Tamna naunaiqnia pilruqtuq atuinangittuq uvaluniit apquhaqtauyuq-pinahuaq-nagu, piplugu Ukiurtaqtuq hila uunaqnia qilamik uunnakpaliayuq. Huli, atuqpiatuq ahianguqnia atuqtuq. Tamna qanga imait uunakpallirtuq angiyumik atuqnaritiqyamik ukiungani, atuqhaqhugu naunaiyaqnia. Tamna aktuania aktilaq pivigiyalu nauhimayut piruqpaliani. Una naunaipkuta takukhauitai naunaiyaqnit atauhiq pitquhiq allangulaittunaqhiyuq uumayut ahianguqnit atuqat atungitpalluttauq. Pitquhiq naunaiqtaungilaqtauq piplugu tuhagakhaqpalangitnia amihunut ilagiyai tariuqni uumatyutit.

Piqaqnia kivinialuniit? – Atauhiqmik kiutyutaittuq

Tamna pityut tuhagakhat pilaqnit piniqhamik atuqpiartuq kangiqhimania qanuq tariuqni piqatigiknit tapkununga carbon dioxide (CO₂) hilagiyami. Tariut atuqpiatut munaqnit CO₂ puqtunit hilagiyainut hunaiumaitninut hilagiyat. Piva Kanataup Ukiurtaqtuani Tariuq tamna CO₂ kiviuyuq uvalunit piqaqnia CO₂? Pikpaty kivihimayuuq, tamna CO₂ ingutaqtuq talvanga hilaanit tariuqmut. Pikpat piqaniyuq, tamna CO₂ hatqiqitauyuq tariumit talvanga hatqiqitauyuq tariumit hilagiyanut. Nakuuhivalliqni tuhagakhat piyauni mikhigiaqni naunaqtut kiuninik una apiqut. Tamna nutaq tuhagakhat akhuqyumiyai qanuq kiunit naahuriplugit ukiup ilaani takukhauyuqulu hanahimania tariup (Titirauyaq 6: Piqaqvia uvaluniit kivinia: CO₂ Ukiurtaqtup imait ).

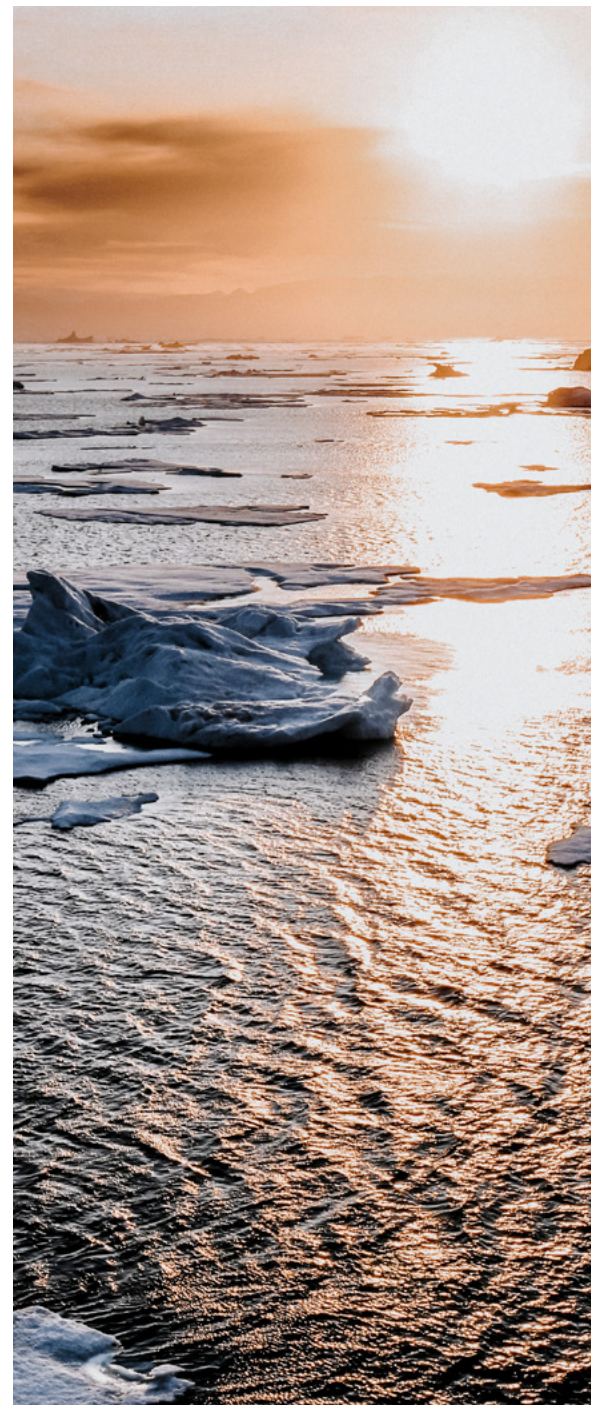


Tautugautiaqni

Tariuq Huruilaqni Akhurutaunit

Tariuq huruilaqni qanuritnia tamna tariuq pingupaliania huruilaqnia. Tamna hilagiya ilavaliqta CO₂ puqtunit piplugu inungnit huliniinut. Piyarangat tamna CO₂ akutyutaunia tariuq imaanut, pinguqtita huangaittuq huruilaqniq. Una huruqtitai uviluit niaquitlu hauni tariuqni uumayuvallit ulapihaqtailu atuqpaknit akutyutauni hugiaqnit pityuhitlu. Kihianik, ilaitni nunaliit avikhimanini, ahii pityuhit hugiaqtitai huruilaqnit tariuqmi ima.

Imait ataani 2000 miitat huniumaittut talvani Baffin Bay akuniuyuqpiamut—360-690 ukiut. Tamna takukhauni hunat tariup natiani huniumaitmiyut atuqtatlu aniqhakturnit hiqurturat, pipkaqta CO₂ piruqpaliania. Una pityutauyuq akhut huriuilaqnit naunaiqtaungittuq imaqni kuuktut tahamanga Ukiurtaqtumit talvunga uataanut Baffin Bay tamnal Davis Strait. Taimaingittuqli, ilavalianginnaqtuq huruilaqni naunaiqtaungittuq imaitnut kuuktut tahamanga Ukiurtaqtuq talvunga uataanut Baffin Bay tamnal Davis Strait. Tamna atuinangittuq qanuritnia tariunginnaqmi tariup imait. Imigaulaq ima kuugaqnit, tariup hikuanit, piqaluyait auktuqni, quttiktuqlu Ukiurtaqtumit tariup hinaa ima talvungaqnit Baffin Bay tamnal Davis Strait. Imigaulaq imaq ilaliutinia pivakniqhaq pipkaqnia tariuq huruilaqnia ingattaqnia. Uumani avikhimaniani, allatqiknia imigaulaq imaq ilulit talvani tariuqni ima puqtuhivalliaqnan CO₂ puqtunit munaqtai qanuritnit tariuq huruilaqni. Tamna Baffin Bay imait akhuqyumiyai qanuq atuqpiqnit naunairahuaqni pityuhit ikayuqhiutiyut akhut atuinayuittutlu huruilat iluani Kanatamiuni Ukiurtaqtuani.




Tariup hinaani imait pititlugu tariup hikua hiquptiqtitlugu auktuqpalianialu. Piksa: Getty Piksait.


Hivunmut


1 Iitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

 Tautugautiaqni: Hikuilrut

■  Tautugautiaqni: Tariuq Huruilaqni Akhurutaunit

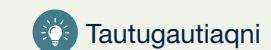
 Titirauyaq 6: Piqaqvia uvaluniit kivinia: CO₂ Ukiurtaqtup imait

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Piqaqvia uvaluniit kivinia: CO₂ Ukiurtaqtup imait

TITIRAUYAQ 6



Kikliqaqtut tuhagakhat takukhautitai Kanatamiuni Ukiurtaqtuq imait kiviviuyut taphumunga CO₂ – kihimik tamaangungittuq. Piyaliuyugut tuhagakhavallirnik kangiqhimayangi tamaat takunia.

Tamna tariuq hilaplu qilaa ahianguqinartaqtut CO₂

Piyarangat tariuq ilulliqnia CO₂ hilap qilaanit, taiyavut CO₂ kivinia; hapkuttittangit CO₂ tahamunga qilainnaqmut, pingurtuq CO₂ piqaqvia.



Aukturtuq hiku

Aukturnia imaq puktayuq qangani tariuqatqiyac imaup piqaqvigivalliqtal CO₂.

Ahinulaiqtitnia CO₂ hapkutnia

CO₂ ahinungalaiqnia ataani hikap qilamik anialaq hiku auktulirangat uvaluniit hiquptulirangat, pinguqtittugu hivikittumik CO₂ piqaqvia.

CO₂ ahiangurutigiya itihivalianiani

CO₂ qangani tariup allatqikpialaq imaqnit qanittuni tavaninnuaq unghiknilgit miitatigut ataani. Piyaaqtavut uukturaqnit amihuqpiant itinit tamaat kangiqhiyanga CO₂ himmiqtauta tariuqmi.

Imaq ingutarnia

Akutyuta ahiangurutaulaq hakugiknialu CO₂ himmiqtauta

Ukiup ilaa allanguqnia

Hudson Bay nuutpaktuq kiviviuyunianit talvunga CO₂ piqaqnia auyauhuiqhaligianit utiqhunilu kiviviunia ukiakhami.

