

Hall Peninsula Project 2012 : Summary of activities presented to Nunavut Research institute (NRI; 01 005 12N-M)

During summer 2012 geological field work on Hall Peninsula (southeastern Baffin Island) was conducted between June 22nd and August 8th (a period of 47 days). The scope of this work included bedrock mapping at a scale of 1:250 000 and surficial sediment mapping (glacial deposits) at a scale of 1:100 000. Most of the field work was conducted out of a 20-25 person camp located in the southern part of Hall Peninsula. Some field work was conducted out of Iqaluit. Modes of transportation included foot traverses supported by helicopter and twin otter flights supplied camp. U-Pb geochronological samples were taken for assessing the age of rocks and tectonic events in the area. U-Th geothermobarometrical samples were taken to study the age of uplift of the mountains. Samples were taken of some mineralized rocks of the area (called gossans) to assess the potential for copper, nickel, gold and other economic metals. Several new localities of carving stone were found and their size and quality assessed. Glacial sediments (till) samples were taken for geochemical and mineralogical analysis, for environmental, academic and mineral exploration purposes. This work included collaborators from 4 universities, Arctic College, the Canada-Museum of Nature, the Geological Survey of Canada and used the services of several local, Inuit-owned businesses.

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