
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 030 12N-A

ISSUED TO: Shawn Marshall
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TEAM MEMBERS: S.Marshall,S.Ebrahimi,E.Haag,J.Rajewicz

AFFILIATION: University of Calgary

TITLE: Glacier-Climate Studies on the Prince of Wales Icefield, Ellesmere Island

OBJECTIVES OF RESEARCH:

As glaciers retreat, they expose bare land that heats up during the summer months, providing a source of heat that can increase melt rates for adjacent glacier ice. Past studies by my research group on the Prince of Wales (POW) Icefield, Ellesmere Island, record these influences, but we have not systematically studied them; in summer 2012 I propose to set up a transect of weather stations on the southwestern margin of the POW Icefield and carry out a series of tethersonde ('weather kite') measurements of the atmospheric boundary layer, to ~300 m depth, to measure the atmospheric structure, energy balance processes, and heat transfer to the icefield. The proposed research will further understanding of glacier-climate processes and glacier response to climate change.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and consitions of the Nunavut Impact Review Board Screening Decision Report 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: May 01, 2012-August 31, 2012

LOCATION: Ellesmere Island

Scientific Research License 02 030 12N-A expires on December 31, 2012

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Mary Ellen Thomas
Science Advisor