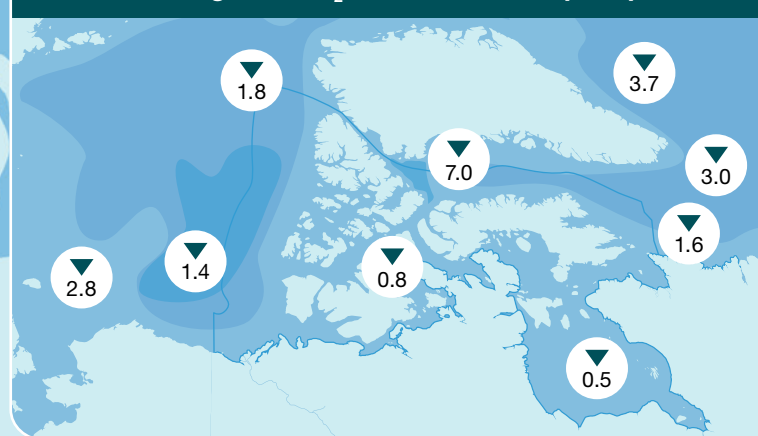
Kuukkap imaa

Kuukkat piqayuktut huruqpaliayunik hunanik, pipkaqtivaktat CO₂ hiqumitpalianinut. Una pipkalaqtat kuugaup ima qangani tariup piqarutigiya CO₂.

Nauhimaquvaluit immami

Nauhimaquvaluit immami piyagit CO₂ nauyanginik. Nauttiarangata atuqtitlugu hikuilrunia, pinguqtita CO₂ kivinia.

Tamna hakugiknia CO₂ kivihimania allatqiktuq inaitnit.



Aktilat mikhauhimaqut allatqilaqhutik atukhaqniqut. Uukturaqnit piyut C m⁻² ukiumut¹.

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1 Iitniq Piqatigikhuni

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☀️ Tautugautiaqni: Hikuilrut

☀️ Tautugautiaqni: Tariuq Huruilaqni Akhurutaunit

■ 🏔️ Titirauyaq 6: Piqaqvia uvaluniit kivinia: CO₂ Ukiurtaqtup imait

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

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☀️ Tautugautiaqni

🏔️ Titirauyaq



Qanuq Uumayut Hugiaqtut

Nutaq naunaiyainit pipkaiyut nakuutqiyamik kangiqhimani qanuq tariuq nayugauni allatqiknit ukiut ilaitni ukiunilu, taqniq qaumaniqlu, uunatqiyat niglaqtaqnitlu, inguraqnitlu hanayauyut piquaqitai niqauvaktut.


Tariuqni uumayut ilaa atatyutiqiaqtut ukiup kaivitnianut nayuqpakta ahianguqinut ilautitlugu hikuqaqni hikuilrutlu, taqniq qaumaniqlu, uunarniq qayurnaqliqlu, tikliqtaqnit hanayauni pipkaqta niqigiyauvaktut. Hivituuyuq pitquhi kaivittaqnit (naunaipkutariplugu, 10 ukiut) hilaplu ahianguqni ahianguqta

1. tariup hikua tariuqlu qaliriknia nayuqpakta,
2. akuhimanit ingilratyutitlu piquaqvit (niqauvaktut) nayuqtauvaknit, tamnalu
3. pivigiya atatyutailu tapkuat tariut hilaplu pityuhit, tapkuatlu imigaulat imait tariuqnilu nayuqtauvaknit.

Nayuqtauvaknit allatqiknit ahianguqnilu qanur-ityutaulat hiamaumaninut piquaqnit uumayunut, piyarangat qaphiunilu iqniangit, qanuqlu niriniaqnit angunahuaqnilu, humungauvaknilu. Qangahaq naunaiyaqni takukhautitai ilai uumayut atuq-palialaqtai nayuqtauvakni ahianguqnit, ilaali hivikittumut.

Uunnakpaliani: Hiku kuugaqlu nayuqtauvakni ahianguqni

Aqayait naunit ataani tariup hikua atuqpiatuq pinariqni niqiquaqviunit. Amihut nauhimayut, mikiyut uumayuvaluit qimiqluittut iqaluitlu nirilaqtai hiku aqayait piruqnit. Piyarangat aputy hikulu auktuqni, tamna aqayak hatqiqni hikumit qilamik niqaulaq niqikhaqhiuqtunit imaqmi uumayuvalu-itlu qimiqluittut tariup natqani. Piplugit ahianguqni tariuq-hikua nayuqtauvaknit, tamna pilaqni hiku aqayak ahianguqniqmiyuq. Nauhimayut tariuplu natqa nirivaktut allatqinik hunanik, kihimik ilihimait-tut qanuq piquaqluangitnia pilaqni hiku aqayait aktualaqni nakuunit uvaluniit allatqikni tariup natqa uumayuvaluit qimiqluittut.

Ayurnaqtuqtuq nalauttaqni qanuq nayugauvaknit ahianguqni pipkaqni uunnakpaliani aktualaqni ilit-quhit atuqpiaqnit uumayut tapkuatut Ukiurtaqtumi iqalukpiit (**Tautugautiaqni: Ukiurtaqtuq iqalukpik, ilihimaviuk!**). Allatqit kiutyutit takuyaulat inungnit tamaitnitlu inugiaknit piplugu avatai ahianguqnit amihuttaqni pityuhit (**Titirauyaq 7: Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqta ahianguqnit** ).

Tariuq hikua ahianguqni atuinaqniat aktuani tamaita tariuqni nayuqtauvaknit atatyutailu tapkuninga niqigiyauyut. Uunnakpaliani aktuaniaqmiyai naamaginit nayuqtauvaktut uumayunut tamaitnutlu uumayuvaluit.



Tariup hikua katihimayuq haniani Iqaluit, Nunavut, takukhautita naunit hikup aqayai. Piksa: Usaaraq Jari Aariak, DFO.


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 Titirauyaq 7: Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqta ahianguqnit


 Tautugautiaqni: Ukiurtaqtuq iqalukpik, ilihimaviuk!

 Titirauyaq 8: Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagait atuqni

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

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 Titirauyaq

Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqtai ahianguqnit

TITIRAUYAQ 7



Ukiurtaqtumi iqalukpiit hugiartaqpallirtut ataiungittumut ahianguqni nayuqpagaqtik. Una pinguiqtai pilaqnit akhurnaqtitlu.

Aulariat hivuranaqnit

Uunnakpaliani kuugaq imaa

Ilai kuugait uunnakpalliliqtut avataanut 20 °C

Iqalukpiit ukivakniqhat huvviuqtutlu tahiqni aulaqpakhutiklu tariumut auyami niriniaqhutik

Pitaqni ihuaqutt

Hivitutqiyag hikuittuq ukiup ilaa

Iqalukpiit tikinnarilaqtat tariuq nayukhatqiyaulugulu niriniariangi tariumi angutaqtik

Uunnakpalliqut nayuqtauvaktut hivuranalat Ukiurtaqtumi iqalukpiit huliniit aaniaqtailinilu

Iqalukpiit ahianguriaqatqai pitquhiqtik nalvaqni niglamatqiyat nayuqpaktait

Iqalukpiit ahianguqtitaulat pivigiyai uvaluniit inai kuukkat mayuqviuni ahiaguqnahaqhutik kuugaq uunaqnianut

Ukiurtaqtumi iqalukpiit ilitquhiliqutinut atuqpiartut Nunaqaqaqtut nunaliuyunut

Atuqpiaqtut niqiqattiaqninut, nunalikni niqiqattiarigutauyut, ilitquhit, inuuhiriknulu

Iqalukpiit uqhuqatqiyaulat nakuuniqhaulutiklu qanuritnit

Uukturaqni iqalukpiit huliniit takukhautitai hivuranaqnit uunnakpalianiqnut.

16 °C
Uumat akhuqnit

20 °C
Uumalluknit, huliniit kayumiqni

23 °C
Ungulaiqhutik

Hivvani hatqumiqviuni uunaqtumut imaqtut ikayulaqtai iqalukpiit naamaguhulaqni ilainut uunnakpalliqni iinaqnit.

Pityutaulat nakuutqiyaunit iqaluit nunalikut angutakhat

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4 Qanuq Uumayut Hugiaqtut

■ Titirauyaq 7: Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqtai ahianguqnit

Tautugautiaqni: Ukiurtaqtuq iqalukpiik, ilihimaviuk!

Titirauyaq 8: Agluraqniq: ilitpalliqni tapkuninga tariuqni angutikhat nayuqpagaqit atuqni

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

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Tautugautiaqni

Titirauyaq



Tautugautiaqni

Ukiurtaqtuq iqalukpik, ilihimaviuk?

Ukiurtaqtuq iqalukpik kihimik imigaulani imait iqaluk uumayut nalvauyut ungalani mikhaani 75°N hanimut. Tamna ungalani Ellesmere Qikirtaq!

Tamaita nunalit pilaqta Ukiurtaqtuq iqalukpik atuqtat niqikhauni.

Tamna Kanatamiuni Ukiurtaqtuani ikayuqta maniliurutit hatqiqpalianilu Ukiurtaqtuq iqalukpik iqalukhiurnit havaktitai Inuit.

Pipluni nigramayumit-atuliqnia uumayut pipkalaqta Ukiurtaqtuq iqalukpik qanurililaqliqpalaaqni hila ahityiqnianut.



Qulaani: Ivitaaruq. Piksa: Colin Gallagher. Ataani: Qakuqtut qinalukkat talvani Igluligaarjuk (Chesterfield Inlet), Somerset Qikirtaq, Nunavut, Kanata. Piksa: Getty Piksait.

