
Nunavummi Qaujsaqtulirijjikut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 042 18N-A

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TITLE: Croker Bay Study and NW Passage Transit to Gjoa Haven

OBJECTIVES OF RESEARCH:

Throughout the Arctic, increasing summer temperatures advance ice sheet surface melting and drainage through terminating glaciers. Canadian cryospheric researchers question why the terminating glaciers of Croker Bay, which drain into Lancaster Sound exhibit melt variations that are synchronous but do not align with any glacier velocity classification. Across Baffin Bay, baseline ice mass loss factors have been addressed at neighboring Northwest Greenland glacial fjords to assess the stability of the GIS. OMG finds that GIS glaciers have melt patterns that are influenced by Atlantic Ocean originating warmer currents. Further into the sound, Barrow Strait Realtime Observatory and offshore Baffin Bay observations demonstrate evidence of AW. Are the terminating glaciers in Croker Bay off the Devon Ice Cap influenced by AW, circulating off Baffin Bay.

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: July 28, 2018-August 31, 2018

LOCATION: Waters of The North West Passage

Scientific Research License 04 042 18N-A expires on December 31, 2018

Issued at Iqaluit, NU on August 08, 2018



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