

PUBLICATIONS

MANITOBA GEOLOGICAL SURVEY PUBLICATIONS
RELEASED DECEMBER 2018 TO NOVEMBER 2019

Databases

Lynn Lake Bedrock Compilation Map Database

Manitoba Kimberlite-indicator Mineral Database (Version 3.2)

by G.R. Keller

Data Repository Items

DRI2019001

Lithochemical, assay and U-Pb geochronological data for the Southern Indian domain, north-central Manitoba (parts of NTS 64G1, 2, 7–10, 64H3–6)

by T. Martins, D. Corrigan and N. Rayner

Microsoft® Excel® file supplements:

Martins, T., Kremer, P.D., Corrigan, D. and Rayner, N. 2019: Geology of the Southern Indian Lake area, north-central Manitoba (parts of NTS 64G1, 2, 7–10, 64H3–6); Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Geoscientific Report GR2019-1, 51 p. and 4 colour maps at 1:50 000 scale.

DRI2019002

Till-matrix geochemistry data from the Pilot Mound and Morden areas, southwest Manitoba

by T.J. Hodder and M.S. Gauthier

DRI2019003

Laser-ablation inductively coupled plasma–mass spectrometry (LA-ICP-MS) analyses of columbite grains from Li-bearing pegmatites, Wekusko Lake pegmatite field (northeastern block), central Manitoba (part of NTS 63J13)

by T. Martins, D. Benn and C.R.M. McFarlane

DRI2019004

Compilation of assays, major- and trace-element whole-rock geochemical analyses of outcrop and drillcore rock samples from the Snow Lake–Squall Lake–Herblet Lake area, west-central Manitoba (part of NTS 63K16, 63J13)

by S. Gagné and C.J. Beaumont-Smith

Microsoft® Excel® file supplements:

Gagné, S. and Beaumont-Smith, C.J. 2010: Geology of the Snow Lake–Squall Lake–Herblet Lake area, Manitoba (parts of NTS 63K16, 63J13); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2010-3, scale 1:20 000.

and

Bailes, A.H., Schledewitz, D.C.P. and Gagné, S. 2011: Updated geology of the Squall–Varnson lakes area, west-central Manitoba (part of NTS 63K16); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2011-2, scale 1:20 000.

DRI2019005

Field-based ice-flow–indicator data, Russell–McCallum lakes area, northwestern Manitoba (parts of NTS 64C3–6)

by T.J. Hodder

Microsoft® Excel® file supplements:

Hodder, T.J. 2019: Till sampling and ice-flow mapping in the Russell–McCallum lakes area, northwestern Manitoba (parts of NTS 64C3–6); *in* Report of Activities 2019, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 90–96.

DRI2019006

Lithostratigraphy and brief lithological descriptions of logged Phanerozoic core, southwestern and central Manitoba (parts of NTS 63C3, 14, 63J5, 6, 11, 12, 14)

by K. Lapenskie

Microsoft® Excel® file supplements:

Lapenskie, K. 2019: Summary of Phanerozoic core logging activities in Manitoba in 2019 (parts of NTS 63C3, 14, 63J5, 6, 11, 12, 14); *in* Report of Activities 2019, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 77–82.

Geoscientific Maps

MAP2019-1

Geology of the southern Granville Lake area, Manitoba (parts of NTS 64C1, 2, 7)

by H.V. Zwanzig (scale 1:20 000)

MAP2019-2

Geology of the Notigi–Footprint lakes area, Manitoba (parts of NTS 63O10, 11, 14, 15)

by L.A. Murphy and H.V. Zwanzig (scale 1:50 000)

MAP2019-3

Geology and structure of the Notigi Lake area, Manitoba (parts of NTS 63O14, 64B3)

by L.A. Murphy and H.V. Zwanzig (scale 1:25 000)

MAP2019-4

Geology of the Kawawayak Lake area, Manitoba (part of NTS 63O15)

by L.A. Murphy and H.V. Zwanzig (scale 1:10 000)

MAP2019-5

Geology of the Wuskwatim–Threepoint lakes area, Manitoba (parts of NTS 63O10, 11)

by H.V. Zwanzig, L.A. Percival, L.A. Murphy and M.L. Growdon (scale 1:50 000)

MAP2019-6

Notigi–Tullibee lakes aeromagnetic map: residual total field with shaded relief

by L.A. Murphy and H.V. Zwanzig (scale 1:135 000)