Kiutyutit: Kinguvarit ingutaqnitlu pityutit

Pukkittut kinguvarit allatqikni tapkunani uumayut pipkalaqta uumayut pilaitqiyauni atulaqnit nayuqtauvaktut ahianguqni, piniqhamik nuktilaittut allatqinut inait. Nuanaipkutariplugu, nauhimayunnuit talvani James Bay piqikitqiyaaq minguvarit allatqigutai nauhimayunnuit tapkuat Kanatamiuni Pacific tamnalu Atlantic tungani-Ukiurtaqtuq. Piplugu pukkiytini kinguvarit allatqikni, tamna James Bay nauhimayunnuit kiliqaqtut pilaqnit atulaliqni nayuqtauvaktut ahianguqnit atatyutai uunnakpaliani, hikuiqnaritiqiyauni hiquptiqni, ilagiqnili imigaulat imaq ilaliutini.

Allautqiknia, ingutaqni uumayut piqatqiyat atulaqnit hungiutini nayuqtauvaktut ahianguqni. Ila amigaitni qakuqtut qinalukkat aqvitu qinalukkat atulaqniqta pityuhit aglurniq tikittangi angunahuaqtaqtik. Agliqni pitquhi ahianguqmiyut hugiaqinut inait talvani tikilaqta, pivigiya ukiumi, aktilangalu tariuq hikua avataini (**Titirauyaq 8: Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagait atuqni**). Tuugalgit, ihumagiyauvakhimayut ihuaqhigialaitqiyat ahiinit qinalukkat aulaaqtitlugit, takuyauvaliqttut kinguvaqni ukiakhami aularniq nigianut piplugu tariuq hikukitqiyaunia nayuqtaini. Tahamani Hudson Bay, katihimanit higugiktut pitsiulat nuutat nayuqpaqtaqtik unghahikni inaitnut hikukitqiyat. Tahapkuat nutat inait huli nigramanilgit naamaktumik imait angunahuaqtainut piyumaniqhat hikuqaqnik nayuqpaqtai. Ihuaqhigiaqtaqni nayuqpaqtai atuqni, piniqhamik ukiup ilaitni piyaqarangata uqhuliknik niqit, ikayulaqta tariuqni angunahuaqtit aniguini aktuanit hilap ahianguqni Ukiurtaqtumi.

Angiyumik-piyauni ahianguqni aulaaqpaqtut pitquhi takuyauyuittut tahamnai Kanatamiuni Ukiurtaqtuani, pigaluaqtitlugu tariuqni angutikhat tariumilu tingmiat pihimani nunagiyaini ihuaqhigiaqni hugiaqhugit nayuqpaqtai ahianguqni. Kihimik, tamna piqaqnia aqlut tamnalu qinalugaqyuat ilagiatqut tahamani kivataani Kanatamiuni Ukiurtaqtuani. Tapkuat qinalukkat aulalat unghahitqiyamut huniumaitnilu nutani inait piplugu tariuq hiku tammainia hikuilrukhaqni imaqniqiriya.

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1 Iilitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

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4 Qanuq Uumayut Hugiaqtut

Titirauyaq 7: Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqta ahianguqnit

■ Tautugautiaqni: Ukiurtaqtuq iqalukpik, ilihimaviuk!

Titirauyaq 8: Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagait atuqni

5 Uumayut Huniumaitni Nayuqpaqtailu Atuqni

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit



Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagaat atuqni

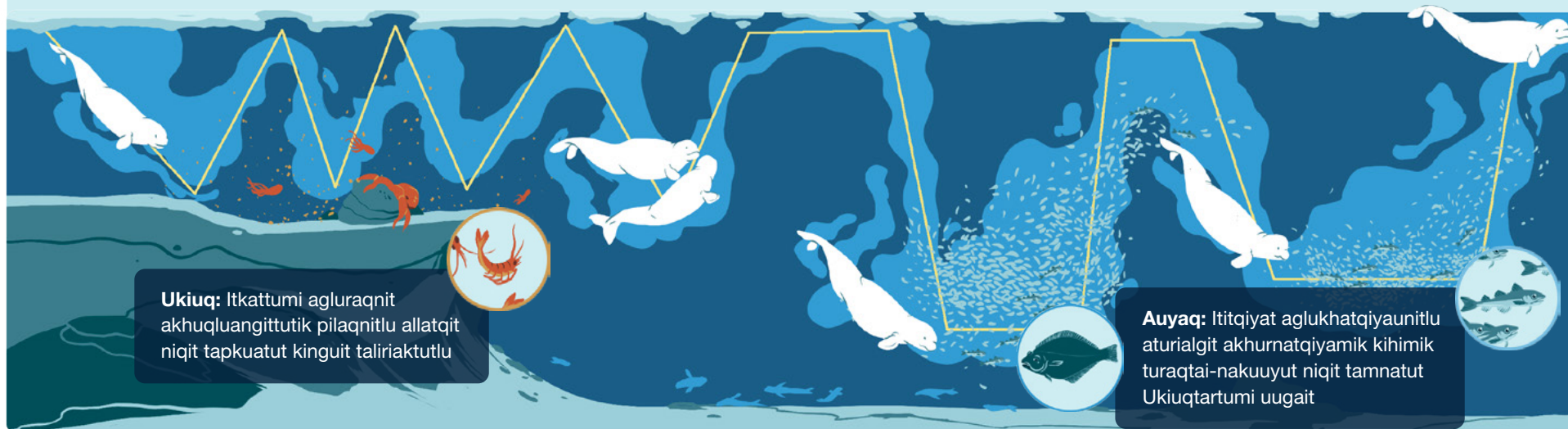
TITIRAUYAQ 8



Qinalukkat qakuqtut aqvitu qinalukkat ahianguqni ingutaqni kiuninik allatqit nayuqpaktai qanuritnit. Atuqtaktai allatqit aqpuqpaknit pitquhit qiniqhutik allatqinik qanuritnit niqit. Una ihuaqhigiatqalaqnit hugialaqtai ahianguqnit nayuqpaktaini qanurittunitlu niqit piyaulaqlit.

Qinalugaq qakurtuq (Kivataani Beaufort Tariuq amigaitnit)

Qinalugat qakurtut aglurqtut niriyaqit, unaguqhiqu, ingutaqni humulliqak, aulagaitlu tariup hikuqaqniagut. Tapkuat atuqtai amihut pitquhit agluraqnit naahuriplugit qanuriliuqnit.

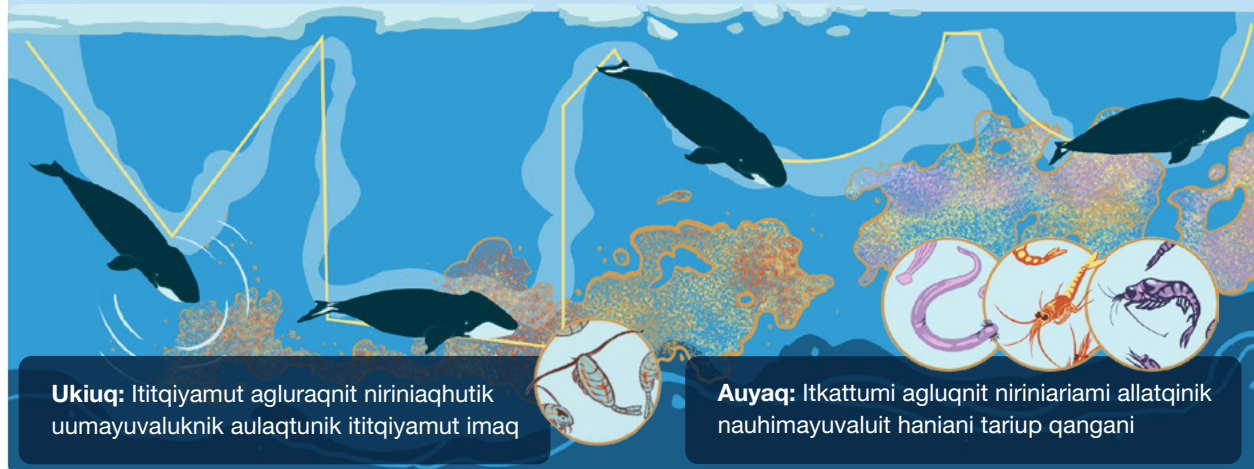


Ukiuq: Itkattumi agluraqnit akhuqluangittutik pilaqnitlu allatqit niqit tapkuatut kinguit taliriaktutlu

Auyaq: Ititqiyat aglukhatqiyaunitlu aturalgit akhurnatqiyamik kihimik turaqtai-nakuuyut niqit tamnatut Ukiuqtartumi uugait

Aqviq (Kivataani Kanata-Uataani Akukittuq amigaitnit)

Aqvit qinalukkat agluraqniqhat niriniaqhutik. Atuqtai V-tut aluraqnit qiniqhutik niqinik. Atuqtai naliak ititqiyamut, kikariktumik uvaluniit itkatqiyamut, U-tut agluraqnit turaqhugit angunahuagaqtik nirinitlu.



Ukiuq: Ititqiyamut agluraqnit niriniaqhutik uumayuvalluknik aulagaitunik ititqiyamut imaq

Auyaq: Itkattumi agluqnit niriniamik allatqinik nauhimayuvallit haniani tariup qangani

Aqvit qinalugaq ahianguqtai agluqpaknit atuliqtaqni allat nayuqtauvaknit inaitlu

Kanatamiuni Ukiurtaqtuq Nunagiyait

- Aulagpaknut unghak-tumut
- Atuqtai itkatqiyat unghaknit
- Pivalliqtaq agluqnit auyami ukiakhamilu
- Niriniaqtut akuhimayunit nauhimayuvallit

Uataani Baffin Bay tariunga

- Huniumaittut haniani atauhiq inaani
- Auqtaq ititqiyant agluraqnit
- Piyai ayyikkinik qahiuni agluraqnit tamaat ukiup ilaani
- Niriniaqniqhat uqhuliknik uumayuvakunnit

Hivunmut

1 Iitniq Piqatigikhuni

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Titirauyaq 7: Hugiaqnit Ukiurtaqtumi Iqalukpiit nayuqtai ahianguqnit

Tautugautiaqni: Ukiurtaqtuq iqalukpik, ilihimaviuk!

