

100 000 scale), complemented by thematic studies that were designed to provide new fundamental geoscience ional bedrock mapping was conducted over a total of 14 weeks during the summers of 2012 to 2014. Digi notographs, geological measurements, GPS co-ordinates, visual observations, and rock samples were collected from 027 field stations. To interpret the bedrock geology (Figure 1; Machado et al., 2013a), the data has been combined wit ously published information, including aeromagnetic survey data, archival reconnaissance-scale geological maps

scientific literature, and assessment reports from the mineral exploration industry. Surficial geological mapping was conducted over a total of 12 weeks during the summers of 2012 and 2013, with initial results published in field reports (Tremblay et al., 2013, 2014b, 2015a; Leblanc-Dumas et al., 2013) and maps (Tremblay et al., 2014a, 2015b). /IOUS WORK INTEGRATED INTO MAP INTERPRETATION connaissance-scale bedrock mapping was conducted in the mid-1960's by the Geological Survey of Canada during Operation Amadjuak (Blackadar, 1967). The resulting maps and field documentation from that campaign have since been gitized and optimized for integration into modern mapping projects, providing a wealth of observational field data. Regional

rborne geophysical surveys were flown in 1996–1997 with 800 m flight-line spacing over southwestern Baffin Island Pilkington and Oneschuk, 2007), and in 2010 with 400 m flight-line spacing over most of Hall Peninsula (Dumont and ıler, 2010a-g). Full airborne geophysical survey coverage of Hall Peninsula was achieved in 2015 with the completi of the McKeand River survey (Kiss and Tschirhart, 2015), which was flown with 400 m flight-line spacing. The compiled survey data (Figure 2; Geological Survey of Canada, 2015), paired with high-resolution satellite imagery and field servations, was used to extrapolate geological boundaries and structures between visited field stations.

Detailed geology mapping on Hall Peninsula was conducted by Scott (1996) along a 90 km-long corridor located east of et al., 2013; Nichols, 2014), and detailed bedrock and surficial geology mapping within the Chidliak diamond district et al., 2015). The above resources have provided information that was helpful for bedrock mapping interpretation,

The eastern half of Hall Peninsula is dominantly underlain by an Archean orthogneiss complex comprising felsic to

termediate phases. The phases all have internal compositional layering, and display complicated crosscuttin to granodiorite that weathers dull grey. Overall, this unit is medium to coarse grained with biotite (Figure 3), a hornblende, defining a mineral foliation. Pods, enclaves, and rafts of diorite, quartz diorite, and minor gabbro a und in this unit, and have well-defined lithological boundaries and a well-developed internal compositional fabric as with voluminous biotite±hornblende granodiorite are mapped as unit Ag. Local compositional variation to ranite has been documented within this unit. In general, unit Ag is coarse grained and contains less than 5% mafic Map unit Amk represents coarse-grained biotite monzogranite to quartz monzonite with distinctive 1–5 cm wide Kpar phenocrysts and an average of 2% mafic mineral content. Areas with a greater abundance of mafic minerals (up to or a more granodioritic composition were observed within this unit. This unit weathers buff pink, and is locally injected iscontinuous granitic pegmatite veins that are less than 1.5 m wide. Magnetite-biotite monzogranite is represented by map unit Amm. This unit is typically coarse grained, and contains abundant (1–2%) anhedral magnetite crystals. The unit corresponds to areas with a high magnetic anomaly signature in the aeromagnetic survey data. Additionally, this unit is crosscut by granitic to syenogranitic pegmatite dykes that also contain

Supracrustal metasedimentary rocks were documented across Hall Peninsula, and were found to disconformably overlie the Archean orthogneiss complex. A basal quartzite (unit PLHq) is locally found directly in contact with the thogneiss, or within the first few metres of metasedimentary strata. The quartzite is blueish-grey and translucent, contains ry mineral bands that may indicate original bedding, and occurs as laterally discontinuous beds that are 1 to 25 m th are metamorphic garnet, sillimanite, biotite, and magnetite have been documented within the quartzite and along bedding Unit PLHs is found in the lower part of the metasedimentary sequence and can be up to 250 m in thickness. This unit comprises (in order of abundance) interbedded semipelite, pelite, psammite, quartzite, and minor diorite, amphibolite, metaironstone, marble, and calc-silicate. The semipelitic and pelitic lithologies typically contain metamorphic garnet, sillimanite, biotite, and rare muscovite porphyroblasts. The quartzite is 20–50 cm thick, ranges from gray and translucent to hite and opaque, and commonly has heavy mineral bands. The diorite and amphibolite layers (Figure 4) are fine to medium rained and locally contain metamorphic garnet (unit PLHa, resolved on map where thick enough). Metaironstone layers ar than 1.5 m thick, and have internal compositional segregation of garnet, quartz, and grunerite layers that are 1-5

