



New

Scientific Research

Period of operation: from 2026-07-27 to 2027-03-31

ᐱᓕᑦᐸᐅᓂᐳᒃ:

Jordan Hoffman
Royal Roads University
2005 Sooke Road
Victoria BC V9B 5Y2
Canada
ᐅᓂᓕᐅᓂᓪ: 647-223-3501, ᐃᓂᓪᐅᓪ:

ፍጹሙ ጋር ለሥራ ለመገባወጥ ለሚችሉ ሰራተኞች

ᐅᓂᕋᓴᓄᓇ: Introduction to Ecosystems and Environmental Processes: Applications is offered through the Namminiqsumniq Professional Project Administrator Program (NPPA) in partnership with Royal Roads University for Nunavut Inuit learners hired through Crown-Indigenous Relations and Northern Affairs Canada's Nunavut Regional Office in Iqaluit as part of a six-month full-time learning program supporting Devolution-related employment. This course provides learners with applied ecological and environmental monitoring skills grounded in both Inuit knowledge and Western science. Learners will explore terrestrial, freshwater, and marine ecosystems surrounding Iqaluit through land-based learning, scientific measurement, and Inuit knowledge indicators. The course examines Inuit self-determination in research and monitoring through Inuit Tapiriit Kanatami's National Inuit Strategy on Research and explores how Inuit-led and community-driven approaches can support the management of Nunavut's lands, waters, wildlife, and natural resources. A significant portion of the course is field-based and includes hands-on training in ecological monitoring techniques such as water quality assessment, vegetation sampling, snow and ice measurements, wildlife observation and harvest monitoring, and oceanographic data collection. Some field activities are planned within Sylvia Grinnell Territorial Park and Katannilik Territorial Park, with two one-week field courses scheduled for July 2026 and March 2027, weather permitting.

▷Δ&NƆ: Introduction aux processus écosystémiques et environnementaux : Ce cours est offert aux personnes inuites du Nunavut embauchées par le bureau régional du ministère des Relations Couronne Autochtones et Affaires du Nord Canada, situé à Iqaluit, au Nunavut. L'inscription au cours se fait par l'entremise du Programme d'administration professionnelle de projet Namminiqurniq, lequel est offert en partenariat avec l'Université Royal Roads dans le cadre d'un programme d'apprentissage à temps plein de six mois pour favoriser l'embauche dans des postes se rattachant au transfert des responsabilités. Le plan de cours comporte l'enseignement de compétences appliquées en veille écologique et environnementale fondé à la fois sur les connaissances inuites et sur la science occidentale. On y explore les écosystèmes qui entourent Iqaluit — à savoir, la terre, l'eau douce et l'écosystème marin — en ayant recours aux travaux sur le terrain, aux techniques de mesure scientifique et aux indicateurs de connaissances inuites. Il comporte aussi un examen de l'autodétermination inuite en recherche et en veille aux termes de la Stratégie nationale inuite sur la recherche de l'Inuit Tapiriit Kanatami, et des possibilités qu'offrent les approches sous direction inuite et locale quant à la gestion des terres, des eaux, de la faune et des ressources naturelles du Nunavut. Une part importante du cours consiste en activités de terrain qui comprennent une formation pratique aux techniques de veille écologique, telles que l'évaluation de la qualité de l'eau, le prélèvement de végétation, les mesures se rattachant à la neige et à la glace, l'observation de la faune, le suivi de récoltes, ainsi que la collecte de données océanographiques. Certaines de ces activités doivent se dérouler dans le parc territorial Sylvia Grinnell et le parc territorial Katannilik; deux de celles-ci s'étendent sur une semaine, l'une en juillet 2026 et l'autre en mars 2027, si la météo s'y prête.

[illegible]

Inuinnaqtun: Kangighipkaidjutit haffumunga Avatingnin uvalu Avatiliginikkut Havauhiit: Uuktuutit hailihimajun

