

Introduction & What the Project Involves

The Copernicus Expansion Missions Sea Ice Experiment (CEMSIE) una takuinnarmik ilihimaniqaqtuq havaaq, Kanatami universitetangata hivullit, havaktiqqatigiiktut tallimanik nunanit. Dr. John Yackel, University of Calgary-mi Ilinniaqtuliqijikkut Geography-mi professor, taamna havaalliuriaqtuq, hivulliutijuni, ilauqatigiillugit avinngaarutiniq Kanatami universitetangit ilihimayut maligiaqtuqtaullutik, huli arvinginnut nunarjuami ilihimalik ilihimayut. Havaaq ilauqatigijaujuq Kanatami government-mi ilihimayut huli university-mi ilinniarniqaqtut.

Havaaq suna tunngavinga

“Copernicus Expansion Missions” taapkuat nutaangat satilaangit European Space Agency-mit aullaqtinniangannga 2027-mi 2029-milu. Taapkuat satilaangit ikajuqtigiinnianganmata Kanatami inungnut, ikayuutigianganmata ikia qinginni hiku pimmarianuqnikkut, ubluumikkut qanurittaanginnik. Taanna pinguaqtut nunallaami inungnut, ukiumi hikuqaqtumi tikittianit angunirmilu.

Havaaq CEMSIE katitirniaqtuq ilihimayut manniit, hiku, huli satilaangit qingirijuuq qinirhiinni, ikajuutillu qanuq takujaqtauvillugu hikuup manniqaqtanga huli hikup akittanga. Havaaq ikajuqtigijaujuq Polar Knowledge Canada (POLAR), Canadian High Arctic Research Station (CHARS), Polar Continental Shelf Project (PCSP), huli Kanatami Europeanmi Space Agencies. Taapkuat havaqatiginaqtuq satilaangit nutaqqat, piniarniaqtuq silaqhimajuq akunniqaqtuq, qaujihaqtakhait.

Havakviaqtuq ukiuqtaqtillugu 25–30 ilihimayut, ingijaarutiit, aulapkaiyitlu katimaqatigiillugit, tautuktillugit 12–14 havaktiit CHARS-mi ukiuqtaqtillugit.

CEMSIE qaujihaqtiaqniaqtuq qikiqtani hiku malirinnaqtuq (malikpiaqtuq) Cambridge Bay-mi hikuani, havaktiqatigiillugit qaujihautiurnirmik hikulirniq, aullaqtittillugit airplanengnik radaarikkut huli satilaangit. Ubluumiuluni havakvik taimani atuinnaqtut 15 km Kangiani nunallaami. Taapkua igluittat, havaktiqarviallu piquaqtut, inuinnaqtunit piginnariaqtuq havaap naammaqatigiinnaqtillugu. Pamitiquqtaullutik havaktiit ukiumi unnukkut snowmachine-mik aullaqtillugit, qaujihaqtillugit manniit hikuqaqtullu.

Part 2: Community Engagement, Measurements & Field Methods

CEMSIE ilauqatigiiktut Inuit Qaujimaqtuqangit (IQ) pitquhiqaqtillugit, kangiqhidjutinik, katimadjutinik, huli inuit uqaudjutinik. Havaaq katimadjutikhaqtaqtuq Kitikmeot Inuit Association, Hamlet of Cambridge Bay, POLAR, CHARS-lu, kangiqhidjutikharnik:

- Nunallaami katimadjutit huli uqaudjutit EHTO-mit, John Yackel hivulliuliuqtiulluni.
- Kangiqhittiarniaqtut unipkaangit, mapit, posterallu uqausiaqtut nalungnangittut Cambridge Bay, EHTO, CHARS-milu.
- Ilinniaqatigiingnikkut ikajuutit: angijuqtuqaqtut, logistics-mik ikajuqtaujut, atauhirmik pihimayunut nunaqaqtunut takujaqtut ukiuqtaqtillugu.

Havakviaqtaullutik manniit manniutingit, hikuup akittanga, ukkuutit, pujiit, salinity, huli hikup akunniqaqtanga. Taapkuat qinirhiinni pitquhiqatigiingniaqtut airplanikkut radaarikkut qinirhiutinik, naunaiqtillugu qanuq takujaqtauvillugu satilaangit CIMR, CRISTAL, ROSE-L. Airplanengnik aullaqtuqviaqniaqtut Cambridge Bay airport-mi, Dease Strait-mi, Queen Maud Gulf-mi, Victoria Strait-milu. Taapkua naunaiqtariaqtaqtut qanuq hakuqhiqtut hikuup manniqaqtanga satilaangitigut.

Aullaqtitauullutik snowmachine-mik, qamutiit mikinut, airplanengnik (Twin Otter-mik), huli helicopter-mik naunaiqtillugu nunakut aullaarutit. Angiyuqaqtumik havaktauhimaittuq. Airplanengnik radaarikkut aullaqtuqniaqtut April 10–15, 2026, sila pittiaqtillugu.

Part 3: Why the Project Is Needed

Naunaiqhijut hikuup pimmarangit pinguaqtut silaqhimayut, silakkut naunaiqtakhat, ukiuqaqtumi umiarjuqaqtut, huli nunallaami inuuhimayut. Satilaangitigut qinirhiinni akittulluni, taima manniit qanuq ubluumikkut aqittuq, qanuq akunninngittuq, huli qanuq radaarimik aulatittijangat. Taapkuat uqaridjutikhait pinasungujuq hikuup akittanga naunaiqtittillugit.

CEMSIE-mit katimaqatigiingmata naunaiqhijut ikajuqatigiingniaqtut satilaangitigut akittuq takujaqhimayut, ihuaqhailutik sila naunaiqtinirmik, umiarnirmik, huli qaujihaqtillugit hikuup sivulliqpaanik aulatsijuni. Hikuup akittanga pinguaqtut sila nunarjuami, qanuq sila aulatijangat imarmi, taima ihuaqhijangat ikajuqniaqtuq sila qaujihaqniq.

Part 4: Where the Project Will Take Place

Havaaq havaktiqarniaqtut hiku malirinnaqtuq sivulliqpaaq Dease Strait-mi, kanngiqpaani 15 km Cambridge Bay-mi. Tamaita logistics, accommodation, airplanengnik havaktiqniaqtut CHARS-mi. Airplanengnik qaujihaqtutik aullaqtuqniaqtut Dease Strait, Queen Maud Gulf, Victoria Strait-mi.

Taakkua naunaiqqijaujut havaqatigiingnaqtuq, akhuqhinnngittuq naunaijautikhanut, huli hivulliqpaaq hikumik pisimajut ukiumi, takujaqtaujut pittiaqhutik data-khanik.

Part 5: When the Project Will Occur

Havaaq havaktiqniaqtut ukiuqaqtillugu 6 ublunik, April 1-mi angmaffaarluni May 15, 2026-milu naammaqtuq. Taamna ukiuq nakuuyuq, manniit qamanngittuq, qanuqtuq, pittiaqtuq radaarikkut qinirhiutinut. May-mi qanuittuqtuq manniit, radaarikkut pimmarangit akittuq, taima havaaq utirniatit. CEMSIE ilauqtuq multi-year satilaangit aulatsijuni, kihiani Cambridge Bay-mi hikuani havaktiqniaqtut una ubluumiuqaqtuq ukiuqpaami.