ck. The marble and calc-silicate layers recessively weather, and typically contain metamorphic diopside, clinohumite

ains 1–4 m wide dykes and sills of medium- to coarse-grained leucogranite with metamorphic garnet, biotite, an

ite, and rare olivine, apatite, spinel, and graphite (unit PLHm, resolved on map where thick enough). The Pl

netite megacrysts. Both fresh and weathered surfaces are pale to light pink.

tasedimentary rocks (Dyck and St-Onge, 2014). Therefore, the pelitic and psammitic rocks of unit PLHp are interpreted a aving restitic compositions following partial melting and recrystallization of the leucogranitic melt into distinct dykes, sills The top of unit PLHp becomes increasingly dominated by leucogranitic material, to the point where rafts of restitic pelite and psammite are floating in the leucogranite. Unit PLHw represents the areas where the volume of leucogranite exceed that of the remnant pelite or psammite. The leucogranite is fine to medium grained, weathers bright white, and contain bundant lilac garnet porphyroblasts and minor biotite. Rare metamorphic cordierite was documented in the leucogranite o e southwestern coast of Hall Peninsula. Paleoproterozoic igneous phases were documented across Hall Peninsula. Unit Pu (resolved on map where thick enough) represents mafic-ultramafic sills in the metasedimentary sequence (Figure 6), and plugs and sills in the Arche granodiorite orthogneiss (unit At). Unit Pu includes metaperidotite, metapyroxenite, and metadunite lithological host rock, implies localized hydrothermal alteration at some point after emplacement of the sills and/or plug elatively unaltered, large-scale (up to 350 m thick and 7 km long) and layered mafic-ultramafic sills were documented within ner Paleoproterozoic igneous phases on Hall Peninsula are generally felsic, yet typically contain orthopy

ggesting crystallization at high temperatures. Unit Pgo represents orthopyroxene-h

contains megacrystic K-feldspar up to 4 cm wide. Garnet was observed at a few locations within a few metres of a contact zone with the PLHw unit. Quartz is characteristically blueish-grey, and occurs in discontinuous ribbons that are 1–2 cm thick Biotite-garnet±orthopyroxene monzogranite containing small rafts, pods, and lenses of metasedimentary rock wa identified on the western side of Hall Peninsula and is represented by unit Pmg. This lithology is coarse grained and equigranular. The abundance of garnet increases and the grain size becomes more inequigranular with proximity to included All Archean and Paleoproterozoic rock units are cut by NW-SE trending gabbroic diabase dykes (unit Nd) presumed to be associated with the Neoproterozoic Franklin swarm event documented elsewhere across the Canadian Arctic (Heama al., 1992; Denyszyn et al., 2009). The dykes are fine to medium grained, homogeneous, weather brown, and are about

tion. Magnetite is fine to very-fine grained and typically found adjacent to other mafic phases. Fresh rock surfaces are notive pale green with a greasy lustre, while weathered surfaces are dark orange to brown.

Unit Pmo represents orthopyroxene-biotite \pm magnetite monzogranite that is generally very-coarse grained, and locall

00 m wide and laterally continuous for hundreds of kilometres. Hall Peninsula is contained within the northeastern (Quebec-Baffin) segment of the Trans-Hudson Orogen (THO), a shape (Hoffman, 1988; Lewry and Collerson, 1990). The THO marks the collision between the upper-plate collage of Archean crustal blocks (Churchill plate) and the lower-plate Superior craton. The southern Baffin Island region in particular records the southward migration of the Churchill plate and its terminal collision with the Superior craton at ca. 1.82–1.80 G