Titirauyaq 8: Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagaat atuqni

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Tautugautiaqni

Titirauyaq

Uumayut Huniumaitni Nayuqpaktailu Atuqni



Pilik nakuuhivalliqni ilihimanit tapkuat humi uumayut nayuqta, naliat nayurumaniqhauyai, allatqiknilu uumayut nayuqat tamna Kanatamiuni Ukiurtaqtuani imait.

Nutat tuhagakhat huliniit unniqtai tapkuat inait uumayut allatqini pivigiyait inikhaitlu aktilat. Taima qaglivalliqhugu tamna Kanatamiuni Ukiurtaqtuani, ihumagiyavut pingahut alktilat:

1. **Ukiurtaqtuq-tamaat**— ilaqalaq atatyutai tapkuat tamna Ukiurtaqtuq ahiilu tariut
2. **tariup hinaa**— tamnatut hinaa imait itkatqiyat taphumanga 20 miitat
3. **mikiyuq**— tamnatut miitamik imaq iluani nauhimayut nauttiaqnit

Puqtunit allatqit uumayut takukhautitai qanuq tapkuat aktuanit avatigiyai qanuqlu huniumaitni tahapkuat uumayut piyangit.

Ukiurtaqtuq-tamaat aktilaq

Naunaiyautit attaqutiginia amaat Kanatamiuni Ukiurtaqtuani nutanguqhimayai ilihimanit uumayut hiamaumanit allatqiknilu. Naunaipkutariplugu, avataani 400 havakvit humiliqak Kanatamiuni Ukiurtaqtuani, uqhulgit nauhimayut *Calanus hyperboreous* nalvauyut

tapkunani 93% havakvikni tamnalu *Calanus glacialis* talvaniittut 100%. Ahii mikitqiyat uumayuvaluit (naunaipkutariplugu, *Oithonia similis*) tahamanitmiyut tapkunani 93-100% havakviuyuni (**Titirauyaq 9: Atuqpakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit** 🌊). Una tukilik tamna atuqpiqnia angunahuaqnit tariuqni iqaluit aqvitu qinalukkat taty piyaulat humiliqak Kanatamiuni Ukiurtaqtuani imaitni.

Talvani Ukiurtaqtuq-tamaat aktilaq, tamna allatqikni uumayuvaluit qimiqluittut nayuqat tamna tahamanilu tariup natqani naunaiyatqikhaqtakmiyuq. Qangahaq naunaiyainiq nalvaqtai 1552 allatqit qanurittuni (taxa) uumayuvakluit qimiqluittut, tapkunanga 560 taxa avataani nalvauhimayunit hivuani. Huli, una nutaq naunaiyaqni pilarunaqhiyuq huli tungauhimagiyai tariup natqani uumayuvaluit. Amihut ilitauvaliyut tapkuninga tariuqni angutikhat, iqaluit, tingmiatlu hiamaumani atuqtitlugu tapkuat ukiup ilaani ingutaqnit. Tariuqni, immap itinia pipkaiyuq atuqpiqatumik pipkaqni tapkuat qinalukkat katitvi qanuqlu atuqta nayuqtauvaktut niriniaqnit



Hivunmut

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4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

🌊 Titirauyaq 9: Atuqpakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit

💡 Tautugautiaqni: Aupayaqtut Iqaluit Hatqiphaqni

💡 Tautugautiaqni: Tariuqni Aput

🌊 Titirauyaq 10: Nunalikni takuyaunit: naunaiqhimani tariup hinaani uumayuvaluit

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

💡 Tautugautiaqni

🌊 Titirauyaq

Hiqiniq ubluriaq, miluktalat, nauhimayaqtut uumayuvaluit katitigauyut tahamanga tariup natqanit uataani Kanatamiuni Ukiurtaqtua. Piksa: Caity Allison, DFO.

(Titirauyaq 8: Agluraqniq: ilitpalliqli tapkuninga tariuqni angutikhat nayuqpagaat atuqni).

Tapkuat aulaqpaknit tariuqni tingmiat uukturaqta-
ulat unghinigut qangattaqtihimayunut naun-
aiqtutit, uqittut nunanut naunaiqtutit, mikiyutlu
hivuniqhiutit (GPS) hanalrutit. Nutat naunaiqtutit
tariuqni tingmiat naunaiqtai unghiktumut atatyutai
talvunga Antarctica (Ukiurtaqtuq iqilgagiat), Indian
Tariunga (pamiuquqtut ihungait), Tariumi Okhotsk
(nauyat), Tariunga Mexico (nauyaquyuit), amihunilu
inait talvani Pacific tamnalu Atlantic Tariungit.
Kangiqhimani tahapkuat unghiktumut atatyutai
piyalgit naunaiyariangi aktualaqnit angitqiyamut
avatiliqutit inungnutlu qanurilipkaqni tamatkiknut
Ukiurtaqtuq ivaviuni nunat amihutlu nigiani ukiivak-
nit nunat.



Atuqpakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit TITIRAUYAQ 9

Akligiqpiaringit Calanus hyperboreus Calanus glacialis Metridia longa Oithona similis

Tariup hinaa aktilanga

Tahamani tariut hinaani inait, Nunaqagaqat
Ilihmani nunaliknilu-hivuliqtut munaqtauni piqaqti-
tai kangiqhimanit hivuani tatyalu uumayut allatqikni
ahiangunilu tariuqni angutikhat iqaluitlu hiamau-
manit aaniaqtailinilu. Qangahaq ukiuni, Ukiurtaqtuq
nunaliuyut tuhaqhitautit takunngaqtat uumayut
takuyauvaknit. Tahapkuat takuyauvaknit takuti-
laqtai nutpaliani uumayuni tikitpaknit, takuttirittut
uumayut, uvaluniit uumayut tikitni piplogu akhut
nuutni tariuqni avatigiyai **(Titirauyaq 10: Nunalikni
takuyaunit: naunaiqhimani tariup hinaani
uumayuvaluit).**

Atuqhugit amihuqpiat pityuhit ilihmani pivaliqtitai
kangiqhimani takuyaungaqtut takuyaunit niriuknait-
tutlu hulinit. Nunaqagaqat Ilihmani qangiqitutlu
tatyalu uumayut piqarutauyut ilitturini tapkuat
atuqtauvaknit atuinayuitut niriuknaittutlu, ilaali
tahapkuat nutanguyut. Nunalikni-hivuliqtauyut
tautugauni piqaqtitai nakuutqiyamik kangiqhimani
qinalugaqyuat takuyaunit talvani Eclipse Sound tai-
manga 2014 aqvitlu ukiivaknit nutani inait. Tamna
qinalugaqyuat aqvitlu takuyauni atatyutiyut tar-
iuq-hikua ahianguqnia tautugauyuyq nunaliuyunit.

Tariuqni inait, tapkuat nayuqtauyumaniqhait
Ukiurtaqtuq iqalukpiknit taimaittutlu uumayut
(naunaipkutariplugu, Dolly Varden) atatyutiqpi-
aqtut immap uunaqnianut tariuriknitlu puqtunit

nakuuniqhamik ikayuqhiutiyut timigiyainut huliniit
(naunaipkutariplugu, huliniit aqiruqmiungilu)
angunahuaqpaktailu. Nutat tuhagakhat naunaiqtai
ilikkut Ukiurtaqtuq iqalukpit aulalat iluani hikuqagtut
kuugait tariumutlu imait ukiumi. Iqaluit talvunga
Kugluktuk Kuugaq nuuttut hituplutik talvunga 18
kilaamitat tariunginnaqmut ataagut tariuq hikua-
gut (Kitikmeot avikhimania Nunavut) talvani ilai
pukkitqiyat Ukiurtaqtuq iqalukpit timai uunaqni
titiqtauyut. Una hivuani titiqhimaittut ukiumi nuk-
tiqnit takukhauitit kuugait atuqpiagtut atatyutai
tapkunanga imigaulaq imaqt tariuqlu uumatyutauyut
ukiuq-tamaat, kihimitungittuq hiku auktulirangat.



Haumingni: Frank Dillon tigumiartuq iqalukpikmik talvani Big Fish Kuugaq (Yukon). Piksa: Colin Gallagher, DFO. Taliqpiq: Aqviq. Piksa: Justine Hudson.

Hivunmut

- 1 **Ilitniq Piqatigikhuni**
- 2 **Atatyutiyut, kihimik Allatqit**
- 3 **Nutanguqtauni Niriugiyauyut**
- 4 **Qanuq Uumayut Hugiaqtut**
- 5 **Uumayut Huniumaitni Nayuqpaktailu Atuqni**
 - Titirauyaq 9: Atuqpakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit
 - Tautugautiaqni: Aupayaqtut Iqaluit Hatqiphaqni
 - Tautugautiaqni: Tariuqni Aput
 - Titirauyaq 10: Nunalikni takuyaunit: naunaiqhimani tariup hinaani uumayuvaluit
- 6 **Kangiqhimani Qanuq Uumatyutit Atuqat**

Nutqarutaanit



Mikiyuq aktilaq

Mikiniqpaamik, puqtunit immap iluani qunngialiuqnit (**Tautugautiaqni: Tariuqni Aput**) hatqigtita qanuq qangalu ilikkut nauhimayuvaluit hunangurutai pigiaqtut nipitutit atauttimut ilagiknit kiviplotiklu. Una qunngialiurniq pitquhiliqut takukhautita uumayuvaluit nauhimayut maliktai ilagit, niriniaqni ilikkuqnatik aglivaliatyutai katihimatqiyauplutik qanganut. Una unniqtuttiaqnia unniqtut uumayut huliqatigikni ikayuqtut kangiqhimani qanuq qakugulu ikumatyut nuktiqni ataani tariuqni niqauvaktut.

