Nunavut Research Institute / ᓄᓇᕗᒻᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᒃᑯᑦ
Box 1720, Iqaluit, NU X0A 0H0 phone:(867) 979-7279 fax: (867) 979-7109 e-mail: mosha.cote@arcticcollege.ca

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 028 22R-M

ISSUED TO: Gifford Miller
INSTAAR & Geological Sciences
University of Colorado Boulder
4001 Discovery Drive
Boulder, Colorado
80309-0450 USA

TEAM MEMBERS: J.Raberg,M.Raynolds,H.Bueltmann,D.Grossman,N.Young,T.Walthers

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. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:
DATES: August 1,2022 to August 17,2022
LOCATION: Barnes Ice Cap

Scientific Research License 02 028 22R-M expires on December 31,2022
Issued at Iqaluit, NU on April 19,2022

Per
Jamal Shirley
Science Advisor

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