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# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 048 16N-M

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TEAM MEMBERS: E. Brosier, 3 Crew

AFFILIATION: University of Toronto at Mississauga

TITLE: Past Climate Reconstruction using Annually-Layered Carbonate Buildups on the  
Nunavut shallow  
seafloor.

### OBJECTIVES OF RESEARCH:

Climate data in the Canadian Arctic prior to the beginning of instrumental observations in the 20th century is sparse. Hence, at present we do not have a good understanding of ocean temperature and sea ice evolution during the past centuries. During our cruise we will collect small carbonate (limestone) mounds on the shallow seafloor of Nunavut. These mounds contain annual bands and can form on the seafloor for hundreds of years, hence, allowing a reconstruction of Arctic climate several centuries back.

### 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.

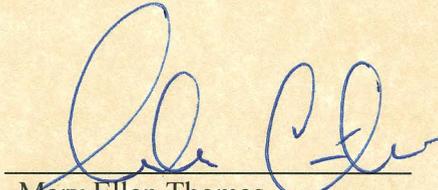
### DATA COLLECTION IN NU:

DATES: August 01, 2016-September 16, 2016

LOCATION: Jones Sound, Lancaster Sound, Wellington Channel, Penny Strait, Prince Regent Inlet

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fo/ Mary Ellen Thomas  
Science Advisor

