
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 017 21R-M

ISSUED TO: Yonas Dibike
Hydrologic Modelling & Hydro-Climate Analysis and Impact Studies
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TEAM MEMBERS: L. de Rham

AFFILIATION: Environment and Climate Change Canada

TITLE: Climate Change Effects of a Changing Cryosphere on Northern Lakes

OBJECTIVES OF RESEARCH:

Climate change is projected to cause significant change to arctic aquatic ecosystems. Changes in the thickness and composition of arctic lake ice covers will produce second order impacts on lake biological productivity and ecology. The most important effects are likely to result from changes in temperature and precipitation. While a number of models have been developed to model these changes, their validation has been stalled by lack of relevant field data. Relevant field data has been gathered annually since 2009. For 2021, ice-composition surveys may be repeated, depending on time and resource availability, at the above noted lakes with the assistance of local contractors or agencies. If undertaken, the proposed completion dates for the surveys at the lake sites will be between March 1 and July 30, 2021. Specific dates will be determined based on agency/contractor availability.

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: - March 01, 2021-July 30, 2021

LOCATION: Lake Hazen, Lower Dumbell Lake

Scientific Research License 02 017 21R-M expires on December 31, 2021

Issued at Iqaluit, NU on March 01, 2021



Mary Ellen Thomas
Science Advisor

