

Kitikmeot Region, Belcher Islands, Hall Peninsula, and Repulse Bay, Nunavut; in Summary of Activities 2014, Canada-Bigio, A., Budkewitsch, P., and Lentz, D., 2015. Location and characterization of pegmatites in the southern Baffin Island region, Nunavut: field and satellite observations; in Summary of Activities 2014, Canada-Nunavut Geoscience Office, p. Blackadar, R.G., 1967. Geological reconnaissance, southern Baffin Island, District of Franklin; Geological Survey of Braden, Z.M., 2013. Paleoproterozoic pressure-temperature-deformation path in the Newton Fiord region, eastern Baffin Island, Nunavut; B.Sc. thesis, Dalhousie University, Halifax, Nova Scotia, 95 p. Creason, C.G., 2015. Phanerozoic Exhumation History of Hall Peninsula, Baffin Island: Insights from Apatite and Zircon (U-Th-Sm)/He Thermochronology and 3D Thermokinematic Modeling; M.Sc. thesis, Dalhousie University, Nova Creason, C.G. and Gosse, J.C., 2014. Preliminary characterization of the Mesozoic-Cenozoic exhumation history of Hall Peninsula, Baffin Island, Nunavut, based on apatite and zircon (U-Th)/He thermochronology; in Summary of Activities 2013, Canada-Nunavut Geoscience Office, p. 93–100. Denyszyn, S.W., Halls, H.C., Davis, D.W., and Evans, D.A.D., 2009. Paleomagnetism and U-Pb geochronology of Franklin dykes in High Arctic Canada and Greenland: a revised age and paleomagnetic pole constraining block rotations in the Nares Strait region; Canadian Journal of Earth Science, v. 46, p. 689–705. Dumont, R. and Dostaler, F., 2010a. Geophysical Series, NTS 25-O/NE, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6419, scale 1:100 000. doi:10.4095/261663 Dumont, R. and Dostaler, F., 2010b. Geophysical Series, NTS 25-O/NW, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6420, scale 1:100 000. doi:10.4095/261664 Dumont, R. and Dostaler, F., 2010c. Geophysical Series, NTS 26A/SE, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6425, scale 1:100 000. doi:10.4095/261669 Dumont, R. and Dostaler, F., 2010d. Geophysical Series, NTS 26 A/SW, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6426, scale 1:100 000. doi:10.4095/26167 Dumont, R. and Dostaler, F., 2010e. Geophysical Series, NTS 26A/NW and part of 26 A/NE, Aeromagnetic Survey Hall Peninsula, Nunavut: Geological Survey of Canada, Open File 6427, scale 1:100 000, doi:10.4095/26167 Dumont, R. and Dostaler, F., 2010f. Geophysical Series, NTS 26 B/SE, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6428, scale 1:100 000. doi:10.4095/261672

Dumont, R. and Dostaler, F., 2010g. Geophysical Series, NTS 26 B/NE, Aeromagnetic Survey Hall Peninsula, Nunavut; Geological Survey of Canada, Open File 6429, scale 1:100 000. doi:10.4095/261673