talvuuna Namminiqsurniq Ajuittuni Havaktaujukhani Aulapkainikkut Pinahuarutimi (NPPA) paannariplugit ukuat Royal Roads University-kut ukununga Nunavunmi Inuit ajuiqhaqtun havaktitaujut talvuuna Kavamatuqatkut-Nunaqaqqaaqhimajuni Pidjutini uvanilu Ukiuqtaqtumi Kavamaliqijikkut Kanadami Nunavunmi Aviktuqhimanirmi Havagviani Iqalungni ilaupluni 6sini tatqiqhiutini ubluq-tamaat ajuiqharnikkut pinahuarutimi ikajurnikkut Nanminiqhurnikkut-pidjutiqagtunik havaakhanun. Una ilihaidjut tunihijuuq ilihagtunun atuqhugit avatiliqinikkut imaalu avatiinun munaridjutit ajuitatik tungaviqagtut tamangnun Inuit ilihimajaitigut imaalu Uataani nalunaqtuliqinikkut. Ilihaqtut qiniqhianaqtut nunatigut, tariup imangani, uvalu tariumi avatingit avatiini Iqaluit haffumuuna maniqami-pihimajut ilihagnirit, nalunaqtuliqinikkut aktilaangit, imaalu Inuit ilihimajaitigut naunaijautit. Tamna ilihairutikhaq ihivriudjutiqagtuq Inuit nanminikharnik atuqtakharnik ihivriudjutikharnik munaridjutikharniklu talvuuna Inuit Tapiriit Kanadami Nunarjuaptingnik Inuit Hanaqidjutikharnik talvuuna Ihivriurnikkut qiniqhiajaangatlu qanuq Inuit hivulliqtiqhimajut nunalaanilu aulajut upautikharnik ikajuutiginiagtun munaridjutikharnik Nunavutim nunagijainik, imarnik, uumayunik nunamilu hanaqidjutikharnik. Anginiqhaq ilanga ilihaidjut maniqami-pihimajuq imaalu ilaujut havakhimaaqhutik ilihaidjutinik nunatigut munaridjutit havauhiit imakkut qanuriniitigut ihivriurutit, nauhimajut uuktuutit, aput imaalu hiku aktilaangit, huradjanik tautukniq imaalu angujaujut munaridjutait, imaalu tariumi naunaijautit katitiqhimajut. Ilangit maniqqami hulipkaidjutikhat upalungaijaqtauhimajut talvani Sylvia Grinnell Nunaptingni Min'nguiviani uvanilu Katannilik Aviktuqnianni Min'nguiviani, malruuk atauhirmi havainirmi maniqqami ilihagtakhat iniriqhimajut Taaqhivaliavia 2026 uumanilu Qiqaijalirvia 2027, hila nakuukpat.

Personnel

Personnel on site: 15

Days on site: 6

Total Person days: 90

Operations Phase: from 2026-07-27 to 2027-03-31

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

ᐱᓯ	ᖃᓄᐸᑦᑐᒥᑦ ᐱᓕᓚᐸᖃᑦᓂᐸᐸᑦ	ᑭᐅᑦ ᓄᐱᑦᑲᑦᑕᓂ	ᑐᔨᐅᓴᖃᑦ ᓄᐱᐸᑦ ᖃᓄᖃ ᐸᑐᓴᐅᓗᐸᖃᓴᓴᓚᐸᐸᑦᓂᐅ	ᐸᑦᓴᑦᓂᑕᖃᑦᐱᐅᐸᓗᐸᖃᑦ ᐸᓄᖃᓄᑦ ᐱᓴᖃᑕᐅᖃᑦᑕᑦᓂᑲᐸᐸᐸᐸ ᑕᐸᑦᓴᓂᑐᖃᐅᓕᖃᑐᖃᑦ	ᖃᓂᑦᓂᖃᑦᐸᑦ ᓄᐱᓕᓴᖃᐅᓴᖃᑦ ᐸᓴᓴᐸ ᔨᐸᓴᓴᐱᐅᐸᐸᐸ ᓴᓄᑦ
General areas travelled by boat/snowmobile in July/August 2026 and February/March 2027 for field course.	Sampling sites	Marine	N/A	N/A	Sampling will be conducted near Iqaluit, and within Sylvia Grinnell and Katannilik Territorial Parks. Marine sampling will be conducted with plankton tows in Frobisher Bay and Arctic char stomach content sampling in Frobisher Bay, Nungaarut, and Sylvia Grinnell.
General areas travelled by boat/snowmobile in July/August 2026 and February/March 2027 for field course.	Sampling sites	Inuit Owned Surface Lands	N/A	N/A	Land-based sampling will be conducted near Iqaluit, and within Sylvia Grinnell and Katannilik Territorial Parks. Land-based sampling will include quadratic sampling of vegetation recording visual observations and using photographs. No soil disturbance will take place and disturbance to vegetation will be limited. Care will be taken to avoid any potential archeological sites (e.g., tent rings).
General areas travelled by	Sampling sites	Inuit Owned	N/A	N/A	Land-based sampling in