(St-Onge et al., 2009). This was the last major deformational event that the Hall Peninsula area endured, and it therefor contains lithological, structural, metamorphic, and textural evidence to attest to the timing and conditions of the associated The orthogneiss complex exposed on the eastern part of Hall Peninsula has been studied in detail to identify the ages of the various lithological components. At one locality the orthogneiss complex was documented to comprise at least sev lithologies within a few hundred metres based on crosscutting relationships (From et al., 2013, lization ages scattered between about 2976 to 2608 Ma (Scott, 1999; Rayner, 2014, 20 et al., 2015). The lower part of the sequence (eastern Hall Peninsula) is n inantly pelitic to semipelitic lithologies, with limited mafic, ultramafic, and carbonate components. Th uence (western Hall Peninsula) contains mostly pelitic to psammitic, restitic metasedimentary rocks a ucogranite derived from partial melting of the metasedimentary units. The transition from the lithologically varied u e east to dominantly pelitic to psammitic units in the west is interpreted to represent a change in the paleo-deposition vironment from a proximal shallow-marine setting with input of mafic materials, possibly from a local rifting environmen more distal continental-shelf and slope-rise setting (MacKay et al., 2013; Machado et al., 2013; Steenkamp and St-Onge Uranium-lead detrital zircon geochronology of rock units from different stratigraphic positions in the metasedimentary sequence help constrain the maximum age of sediment deposition and the provenance of detrital materials. Zircon from the blue basal quartzite (unit PLHq) yields provenance profiles with exclusively Archean ages (primarily 2.95–2.65 Ga), simila crystallization ages from the Archean orthogneiss complex, suggesting a local sediment source (Rayner, 2014, 201 uartzite, psammite and semipelite layers from unit PLHs contain detrital zircon with a wide range of ages (3.8–1.9 ayner, 2014, 2015), including known Archean orthogneiss ages, as well as detrital ages that have not yet been ideal Peninsula. A psammitic layer from Beekman Peninsula yields a maximum depositional age of 1959 \pm 12 oungest from the PLHs unit (Rayner, 2014). Despite the increasing effects of metamorphic overprinting on detrital zir grains, two samples collected from western Hall Peninsula constrain the maximum depositional age of unit PLHp to about Mafic rocks within units PLHa and PLHs have lost all primary mineral compositions and proportions, a neous/depositional textures due to the intense metamorphic and deformational conditions of the THO. Therefore, it fficult to determine if the mafic rocks are derived from intrusive and/or extrusive protoliths. Samples of mafic rocks withi e metasedimentary sequence, and ultramafic rocks found as sills and plugs in both the metasedimentary sequence an Archean orthogneiss complex, can be classified as alkaline, calc-alkaline, transitional or tholeiitic based on their whole-roc geochemistry (MacKay and Ansdell, 2014). Further investigation of the major and minor element concentrations in the ocks suggest their genesis was related to partial melting of a subduction-modified mantle source that was upwelled possil uring plume-initiated rifting of the North Atlantic Craton (MacKay, 2014). he orthopyroxene-bearing monzogranitic to granodioritic intrusive rocks occur as laterally continuous panels that psammitic upper units of the supracrustal sequence. The panels are ubiquitous in the central and western parts of ninsula, and range in width from 100 m to several kilometres. Weak to moderate foliation fabrics were observed in th ks, typically defined by the preferential growth-orientation of biotite and elongate concentrations (ribbons) of blueish-

artz. Uranium-lead zircon crystallization ages have been determined from two samples as 1892 ± 7 Ma (Rayner, 2d 1872 ± 5 Ma (Rayner, 2015). The presence of orthopyroxene documented in the majority of these plutonic phagests crystallization at high temperatures. Therefore, these rocks are thought to represent plutonism that precede Initial east-west shortening (pre-thermal metamorphic peak) that produced isoclinal folds (stamorphic foliation (S_{1a}) axial planar to F_{1a} . These early events are interpreted from micro-fabric lusion trails in porphyroblastic phases (Braden, 2013). Continued deformation around the time of thermal metamorphism produced isoclinal folds (F_{1b}) of S_{1a} and development of a new metamorphic mine foliation (S_{1b}) axial planar to F_{1b} . This event coincides with the partial melting of metasedimentary units the duced muscovite-bearing leucogranite sills and dykes on the eastern part of the peninsula, and voluminous

