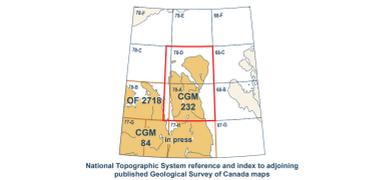


References and additional data from:
Cocking, R.B., Delbecq, C., Ken, D.E., Campbell, J.E., Eagen, S., Lewett, D., Huxley, D.H., Inglis, E., Lavietto, A., Parent, M., Plouffe, A., Robertson, L., St-Onge, D.A., and Watkinson, A., 2015. Surficial Data Model, version 2.1.0.
Hodgson, D.A., 1993. Surficial geology, Storöken Peninsula, Victoria Island and Stefansson Island, Northwest Territories. Geological Survey of Canada, Map 1817A, scale 1:250 000.
Hodgson, D.A., 1994. Episodic ice streams and ice shelves during retreat of the northwesternmost sector of the late Wisconsin Laurentide ice Sheet over the central Canadian Arctic Archipelago. Boreas, vol. 23, no. 1, p. 14-28.

Abstract
This new surficial geology map product represents the conversion of Map 1817A and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.1) which can be found in Open File 7741. All geoscientific knowledge and information from Map 1817A that pertained to the current SDM were maintained during the conversion process.
Résumé
Ce nouveau produit cartographique de la géologie des formations superficielles correspond à la conversion de la Carte 1817A et de sa légende, en se servant du Modèle de données pour les formations superficielles (MDFP version 2.1) de la Commission géologique du Canada, lequel peut être consulté dans le Dossier public 7741.



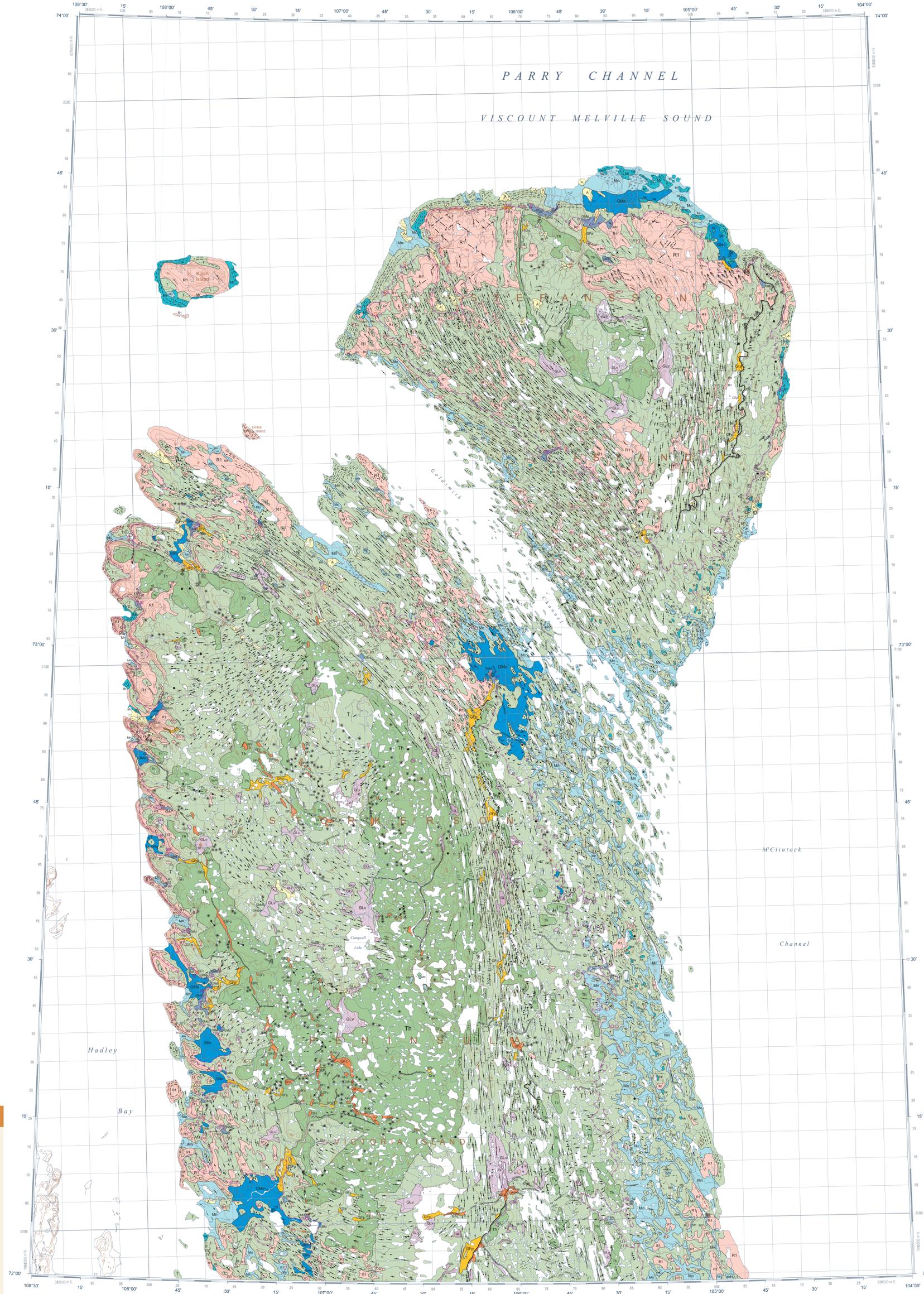
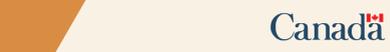
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CANADIAN GEOSCIENCE MAP 232
SURFICIAL GEOLOGY
STORKERSON PENINSULA, VICTORIA ISLAND, AND STEFANSSON ISLAND
Nunavut
NTS 78-A, D, and parts of 78-B, C
1:250 000



