

# **PUBLICATIONS**

**MANITOBA GEOLOGICAL SURVEY PUBLICATIONS**  
**RELEASED DECEMBER 2013 TO NOVEMBER 2014**

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## **Data Repository Items**

DRI2014001

Whole-rock geochemical data from pegmatites at South Bay, Southern Indian Lake and Partridge Breast Lake, and fluorine granite at Thorsteinson Lake, Manitoba (parts of NTS 64G3–6, 8, 9, 64B11)

by T. Martins

*Microsoft® Excel® file supplements:*

*Martins, T. and Kremer, P.D. 2013: Rare-metals scoping study of the Trans-Hudson orogen, Manitoba (parts of NTS 64G3–6, 8, 9, 64B11); in Report of Activities 2013, Manitoba Mineral Resources, Manitoba Geological Survey, p. 114–122.*

DRI2014002

Rock-Eval 6 results from two Paleozoic core from the Hudson Bay Lowland, northeastern Manitoba (NTS 54B10, 54F8)

by M.P.B. Nicolas

*Microsoft® Excel® file supplements:*

*Nicolas, M.P.B., Lavoie, D. and Harrison, J. 2014: Introduction to the GEM-2 Hudson–Ungava Project, Hudson Bay Lowland, northeastern Manitoba; in Report of Activities 2014, Manitoba Mineral Resources, Manitoba Geological Survey, p. 140–147.*

DRI2014003

Field-based ice-flow indicator data, Gillam to Gull Lake, north-central Manitoba (NTS 54D5, 6, 7)

by M.S. Trommelen

*Microsoft® Excel® file supplements:*

*Trommelen, M.S., Wang, Y. and Ross, M. 2014: Preliminary Quaternary geology in the Gillam area, northeastern Manitoba (parts of NTS 54D5–11, 54C12) – Year Two; in Report of Activities 2014, Manitoba Mineral Resources, Manitoba Geological Survey, p. 187–195.*

DRI2014004

Electron-probe microanalyses of samples of the Gammon Ferruginous Member of the Upper Cretaceous Pierre Shale from Spencer's ditch, southwestern Manitoba

by T. Martins, J.D. Bamburak, X.M. Yang and M.P.B. Nicolas

*Microsoft® Excel® file supplements:*

*Bamburak, J.D., Martins, T., Nicolas, M.P.B. and Yang, X.M. 2014: Update on the rare-earth element potential of the Gammon Ferruginous Member of the Upper Cretaceous Pierre Shale in southwestern Manitoba; in Report of Activities 2014, Manitoba Mineral Resources, Manitoba Geological Survey, p. 172–180.*

## **Geoscientific Maps**

MAP2013-1

Surficial geology of the Thuykay Lake area, Manitoba (parts of NTS 64I14, 15, 64P2, 3, 6, 7)

by M.S. Trommelen

MAP2013-2

Surficial geology of the Kuytoocho Lake area, Manitoba (parts of NTS 64I10, 11, 14, 15)

by M.S. Trommelen

MAP2013-3  
Surficial geology of the Dechanhooledzey River area, Manitoba (parts of NTS 64I9, 10, 15, 16)  
by M.S. Trommelen

MAP2013-4  
Surficial geology of the Pady Lake area, Manitoba (parts of NTS 54L12, 13, 64I9, 16)  
by M.S. Trommelen

MAP2013-5  
Surficial geology of the Schoenthaler Lake area, Manitoba (parts of NTS 54L13, 54M4, 5)  
by M.S. Trommelen

MAP2013-6  
Surficial geology of the Makakaysip Lake area, Manitoba (NTS 53M1)  
by M.S. Trommelen

MAP2013-7  
Surficial geology of the Mines Point area, Manitoba (NTS 53M2)  
by M.S. Trommelen

MAP2013-8  
Surficial geology of the Oxford House area, Manitoba (NTS 53L14)  
by M.S. Trommelen

MAP2013-9  
Surficial geology of the Knee Lake area, Manitoba (NTS 53L15)  
by M.S. Trommelen

## Open Files

OF2011-3  
Regional hydrogeological characterization of the northeastern margin of the Williston Basin  
(Joint publication also released as Saskatchewan Ministry of the Economy, Saskatchewan Geological Survey, Open File 2010-45)  
by B. Palombi and B.J. Rostron  
(Set of 55, 1:3 000 000-scale maps available for download from the 'Williston Basin TGI' web site at <http://www.manitoba.ca/iem/geo/willistontgi/hydrogeo.html>)

OF2013-10  
Digital compilation of surficial point and line features for Manitoba north of 54°: datasets  
by M.S. Trommelen, G.R. Keller and B.K. Lenton  
(Report available for download from the Manitoba Geological Survey's 'Digital compilation of surficial point and line features for Manitoba north of 54°' web page at <http://www.gov.mb.ca/iem/geo/surficial/digitalcompilation.html>)

## Preliminary Maps

PMAP2014-1  
Bedrock geology of the Armstrong Lake area, central Manitoba (parts of NTS 63P10, 11)  
by C.G. Couëslan  
scale 1:20 000