Aktuanit huniumaitnilu

Ilai nutat ilihimani tapkuat uumayut unniqtai aktualaqnity uumaityutainut. Huruilat aqayait piruqtut turaqrutaayut ququnait tariup natqani uumayuvaluit qimiqluittut (naunaipkutaripplugu, amnesic tamnalul paralytic uvilulgit iqaluit tuqunait) nalvauyut tahamani uataani Kanatamiuni Ukiurtaqtuani. Tapkuat tuqunait puqtunit pukitpiaqtut, tahapkuatlu uumayuvaluit qimiqluittut angunahuaqtaungittut nunalikni nunaliuyunit. Ilihimaungittut huli hivuranariakhait aqatait nauttiaqhimani takukhauqataliqmata tahamani Kanatamiuni Ukiurtaqtuani.

Nunaliuyut munarinnaqtai iqalukpikyuat tahamani Kanatamiuni Ukiurtaqtuani. Tapkuat hivullit anguyayut iqalukpiaqyuit iqalukpikyuat haniani Kanata/USA avikhimani (Kaktovik, Alaska) naunaigtai huvviuqnit tahamani North American Ukiurtaqtuani. Qanurityutani immaqak pilaqnit ilavaliani iqalukpikyuat tahamani Ukiurtaqtu kuugait huli naunaqtut ahiinut iqaluit inungnutlu naahuriyainut.

Piqangittuq naamaktumik hivituyumut amigaitni tuhagakhat naunaiaiyinut puqtunit tamna nungut-tailini qanuritnbit amihuniqhat tariuqni uumayut tahamani Kanataup Ukiurtaqtuani. Malruk uumayut tariuqni tingmiat atuqpiaqtut hivuranarutaunit: tamna



Tautugautiaqni

Aupayaqtut Iqaluit Hatqiphaqni

Akukittuq nataqnait malruklu kinguit uumayut (ukiurtaqtuani taqhalgitlu kinguit) maniliurutaayut iqalukhiuqtauyut tahamani Kanatamiuni Ukiurtaqtuani. Taimanga 2020, maniliurutit angutai kinguit tahamani Davis Strait ilautitlugu angutaigut amihut iqalukpiaqyuit aupayaqtut. Iqalukhiurutit ahianguqtauyut mikhigiaqni angutaitigut kihimik ilikkuqni iqalukpiaqyuit aupayaqtut kinguitlu ayuqnaqtut kihimik ayyikkutai aktilat.

Ilihimaungitmat hungmat ilaini ukiuni amihuqpianguni auoayaqtut iqaluit talvani Davis Strait. Taimailittarangat, aupayaqtut iqaluit niriniaqtut kinguknik, Ukiurtaqtuq uugaqnik ahiilu uumayut atuqtaukmiyut. Aupayaqtut iqaluit niriyaulaqmiyut maniliurutauni kinguit uumayut. Tamna atuqtaunahuaqni angunahuaqtaunilu pipkaqtai aupayaqtut iqaluit aktuanit tamaat niqigiyauvaktut – tamaita piyauni tikitlugu qinalugait tingmiatlu. Tamna hatqiqpaliqtitnit aupayaqtut iqaluit nakungit-tumit aktuani kinguit tapkuatlu Akukittuq Nataqnait iqalukhiqunit.



Kipluqhimayuq kinguk. Piksa: Claude Nozères, DFO.

qiqnariktuq pitsiulat tapkuatlu nauyat. Taphumunga tariuqni angutikhat, qangahaq atuqniqhat kititauni tapkununga Kivataani Beaufort Tariuq qakuqtut qinalukkat, tapkuat nalvauyut huniumaittut amigaitnit 38 000. Tariuqni angutikhat amigaitni kititnit aturniqhat atuqtauni tamaat 5 ukiut, hivitutqiyamutluniit, taihimayunut amigaitnit. Kihimik ukiuq tamaat, maniliurutauni iqaluit kinguitlu piqaqnit munaqtauyut tahamani Baffin Bay, Davis Strait tamnalul kivataani Hudson Strait. Tahapkuat takukhautitai aaniarutaittut amigaitnit Akukittuq Nataqnait ukiuqtaqtumilu taqhalgitlu kinguit, pigaluaqtitlugu ilavaliani iqalukpiaqyuit aupayaqtut (**Tautugautiaqni: Aupayaqtut Iqaluit Hatqiphaqni**) hivuraraharutaulat kinguit niriplugit pinahuaqtaunilu niqikhaunit.



Tautugautiaqni

Tariuqni Aput

Takukhauttiqiaqni immap iluani takukhaunit takukhautitai ukiup ilaani piruqpaliani ahinuktaunitlu ilavaluit pinguqtauni atuqtitlugu kinguagutlu nauhimayuvaluit nauttiaqnit talvani Baffin Bay. Nauhimayuvaluit aglivalityutai hunavaluitlu talvanga hiqumit-paliavi aqayait nipittut katitaunit ilavalu-inut. Tamakuat ialvalui katakpaktut talvuna imakkut aputiqlalukhutik. Tamna nutaq takukhauttiqatut piksait takuhautitai qaphiuuni qanurittunilu ilavaluit ahianguqni atuqtitlugit – hikuqaqtitlugit ukiumi hiku hiquptiqnianut upinngami imaqaliqhiqhugu auyami. Una unniqta hungmayt nauhimayuvaluit nutpakni aturiakhai allatqit ilagiyai nayuqpaktai pitaqtitlugit piqaqnit tariuqni aput.

Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

Titirauyaq 9: Atuqpakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit

■ Tautugautiaqni: Aupayaqtut Iqaluit Hatqiphaqni

■ Tautugautiaqni: Tariuqni Aput

Titirauyaq 10: Nunalikni takuyaunit: naunaiqhimani tariup hinaani uumayuvaluit

6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

Nunalikni takuyaunit: naunaiqhimani tariup hinaani uumayuvaluit

TITIRAUYAQ 10



Nunaqaqaqtut Ilihimani kinguvariinit piqaqtitai ilihimatyutaunit naunairiangi uumayuyakhai nutani inait, uvaluniit takuqattagaungittangi huli titiraqhimaitnit.

Ukiurtaqtumi nunaliuyut tuhaqhitautai takuqattagauyuittut takuni uumayut unghahiktuini inait takuyauvigivaktainit. Nunaliuyuq angunahuaqni atuqpiaqtut titiraqninut tahapkuat uumayut.

Piksa: Matt Gilbert.



Nunaliuyut munaqtaï tapkuat attaqtuhivalliani iqalukpikyuat tahamani Kanataup Ukiurtaqtuani. Amihunguqpaliayut uumayut nalvauni angutaini (aupalluqtut iqalukpikyuat hamani).

Piksa: Pakak Picco.



Ilihimayuyut hiamaumani atuni uumayut Nanitnit takuyaunit

Aupalluqtut iqalukpikyuat



Iqalukpikyuat iqalukpait



Kalaaliit eqalussuaq



Nunaliuyut humiliqak Inuit Nunangat atuqtaï inungnut tuhagakhaliurutit atapkaqni ilihimanit atuqatigikhugit takuyauyut.

Piksa: Usaaraq Jari Aariak.



Atunayuittut huliniit tamnatut iqalukpikyuat iqalukpait hilataani atuqpaktaita nayuqtaï immaqak atullakta ahianguqnit atatyutait tahapkuat tariuqni avikhimani.

Piksa: Warren Metcalf/Shutterstock.



Hivunmut

1 Iitniq Piqatigikhuni

2 Atatyutiut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

Titirauyaq 9: Atupakniqhai aktilat ilai Ukiurtaqtumi uumayuvalunnuit

Tautugautiaqni: Aupayaqtut Iqaluit Hatqiphaqni

Tautugautiaqni: Tariuqni Aput

Titirauyaq 10: Nunalikni takuyaunit: naunaiqhimani tariup hinaani uumayuvaluit

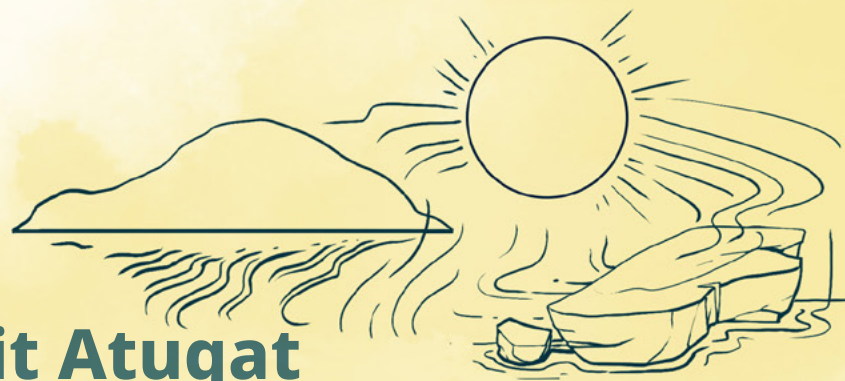
6 Kangiqhimani Qanuq Uumatyutit Atuqat

Nutqarutaanit

Tautugautiaqni

Titirauyaq

Kangiqhimani Qanuq Uumatyutit Atuqat



Piqaqpallirtuq itiniqhanut naunaiyainiq kangiqhimani qanuq uumatyutit havakni hunatlu aktuanit huliniit anniumanilu ilai tariuqni uumayut.

