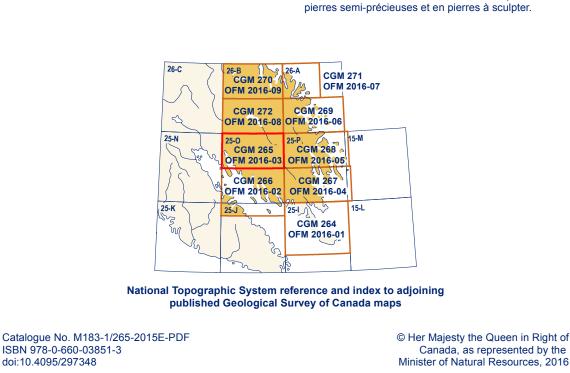


Abstract

The Hall Peninsula Integrated Geoscience Program was led by the Canada-Nunavut Geoscience Offic d was designed to increase the geoscience nowledge and assess the economic potential of the rea. Eastern Hall Peninsula is dominantly underlain by Archean tonalite to quartz diorite orthogneiss, while principalement des orthogneiss tonalitiques exposed to the west. The supracrustal rocks are dominated by pelitic, psammitic, amphibolite and calc-affleurent à l'ouest. Les roches supracrustales so silicate units, are interpreted as correlative with the dominées par des unités pélitiques, psammitique ake Harbour Group, and are cut by granulite-grade amphibolitiques et calcosilicatées et ser monzogranite to diorite intrusions. Hall Peninsula records three phases of metamorphism and recoupées par des intrusions de compositi deformation associated with the Trans-Hudson Orogen monzogranitique à dioritique du faciès des granulites have produced thick-skinned east-verging fold ar hrust structures and amphibolite to granulite facies mineral assemblages. Hall Peninsula hosts a highly prospective diamond kimberlite field, as well as mafic and carbonate supracrustal rocks, and ultramafic intrusions that may contain base and/or precious metal, semi-precious gemstone and carving stone resource

Le Programme géoscientifique intégré de la péninsule Hall, mené par le Bureau géoscientifique Cana Nunavut, a été concu pour accroître les connaissan péoscientifiques et évaluer le potentiel économique la région. La partie est de la péninsule Hall cont Paleoproterozoic supracrustal and intrusive rocks are quartzodioritiques de l'Archéen, tandis que des roche supracrustales et intrusives du Paléoprotérozoïque de métamorphisme et de déformation associées 'orogène trans-hudsonien, qui ont donné lieu à l tectonique de socle caractérisée par la formation structures de plissement et de chevauchement vergence est et à la création d'associations de minéraux du faciès des amphibolites au faciès de nulites. La péninsule Hall renferme un champ kimberlites très prometteur pour le diamant, ainsi qu es roches supracrustales mafiques et carbonatées s intrusions ultramafiques susceptibles de conte des ressources en métaux usuels ou précieux, el