PMAP2014-2

Bedrock geology of the Partridge Crop Lake area, central Manitoba (parts of NTS 63P11, 12)

by C.G. Couëslan

scale 1:20 000

PMAP2014-3

Bedrock geology of the Cat Creek area, Bird River greenstone belt, southeastern Manitoba (part of NTS 52L12)

by X.M. Yang

scale 1:10 000

PMAP2014-4

Geology of the Bidou assemblage in the vicinity of the southeastern margin of the Ross River pluton, Rice Lake belt, southeastern Manitoba (part of NTS 52L14)

by X. Zhou

scale 1:10 000

PMAP2014-5

Bedrock geology west of Reed Lake, Flin Flon greenstone belt, Manitoba (part of 63K10)

by S. Gagné and S.D. Anderson

scale 1:20 000

PMAP2014-6

Geology of the Northern Indian Lake area, Manitoba (parts of NTS 64H3, 5, 6)

by P.D. Kremer and T. Martins

scale 1:50 000

## EXTERNAL PUBLICATIONS

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- Bancroft, B., Craven, J.A., Enkin, R.J., Nicolas, M.P.B. and Roberts, B. 2014: Results from a magnetotelluric and rock property study near Churchill, Manitoba; Geological Survey of Canada, Open File 7549, 21 p. URL <[ftp://ftp2.cits.mcan.gc.ca/pub/geott/ess\\_pubs/293/293454/of\\_7549.pdf](http://ftp2.cits.mcan.gc.ca/pub/geott/ess_pubs/293/293454/of_7549.pdf)> [October 2014]
- Chow, N., Bates, K.B., Eggie, L.A., McDonald D.M. and Nicolas, M.P.B. 2014: Sedimentological controls on prospective conventional and unconventional resource plays: Case studies from the Devonian of the Western Canada Sedimentary Basin (abstract); 19<sup>th</sup> International Sedimentological Congress, Geneva, August 18–22, 2014.
- Chow, N., Bates, K.B., Eggie, L.A., McDonald D.M. and Nicolas, M.P.B. 2014: Sedimentological controls on the resource potential of the Devonian Winnipegosis and Duperow formations in Manitoba (abstract); American Association of Petroleum Geologists–Eastern Section Meeting, London, Ontario, September 27–October 1, 2014.
- Couëslan, C.G. 2014: Sm–Nd and U–Pb geochronological evidence for a newly identified metasedimentary sequence in the Thompson Nickel Belt, Manitoba: The “missing” cratonic margin rift sequence?; Geological Association of Canada–Mineralogical Association of Canada, Joint Annual Meeting, Fredericton, New Brunswick, May 21–23, 2014, Program with Abstracts, p. 64.
- Lavoie, D., Pinet, N., Deitrich, J., Zhang, S., Hu, K., Asselin, E., Chen, Z., Bertrand, R., Galloway, J., Decker, V., Budkevitch, P., Armstrong, D., Nicolas, M., Reyes, J., Kohn, B.P., Duchesne, M.J., Brake, V., Keating, P., Craven, J. and Roberts, B. 2013: Geological framework, basin evolution, hydrocarbon system data and conceptual hydrocarbon plays for the Hudson Bay and Foxe basins, Canadian Arctic; Geological Survey of Canada, Open File 7363, 210 p. URL <[http://ftp2.cits.mcan.gc.ca/pub/geott/ess\\_pubs/293/293119/of\\_7363.pdf](http://ftp2.cits.mcan.gc.ca/pub/geott/ess_pubs/293/293119/of_7363.pdf)> [October 2014]
- Lima, A., Martins, T., Vieira, R. and Noronha, F. 2014: Jazigos de metais críticos (W, Li) relacionados com Granitos Variscos (O exemplo das regiões de Montalegre e Boticas) [Mineral deposits of critical metals (W, Li) related with the Variscan granites (Examples from the Montalegre and Boticas regions)]; Universidade do Porto-Faculdade de Ciências, Departamento de Geologia, Memórias nº 20 - Saídas de Campo, p. 23–32. (in Portuguese)
- Martins, T. 2014: Columbite group minerals from the South Bay pegmatites, Manitoba, Canada; Geological Society of America, Abstracts with Programs, v. 46, no. 6, p. 695.
- Martins, T., Chakhmouradian, A.R. and Medici, L. 2014: Kassite and its relation to perovskite alteration in silica-undersaturated environments; Physics and Chemistry of Minerals, v. 41, p. 473–484.
- Parks, J., Lin, S., Davis, D.W., Yang, X.M., Creaser, R.A. and Corkery, M.T. 2014: Meso- and Neoproterozoic evolution of the Island Lake greenstone belt and the northwestern Superior Province: Evidence from lithogeochemistry, Nd isotope data, and U–Pb zircon geochronology; Precambrian Research, v. 246, p. 160–179.
- Trommelen, M.S., Ross, M. and Ismail, A. 2014: Ribbed moraines in northern Manitoba, Canada: characteristics and preservation as part of a subglacial deformation mosaic near the core regions of ice sheets; Quaternary Science Reviews, v. 87, p. 135–155.
- Yang, X.M. and Gilbert, H.P. 2014: Archean tonalite-trondhjemite-granodiorite (TTG) suite in the Bird River greenstone belt, southeastern Manitoba: lithogeochemical characteristics, geodynamic evolution, and potential for porphyry Cu–(Au) mineralization; Geological Association of Canada–Mineralogical Association of Canada, Joint Annual Meeting, Fredericton, New Brunswick, May 21–23, 2014, Program with Abstracts, p. 294.