Dyck, B.J. and St-Onge, M.R., 2014. Dehydration-melting reactions, leucogranite emplacement and the Paleoproterozoic structural evolution of Hall Peninsula, Baffin Island, Nunavut; in Summary of Activities 2013, Canada-Nunavut From, R.E., Camacho, A.L., and St-Onge, M.R., 2013. Preliminary observations on the nature and origin of the eastern orthogneiss complex of southern Hall Peninsula, Baffin Island, Nunavut; in Summary of Activities 2012, Canada-Nunavut Geoscience Office, p. 43–54. From, R.E., St-Onge, M.R., and Camacho, A.L., 2014. Preliminary characterization of the Archean orthogneiss complex of Hall Peninsula, Baffin Island, Nunavut; *in* Summary of Activities 2013, Canada-Nunavut Geoscience Office, p. 53–62. From, R.E., Rayner, N.M., and Camacho, A.L., 2015. Archean magmatism and metamorphism of eastern Hall Peninsula, southern Baffin Island, Nunavut; in Summary of Activities 2015, Canada-Nunavut Geoscience Office. p. 73–88. Geological Survey of Canada, 2015. Canada-200m-MAG-Residual Total Field; Canadian Aeromagnetic Data Base, Geological Survey of Canada, Natural Resources Canada, http://gdr.agg.nrcan.gc.ca. Heaman, L.M., LeCheminant, A.N., and Rainbird, R.H. 1992. Nature and timing of Franklin igneous events, Canada: implications for a Late Proterozoic mantle plume and the breakup of Laurentia; Earth and Planetary Science Letters, v. Hoffman, P.F. 1988. United Plates of America, the birth of a craton: Early Proterozoic assembly and growth of Laurentia: Annual Review of Earth and Planetary Sciences, v. 16, p. 543–603. Kiss, F. and Tschirhart, V., 2015. Residual Total Magnetic Field, Aeromagnetic Survey of the McKeand River Area, Part of NTS 26 B/North, Nunavut. Geological Survey of Canada Open File 7819, Canada-Nunavut Geoscience Office Open File Map 2015-05, scale 1:100 000. doi:10.4095/296382 Leblanc-Dumas, J., Allard, M., and Tremblay, T., 2013. Quaternary geology and permafrost characteristics in central Hall Peninsula, Baffin Island, Nunavut; *in* Summary of Activities 2012, Canada-Nunavut Geoscience Office, p. 101–106. Leblanc-Dumas, J., Allard, M., and Tremblay, T. 2015. Characteristics of a preglacial or interglacial regolith preserved under nonerosive ice during the last glacial maximum in central Hall Peninsula, southern Baffin Island, Nunavut; in Summary of Activities 2014, Canada-Nunavut Geoscience Office, p. 69–78. Lesher, C.M., 2007. Ni-Cu-(PGE) deposits in the Raglan area, Cape Smith Belt, New Quebec; in Mineral Deposits of Canada: a Synthesis of Major Deposit Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods, W.D. Goodfellow (ed.), Geological Association of Canada, Special Publication, v. 5, p. 351–386. Lewry, J.F. and Collerson, K.D., 1990. The Trans-Hudson Orogen; extent, subdivisions, and problems; in The Early Proterozoic Trans-Hudson Orogen of North America, J.F. Lewry and M.R. Stauffer; Geological Association of Canada, MacKay, C., 2014. Geology of the Qaqqanituaq Area and mafic and ultramafic geochemistry of the Hall Peninsula, Baffin Island, Nunavut; M.Sc. thesis, University of Saskatchewan, Saskatoon, Saskatchewan, 171 p. MacKay, C.B. and Ansdell, K.M., 2014. Geochemical study of mafic and ultramafic rocks from southern Hall Peninsula, Baffin Island, Nunavut; in Summary of Activities 2013, Canada-Nunavut Geoscience Office, p. 85–92. MacKay, C.B., Ansdell, K.M., St-Onge, M.R., Machado, G., and Bilodeau, C., 2013. Geological relationships in the Qaqqanittuaq area, southern Hall Peninsula, Baffin Island, Nunavut; in Summary of Activities 2012, Canada-Nunavut Geoscience Office, p. 55–64. Machado, G., Bilodeau, C., and St-Onge, M.R., 2013a. Geology, southern part of Hall Peninsula, south Baffin Island, Nunavut; Geological Survey of Canada, Canadian Geoscience Map 135 (preliminary); Canada-Nunavut Geoscience Office, Open File Map 2013-1, scale 1:250 000. doi:10.4095/292443 Machado, G., Bilodeau, C., Takpanie, R., St-Onge, M.R., Rayner, N.M., Skipton, D.R., From, R.E., MacKay, C.B., Creason, C.G., and Braden, Z.M., 2013b. Hall Peninsula regional bedrock mapping, Baffin Island, Nunavut: summary of fieldwork; in Summary of Activities 2012. Canada-Nunavut Geoscience Office. p. 13-Nichols, K.M.A., 2014. Diamond sources beneath the Hall Peninsula, Baffin Island, Nunavut: A preliminary assessment bade on Chidliak diamonds. M.Sc. thesis, University of Alberta, Edmonton, Alberta, 161 p. Nichols, K.M.A., Stachel, T., Pell, J.A., and Mate, D.J., 2013. Diamond sources beneath the Hall Peninsula, Baffin Island. Nunavut: preliminary assessment based on microdiamonds; in Summary of Activities 2012, Canada-Nunavut Pell, J. and Neilson, S., 2010. 