
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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AFFILIATION:

TITLE: Paleoclimatic reconstruction of the Canadian High Arctic using bioindicators

OBJECTIVES OF RESEARCH:

The goal of this field season is to retrieve 1 m long sediment cores from the small, shallow (10 m) and organic-rich lake at the head of Strathcona Fjord. It is important to act as soon as possible as the fluvial erosion near the lake might cause its disappearance. Two miles to the east there is a large, deep detritic lake where we would like to obtain bathymetric measures and collect as well short sediment cores to ascertain the presence of sedimentary lamination.

Sediment cores from the bottom of the lake will be retrieved directly through the lake ice with portable gravity and percussion corers made of nylon. Core tubes are polycarbonate (2 3/4" diam.). Holes will be drilled in the ice with an ice auger provided by PCSP. A temporary camp will be erected for the duration of the work. Another goal of this field trip is to install a meteorological station at South Sawtooth Lake.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions (attached) from the Nunavut Impact Review Board Screening Decision Report and by 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 29, 2010-June 02, 2010

LOCATION: Ellesmere Island

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Mary Ellen Thomas
Science Advisor