2. Intensified east-west shortening continued following the thermal metamorphic peak, and resulted in the development of large-scale, east-verging, thick-skinned recumbent folds (F_a, Figure 8) and thrusts (T_a). M zones, and ductile stretching and mineral-growth lineations (L₂) expressed as rodded quartz or amphibole, riented sillimanite, and aligned orthopyroxene (Dyck and St-Onge, 2014) were recognized in the hanging and footwalls of thrust planes. Altered ultramafic intrusions (unit Pu) were locally identified as plugs and sills along rust surfaces in the Archean orthogneiss, as well as boudinaged sills in the supracrustal sequence (Figure 6) Based on field relationships and deformation of the ultramafic bodies, it is believed that their emplacement either preceded or was synchronous with this deformational stage (Steenkamp et al., 2014). D_s : Late north-south shortening produced broad, open folds (F_s), and a crenulation cleavage (S_s) defined by

> The metamorphic mineral assemblages documented across Hall Peninsula in pelitic to semi-pelitic rocks reflect a radual increase in peak metamorphic grade from amphibolite-facies conditions (~740°C; garnet+biotite+sillimanite+K muscovite) in the east to granulite-facies conditions (>850°C; garnet+biotite+K-feldspar+melt±sillimanite) in the (Skipton et al., 2013; Skipton and St-Onge, 2014). Chemically distinct rim domains on zircon identified in Archear hogneiss, and Paleoproterozoic supracrustal and plutonic rocks are interpreted to represent zircon growth during netamorphism (Rayner, 2014, 2015; From et al., 2015). Ages interpreted as metamorphic include 1855 ± 13 Ma from tonalite orthogneiss (unit At; Rayner, 2015), 1856–1832 Ma from K-feldspar megacrystic granite (unit Amk; Rayner, 2014), 861 ± 25 Ma from quartzite (unit PLHq), 1886 - 1832 Ma from psammite (unit PLHp), and 1828 ± 3 Ma from orthopyroxene-

ocks on Hall Peninsula took at least 140 m.y. to cool from peak thermal metamorphic conditions through approximately 20–450°C, the nominal closure temperature for radiogenic Ar in muscovite. Further cooling and exhumation of Hall Peninsula during the Phanerozoic has been constrained with apatite and zircon (U-Th)/He low-temperature thermochronology (Creason and Gosse, 2014) which has been used as input parameters in the HeFTy and PECUBE thermal modelling programs (Creason, 2015). The thermal modelling results support an exhumation scenario with an extremely slow exhumation rate (8-10 m/m.v.) during the Phanerozoic. Furthermore, variations in the models isotherm outputs between about 340 to 400 Ma are coincident with post-Ordovician fault block movements in ern Canadian Arctic (e.g. Sanford, 1987), and may indicate disturbances of the footwall isotherms due to fault motion ir Peninsula hosts a variety of geological features and occurrences with potential for economic deposits. Mafic-ultramafic

and layered sills (Figure 6) bear resemblance to the lithologies in the Cape Smith belt of northern Quebec which hosts Raglan Ni-Cu-platinum group element deposit (St-Onge and Lucas, 1993; Lesher, 2007; Steenkamp and St-Onge Jltramafic rock bodies that have hydrothermally altered mineral assemblages have also been evaluated as potentia supracrustal sequence contains abundant granitic pegmatites that may bear rare-earth elements (Bigio et id metamorphosed carbonate units with euhedral pale-purple spinel and light-blue apatite, which can both be us precious gemstones. Mafic metasedimentary rocks, metaironstones, and pyrite- and pyrrhotite-bearing silicified sanous layers also have potential to contain base and/or precious metal concentrations (Steenkamp, 2014).

muscovite, biotite, and faserkiesel sillimanite reoriented axial planar to F₃. The F₃ folds locally deflect the strike of

older fabrics, and the interference of F₃ on F₂ folds creates doubly-plunging (Figure 8) and bulls-eye map

, R. Takpanie and D.J. Mate, all formerly with the Canada-Nunavut Geoscience Office; N.M. Rayner from the Survey of Canada; M. Senkow, P. Budkewitsch and A. Bigio from Aboriginal Affairs and Northern Developm ge Camp Cook Program. Special thanks are given to the many locally owned and operated businesses in Iqa nirtung that provided logistics, grocery, and camp services and support. Peregrine Diamonds Ltd. is thanked for pperation in sharing logistics, camp facilities, and geology information that aided in making this map. Athorough and noughtful review of this map by N. Wodicka is greatly appreciated.