Preliminary
Geological Survey of Canada
Canadian Geoscience Maps



QUATERNARY
HOLOCENE
NONGLACIAL ENVIRONMENT
C Colluvial deposits, undifferentiated: silt to rubble diamict, 1 to 5 m thick, derived by mass wasting from upslope rock and soil, mapped by steep slopes where the material is mixed.
A Alluvial sediments, undifferentiated: gravel to silt; sand, 1 to 10 m thick, channel, terrace, fan, and deltaic sediments.
MARINE SEDIMENTS: silt to bouldery gravel shoreline, nearshore, and offshore sediments; left by the regressing sea.
M Beach sediments: gravel and silt; sand over silt (mainly east coast), rubble to silt; gravel over and adjacent to rock (mainly north coast); a few centimetres to several metres thick, occurring as single raised ridges to complexes of ridges, small beaches common on drumlinoid summits, single ridges and discontinuous ridges shown by hachures.
Mn Nearshore sediments: stony sandy silt, reworked till; a few centimetres to 2 m thick, poorly drained, especially between drumlinoids; in places reworked into low amplitude beaches, shown by hachures, relict environment.
EARLY HOLOCENE AND LATE PLEISTOCENE (LATE WISCONSINAN)
PROGLACIAL AND GLACIAL ENVIRONMENTS
GMa1 Glaciomarine detritic sediments: fine gravel or sand (1-2 m thick) over massive to stratified sand or silt; very fossiliferous, up to 20 m thick, deposited at distal end of valley train in marine environment at limit of postglacial inundation.
GMa2 Glaciomarine offshore sediments: emerged silt or fine sand, with scattered drusestones, in massive to finely laminated deposits, 1 to 20 m thick, commonly gullied; deposited distal to major glacial meltwater outlets.
GLV Glaciolacustrine veneer: silt or fine sand; less than 1 m thick; deposited in a proglacial basin or ice-dammed valley.
GL Glaciolacustrine sediments, undifferentiated: silt or fine sand; 1 to 3 (7) m thick, deposited in a proglacial basin or ice-dammed valley.
GLACIOLACUSTRINE SEDIMENTS: sand, silt, and minor gravel from subglacial, englacial or supraglacial fluvial deposits and proglacial valley train deposits.
CFp Outwash plain sediments: sand, silt, or bouldery gravel, 1 to greater than 10 m thick, in plains, terraces, or fans; proglacial in fluvial or possibly subaqueous environment.
CFc Ice-contact sediments: bouldery gravel, sand, or silt; 2 to 50 m thick, in esker and kame ridges, knolls, or fan-topped complexes, from subglacial or englacial environment.
Th Hummocky till: granule to boulder size clasts, dominantly of carbonate rock in a matrix of greater than 50% dark greyish brown, highly calcareous loam or silt; loam, unsorted, undifferentiated, thickness 1 to greater than 50 m; till plan and veneer initially deposited by continental ice, bearing sherd cratic, includes siltstone clasts and drumlinoids commonly 5 to 10 m thick, local interdrumlinoid rock and rubble, local northwestern and westward drumlinoid ridges crosscut other orientated features that may be largely modified, till below marine limit commonly reworked leaving local concentrations of boulders, gravel, sand, or silt, and subdued or erased glacial landforms.
T Till, undifferentiated: granule to boulder size clasts, dominantly of carbonate rock in a matrix of greater than 50% dark greyish brown, highly calcareous loam or silt; loam, unsorted, undifferentiated, thickness 1 to greater than 50 m; till plan and veneer initially deposited by continental ice, bearing sherd cratic, includes siltstone clasts and drumlinoids commonly 5 to 10 m thick, local interdrumlinoid rock and rubble, local northwestern and westward drumlinoid ridges crosscut other orientated features that may be largely modified, till below marine limit commonly reworked leaving local concentrations of boulders, gravel, sand, or silt, and subdued or erased glacial landforms.
PRE-QUATERNARY
R1 Sedimentary bedrock: Palaeozoic dolomite, minor limestone chert and shale, subhorizontal, except folds on northeastern Stefansson Island; rock fractured to blocks or disaggregated to pitted rubble by glacial and subaerial processes, except for polished initial bedrock locally exposed where streamlined till cover has been recently removed; rubble worked into discontinuous benches locally below marine limit.
Reworked sediments, by meltwater
Geological contact, defined
Beach crest
Marine limit of submergence (elevation in metres):
Approximate
Defined
Glaciolacustrine limit of submergence, defined
Iceberg scour
Meltwater channel
Minor, col. direction unknown
Minor, proglacial, direction known
Minor (lateral/uphill left)
Minor (lateral/uphill right)
Minor moraine ridge, transverse, may include crevasse fillings
End moraine, major
Ice thrust ridge
Esker:
Direction unknown
Direction known
Drumlinoid:
Large
Small (1 = older, 2 = younger)
Crag-and-tail (1 = older, 2 = younger)
Fluted bedrock, ice flow direction known
Limit of glaciation from readance:
Approximate
Defined
Lineament in bedrock
Patterned ground
Pingo
Dune crest, blowout, sense known
Delta, paleocurrent unknown
Kame, gravel knoll and/or pressed till knob
Glacial station:
Ice flow direction unknown
Ice flow direction known
Fossil observation
Station location, ground observation
Dated sample location (radiocarbon date) (see Table 1)
Sample location

