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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 [Pan-Arctic Measurements and Arctic Regional Climate Model Simulations \(PAMARCMIP\)-2012](#)

1b. Project Number

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

If yes, please indicate the previous NRI licence number: 02 110 11N-A

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

If yes, please indicate the previous NIRB licence number(s): 09YN010

2. Applicant's full name and mailing address:

J. Walter Strapp and Ralf Staebler, Environment Canada	Phone:	905-833-3905 ext 238 (Strapp) and 416-739-5730 (Staebler)
4905 Dufferin St.,	Fax:	416-739-4211 (Strapp) and 416-739-4281 (Staebler)
Toronto, Ontario M3H 5T4	Email:	walter.strapp@ec.gc.ca and ralf.staebler@ec.gc.ca

3. Field Supervisor's name and mailing address:

Andreas Herber, Alfred Wegener Institute	Phone:	011-49-471-48311489
P.O. Box 120161	Fax:	011-49-471-48311787
27151 Bremerhaven, Germany	Email:	andreas.herber@awi.de

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

Christian Haas, Professor, University of Alberta	Ms. Julia Binder, engineer, Alfred Wegener Inst.
Mr. Lukas Schmidt, scientist, Alfred Wegener Inst.	Mr. Dean Emberley, Ken Borek Air
Mr. Johannes Kaessbohrer, engineer, Fielax Co, Ger.	Mr. Neil MacAuley, engineer, Ken Borek Air

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 checked="" 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
<input type="checkbox"/> Community Government & Services (CG&S)	<input type="checkbox"/> Parks Canada (PC)

☒ Nunavut Research Institute (NRI/GN)
 ☐ Canadian Wildlife Service (CWS)
☐ Department of Culture, Language, Elders, and Youth (CLEY/GN)
 ☒ Other (please specify):
 U. of Alberta, Alfred Wegener Inst.

2. List the active permits, licences, or other rights related to the project proposal and their expiry date:

Permit: none
 Expiry Date:

3. Have you applied for all authorizations required to conduct the project proposal activities?

☒ Yes
 ☐ No

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the activities related to the project proposal:

<input type="checkbox"/> Temporary camp (to be removed at end of field season)	<input type="checkbox"/> Soil disposal/ soil storage
<input type="checkbox"/> Permanent camp (to remain for life of authorization)	<input type="checkbox"/> Incineration of combustible wastes and removal of non-combustible wastes
<input type="checkbox"/> Construction of recreational or safety cabin	<input type="checkbox"/> River/ stream/ lake crossing or work/ bridge
<input type="checkbox"/> Temporary fuel storage (to be removed at end of field season)	<input type="checkbox"/> Drainage alteration
<input type="checkbox"/> Permanent fuel storage (to remain for life of authorization)	<input type="checkbox"/> Geoscientific sampling by diamond drilling
<input type="checkbox"/> Placement of structures for life of permit (other than camp or cabin " i.e. scientific instruments)	<input type="checkbox"/> Geoscientific sampling by soil sampling
<input type="checkbox"/> Placement of permanent structures (other than camp or cabin " i.e. scientific instruments)	<input type="checkbox"/> Geoscientific sampling by trenching
<input checked="" type="checkbox"/> Air surveys (i.e. geophysical, wildlife)	<input type="checkbox"/> Geoscientific sampling by borehole core
<input type="checkbox"/> Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location	<input type="checkbox"/> Blasting
<input type="checkbox"/> Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac)	<input type="checkbox"/> Channeling
<input type="checkbox"/> Sewage or grey water disposal via sump	<input type="checkbox"/> Excavation
<input type="checkbox"/> Hazardous waste storage or disposal	<input type="checkbox"/> Hydrological testing
<input type="checkbox"/> Solid waste disposal	<input type="checkbox"/> Abandonment and restoration
<input type="checkbox"/> Chemical storage	<input type="checkbox"/> Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring)
<input type="checkbox"/> Explosives storage	<input checked="" type="checkbox"/> Research
<input type="checkbox"/> Soil testing	<input type="checkbox"/> Ecological survey
<input type="checkbox"/> Harvesting	<input type="checkbox"/> Removal of vegetation for scientific purposes
<input type="checkbox"/> Other: <u> </u>	

2. Personnel

Total No. of personnel on site = (A) <u>8</u>	Total No. of days on-site = (B) <u>12</u>	Total No. of Person days (A) × (B) <u>96</u>
		=

3. Timing

Period of operation: 28 March 2012 to 8 April 2012
 Proposed term of authorization: 14 March 2012 to 22 April 2012

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

Flight from Alert: 28 March - 5 April 2012 ; Flights from Eureka: 5 April - 8 April 2012; Transit to Toronto via Resolute: 8 April - 10 April; no decommissioning required, all equipment on aircraft

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, Commissioners' Inuit Owned
Alert	North Baffin	82/31, 62/17 W	<u> </u>	<u> </u>
Eureka	North Baffin	79/59, 85/49	<u> </u>	<u> </u>
Resolute Bay	North Baffin	74/43, 94/58	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

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?

Frm634570394427844504land-NRI-research-license-application-PAMARCMIP-2012-Strapp-Project Description-final.pdf

Frm634570394427844504land-NRI-research-licence-application-PAMARCMIP-2012-Strapp-map.pdf

SECTION 5: MATERIAL USE

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

Equipment type and number	Size â€” dimensions	Proposed use
Basler DC-3 Aircraft "Polar-5"	LxHxW 20.66x5.2x29	perform airborne science measurements
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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	DND tank in Alert, and ~40 drums in Eureka	30,000	Approximately 22,000 liters of aviation fuel currently stored in DND large storage tank at Alert airport for this project; Approximately 3500 liters currently stored in drums at Eureka, and ~4500 more coming from PCSP
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)

Local accommodations water at Alert, Eureka, Resolute existing facilities only, for 8 people

Proposed water retrieval methods _____

Proposed water retrieval location _____

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

()	YES	(o)	NO
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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)	At existing Alert, Eureka, and Resolute Bay accomodation facilities only	_____	_____
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

(o) 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	Name	Organization	Date Contacted
Eureka	John MacIver	Environment Canada	Nov 2011
Alert Station	Kevin Anderson	Environment Canada	Sep 2011
Resolute Bay	Mike Kristjanson	PCSP	Sep 2011

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

The scientific measurements over the multi-year PAMARCMIP projects will ultimately increase understanding of global climate change in the Arctic, including the change in sea-ice thickness over time, providing important information affecting Nunavut.

Scientific measurements will be carried out over the Arctic ocean; stations at Alert and Eureka will only be used as a base for the Polar-5 research aircraft and accomodations for the crew.

The PAMARCMIP project will not provide local employment or training opportunities to Nunavut.

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

aircraft carries all equipment. Support is only required from Alert airport, the Eureka weather station, and Resolute Bay (PCSP).

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

No concerns known. No community support required.

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

There is no traditional knowledge component to this project

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?

(o) YES

() NO

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

() YES

(o) NO

Applicant:[J. Walter Strapp](#)[Physical Scientist](#)[16 November 2011](#)**Signature****Title****Date**

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