Kangiqhimani amihut tukliriknit piplugit ahianguqnit tariuqni atuqpiarialgit uumatyutinut aulatyutait. Talvani qangahaq ukiuni, piqatigiknit tapkunanga uumayut avatiliqutitlu naunaiyaqtauvaktut humiliqak niqigiyauvaktuni avikhimanilu. Una pityutauyuq nakuutqiyamik unniqtutai niriugiyauyut kiutyutit ahianguqninut.

Uumatyutauyut munarutaanit: Tamna Hiqiniq

Tamna Hiqiniq tariuqnu hikua atuqtut angiyumik pityutaunia munaqninut Ukiurtaqtumi tariuqni niqauvaktut. Tapkunani ilaini inait, tamna aktilaq qumania ubluqaqnia ahianguqtut piitttunit talvunga ublua tamaat atuqtitlugu Ukiurtaqtuq ukiungani (**Titirauyaq 11: Humi nanilaqiuq unnuaruqtumi hiqiniq?** 🗺️). Tamna niqauvaknit kiutyutaunia utiqnianut HIqiniq atuqniqhaulititlugu. Tamna nutaunia hiqinniqaattaliqnia tariukkut hikuagut talvungalu tariut munariyauni tapkunani piyarangat hiku aqayait nauhimayutlu aglivaliani. Tapkuat aglivaliani piqarutauyut uumatyutauninut ikayuqta amihuniqhat niqauvaktut. Aput kataknia hikumut talut-tautaulaq nuktiqnianut hiqinnarniq piyalik piruqpalianinut kinguaqut taqpiaqnia ukiumi. Nutat naunaiyaqni talvanga Baffin Bay takukhautitai tamna 100 amihuiqtaqhugu qaumatqiyaq anigulaq hikukkut malruinaqni havaguhik aput auktuqpaliarangat. Tamna tariup qanga nayuqtauvaknit qilamik uummaqtuq ataani huni-maitniani aput hikulu. Kihimik naamaktuq nutaq aput kataktuq,



Tariup hinaa takuniaq haniani Qikiqtarjuaq, Nunavut. Piksa: Getty Piksait.

Hivunmut

1 Iilitniq Piqatigikhuni

2 Atatyutiyut, kihimik Allatqit

3 Nutanguqtauni Niriugiyauyut

4 Qanuq Uumayut Hugiaqtut

5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

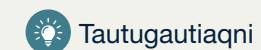
6 Kangiqhimani Qanuq Uumatyutit Atuqat

🗺️ Titirauyaq 11: Humi nanilaqiuq unnuaruqtumi hiqiniq?

🗺️ Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu

🗺️ Titirauyaq 13: Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni

Nutqarutaanit



Tautugautiaqni



Titirauyaq

hiqinnaqniq talutyutigiya nutatlu aglivaliani nutqa-kallaktut. Piplugu naamaktumik hiqinniqli, tapkuat nauhimayuvaluit amigaitni qilamik agliyut, piqaqtit-tugit niqaunit angutikhavaluknit.

Kaivittaqni hiqiniqnit pipkaqta amihut Ukiurtaqtuq nauhimayut iqaluitlu aulaqni qunmut anmutlu imaqmi naliqarini qau tamaat takuyauttailip-lutik angnahuaqtinit. Tapkuat nuutai niqigiyau-vaktut uumarigutai nuuttarangamik qunmut anmutlu. Nutaq naunaiyaqni tahamannga uataani Kanatamiuni Ukiurtaqtuani takukhautitai tapkuat ilagiya qakuktut qinalugaq aularni atatyutilgit kaivittaqni hiqinarniq. Talvani ukiakha Hiqiniq huli atparangat unnuliqtumi, qakuktut qinalukkat takukhautitai naunaittut hiqiniqni-turangayut ingutaqnit imaqni ititqiyat taphumanga 700 miitat: itkatqiyat agluqnit tatqiyauyarangat ititqiyatlu aqluqnit qaumatqiyami ubluqtunia.

Uumatyutauyut munarutaunit: Tariup hikua

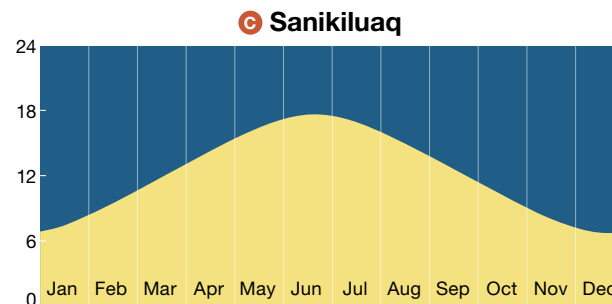
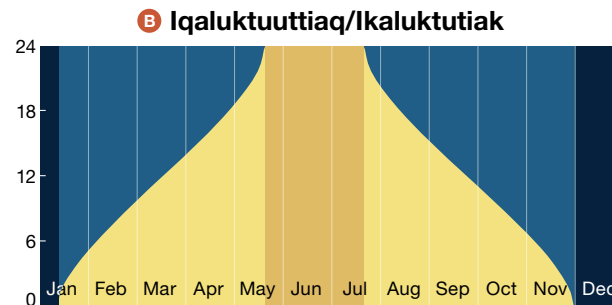
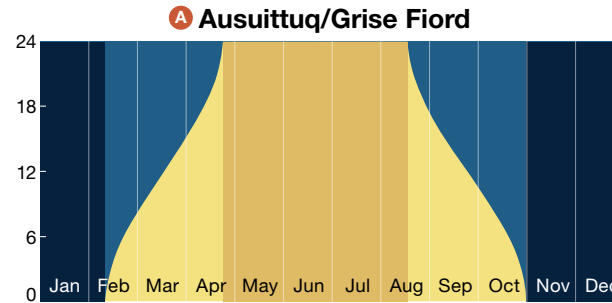
Ihumagiplugit kiutyutit hikuiqnaritqiyauuninut piyalik kangiqhimavalliqlia qanuq tariup hikua munaqnit uumatyutit. Una ahianguqnia pin-guqtita hivitutqiyamik hikuilruq pivigiya. Humiliqak Ukiurtaqtumi, hikuiqnarinqia niriugiyauyuq ilavalliana hanayauninut tunngatani niqauvaktut ihuaqutaunilu tamaitnit. Kihimik tamna ilagiqnia atuqtani huli naunaqtuq titiqnia talvani Kanatamiuni Ukiurtaqtuani. Hikuilruq pinariqpallaq kikliilittauti-laq ihuaqutainik, naunaiyautit takukhautit. Taty takukhaulruqtut hiku hiquptiqnia hivuani Juni hatqiqtai pilaqni nauhimayut manniit uniuqni-aqat nakuuniqpaq niriniaqvia (Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu). Taimaittumik, ikityqiyat manniit pivaliani iniqninut, iniqnilu aglivaliani kayumiittut. Una taima mikhigiq-aqta niqigiyai manniit Ukiurtaqtumi uugait, kiklii-ityutai aglivaliani iniqninut. Hikumit-pipkagayut

pivigiainut niqi nauhimayut pityutauyutuanguqit-tuq ayyikkikngitninut. Piyulat niqit nakuluangi-lat tapkununga manniit. Una atuhaqtuq talvani Baffin Bay tapkuat nauhimayut (Pseudo-nitzschia) takukhaulruqtut hatqiqtitni tuqunaq (neurotoxin domoic tuqunaq). Una nutqaqta uumayuvaluit niriniaqni, pigaluaqtitlugit nakuuyumik pivigiya piruqnit (Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu).

Tariup hikua allanguqtuq humiliqak Kanatamiuni Ukiurtaqtuani (Titirauyaq 3: Tariup hikua ahi-anguqnit), huli kityutit atauhiqmit uumayut allatqilat allatqini inaitni. Tamatkikni Baffin Bay tamnal Beaufort Tariuq, tapkuat anniumani manniit Ukiurtaqtumi uugat iniqhiqhgugit aktuayayut tariup-hikuanit katittaqnit imaqlu uunaqnia. Talvani Baffin Bay, tamna pivigiya tariup-hikua hiquptiqnia hakugiktumik atatyuta anniumani Ukiurtaqtuqmi uugat manniit. Tamna ayyikkuta hakugiktumik atatyuta nalvaungittuq talvani Beaufort Tariuq (uataani Kanatamiuni Ukiurtaqtuani) pigaluaqtitlugu tamna hiku hiquptiqnia ahianguqnia tatqimik avataaniluniit (Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu).



Ukiuq → Auyuq → Ukiuq



24-ikarat unnuaq 24-ikarat ubluq
Unnuaq/ubluq

Hivunmut

- 1 Iitniq Piqatigikhuni
- 2 Atatyutiyut, kihimik Allatqit
- 3 Nutanguqtauni Niriugiyauyut
- 4 Qanuq Uumayut Hugiaqtut
- 5 Uumayut Huniumaitni Nayuqpaktailu Atuqni
- 6 Kangiqhimani Qanuq Uumatyutit Atuqat
 - Titirauyaq 11: Humi nanilaqiuq unnuaruqtumi hiqiniq?
 - Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu
 - Titirauyaq 13: Tahamanga nunamit: niqayut tapkuatlu carbon iluanukpaliayut tariuqni

Nutqarutaanit

Qunmukni anmuknilu uugat uumayuvaluitlu

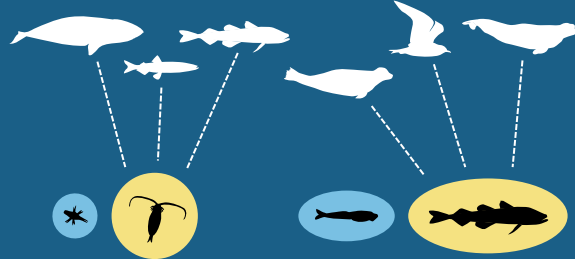
TITIRAUQAQ 12



Tamna anniamani nauhat uumayuvaluit tapkuatlu Ukiurtaqtuq uugat naahuriyai amihuttaqni qanuritnit nayuqtaini. Anniamani iniqhiqhugit akhut allatqiktuq tapkunanga ukiunit.

