

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 008 25N-M

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TITLE: COMET: Characterization of the Marine Ecology outside Qikiqtarjuaq

OBJECTIVES OF RESEARCH:

Climate-driven changes in the Arctic Ocean have significant bottom-up implications for the marine ecosystem. Alterations in environmental conditions, such as temperature, salinity, and nutrient levels, are affecting sea-ice algae, phytoplankton dynamics and assemblages, zooplankton and fish ecology. These changes can disrupt the flow of energy and organic matter through the food web, with cascading effects on critical ecosystem services, including the health of harvested marine mammals, seabirds, and fish. This project proposes the use of minimally invasive techniques to monitor and evaluate the current ecosystem dynamics to develop an accurate baseline for future research. This project also builds upon prior research initiatives conducted over the past decade in Qikiqtarjuaq and surrounding areas.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 14YN04) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:

DATES: April 1,2025 to December 31,2025

LOCATION: Qikiqtarjuaq Marine Areas

Scientific Research License 02 008 25N-M expires on December 31,2025
Issued at Iqaluit, NU on January 13,2025

PER 
James Shirley
Science Advisor