Table 1. Radiocarbon ages.
Table with columns: Sample ID, Sample, Location, Elevation (m a.s.l.), Material, Radiocarbon Age (BP), and Reference.
Sample ID: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
Sample: GSC-488, GSC-489, GSC-490, GSC-491, GSC-492, GSC-493, GSC-494, GSC-495, GSC-496, GSC-497, GSC-498, GSC-499, GSC-500, GSC-501, GSC-502, GSC-503, GSC-504, GSC-505, GSC-506, GSC-507, GSC-508, GSC-509, GSC-510, GSC-511, GSC-512, GSC-513, GSC-514, GSC-515, GSC-516, GSC-517, GSC-518, GSC-519, GSC-520, GSC-521, GSC-522, GSC-523, GSC-524, GSC-525, GSC-526, GSC-527, GSC-528, GSC-529, GSC-530, GSC-531, GSC-532, GSC-533, GSC-534, GSC-535, GSC-536, GSC-537, GSC-538, GSC-539, GSC-540, GSC-541, GSC-542, GSC-543, GSC-544, GSC-545, GSC-546, GSC-547, GSC-548, GSC-549, GSC-550, GSC-551, GSC-552, GSC-553, GSC-554, GSC-555, GSC-556, GSC-557, GSC-558, GSC-559, GSC-560, GSC-561, GSC-562, GSC-563, GSC-564, GSC-565, GSC-566, GSC-567, GSC-568, GSC-569, GSC-570, GSC-571, GSC-572, GSC-573, GSC-574, GSC-575, GSC-576, GSC-577, GSC-578, GSC-579, GSC-580, GSC-581, GSC-582, GSC-583, GSC-584, GSC-585, GSC-586, GSC-587, GSC-588, GSC-589, GSC-590, GSC-591, GSC-592, GSC-593, GSC-594, GSC-595, GSC-596, GSC-597, GSC-598, GSC-599, GSC-600.
Location: Gullfjella, Kilian Island, M'Clintock Channel, etc.
Elevation (m a.s.l.): 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000.
Material: silt, sand, gravel, etc.
Radiocarbon Age (BP): 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000.
Reference: GSC, etc.

Preliminary CANADIAN GEOSCIENCE MAP 232 Preliminary Preliminary

Author: Geological Survey of Canada
Geology based on airphoto interpretation and field observations by D.A. Hodgson, 1986.
Geology conforms to Surficial Data Model v. 2.1
Data conversion by D.E. Ken, 2015.
Geomatics by S. Eagles
Cartography by D. Viner
Initiative of the Geological Survey of Canada, conducted under the auspices of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program.
Map projection Universal Transverse Mercator, zone 13, North American Datum 1983

SURFICIAL GEOLOGY
STORKERSON PENINSULA, VICTORIA ISLAND, AND STEFANSSON ISLAND
Nunavut
NTS 78-A, D, and parts of 78-B, C
1:250 000
Scale bar: 0, 5, 10, 15, 20 km

Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications.
Elevations in metres above mean sea level.
Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area.
Mean magnetic declination 2016, 4°39'E, decreasing 30.5' annually. Readings vary from 1°57'W in the NE corner to 9°46'E in the SW corner of the map.
This map is not to be used for navigational purposes.
The Geological Survey of Canada welcomes corrections or additional information from users.
Data may include additional observations not portrayed on this map. See map info document accompanying the downloaded data for more information about the publication.
This publication is available for free download through GEOSCAN (http://geoscan.mcg.ca/)

Preliminary publications in this series have not been scientifically edited.

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