ᑕᐃᕐᕐᕐ ᐱᕐᕐᕐ ᐃᕐᕐᕐᕐᕐ

ᐃᕐᕐᕐᕐ ᐱᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐ:

South Baffin

ᑕᐃᕐᕐᕐ ᐱᕐᕐᕐ ᐃᕐᕐᕐᕐᕐ

ᐃᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ	ᐃᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐ	ᐃᕐᕐ ᐃᕐᕐᕐᕐᕐ	ᐃᕐᕐᕐ ᐃᕐᕐᕐᕐ/ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ	ᐃᕐᕐᕐᕐᕐᕐ
ᐃᕐᕐᕐ ᐃᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ	Arctic Region Educational Licence	Applied, Decision Pending		
ᐃᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ	Exempt for educational activities	Active		
ᐃᕐᕐᕐ ᐃᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐ	GN Wildlife, Exempt for scope of activities	Active		
ᐃᕐᕐᕐ ᐃᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐ	GN Territorial Parks, Park Use Permit Sylvia Grinnell and Katannilik Territorial Parks	Applied, Decision Pending		
ᐃᕐᕐᕐ ᐃᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐ	No approval for water use or waste deposit is required based on scope of activities	Active		
ᐃᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ	Land Use Permit (Inuit Owned Land)	Not Yet Applied		

Project transportation types

Transportation Type	ᐃᕐᕐ ᐃᕐᕐᕐᕐᕐᕐ	Length of Use
Air	Instructor will travel from Prince Edward Island for two one week periods. 1-2 students will travel for two one week periods from Sanikiluaq and/or Montreal.	
Water	Up to 4 vessels <30' in length Vessels will be used on 2 days in late July/early August 2026 to transport students from Iqaluit to areas for Arctic char fishing and plankton trawls in Frobisher Bay.	
Land	Up to 20 snowmobiles <1200cc Snowmobiles will be used by outfitter/students for 3-4 days to transport students to areas surrounding Frobisher Bay and Iqaluit (e.g., Nungaarut and Jordan River) in February-March 2027.	

Project accomodation types

ᐃᕐᕐᕐᕐᕐ

[illegible][illegible]

ΔL^{ϕb} ◀^{ϕb} C ▶^{ϕb} ↯^{ϕb} ⋮^{ϕb}

$\Delta^c \rightarrow C \dot{L}^c \rightarrow C \dot{C} \rightarrow C \dot{\sigma} \rightarrow C \dot{C} \rightarrow C$	$\dot{C} \dot{C} \rightarrow \Delta^c C \dot{C}^c \sigma \rightarrow C \dot{C} \rightarrow C$	$\dot{C} \dot{C} \rightarrow \Delta^c C \dot{C}^c \sigma \rightarrow C \dot{C} \rightarrow C$
0	N/A	N/A

$$\triangle^b C d r n \sigma \triangle^c \sigma^c$$

Inuktitut Name	English Name	Volume	Description	Notes
Other	Field activities	< 1 cubic metre	All solid waste will be brought back to Iqaluit and disposed of in the landfill.	N/A
Other	Field activities	< 1 cubic metre	Within Katannilik Territorial Park and Sylvia Grinnell Territorial Park outhouses will be used by students/outfitters for human waste. In areas without outhouses human waste will be buried over 150m away from water sources.	N/A

$\triangleleft \nabla \cap \Gamma \triangleright C \dot{\sigma}^C \zeta^C \triangleleft^b \zeta^{cb} C \triangleright \gamma L \gamma^C$

The proposed field course near Iqaluit will involve travel by boat during open-water conditions and snowmobile during winter, as well as Arctic char sampling, plankton sampling, and non-invasive vegetation sampling using quadrats. These activities have the potential to result in minor, localized, and temporary environmental effects.

Mitigation Measures

Travel by boat and snowmobile:

- Use established travel routes
- Minimize travel speeds near shorelines, wildlife, and bird habitat.
- Carry spill response supplies and follow fuel handling procedures to prevent contamination.
- Reduce unnecessary travel and idling.
- Coordinate field activities to minimize the number of trips required.

Arctic char sampling

- Follow all applicable fisheries licences and regulations

Vegetation sampling using quadrats

- Limit foot traffic and avoid repeated trampling within sampling areas.
- Avoid rare, sensitive, or culturally important plant communities.