Ukiurtaqtumi uugat uumayuvaluitlu taiyauyut natqaniutat uumayut

Tapkuat atuqpiaqtut niqauni amihunut iqaluit, tariuqni angutikhat, tingmiatlu



Anginiqhat, niqaritiqiyat iniqitut – aglivalialihangittut uumaninit – piyauyumaniqhat angitqiyant angunahuaqtunit

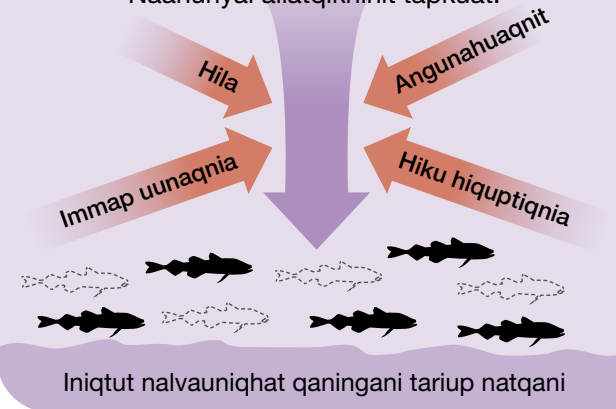
Pivakta avataani atauhiq ukiuq tapkununga Ukiurtaqtumi uugaq pivaliatitni huvakmit

Aglivalialihat uugat nalvauyut qulvani imait qalirikninit



Qaphit iniqtilihat Ukiurtaqtumi uugait anniunavat?

Naahuriyai allatqikninit tapkuat:

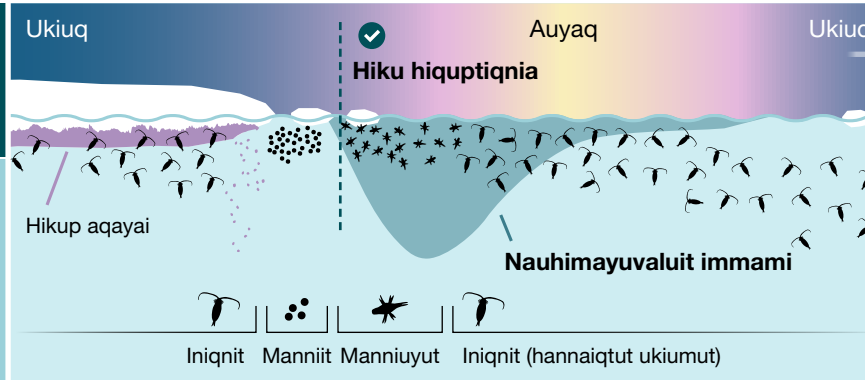


Uumayuvaluit aglivaliyut huvakmit piqaqtutlu amihunik aglivaliani tukliriknit allangatqiyatlu iniqitunit. Ilai iniqitut uumayuvaluit aulapaktut ititqiyamut imaqmut ukiiyaqtuqtut.

Uumayuvaluit manniuyut piyalgit nakuuniqpanik pilaqni niqit: tamna hivulliq ila nauhimayut uttiaqnit.

Ayyikkiktitni ✓

Manniuyut pivaliayut naamaktumik niriniariangi nakuuniqpanik ilaa nauhimayut nauttiaqnit. Manniuyut agliyut iniqninguqhutik.

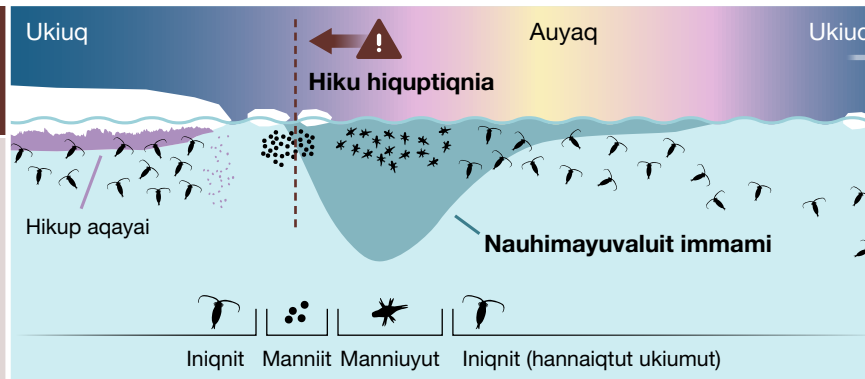


Akhurnaq: Pivigiya

Atulihaqnia hiku hiquptiqnia, atulihaqnia nauhimayut nauttiaqni.

Ayyikkingittut ⚠

Tahamani Beaufort Tariuq, tapkuat manniuyut pivaliahimaittut naamaktumik ihuaqtauyakhai nakuuniqhainik nauhimayut nauttiaqni. Ikitqiyat manniuyut agliyut iniqhiqhutik.

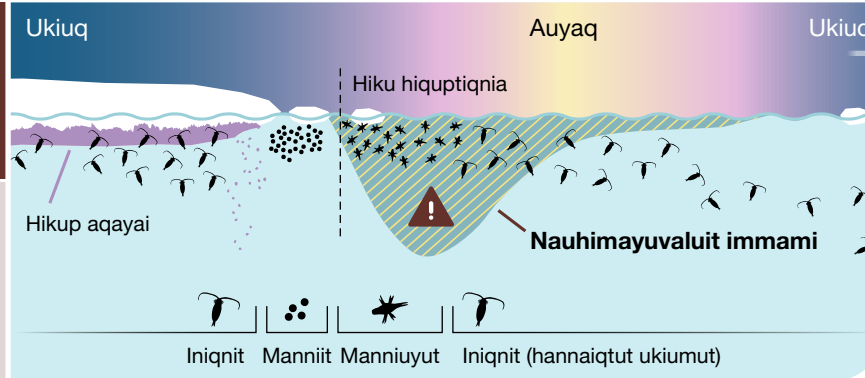


Akhurnaq: Naamagittiingitni niqit

Manniuyut pivaliayut atuqhugu nauttiaqni – pivigiya naamanaqtuq. Kihimik, tamna nauhimayut uumayut ihuaqtaungittut.

Ayyikkingittut ⚠

Talvani Baffin Bay, nauyut nauhimayunnuit nauttiat hatqiqtitiyut tuqunaqnik niqaulaittutlu uumayuvaluknit. Ikitqiyat manniuyut agliyut iniqhiqhutik.



Hivunmut

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5 Uumayut Huniumaitni Nayuqpaktailu Atuqni

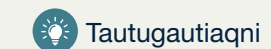
6 Kangiqhimani Qanuq Uumatyutit Atuqat

Titirauyaq 11: Humi nanilaqiuq unnuaruqtumi hiqiniq?

Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu

Titirauyaq 13: Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni

Nutqarutaanit



Uumatyutauyut munarutaanit: Niqauvaktut

Niqauvaktut (naunaipkutariplugu, takukhaungit-tuq nitrogen, phosphorus, silica) piqaqti-tai niqauni atuqpakninik niqauvaktut. Qanuq niqigiyauyut hiamaumavat humiliqak tahamani Kanatamiuni Ukiurtaqtuani qangahaq naunaiya-qtayut, nutanguqni atuqniqpat kangiqhimani tapkuat niqigiyauyut pitaqvit. Naunaipkutaupluni, taimaittuq tatya kangiqhimayauyut tapkuat imait humingaqnit talvanga Atlantic Tariuq piqaq-via tikittugu 25% Kanatamiuni Utaqkunnaga niqauvaknit talvunga Kanatamiuni Ukiurtaqtuani Inigiyaini. Tamna hivuani mikhautni pihimaya 5%. Tariut hinaani inaitni, piqaluyait auktuqni imaq pipkaqtai niqauvaktut ungalata kivataa-nut Kanatamiuni Ukiurtaqtuani malrukni pityuhi: turaqhugu piqaqtitni mikkatat niqauvakni tapkuatut

iron tamnalu manganese, niglamaqpiqaqniu, katipqaqnia auktuqtuq imaq kivinit, tinuya imaq qunmut itiniqmity niqauvaktunut nauhimayut atquni (**Titirauyaq 13: Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni** 🌱).

Takukhauyut carbon i.maqni atuqpiaqmiyut tariuqni niqauvaknit. Malruk takukhauyut carbon atuqpiaqtit niqauvaktunut. Pikpat una carbon mikkitqiyani ilannuanga puyuuq, taiyauyuuq akut-tuq carbon. Mikkatannuit (naunaipkutariplugu, aaniarut) uvaluniit ilagiyai pivigiyai uumayut takukhauyut pityutai aupaanik qanurittuni: ilannu-anga carbon. Ilayut tatya kanguqhimani tapku-nunga ingutarutai munaqtauni ilagiyat tamatkikni carbon qanurittuni kuugaqni, nuna tariumilu. Kuugait ilagiyai angiyut aktilat takukhauyut carbon tariup hinaani tariumilu tiqauvaktut. Hivituyumut pitquhit (naunaipkutariplugu, 1998-2019) talvanga

Mackenzie Kuugaq iani takukhauyut angiyumik ilagiyai tamatkiknik qanurittuni carbon auyaukhaliqni. Una unniutigiyai ilaliutyaqni auktuqnit qiqumainnaqnia (**Titirauyaq 13: Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni** 🌱). Taimaittumik, auktuqnia qiqumainnaqnia atuqpialaq pityuta kangiqhimania nuktiqni carbon tariumut avati-giyai. Tamna nuktiqnia carbon piqattainangittuq aulangitnia akuhimayumi ilagiyaini piplugu, ilaa anhiangurtuq talvunga CO₂. Kayumittumik-kuuknia qiqumainnaqniq hunavaluit nalvalat hatqiqtitni avataanut pingahuiqni ilavalliqli CO₂ hilainna-qmut tapkunangaunganit hunavaluit tariup hinaani imnaqnit pikallalat iukkaqnit. Tamna aktilaq CO₂ hatqiqtitauyuuq nungullaqpalianianit qiqumain-naqtuq naahuriyuuq qanurittunianit nungullartuq qanuqlu hivitunia humavaluit hinaanittut.