2009 assessment report on till sample and geochemistry, airborne geophysics, and diamond drilling on the Chidliak Project, Baffin Region, Nunavut. Aboriginal Affairs and Northern Development Canada, Nunavut Mining Recorder's Office, Iqaluit, Assessment Report 085552. Pell, J. and Neilson, S., 2011. Assessment report on till sample and geochemistry, airborne geophysics, and diamond drilling on the Chidliak Project in 2010 and 2011, Baffin Region, Nunavut. Aboriginal Affairs and Northern Development Canada, Nunavut Mining Recorder's Office, Iqaluit, Assessment Report 085721. Pell, J., Grütter, H., Neilson, S., Lockhart, G., Dempsey, S., and Grenon, H., 2013. Exploration and discovery of the Chidliak kimberlite province, Baffin Island, Nunavut: Canada's newest diamond district; in Proceedings of 10th International mberlite Conference, D.G. Pearson (ed.), Geological Society of India, Special Issue, v. 2, p. 209–227. doi: Pilkington, M. and Oneschuk, D., 2007. Aeromagnetic and gravity; in Digital Geoscience Atlas of Baffin Island (south of 70°N and east of 80°W), Nunavut, Geological Survey of Canada, Open File 5116 Rayner, N.M., 2014. New U-Pb geochronological results from Hall Peninsula, Baffin Island, Nunavut; in Summary of Activities 2013, Canada-Nunavut Geoscience Office, p. 39–52. Nunavut; in Summary of Activities 2014, Canada-Nunavut Geoscience Office, p. 31–44. Sanborn-Barrie, M., St-Onge, M.R., and Young, M. 2008. Bedrock geology of southwestern Baffin Island: Expanding the tectonostratigraphic framework with relevance to base metal mineralization, Geological Survey of Canada Paper 2008-Sanford, B.V., 1987. Paleozoic geology of the Hudson Platform; in Sedimentary Basins and Basin-Forming Mechanisms, C. Beaumont and A.J. Tankard; Canadian Society of Petroleum Geologists, Memoir 12, p. 483–505. Scott, D.J., 1996. Geology of the Hall Peninsula east of Iqaluit, southern Baffin Island; in Current Research 1996-C, Geological Survey of Canada, p. 83–91. Scott, D.J., 1999. U-Pb geochronology of the eastern Hall Peninsula, southern Baffin Island, Canada: a northern link between the Archean of West Greenland and the Paleoproterozoic Torngat Orogen of northern Labrador; Precambrian Research, v. 93, p. 5–26. Scott, D.J., Stern, R.A., St-Onge, M.R., and McMullen, S.M., 2002. U-Pb geochronology of detrital zircons in metasedimentary rocks from southern Baffin Island: implications for the Paeoproterozoic tectonic evolution of Northeastern Laurentia; Canadian Journal of Earth Science, v. 39, p. 611–623. doi:10.1139/E01-093 Senkow, M.D., 2013. Characterization of ultramafic occurrences on southern Hall Peninsula, Baffin Island, Nunavut, and evaluation of their potential as a source of carving stone; in Summary of Activities 2012, Canada-Nunavut Geoscience Skipton, D.R. and St-Onge, M.R., 2014. Paleoproterozoic deformation and metamorphism in metasedimentary rocks west of Okalik Bay: a field template for the evolution of eastern Hall Peninsula, Baffin Island, Nunavut; in Summary of Skipton, D.R., Schneider, D. A., and St-Onge, M.R., 2013. Preliminary observations on Archean and Paleoproterozoic metamorphism and deformation of the southern Hall Peninsula, Baffin Island, Nunavut: in Summary of Activities 2012 Canada-Nunavut Geoscience Office, p. 29–42. Skipton, D.R., Schneider, D.A., Kellett, D., and Joyce, N., 2015. New insights on the cooling history of Hall Peninsula, southern Baffin Island, Nunavut, using ⁴⁰Ar/³⁹Ar thermochronology on muscovite; in Summary of Activities 2014, St-Onge, M.R. and Lucas, S.B. 1993. Controls on the regional distribution of iron-nickel-copper-platinum-group elemer sulfide mineralization in the eastern Cape Smith Belt, Quebec; Canadian Journal of Earth Sciences, v. 31, p. 206–218. St-Onge, M.R., Hanmer, S., and Scott, D.J., 1996. Geology of the Meta Incognita Peninsula, south Baffin Island: tectonostratigraphic units and regional correlations; in Geological Survey of Canada, Current Research 1996-C, p. St-Onge, M.R., Van Goole, J.A.M., Garde, A.A., and Scott, D.J., 2009. Correlation of Archaean and Palaeoproterozoic units between northeastern Canada and western Greenland: constraining the pre-collisional upper plate accretionary history of the Trans-Hudson Orogen; in Earth Accretionary Systems in Space and Time, P.A. Cawood and A. Kröner (ed.); The eological Society, London, Special Publications, v. 318, p. 193–235. St-Onge, M.R., Rayner, N.M., Steenkamp, H.M., and Skipton, D.R. 2015. Bedrock mapping of eastern Meta Incognita Peninsula, southern Baffin Island, Nunavut; in Summary of Activities 2014, Canada-Nunavut Geoscience Office, p. Steenkamp, H.M., 2014. Assay results from the 2012-2013 Hall Peninsula Integrated Geoscience Project; Canada-Nunavut Geoscience Office, Geoscience Data Series GDS2014-004, Microsoft® Excel® file. Steenkamp, H.M. and St-Onge, M.R., 2014. Overview of the 2013 regional bedrock mapping program on northern Hall