Designated environmental and wildlife protected areas (Territorial Parks)

- Obtain all required permits and approvals before field activities.
- Comply with park management plans, access restrictions, and seasonal closures.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

ᐱᓪᑲ ᐸᐅᐃᐸ ᖃᓄᐃᐳᐭᐭᐵᓂᓴ: ᓄᐅᐸ ᖃᓄᐃᐳᓂᓴ

The project is occurring within the City of Iqaluit, within Katannilik Territorial Park and Sylvia Grinnell Territorial Park and in Frobisher Bay.

ᐱᓪᑦ ᐃᑲᐅᐸ ᖃᓄᐃᕐᑐᓚᐅᓂᓴ: ᐆᒻᕐᑲᖃᕐᑲᓂᓴ

The project is occurring within municipal boundaries, territorial parks, and Frobisher Bay. The main purpose of the activities is to teach Inuit employees of CIRNAC in a training program to learn sampling techniques used in ecological research and to practice analysis of sample data. A strong focus of the program is integrating respect and care for the land (Avatittinnik Kamatsiarniq) and Inuit Qaujimajatuqangit on Nunavut's ecosystems. Care will be taken to avoid disturbance (e.g., soil or vegetation disturbance) with a focus on passive sampling methods or sampling through harvested animals (e.g., Arctic char stomach contents).

[illegible]

Iqaluit's socio-economic environment is defined by its role as the capital of Nunavut and largest population. It features a dual economy—a modern public-sector hub coexisting with traditional Inuit practices—while facing critical challenges. Program activities are being conducted by new Inuit employees of Crown-Indigenous Relations and Northern Affairs Canada who are taking part in the Introduction to Ecosystems and Environmental Processes: Applications is offered through the Namminiqurniq Professional Project Administrator Program in partnership with Royal Roads University. Through the program students will learn about the socioeconomic environment in Nunavut and how they can contribute positively to the overall environment in Nunavut.

Miscellaneous Project Information

ᐃᓇᐃᓐᓂᐅᓂᓐᓂᐅ ᐃᓇᐃᓐᓂᐅᓂᓐᓂᐅ ᐃᓇᐃᓐᓂᐅᓂᓐᓂᐅ ᐃᓇᐃᓐᓂᐅᓂᓐᓂᐅ

-Potential disturbance of vegetation and soil while making visual observations of vegetation using quadrants. Proposed mitigation measures: Care will be taken to avoid areas susceptible to disturbance (e.g., loose soil or banks) and to use existing trail systems in territorial parks.

-Potential for fuel spills for boat/snowmobiles. Proposed mitigation measures: Jerry cans used to transport fuel will be checked for loose caps and fuel will only be transported and used with jerry cans in good condition.

-Potential disturbance of wildlife while travelling (boat/snowmobile) or during sampling. Proposed mitigation measures: Care will be taken by students/instructor to avoid observed wildlife while travelling or during sampling in territorial parks.

Cumulative Effects

Many of the project areas (e.g., Sylvia Grinnell Territorial Park) are used by community members for camping and fishing. Contributions to cumulative effects are expected to be minimal as most activities are designed to be low disturbance and integrate principles around respect and care for the land and areas will be used to avoid

disruption to harvesters/land users.

Impacts

[illegible][illegible]

($P = \langle b \rangle \dot{a} p \dot{q} \dot{a} \dot{a} \dot{b} \dot{c}$, $N = \langle b \rangle \dot{a} \dot{r} \dot{c} \dot{d} \dot{a} \dot{a} \dot{b} \dot{c} \dot{c} \dot{c} \dot{d} \dot{r} \dot{b} \dot{b} \dot{c} \dot{d} \dot{a} \dot{a} \dot{r} \dot{c} \dot{c} \dot{c}$, $M = \langle b \rangle \dot{a} \dot{r} \dot{c} \dot{d} \dot{a} \dot{a} \dot{b} \dot{c} \dot{c} \dot{c} \dot{c} \dot{d} \dot{r} \dot{b} \dot{b} \dot{c} \dot{d} \dot{a} \dot{a} \dot{r} \dot{c} \dot{c} \dot{c}$, $U = \dot{b} \dot{d} \dot{a} \dot{a} \dot{a} \dot{r} \dot{c} \dot{c} \dot{b}$)

1 polygon	General areas travelled by boat/snowmobile in July/August 2026 and February/March 2027 for field course.
-----------	--