

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 012 25R-M

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TITLE: An Updated View of the Oceanographic Conditions in the Northern Canadian Arctic

OBJECTIVES OF RESEARCH:

This specific research program is focused on the oceanography of the northern Canadian Arctic, an area that integrates changes in the ocean, sea ice and glaciers, but also an area that has been understudied due to its northern latitudes and nearly year-round ice cover. Our study area covers Eureka Sound, Nansen Sound, Greely Fiord, d'Iberville Fiord and Antoinette Bay, which are presented in the map below and represent the northernmost oceanographic passageway from the Arctic Ocean into the Canadian Arctic. The initial oceanographic surveys of this region took place in the 1960s and 1970s and highlighted the presence of Atlantic and Pacific Waters advected into the area from the Arctic Ocean, and a subtle freshwater signal sourced from local glacial discharge. However, since then there are no oceanographic observations available from this area. We know from the lengthening open water season and increasing mass loss from the surrounding glaciers, that the area has undergone a change, but it remains unclear exactly how this change has manifested throughout the water column.

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 # 24YN028) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

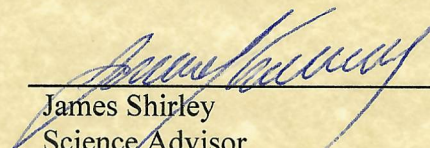
DATA COLLECTION IN NU:

DATES: May 1,2025 to June 1,2025

LOCATION: Eureka

Scientific Research License 02 012 25R-M expires on December 31,2025

Issued at Iqaluit, NU on January 29,2025


James Shirley
Science Advisor

