
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 027 21R-M

ISSUED TO: Gifford Miller
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TEAM MEMBERS: J. McFarlin, S. Crump, H. Bueltmann, M. Reynolds, N. Young, 1 TBA

AFFILIATION: University of Colorado Boulder

TITLE: Barnes Ice Cap Disappearing

OBJECTIVES OF RESEARCH:

The Barnes Ice Cap is the final remnant of the giant Laurentide Ice Sheet that covered most of Canada during the last Ice Age. It has been stable for the past 3000 years but is now melting at all elevations in the face of increasing summer warmth. Even with no additional warmth, we project its disappearance within a few hundred years. The goal of our research is to determine whether the Barnes Ice Cap disappeared during earlier interglacials, or whether its disappearance is unprecedented in more the two million years. To address this question, we will take small rock cores of bedrock at the margin of the current ice cap and analyze those rock cores for unusual nuclides that would have been created if the ice cap had disappeared in the past.

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. The license holder will abide by all special public health protection measures imposed by Nunavut's Chief Medical Officer of Health in response to the Covid-19 Pandemic, including restrictions on non-essential travel to Nunavut. These terms and conditions will form part of this licence.

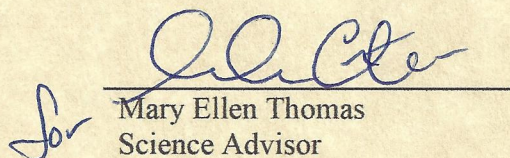
DATA COLLECTION IN NU:

DATES: July 20, 2021-August 04, 2021

LOCATION: Barnes Ice Cap

Scientific Research License 02 027 21R-M expires on December 31, 2021

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Mary Ellen Thomas
Science Advisor

