

SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 029 26N-M

ISSUED TO: Jose Lagunas-Morales
Department of National Defence
2459 Route de la Bravoure, B010-4518
Quebec City, Quebec
G3J 1X5 Canada

TEAM MEMBERS: S.Champagne,M.Sazidy,A.Price,L.Miller,J.Brown,C.Meadus,G.Hickey
D.Chabot,S.Hatcher,G.Real,M.Bernadini,N.Manderlet

AFFILIATION: Defence Research and Development Canada

TITLE: IceNAV 2026

OBJECTIVES OF RESEARCH:

The planned research focuses on measuring and understanding the properties of floating sea and glacial ice using sensors mounted on a ship, on a drone launched and recovered from the ship, on satellites, and on a small underwater autonomous vehicle. Sensors are used to passively measure the ice conditions around the vessel during transit operations. Additionally, the science team will disembark from the ship onto sea ice floes to manually retrieve and measure sea ice characteristics. Manual measurements include extracting sea ice cores, collecting samples of sea ice for mechanical testing, performing temperature and salinity measurements of the water near and under the targeted ice floes, and measuring ice thickness profiles using specialized sensors and subsea acoustics. The manual measurements are used to calibrate the data gathered by sensors. The research will take place in the regions surrounding the Northwest Passage intersection, including Lancaster Sound, Parry Channel, Peel Sound, M'Clintock Channel and Prince Regent Inlet, between August 20 and August 30, 2026.

TERMS & CONDITIONS:

The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File #26YN044) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:

DATES: August 20, 2026-August 30, 2026

LOCATION: Northwest Passage,Lancaster Sound,M'cLintock Channel,Parry Channel,Prince Regent Inlet

Scientific Research License 02 029 26N-M expires on December 31, 2026

Issued at Iqaluit, NU on August 19, 2026

PER 
James Shirley
Science Advisor

