



Licence #: S-18/19-1009-NU

Brice Loose
218 South Ferry Road
Narragansett, RI, USA 02882

Dear Brice Loose,

Enclosed is your Licence to Fish for Scientific Purposes issued pursuant to Section 52 of the Fishery (General) Regulations.

Failure to comply with any of the conditions specified on the attached licence may result in a contravention of the Fishery (General) Regulations.

Please be advised that this licence only permits those activities stated on your licence. Any other activity may require approval under the Fisheries Act or other legislation. It is the Project Authority's responsibility to obtain any other approvals.

Please ensure that you include the licence number and project title in any future correspondence and that you complete the Summary Harvest Report upon completion of activities under this licence.

Yours truly,



Jenna Kayakjuak
License Delivery Officer
Northern Operations
Central and Arctic Region
Fisheries and Oceans Canada
Enclosure

August 21, 2018

Date

LICENCE TO FISH FOR SCIENTIFIC PURPOSES

S-18/19-1009-NU

Pursuant to Section 52 of the Fishery (General) Regulations, the Minister of Fisheries and Oceans hereby authorizes the individual(s) listed below to fish for scientific purposes, subject to the conditions specified.

Project Authority: Brice Loose University of Rhode Island Graduate School of Oceanography
218 South Ferry Road
Narragansett, RI, USA 02882

Other Personnel: Science Team
Dr. Brice Loose, University of Rhode Island Graduate School of Oceanography, Chief Scientist, Co-PI
Dr. Donglai Gong, Virginia Institute of Marine Science
Dr. Kevin Boswell, Florida International University
Dr. Carina Gjerdrum, Canadian Wildlife Service
Holly Morin, University of Rhode Island Graduate School of Oceanography Inner Space Center, Education Lead
Mary Thaler, University of Laval
Sarah Rosegard, University of British Columbia
Zak Kerrigan, University of Rhode Island Graduate School of Oceanography
Lydia Bienlien, Virginia Institute of Marine Science
Cynthia Garcia Eidell, University of Illinois at Chicago
Mia Otokiak, Cambridge Bay, Nunavut
15 undergraduate students to be determined.

Streaming Production Crew
Lewis Abramson, Producer
Communication Engineer and Marine Technician to be determined

Documentary Film Crew and Participants
David Clark, Film Producer/Director, Co-PI
Robert Elfstrom, Cameraman
Ray Day, Soundman
Bruce Elfstrom, Line Producer
Juliana Hanle, Associate Producer
Duncan Clark, Cameraman
Dr. Hester Blum, Penn State University
Ed Struzik, Journalist

Objectives: URI Northwest Passage Project 2018

The science activities are motivated by the overarching goal to understand how waters of the Canadian Arctic Archipelago (CAA) have changed as a consequence of the secular warming trend over the Arctic Circle. We approach this goal using an interdisciplinary ocean-based research program to explore the changes in four (4) thematic areas:

1. Water mass properties and circulation inside the CAA.
2. Microscopic communities in transition due to a changing Arctic climate.
3. At-sea distributions of marine birds and mammals in Canadian Arctic waters.
4. Greenhouse gas chemistry, and microbial activity of the melting Arctic and marginal seas

CONDITIONS

Specified Conditions:

Vessel platform:

Name: Akademik Ioffe

CFV/Registration number: 870072; IMO 8507731

Country of Registration: Russia

The NPP Akademik Ioffe expedition will transit the Northwest passage from Resolute Bay, departing August 23, 2018, traveling south and west to Cambridge Bay via Bellot Strait and then returning to Lancaster Sound and Pond Inlet before travelling down the east side of Baffin Island. The expedition will terminate in Iqaluit on September 13, 2018.

Waters:

Water Body: MARINE AREAS OF THE NSA

Point A: 0° 0' N, 0° 0' W

Species: Zooplankton

Gear: Plankton Net

Total Weight	Weight Live	Weight Dead	Number Alive	Number Dead	Number Tows	Number Sets	Hours	Minutes
10.00								

Fishing Period: August 23, 2018 to September 20, 2018

A copy of this licence must be available at the study site and produced at the request of a fishery officer.

Live fish may not be retained unless specified in the conditions of this licence.

The licence holder shall immediately cease fishing when the total fish killed or live sampled reaches any of the maximums set for any of the species listed.

Transportation:

Other approvals/permits may be necessary to collect or transport certain species, such as Marine Mammal Transportation Permits. For marine mammal parts, products and derivatives a Marine Mammal Transportation Licence is required for domestic transport and, for international transport a Canadian CITES Export Permit is also required.



Report on Activities:

The Project Authority will submit to the License Delivery Officer, Department of Fisheries and Oceans, within one month of the expiry date, a report stating:

- i) whether or not the field work was conducted; and if conducted
- ii) waterbody location, fishing coordinates, gear types used at each coordinate, numbers or amount of fish (by species) collected and/or marked and the date or period of collection.

A Summary Harvest Report template is provided by the License Delivery Officer at time of issuance of this licence .

The Project Authority also will provide a copy of any published or public access documents which result from the project . Information supplied will be used for population management purposes by the Department of Fisheries and Oceans and becomes part of the public record.

All documents should be sent to:

Fisheries and Oceans Canada
Northern Operations
Central and Arctic Region
P.O. Box 358
Iqaluit, NU X0A 0H0

Attention: Licence Delivery Officer

Telephone: (867) 979-8005
Fax: (867) 979-8039
E-mail: XCNA-NT-NUpermit@dfo-mpo.gc.ca

Notification of Commencement:

Prior to the commencement of fishing the Project Authority will contact:

Fisheries and Oceans Canada
Northern Operations
Central and Arctic Region
P.O. Box 358
Iqaluit, NU X0A 0H0

Attention: Licence Delivery Officer

Telephone: (867) 979-8005
Fax: (867) 979-8039
E-mail: XCNA-NT-NUpermit@dfo-mpo.gc.ca

Larry Dow
Director, Northern Operations
Central and Arctic Region
Fisheries and Oceans Canada

August 21, 2018

Date

For the Minister of Fisheries and Oceans.

Pursuant to Section 52 of the Fishery (General) Regulations.