Haumingni: Tariup hinaa taphuma Somerset Qlkiartaq, Nunavut. Piksa: Mark Williams. Taliqpiq: Ukiurtaqtup iqalukpiit nayuqpaqtai tahamani Yukon Ukiurtaqtuani. Piksa: Colin Gallagher, DFO.

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- 3 **Nutanguqtauni Niriugiyauyut**
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- 6 **Kangiqhimani Qanuq Uumatyutit Atuqat**
 - 🌱 Titirauyaq 11: Humi nanilaqiuq unnuaruqtumi hiqiniq?
 - 🌱 Titirauyaq 12: Qunmukni anmuknilu uugat uumayuvaluitlu
 - 🌱 Titirauyaq 13: Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni

Nutqarutaanit



Tautugautiaqni



Titirauyaq

Tahamanga nunamit: niqauyut tapkuatlu carbon iluanukpaliayut tariuqni

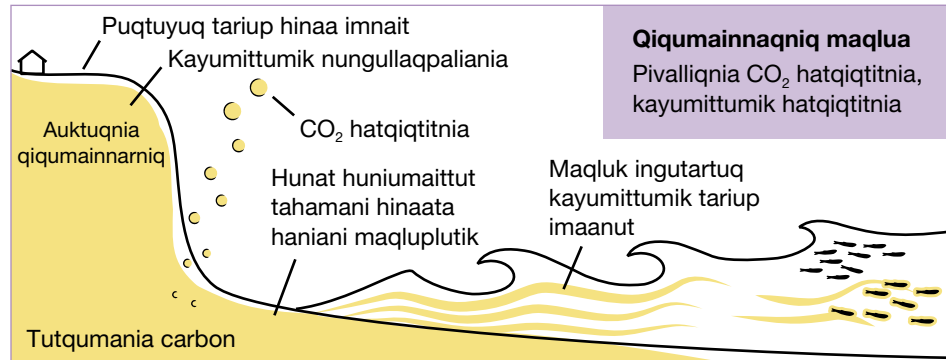
TITIRAUYAQ 13



Auktuqpalaiyut piqaluyait auktuqpalianilu qiqumainnaqnit tamaknik piqaqtitai niqauvaktut tamnal carbon tariumut. Tapkuat ilaliutyaqnit qanurilitat niqauvaktut tamnal CO₂ himmiqtautai allatqini piplugit.

Uataani Ukiurtaqtuq: Hinaata haniani qiqumainnaqtuq auktuqnia

Qiqumainnaqnia auktuqnia ingattaqtuq, pipkaqpalliqhugu carbon tariup imainut.

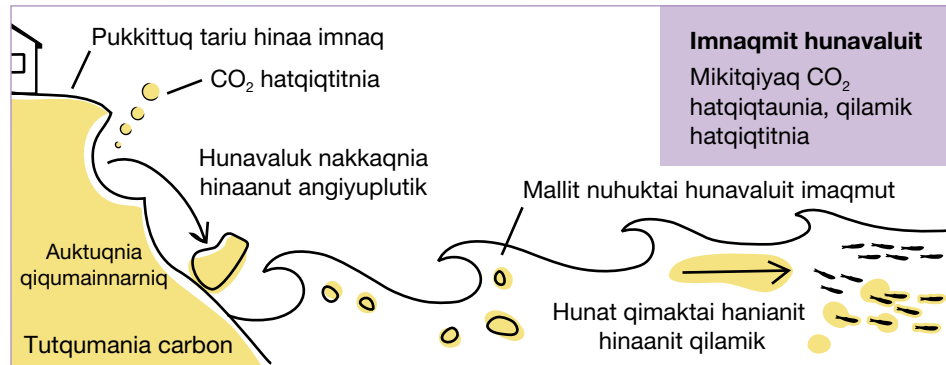


Kivataani Ukiurtaqtuq: piqaluyak auktuqnia imaq tariumuktartuq

Piqaluyakmit auktuqnia tariumukpaliayuq ataanit qulaata piqaqnit niqauvaktut turaqhugu turaqnagulu piplugit.



Baffin Island, Nunavut. Photo: Malcolm Schuyt / Alamy.

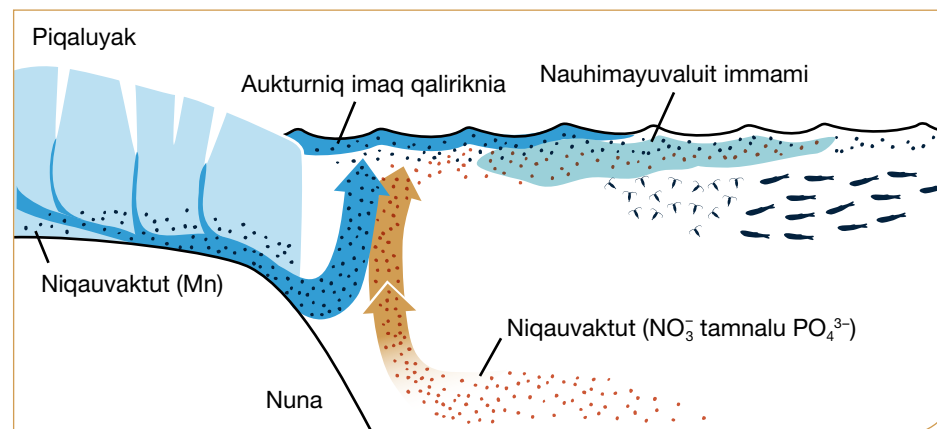
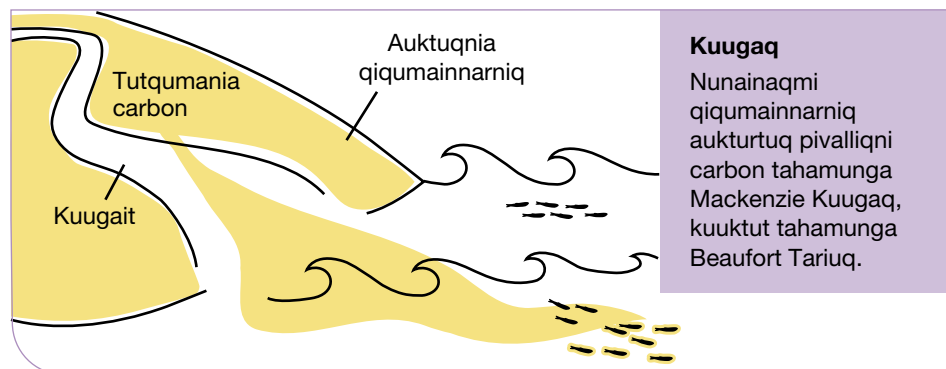


Turaqhugu

Piqaluyait auktuqni piqaqtut niqauyuktunnuit tamnatut manganese (Mn). Tahapkuat niqauvaktut naunaiqtauhimalat unghitumit piqaluyakmit iminik.t

Turaqpiagnagu:

Piqaluyait auktuqni qunmukpaktut, pihimayai tariuqni niqauvaktut tamnatut nitrogen (NO₃⁻) tamnal phosphate (PO₄³⁻) qanganut. Nauvaktut atulaqtai tahapkuat niqauvaktut.



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Nutqarutaanit

Tautugautiaqni

Titirauyaq

Nutqarutaanit

Canada's Oceans Now: Arctic Ecosystems, 2023 (Kanataup Tariungi Taty: Ukiurtaqtumi Uumatyutit, 2023) atuqatigiya angiyut hivunmuknit kangiqhimaninik qanuq tariuqni uumatyutit atuqni qanuritnilu Kanataup Ukiurtaqtuani. Nutat naunaiqtauni atuinaqtut akhuqyumini atuqpiacnit kangiqhimani takukhaunit avatigiyauyut qanuritni piplugitlu niqigiyauvaktut. Una piyalik unniqtuqnia allanguqni uumayut qanuqlu uumatyutit atuqni.

Una tuhagakhaliq akhuqyumiyai nakuungit-tuq uqauhirikaffukni tapkuat taiyauni allanguqnit uvaluniit qanuritni naunaipkutai. Atuqpiarianga naamaktumik kangiqhimani pityut, tamna taiyaunia inaa pivigiyalu turangayuq piyukhaq ihum-agiyaunia. Piqainnaqtuq angiyumik piilrut ilihimanit tuhagakhat taimattauq piyaunginnalaittut tamaitni inait nunaliuyutlu. Kihimik, katittugit kangiqhimani-vut nakuuhivalliqni piplugit ilaliutitnit amihutitni pityuhit ilihimaniq ilaiutyaqnilu allatqit tuhagakhat katitnit pityuhit naunaiyaqnilu allatqinit havalgit. Katittugit havanguyut atuinaqtut piruqhaqni nutat nakuutqiyatlu kangiqhimanit uumayut uumatyutailu nayuqpaktaini.

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■ Nutqarutaanit