Résumé

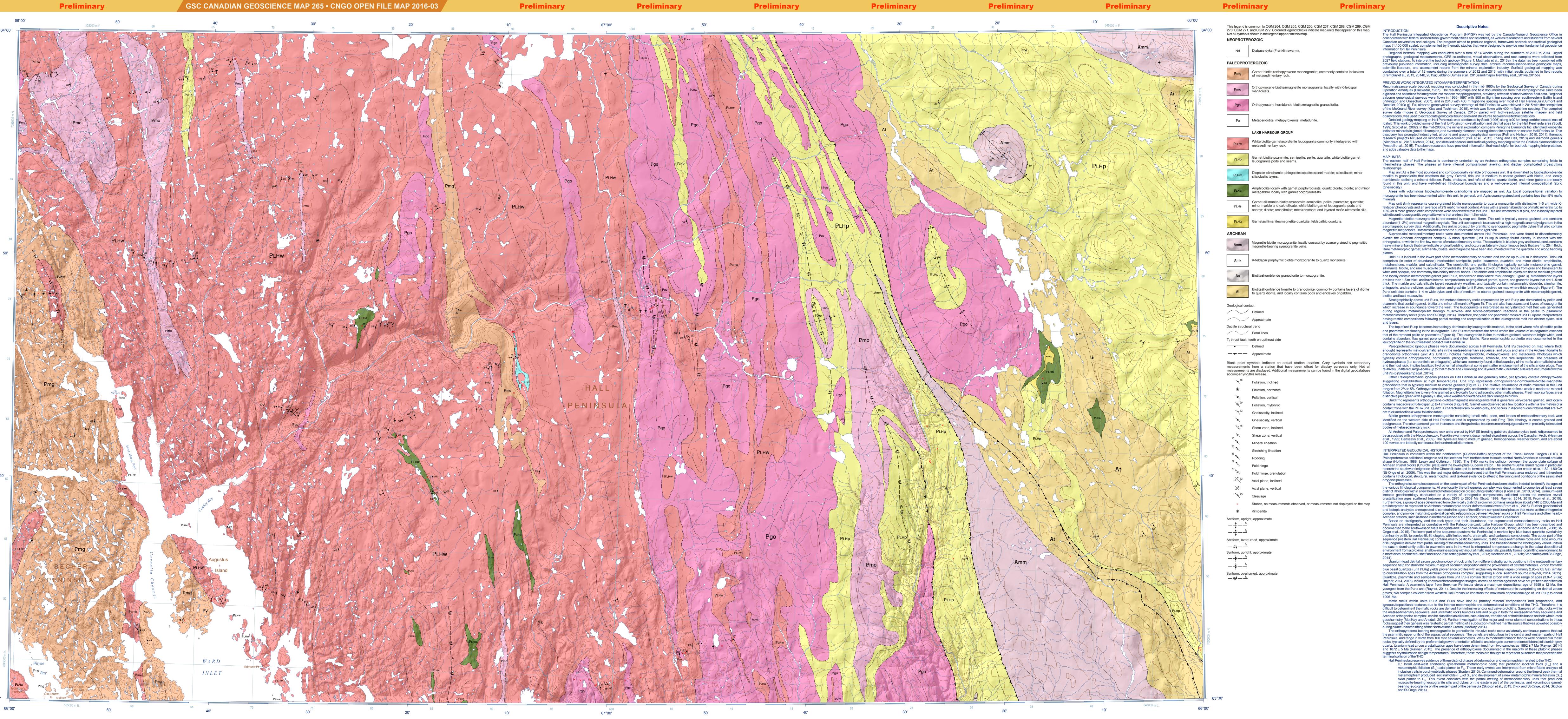


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GEOLOGICAL SURVEY OF CANADA **CANADIAN GEOSCIENCE MAP 265** CANADA-NUNAVUT GEOSCIENCE OFFICE OPEN FILE MAP 2016-03 GEOLOGY WARD INLET (NORT Baffin Island, Nunavut

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eological Survey of Canada **Canadian Geoscience Maps**

Authors: H.M. Steenkamp, C. Gilbert, and M.R. St-Onge eology by H.M. Steenkamp, G. Machado, M.D. Young I.R. St-Onge, N.M. Rayner, D.R. Skipton, R.E. From C.B. MacKay, Z.M. Braden, C. Bilodeau, C.G. Creason, 3.J. Dvck, E.R. Bros, K. Martin, R. Takpanie, P. Pevton, C. Sudlovenick, R. Hinanik, K. Napayok, C. Gilbert Budkewitsch, A. Bigio, M. Senkow, M. Beauregard, D.J. Mate, and J. Leblanc-Dumas, 2012–2014; R.G. Blackadar, 1965.

Preliminary

Geological interpretation and notes by H.M. Steenkamp, 2015 and G. Machado, 2012

Logistical support provided by the Polar Con Shelf Program as part of its mandate to promote scientific research in the Canadian PCSP 30113

Preliminary	GSC CANADIAN GEOSCIENCE MAP 265 • CNGO OPEN FILE MAP 2016-03	Preliminary Map projection Universal Transverse Mercator, zone 19. North American Datum 1983 Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications. Elevations in metres above mean sea level	Prelim Title photograph: Go and graphite-bearing PLHa) on western Nunavut. Photogr The Geological Sur
Geology conforms to Bedrock Data Model v. 2.2	GEOLOGY		
Geomatics by H.M. Steenkamp and C. Gilbert	WARD INLET (NORTH)		
Cartography by C. Gilbert	Baffin Island, Nunavut		
Initiative of the Canada-Nunavut Geoscience Office, conducted under the auspices of the Hall Peninsula Integrated Geoscience Project, supported by CanNor's	NTS 25-O (north)	Shaded relief image derived from the digital elevation model supplied by the Canada-Nunavut Geoscience	Nunavut Geosciene additional
Strategic Investment for Northern Economic Development (SINED) program.	1:100 000 2 0 2 4 6 8 km	Office. Illumination: azimuth 315°, altitude 45°, vertical factor 1x	Data may include add on this map. See
Logistical support provided by the Polar Continental Shelf Program as part of its mandate to promote scientific research in the Canadian North. PCSP 30113		Mean magnetic declination 2016, 28°29'W, decreasing 24.0' annually. Readings vary from 28°02'W in the SW corner to 28°53'W in the NE corner of the map.	This publication is a GEOSCAN (http:/ Canada-Nunavut G

Preliminary Preliminary Gossanous weathering of sulphide aring mafic metasedimentary rocks (unit estern Hall Peninsula, Baffin Island, notograph by D.R. Skipton. 2015-027 Survey of Canada and the Canada

cience Office welcome corrections or ditional information from users. e additional observations not portraye

ap. See documentation accompanying the data. n is available for free download through

This map is not to be used for navigational purposes.

biotite monzogranite (Rayner, 2014).