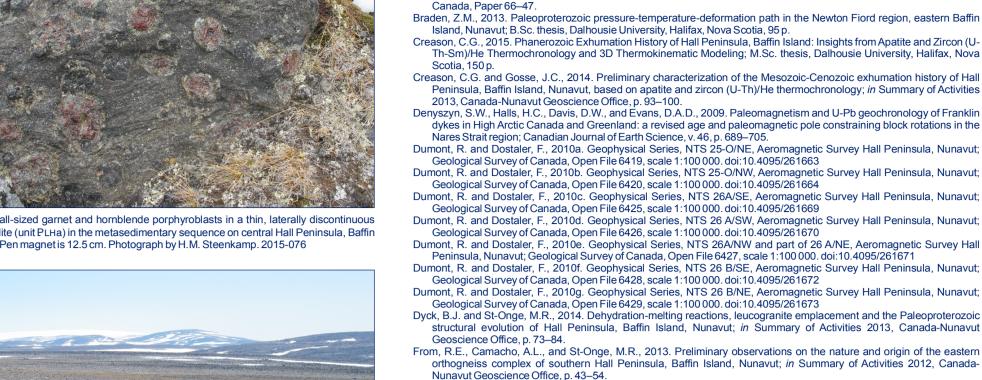


m flight-line spacing; Pilkington and Oneschuk, 2007), 2010 (400 m flight-line spacing; Dumont and Dostaler, a-g), and 2015 (400 m flight-line spacing; Kiss and Tschirhart, 2015). The Chidliak Bay (south) map sheet is

compositional layering. Photograph by R.E. From. 2015-075

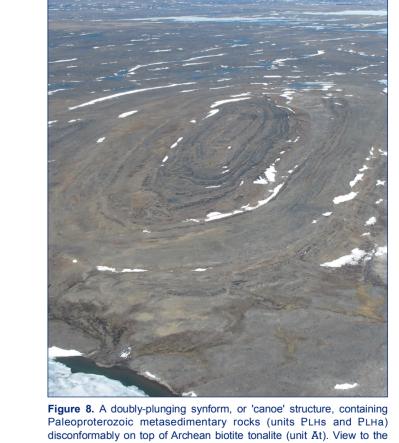






uthors thank all those who participated in the Hall Peninsula Integrated Geoscience Program: G. Machado, C

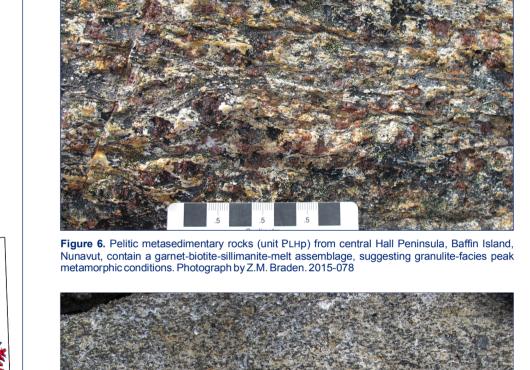




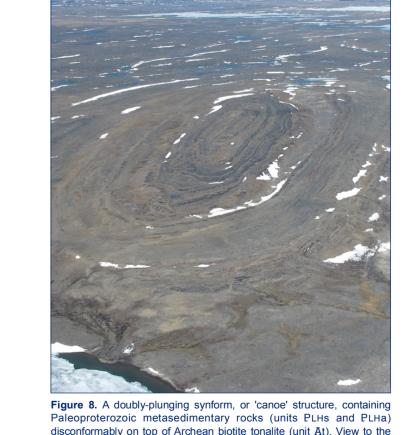
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Preliminary publications in this series have not been scientifically edited.

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Logistical support provided by the Polar Continental Shelf Program as part of its mandate to promote scientific research in the Canadian North.

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GEOSCAN (http://geoscan.nrcan.gc.ca/) and the Canada-Nunavut Geoscience Office (http://cngo.ca/).

This map is not to be used for navigational purpose

GEOLOGY CHIDLIAK BAY (SOUTH) Baffin Island, Nunavut NTS 26-B (south)