

## BUREAU GÉOSCIENTIFIQUE CANADA-NUNAVUT KANATAMI-NUNAVUMI GEOSCIENCE TITIGAKVIIT

## Fury and Hecla Geoscience Project Summary of 2018 Field Work

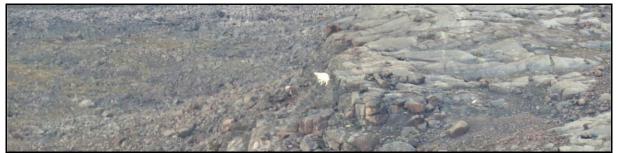
The Canada-Nunavut Geoscience Office conducted 5 weeks of field work as part of the Fury and Hecla Geoscience Project from July 13<sup>th</sup> to August 14<sup>th</sup>, 2018. The work was based from a temporary camp built on the Gifford River by Discovery Mining Services Ltd. (a company based in Yellowknife), and required contracts and services provided by businesses and labourers in Igloolik. The Gifford River Camp (70° 24′ 02.5″ N, 83° 23′ 19.3″ W) was built, and all Jet and camp fuels were brought into the camp between July 5<sup>th</sup> and 16<sup>th</sup> by a Twin Otter on tundra tires, operated by Kenn Borek Air. Two fuel caches were also installed: one near Cape Appel in Agu Bay (70° 06′ 53.4″ N, 86° 06′ 51.0″ W), and another south of Neergaard Lake (70° 07′ 01.2″ N, 80° 35′ 35.5″ W). At the end of the field season, the camp was broken down and all the fuel, equipment, and samples were returned to Igloolik between August 15<sup>th</sup> and 18<sup>th</sup>. On August 29<sup>th</sup> all fuel and equipment from the fuel caches were also cleaned up.

During the field season, teams of 2 or 3 geologists were set out by helicopter to map the rocks along pre-planned traverse routes. At the end of each traverse the teams were picked up and returned to camp for the night. The geologists collected rock samples for laboratory analyses, measured the orientations of faults and folds, identified minerals in the rocks, and photographed the outcrops. These data are currently being compiled and interpreted to generate new geological maps for the study area. Several university students are working on the rock samples to help interpret the geological history of the area and assess its potential to host economic minerals. Additionally, a team of geologists spent time sampling the soil and glacial till to better understand the glacial history of the area.

A second field season of mapping is being planned for 2019 and will focus on the northern and western parts of the study area. The new bedrock geology maps covering the entire study area will be published following the 2019 field season.



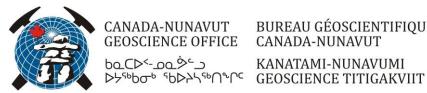
Gifford River Camp (2018-08-13)



Polar bear mother and cub spotted from the air while flying to a traverse set-out point (2018-07-30)







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