D₂: Intensified east-west shortening continued following the thermal metamorphic peak, and resulted in the nent of large-scale, east-verging, thick-skinned recumbent folds (F_2) and thrusts (T_2). Mylonite zones and ductile stretching and mineral-growth lineations (L₂) expressed as rodded quartz or amphibole, oriented illimanite, and aligned orthopyroxene (Dyck and St-Onge, 2014) were recognized in the hanging and footwalls hrust planes. Altered ultramafic intrusions (unit Pu) were locally identified as plugs and sills along thrust surfaces n the Archean orthogneiss, as well as boudinaged sills in the supracrustal sequence. Based on field relationships and deformation of the ultramafic bodies, it is believed that their emplacement either preceded or was nchronous with this deformational stage (Steenkamp et al., 2014). D_3 : Late north-south shortening produced broad, open folds (F_3), and a crenulation cleavage (S_3) defined by uscovite, biotite, and faserkiesel sillimanite reoriented axial planar to F_3 . The F_3 folds locally deflect the strike of plder fabrics, and the interference of F_3 on F_2 folds creates doubly-plunging and bulls-eye map patterns. The metamorphic mineral assemblages documented across Hall Peninsula in pelitic to semi-pelitic rocks reflect a adual increase in peak metamorphic grade from amphibolite-facies conditions (~740°C; garnet+biotite+sillimanite+K Ispar±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 Arche ogneiss, and Paleoproterozoic supracrustal and plutonic rocks are interpreted to represent zircon growth duri amorphism (Rayner, 2014, 2015; From et al., 2015). Ages interpreted as metamorphic include 1855 ± 13 Ma fro lite orthogneiss (unit At; Rayner, 2015), 1856–1832 Ma from K-feldspar megacrystic granite (unit Amk; Rayner 2014), 61 ± 25 Ma from quartzite (unit PLHq), 1886–1832 Ma from psammite (unit PLHp), and 1828 ± 3 Ma from orthopyroxene-

Following the terminal collision of the THO, the rocks underlying Hall Peninsula experienced a very slow, protracted ing history beginning in the latest Paleoproterozoic and continuing through the Phanerozoic. Muscovite extracted fror pelitic supracrustal rocks on eastern Hall Peninsula were analyzed by ⁴⁰Ar/³⁹Ar step-heating and UV-laser spot dating to nine the cooling history of the area. The step-heating ages range from 1690 ± 3 to 1657 ± 3 Ma, while the spot dating muscovite grains show a 20–30 m.y. age decrease from core to rim analyses (Skipton et al., 2015). This implies that t s on Hall Peninsula took at least 140 m.y. to cool from peak thermal metamorphic conditions through approximately -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 h)/He low-temperature thermochronology (Creason and Gosse, 2014) which has been used as input parameters in the FTy and PECUBE thermal modelling programs (Creason, 2015). The thermal modelling results support an exhumate enario with an extremely slow exhumation rate (8–10 m/m.y.) during the Phanerozoic. Furthermore, variations in odels isotherm outputs between about 340 to 400 Ma are coincident with post-Ordovician fault block movements in astern Canadian Arctic (e.g. Sanford, 1987), and may indicate disturbances of the footwall isotherms due to fault moti

ECONOMIC CONSIDERATIONS Il Peninsula hosts a variety of geological features and occurrences with potential for economic deposits. Mafic-ultramafi and layered sills bear resemblance to the lithologies in the Cape Smith belt of northern Quebec which hosts th Cu-platinum group element deposit (St-Onge and Lucas, 1993; Lesher, 2007; Steenkamp and St-Onge, 201 fic rock bodies that have hydrothermally altered mineral assemblages have also been evaluated as potential carving sources for local Inuit artists (Senkow, 2013; Beauregard and Ell, 2015). supracrustal sequence contains abundant granitic pegmatites that may bear rare-earth elements (Bigio et al., netamorphosed carbonate units with euhedral pale-purple spinel (Figure 4) and light-blue apatite, which used as semi-precious gemstones. Mafic metasedimentary rocks, metaironstones, and pyrite- and p silicified gossanous layers also have potential to contain base and/or precious metal concentrations (Steenkamp