Ansdell, K.M., Hunchak, A., and Pell, J., 2015. Geology, geochemistry and geochronology of basement rocks around the Discovery camp, Chidliak diamond project, northern Hall Peninsula, southern Baffin Island, Nunavut; *in* Summary of

Beauregard, M.A. and Ell, J., 2015. Nunavut Carving Stone Deposit Evaluation Program: 2013 and 2014 fieldwork in the

Activities 2014, Canada-Nunavut Geoscience Office, p. 45–56.

Acknowledgments

The authors thank all those who participated in the Hall Peninsula Integrated Geoscience Program: G. Machado, C. Bilodeau, R. Takpanie and D.J. Mate, all formerly with the Canada-Nunavut Geoscience Office; N.M. Rayner from the Geological Survey of Canada; M. Senkow, P. Budkewitsch and A. Bigio from Aboriginal Affairs and Northern Development Canada; M. Beauregard from the Government of Nunavut, Department of Economic Development and Transportation; M.D. Young, C.G. Creason, Z.M. Braden and E.R. Bros from Dalhousie University; D.R. Skipton and K. Martin from the University of Ottawa; R.E. From of the University of Manitoba; C.B. MacKay from the University of Saskatchewan; B.J. Dyck from Oxford University; J. Leblanc-Dumas from Université Laval; and P. Peyton, C. Sudlovenick, R. Hinanik and K. Napayok from the Nunavut Arctic College.

A. Camacho (University of Manitoba), K. Ansdell (University of Saskatchewan), D. Schneider (University of Ottawa), and D. Lentz (University of New Brunswick) are thanked for the lively discussions in the field, and their scientific contributions. Expert air support was provided by Universal Helicopters and organized by the Polar Continental Shelf Program. Exceptional cook and first aid services were provided by 1984 Group of Companies with assistant cooks from the Nunavut Arctic College Camp Cook Program. Special thanks are given to the many locally owned and operated businesses in Iqaluit and Pangnirtung that provided logistics, grocery, and camp services and support. Peregrine Diamonds Ltd. is thanked for their co-operation in sharing logistics, camp facilities, and geology information that aided in making this map. Athorough and

Steenkamp, H.M., Bros, E.R., and St-Onge, M.R., 2014. Altered ultramafic and layered mafic-ultramafic intrusions: new

remblay, T., Leblanc-Dumas, J., Allard, M., Gosse, J.C., Creason, C.G., Peyton, P., Budkewitsch, P., and LeBlanc, A-M., 2013. Surficial geology of southern Hall Peninsula, Baffin Island, Nunavut: summary of the 2012 field season; *in*

emblay, T., Leblanc-Dumas, J., and Allard, M., 2014a. Surficial geology, Ward Inlet, Baffin Island, Nunavut, NTS 25-O; Geological Survey of Canada, Canadian Geoscience Map 205 (preliminary); Canada-Nunavut Geoscience Office,

remblay, T., Leblanc-Dumas, J., Allard, M., Ross, M., and Johnson, C., 2014b. Surficial geology of central Hall Peninsula,

remblay, T., Leblanc-Dumas, J., and Allard, M., 2015a. Geochemistry, mineralogy and sedimentology of surficial

sediments, Hall Peninsula, southern Baffin Island, Nunavut; in Summary of Activities 2014, Canada-Nunavut

nblay, T., Leblanc-Dumas, J., and Allard, M., 2015b. Surficial geology, Chidliak Bay, Baffin Island, Nunavut, NTS 26-B; Geological Survey of Canada, Canadian Geoscience Map 222 (preliminary); Canada-Nunavut Geoscience Office,

Zhang, S. and Pell, J., 2013. Study of sedimentary rock xenoliths from kimberlites on Hall Peninsula, Baffin Island, Nunavut;

Baffin Island, Nunavut: summary of the 2013 field season; in Summary of Activities 2013, Canada-Nunavut Geoscience

Canada-Nunavut Geoscience Office, p. 11–20.

Geoscience Office, p. 57–68.

File Map 2014-01, scale 1:125 000. doi:10.4095/295510

Open File Map 2015-01, scale 1:125 000. doi:10.4095/296407

in Summary of Activities 2012, Canada-Nunavut Geoscience Office, p. 107–112.

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

Recommended citation
Steenkamp, H.M., Gilbert, C., and St-Onge, M.R., 2016. Geology, Loks
Land, Baffin Island, Nunavut, NTS 25-I (part); Geological Survey of

Preliminary publications in this series have not been scientifically edited.

GEOLOGICAL SURVEY OF CANADA
CANADIAN GEOSCIENCE MAP 264
CANADA-NUNAVUT GEOSCIENCE OFFICE
OPEN FILE MAP 2016-01
GEOLOGY
LOKS LAND
Baffin Island, Nunavut
NTS 25-I (part)

Canada, Canadian Geoscience Map 264 (preliminary); Canada-Nunavut Geoscience Office, Open File Map 2016-01,

scale 1:100 000. doi:10.4095/297344