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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 04 009 24R-M

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TITLE: Atmospheric Monitoring Observatory in Canadian Arctic

OBJECTIVES OF RESEARCH:
The Arctic warms at a rate twice the global average and the sea-ice declines at an unprecedented rate. While the decline in sea-ice is concurrent with the atmospheric/ocean warming, the observed variability is elusive of simple relationships. Recent studies indicate the role of the phase of precipitation on sea-ice growth and decay. There is evidence that extreme events are increasing, be it ice melting, precipitation, storms, pollution etc. in which atmosphere-Ocean -ice interacts at different time and spatial scales. e.g. Atmospheric circulation transport and disperse aerosols that contribute to the observed changes by altering the radiative forcing, and may eventually lead to ice melting by changes in albedo. Sometimes unexpected consequences follow. Uncertainties in our formulations of these processes mainly arise from the paucity of observations and lead to less reliable climate projections and can take a toll on food security and human health. Therefore, there is a need to observe the ocean-atmosphere-ice system in the Arctic. We will begin by setting up atmospheric measurements in Cambridge Bay.

TERMS & CONDITIONS:
The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (22YNO53) and the associated Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:
DATES: August 1,2024 to September 31,2024
LOCATION: Cambridge Bay

Scientific Research License 04 009 24R-M expires on December 31,2024
Issued at Iqaluit, NU on April 11,2024

Jamal Shirley
Science Advisor

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