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# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 010 12R-M

ISSUED TO: Martin Sharp  
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TEAM MEMBERS: M.Sharp,B.Danielson,G.Gascon,C.Mortimer,P.Bezeau,I.Scriver

AFFILIATION: University of Alberta

TITLE: Dynamics and Change of the Devon Ice Cap

### OBJECTIVES OF RESEARCH:

Project Description: The project goal is to describe and explain ongoing changes in the area, mass and flow of the Devon Island ice cap so that we can estimate its recent current and future contribution to changes in global sea level. We are interested in how climate warming may cause faster flow of glaciers that end in the ocean, and how faster flow may lead to more mass loss by iceberg calving. Our work combines field studies with satellite and airborne remote sensing, and with modeling of ice cap flow and interactions with the atmosphere. Our fieldwork involves calibrating and validating measurements made by remote sensing, and measuring changes in ice thickness, snow properties, glacier flow, meltwater production and runoff, and rates of iceberg calving. It provides us with data that we can use in our models.

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions (attached) from the Nunavut Impact Review Board Screening Decision Report and by the Department of Culture, Language, Elders and Youth archeological sites terms and conditions. These terms and conditions will form part of this licence

### DATA COLLECTION IN NU:

DATES: April 01, 2012-August 31, 2012  
LOCATION: Devon Island

Scientific Research License 02 010 12R-M expires on December 31, 2012  
Issued at Iqaluit, NU on January 26, 2012



Mary Ellen Thomas  
Science Advisor

