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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 055 19R-M

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TEAM MEMBERS: C. Campbell, R. Bennett

AFFILIATION: Geological Survey of Canada

TITLE: Geology Research in the Baffin Bay: Reducing Risk to Coastal Communities and Offshore Infrastructures Caused by Marine Geohazards and Seismicity

OBJECTIVES OF RESEARCH:
To investigate the stability of the seabed in fjords near Qikiqtarjuaq and Pangnirtung. New imagery of the seabed shows that submarine landslides have occurred in several locations. Baffin Bay experiences a number of earthquakes which can trigger submarine landslides. Our research will help to determine the risk for a large submarine landslide happening in the future. -Coastal lakes may also be investigated for the occurrence of tsunami deposits. Coring and mapping of coastal lakes would allow us to collect evidence of past tsunamis affecting the shoreline, similar to the 2017 Greenland tsunami. In addition, digging in coastal areas may take place using shovels to observe if tsunamis have occurred in the past near the villages. During this type of expedition, we typically collect seabed sediment samples, seafloor photographs and video, information about the shape of the seabed, and sub-bottom imaging.

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: September 20, 2019-October 02, 2019
LOCATION: Baffin Bay (Qikiqtarjuaq, Pangnirtung)

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Mary Ellen Thomas
Science Advisor