



SCIENTIFIC RESEARCH LICENCE APPLICATION LAND, FRESHWATER & MARINE BASED RESEARCH

NRI strongly recommends that applicants review the following documents prior to submitting an application: *Scientific Research Licencing Guidelines* and *Negotiating Research Relationships in Inuit Communities: A Guide for Researchers*.

IMPORTANT

This application fulfills the requirements for the NIRB environmental screening. Please be advised that your application will not be processed until the application form, project summary, and maps are received.
All documents should be uploaded in the following formats: MS Word, Adobe PDF or jpeg.

SECTION 1: APPLICANT INFORMATION

1a. Project Title [Coastal Hazards in an expanding Arctic urban centre: Iqaluit, NU.](#)

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal? Yes () No (x)

If yes, please indicate the previous NRI licence number: _____

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal? Yes () No (x)

If yes, please indicate the previous NIRB licence number(s): _____

2. Applicant's full name and mailing address: _____

Scott Hatcher	Phone: (902) 577-6824
Memorial University, Dept. of Geography	Fax: (709) 864-3119
232 Elizabeth Ave. SN2012, St. John's, NL, A1B 3X9	Email: svh160@mun.ca

3. Field Supervisor's name and mailing address: _____

Donald Forbes	Phone: 902-426-7737
Bedford Institute of Oceanography	Fax: _____
Box 1006, 1 Challenger Dr., Dartmouth, NS, B2Y 4A2	Email: dforbes@nrca.gc.ca

4. Other Personnel list (name, position, affiliation) _____

Gavin Manson (NRCan)	_____
Trevor Bell (MUN)	_____
Student assistant (TBA)	_____

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

- | | |
|--|---|
| <input type="checkbox"/> Regional Inuit Association (RIA) | <input type="checkbox"/> Canadian Launch Safety (CLS) |
| <input type="checkbox"/> Nunavut Water Board (NWB) | <input type="checkbox"/> Environment Canada (EC) |
| <input type="checkbox"/> Nunavut Planning Commission (NPC) | <input type="checkbox"/> Department of Environment (GN) |
| <input type="checkbox"/> Department of Indian And Northern Development (DIAND) | <input type="checkbox"/> Department of National Defense (DND) |
| <input type="checkbox"/> Department of Fisheries and Oceans (DFO) | <input type="checkbox"/> Hamlet |

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing and scheduling of each phase.

Field Surveys: 20/07/11 – 20/08/11. Instrument retrieval: 10/10/2011 – 31/12/2011.

Possible winter follow-up: 01/03/2021-31/03/2012

4. Location(s) of data collection:

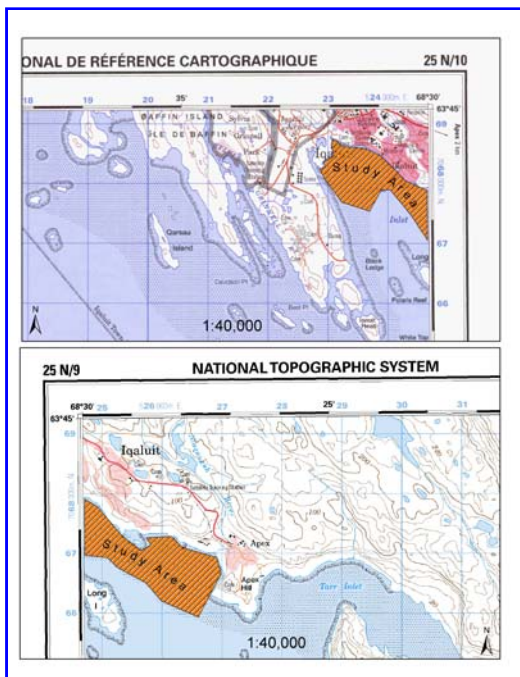
Location Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute), Long (degree / minute)	NTS Map Sheet Nr.	Land Status Crown, Commissionersâ€™, Inuit Owned
Iqaluit	South Baffin	63°44' N, 68°30' W	25 N10, 25 N9	Municipality
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

If the project proposal includes a **camp**, please provide the coordinates of the camp location

Lat (degree/minute) _____ Long (degree/minute) _____

NTS Map Sheet Nr. (if different from above) _____

Please attach maps (preferably 1:250,000 scale) which clearly indicate camp sites and research sites. PDF, jpeg or tiff versions are requested.



