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# Nunavummi Qaujsaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 038 18N-M

ISSUED TO: Jim Schaefer  
2140 East Bank Drive  
Peterborough, Ontario K9L 0G2 Canada

### TEAM MEMBERS:

AFFILIATION: Trent University

TITLE: Back for the Future: Long-term Observations of Vegetation and Snowcover in the High Arctic

### OBJECTIVES OF RESEARCH:

Long-term observations are critical to understanding long-term environmental change. The Arctic tundra, under climate change, is expected to experience profound changes, including shrub encroachment and a disrupted snow regime. Direct, long-term field observations to monitor and assess these changes, however, are rare. The goal of this research project is to provide such data. In 1991, during my PhD research on Victoria Island, I established 80 permanent plots where I quantified the cover of plant species; I also monitored the hardness and thickness of snow during two winters. These field observations represent important data for assessing changes over the past quarter-century. They also represent valuable baseline data for the future. This proposal is to evaluate changes in the past 25 years in vegetation and snow conditions and to ensure sustained, long-term monitoring of those conditions.

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report 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: August 07, 2018-August 30, 2018

LOCATION: Wellington Bay

Scientific Research License 04 038 18N-M expires on December 31, 2018

Issued at Iqaluit, NU on June 29, 2018



Mary Ellen Thomas  
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