Acknowledgments he authors thank all those who participated in the Hall Peninsula Integrated Geoscience Program: G. Machado, C. odeau, R. Takpanie and D.J. Mate, all formerly with the Canada-Nunavut Geoscience Office; N.M. Rayner from the jical Survey of Canada; M. Senkow, P. Budkewitsch and A. Bigio from Aboriginal Affairs and Northern Developn ada; M. Beauregard from the Government of Nunavut, Department of I C.G. Creason, Z.M. Braden and E.R. Bros from Dalhousie University; D.R. Skipton and K. Martin from the University awa; R.E. From of the University of Manitoba; C.B. MacKay from the University of Saskatchewan; B.J. Dyck fro University; J. Leblanc-Dumas from Université Laval; and P. Peyton, C. Sudlovenick, R. Hinanik and K. Napayok fror Junavut Arctic College iskatchewan), D. Schneider (University of Ottawa) . Camacho (University of Manitoba), K. Ansdell (Univ versity of New Brunswick) are thanked for the lively discussions in the field, and their scientific o

oughtful review of this map by N. Wodicka is greatly appreciated

ion in sharing logistics, camp facilities, and geology information that aided in making this map. Athorour



ure 5. Strongly foliated semipelitic supracrustal rocks (unit PLHp) that contain a granulite-facie mineral assemblage including garnet, biotite, sillimanite and melt leucosomes with K-feldspi plagioclase and quartz on Hall Peninsula, Baffin Island, Nunavut. Photograph by B.J. Dyck. 201

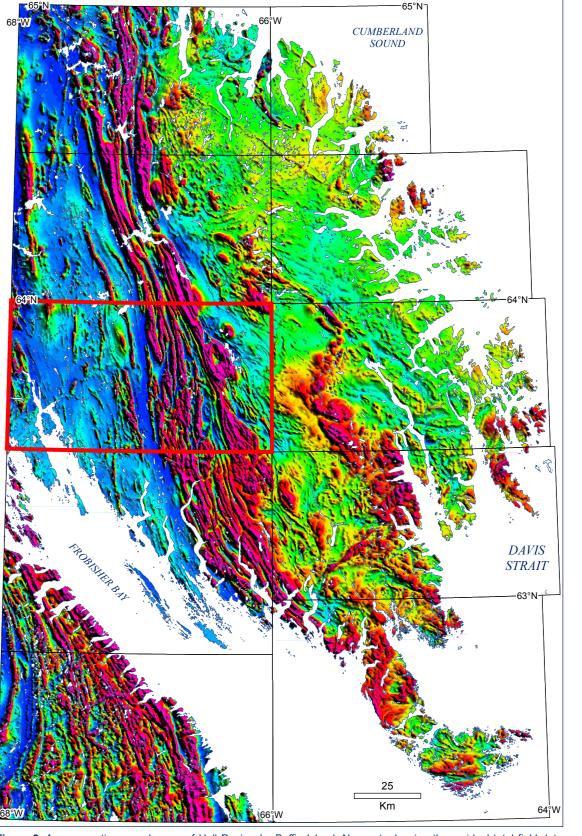


Figure 2. Aeromagnetic anomaly map of Hall Peninsula, Baffin Island, Nunavut, showing the residual total field data ological Survey of Canada, 2015), compiled from regional airborne geophysical survey data collected in 1996–19 m flight-line spacing; Pilkington and Oneschuk, 2007), 2010 (400 m flight-line spacing; Dumont and Dosta -g), and 2015 (400 m flight-line spacing; Kiss and Tschirhart, 2015). The Ward Inlet (north) map sheet is outlined



teeply west-dipping mafic metasedimentary rocks (unit PLHa) with dark-grey and rus s on Hall Peninsula, Baffin Island, Nunavut. Looking south, snow patch is about across. Photograph by C.G. Creason. 2015-028

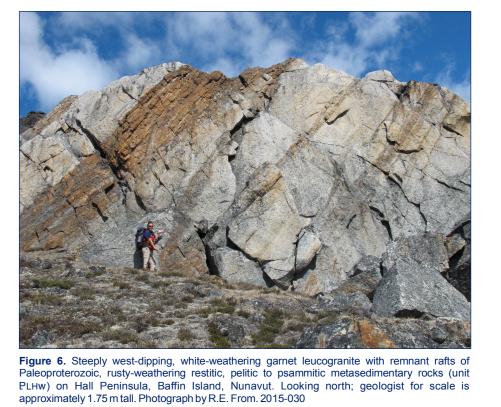




Figure 7. Example of medium-grained orthopyroxene-clinopyroxene-hornblende-biotite diorite phase of unit Pgo on western Hall Peninsula, Baffin Island, Nunavut. Photograph by M.D. Young.



Figure 8. Biotite-orthopyroxene monzogranite with relict K-feldspar porphyroclasts (unit Pmg) on western Hall Peninsula, Baffin Island, Nunavut. Photograph by B.J. Dyck. 2015-032

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