The Nunavut Impact Review Board may require additional location information in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please attach a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- Project Title
- Researcher's Name and Affiliation
- Project Location

- Timeframe
- Project Description
 - purpose
 - goals & objectives
 - method of transportation
 - any structures that will be erected (permanent / temporary)
 - restoration / abandonment plans
- Methodology
 - collection protocol
 - collection mechanisms
 - indicate why specific communities or individuals were selected for your research
- Data
 - short term & long term use of data
 - other uses of data
- Reporting
 - How will the research results be communicated to the individual participants, communities, regional and Nunavut organizations?
 - Will the research result in a publication?

[Frm634395823578761698land-Res_Description.docx](#)

SECTION 5: MATERIAL USE

1. List equipment (including drills, pumps, aircrafts, vehicles etc.):

Equipment type and number	Size â€” dimensions	Proposed use
GPS Survey Equipment	2 x 2 m	GPS Surveys
Boat	4-7 m long	Bathymetric Surveys
Sidescan Sonar	—	Bathymetric Surveys
Grab Sampler	—	Sediment Sampling
Tide and Wave gauges	—	Hydrodynamic recording
—	—	—

2. Detail fuel and hazardous material use:

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	—	—	—
Gasoline	—	—	—
Aviation fuel	—	—	—
Propane	—	—	—
Other	—	—	—
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	
—	—	—	—
—	—	—	—
—	—	—	—

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location
4 L	Iqaluit Water supply	Iqaluit

4. Have you applied for a Class A Licence with the Nunavut Water Board?

() YES (x) NO

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)	1 kg/day	Iqaluit Waste	—

		<u>Treatment</u>	
Greywater	_____	_____	_____
Combustible wastes	_____	_____	_____
Non-Combustible wastes	_____	_____	_____
Overburden (organic soil, waste material, tailings)	_____	_____	_____
Hazardous waste	_____	_____	_____
Other:	_____	_____	_____

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?

() YES (x) NO

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Minute	Frm634395826017000748land-Email_Correspondence.docx	_____	_____
Community Name		Organization	Date Contacted
Iqaluit	Robyn Campbell	City of Iqaluit	Feb. 22, 2011
Iqaluit	Megan Leach	City of Iqaluit	Feb. 22, 2011
Iqaluit	Mary Ellen Thomas	NRI	March 11, 2011

2. How will the proposed project benefit Nunavut? Will your project provide local employment or training opportunities? Please specify.

[Iqaluit has initiated a climate-change adaptation planning process, in part through partnership with NRCan and the Canadian Institute of Planners. This work will contribute scientific information on coastal hazards to assist in the development of adaptati](#)

3. Please describe the nature of local services and/or logistic support that will be required from local communities, eg. Equipment, accommodations, outfitting, translations...

[The boat will likely be chartered from a local outfitters supply shop. Accommodations will hopefully be arranged through NRI.](#)

4. Describe and attach documentation regarding community support or concerns for the proposed project?

[Frm634395826017000748land-2007Report.pdf](#)

[The 2007 report on the climate-change adaptation plan issued a recommendation for further research into coastal hazards on the city shoreline, particularly how rising sea levels and a changing sea-ice season will affect infrastructure on the coast.](#)

5. Is there a traditional knowledge component to this research project? If yes, please explain:

[Local knowledge of past extreme high-water or storm events will be crucial, as it supplies the main source of data in the area on hazards. This might include impacts on individuals and photographs or other documentation of water levels. A large part of th](#)

SECTION 8: GENERAL QUESTIONS

1. Do you give NRI permission to publish project information in the Nunavut Research Institute Annual Compendium of Research Undertaken in Nunavut?

(x) YES () NO

2. Is the proposed research associated with International Polar Year (IPY)?

YES

NO

Applicant:

Scott Hatcher

Graduate Student

28/04/2011

Signature

Title

Date

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