Geoscientific Papers

GP2019-1

Till composition, stratigraphy, ice-flow indicator data and glacial history of the North Knife River–Churchill River region, Manitoba (parts of NTS 54L, 64I)

by M.S. Gauthier

Geoscientific Reports

GR2019-1

Geology of the Southern Indian Lake area, north-central Manitoba (parts of NTS 64G1, 2, 7–10, 64H3–6)

by T. Martins, P.D. Kremer, D. Corrigan and N. Rayner

Open Files

OF2019-1

Till composition of the Arden area, southwest Manitoba (NTS 62J6)

by T.J. Hodder and M.S. Gauthier

OF2019-2

Field Trip Guidebook: Stratigraphy and ore deposits in the Thompson nickel belt, Manitoba

by C.G. Couëslan

Preliminary Maps

PMAP2019-1

Bedrock geology of the Knight Lake area, Manitoba (parts of NTS 53E11, 12, 13, 14)

by M.L. Rinne (scale 1:20 000)

PMAP2019-2

Bedrock geology of the Gemmell Lake area, Lynn Lake greenstone belt, northwestern Manitoba (parts of NTS 64C11, 14)

by X.M. Yang (scale 1:20 000)

PMAP2019-3

Bedrock geology of Russell Lake, southern half (NTS 64C3–6)

by T. Martins and C.G. Couëslan (scale 1:20 000)

PMAP2019-4

Preliminary geology of the Puella Bay area, Wekusko Lake, north-central Manitoba (NTS 63J12)

by K.D. Reid (scale 1:15 000)

EXTERNAL PUBLICATIONS

- Benn, D., Brenan, J.M., Fuller, K., Grondahl, C., Layton-Matthews, D., Leybourne, M.I., Linnen, R., Martins, T., Milidragovic, D., Moynihan, D.P., Mungall, J.E., Nixon, G.T., Padget, C.D.W., Pattison, D.R.M., Rempel, K.U., Scanlan, E.J., Scoates, J.S., Tsay, A., Voinot, A., Van Wagoner, N.A., Weston, R., Williams-Jones, A.E., Woods, K., Zajacz, Z. 2019: Targeted Geoscience Initiative 5, Grant Program interim reports 2018-2019; Geological Survey of Canada, Open File 8620, 80 p., URL <<https://doi.org/10.4095/314997>> [October 2019].
- Benn, D., Linnen, R. and Martins, T. 2019: Evaluating portable Raman spectrometers for use in exploration of pegmatite dikes, Wekusko Lake, Manitoba; *The Canadian Mineralogist*, v. 57, no. 5, p. 711–713.
- Böhm, C.O., Hartlaub, R.P., Heaman, L.M., Cates, N., Guitreau, M., Bourdon, B., Roth, A.S.G., Mozsis, S.J. and Blichert-Toft, J. 2018: The Assean Lake Complex: ancient crust at the northwestern margin of the Superior Craton, Manitoba, Canada; *in Earth's Oldest Rocks* (second edition), M.J. Van Kranendonk, V.C. Bennett and J.E. Hoffmann (ed.), chap. 28, p. 703–722.
- Chow, N., Bates, K.B., Eggie, L.A. and Nicolas, M.P.B. 2019: Sedimentology and petroleum evaluation of the Upper Devonian Duperow Formation, southwestern Manitoba (abstract); Canadian Society of Petroleum Geologist Core Conference 2019; May 16–17, 2019, Calgary, Alberta, CSPG Core Conference Abstracts, p. 105–109.
- Lawley, C.J.M., Davis, W.J., Jackson, S.E., Petts, D.C., Yang, E., Zhang, S., Selby, D., O'Connor, A.R. and Schneider, D.A. 2019: Paleoproterozoic gold and its tectonic triggers and traps; *in Targeted Geoscience Initiative: 2018 report of activities*, N. Rogers (ed.), Geological Survey of Canada, Open File 8549, p. 71–75, URL <<https://doi.org/10.4095/313641>> [October 2019].
- Sotiriou, P., Polat, A., Frei, R., Yang, X.M. and van Vesse, J. 2019: A back-arc origin for the Neoarchean megacrystic anorthosite-bearing Bird River Sill and the associated greenstone belt, Bird River subprovince, Western Superior Province, Manitoba, Canada; *International Journal of Earth Sciences*, v. 108, no. 7, p. 2177–2207, URL <<https://doi.org/10.1007/s00531-019-01756-0>> [October 2019].
- Yang, X.M. 2019: Using rare earth elements (REE) to decipher the origin of ore fluids associated with Granite Intrusions; *Minerals*, v. 9, no. 7, p. 426, URL <<https://doi.org/10.3390/min9070426>> [October 2019].