

# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

Box 1720, Iqaluit, NU X0A 0H0 phone: (867) 979-7279 fax: (867) 979-7109 e-mail:

[mosha.cote@arcticcollege.ca](mailto:mosha.cote@arcticcollege.ca)

## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 034 17R-M

ISSUED TO: Martin Sharp  
Department of Earth & Atmospheric Sciences  
University of Alberta  
University Campus NW  
Edmonton, Alberta, T6G 2E3 Canada

TEAM MEMBERS: A. Dubnick, L. Fernandes

AFFILIATION: University of Alberta

TITLE: Dynamics and Change of the Devon Ice Cap, Nunavut

### OBJECTIVES OF RESEARCH:

Understand how Arctic ice caps are responding to climate warming, and quantify the contribution of glacier melt in Arctic Canada to sea level change. To service and recover data from 5 GPS sensors installed on bedrock around Devon Ice cap that record vertical motion of the Earth's crust in response to changes in the ice cap's mass. To conduct ground based radar surveys and collect shallow ice cores from the upper 5-10m of the ice cap to describe the extent/thickness of ice bodies formed by refreezing of meltwater in the snow and firn. The presence of such ice bodies may increase the fraction of meltwater that runs off to the ocean since they prevent meltwater from draining into the snow and firn where it can refreeze and instead promote horizontal drainage.

### 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.

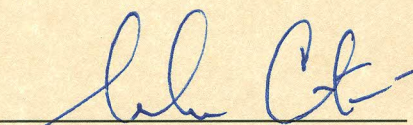
### DATA COLLECTION IN NU:

DATES: April 01, 2017-June 01, 2017

LOCATION: Devon Island

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for   
Mary Ellen Thomas  
Science Advisor

