

SCIENTIFIC RESEARCH LICENCE

LICENCE # 0201109N-M

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TITLE: Glacier and Climate Evolution of Baffin Island, Arctic Canada

OBJECTIVES OF RESEARCH:

The purpose of this project is to determine the glacier and climate evolution of Baffin Island on long, pre-historic time scales. Our time periods of focus are both: 1) the present, warm interglacial period that has lasted since the end of the last ice age, about 10,000 years ago, and 2) the longer period of the Ice Age that spans the last 2 million years. We have many specific goals that have evolved from our long history of research in the three study regions. We are using geological techniques to reconstruct the history of ice caps, like the Barnes Ice Cap, during the past few thousand years. We are also collecting cores of lake sediments that we use to make inferences about past climate change and glacier extent, also spanning the last few thousand years. And, we are using chemical and isotopic tracers to reconstruct the ice sheet and landscape evolution of Baffin Island since the beginning of the Ice Age.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (09YN002) and 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 15, 2009-August 31, 2009

LOCATION: Clyde River region, Iqaluit Lakes, Qivitoo Sea cliffs, Small ice caps – North Baffin

Scientific Research Licence 0201109N-M expires on December 31, 2009

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Mary Ellen Thomas
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