

PUBLICATIONS

PRELIMINARY MAPS

Manitoba Geological Survey

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| 2001F-1 | Geology of the Millrock Hill area, Flin Flon (parts of NTS 63K/13SW, /12NW) by H.L. Gibson, A.H. Bailes, G. Tourigny and E.C. Syme..... | 1:500 |
| 2001F-2 | Geology of the South Main shaft area, Flin Flon (part of NTS 63K/13SW) by A.H. Bailes, D. Bray and E.C. Syme..... | 1:500 |
| 2001F-3 | Geology of the Wabishkok Lake area (parts of NTS 63K/13NE, /14NW) by H.P. Gilbert..... | 1:20 000 |
| 2001S-1 | Geology of the Fox River sill in the Great Falls area, Fox River belt, northeastern Manitoba (part of NTS 53M/16) by G. Desharnais, D.C. Peck, L. Potter, M. Huminicki, R.F.J. Scoates, P. Theyer, C. Wegleitner, G. Kohut, P. Smerchanski, D. Benson, C. Petch and G. DeSchutter..... | 1:2500 |
| 2001S-2 | Geology of the Pipestone Lake area (parts of NTS 63I/5, /12) by A.C. Parmenter, S. Lin and M.T. Corkery..... | 1:20 000 |

**PUBLICATIONS RELEASED
NOVEMBER 2000 - NOVEMBER 2001**

Manitoba Geological Survey Reports and Maps

Open File Reports

OF99-16

Multimedia geochemical signatures of a REE-enriched britholite-allanite zone in the Eden Lake aegirine-augite syenite, Lynn Lake area, northwestern Manitoba (NTS 64C/9) / Fedikow, M.A.F. and Ziehlke, D.V.

OF2000-1

Manitoba radiocarbon dates / Morlan, R.E., McNeely, R., and Nielsen, E.

OF2000-4

Geochemical flux in black spruce (*Picea mariana*) crowns and the correlation with root water uptake: effects of sample site drainage and tree and crown morphology on crown twig and outer bark metal concentrations / Sailerova, E.

OF2001-4

Operation Superior: compilation of kimberlite indicator mineral survey results (1996-2000) / Fedikow, M.A.F., Nielsen, E., Conley, G.G. and Lenton, P.G.

OF2001-5

Operation Superior: kimberlite indicator mineral survey results (2000) for the northern half of the Knee Lake greenstone belt, Manitoba (NTS 53M) / Fedikow, M.A.F., Nielsen, E., Conley, G.G. and Lenton, P.G.

OF2001-6 (CD-ROM)

Geochemistry and tectonic setting of volcanic and intrusive rocks in the VMS-hosting Snow Lake arc assemblage, Flin Flon Belt, Manitoba: a preliminary release of the geochemical data set / Bailes, A. H. and Galley, A.G.

Economic Geology Reports

ER2000-1 (CD-ROM)

Digital map and database of magmatic Ni-Cu ± PGE occurrences and mafic-ultramafic bodies in Manitoba / Hulbert, L. and Scoates, J. (*Published in collaboration with the Geological Survey of Canada*)

Mineral Deposit Series

MDS No. 32

Mineral deposits and occurrences in the Island Lake area, NTS 53E/15, /16, 53F/13, and parts of 53E/9, /10 and 53F/12 / Theyer, P.

Bedrock Geology Compilation Map Series

NTS 64N

Kasmere Lake, scale 1:50 000.

Report of Activities 2000

Introductory summary / Syme, E.C., p. 1-8

Flin Flon – Snow Lake

Geochemistry and metal mobility during silicification of the 1.89 Ga Welch Lake primitive arc basalt, Snow Lake arc assemblage, Snow Lake / Surka, M. and Bailes, A.H., p. 9-11.

Activities of the Flin Flon regional office / Heine, T.H. and Prouse, D.E., p. 12.

Thompson Nickel Belt, Superior Boundary Zone, Fox River Belt

Thompson Nickel Belt project: progress on a new compilation map of the Thompson Nickel Belt (parts of NTS 63F, 63G, 63J, 63O and 63P) / Macek, J.J., McGregor, C.R. and Zwanzig, H.V., p. 13-15.

Thompson Nickel Belt Project: petrographic and chemical characterization of major rock types (parts of NTS 63J, 63O and 63P) / McGregor, C.R., p. 16-17.

Mystery Lake high-strain zones: sinistral and dextral, east-side-up displacements, Thompson Nickel Belt / Zwanzig, H.V., p. 18-23.

Petrographic investigations at Sipiwesk Lake (part of NTS 63J/16) / Lettley, C.D., p. 24-25.

Split Lake Block of the Superior Boundary Zone: petrological, paleomagnetic and geobarometric data for the ca. 1818 Ma Fox Lake pluton (NTS 64A/1, /8) / Harris, M.J., Symons, D.T.A., Blackburn, W.H., Peck, D.C. and Turek, A., p. 26-37.

Geology of the western part of the Fox River Belt (parts of NTS 53M and 53N) / Peck, D.C., Potter, L., Desharnais, G., Scoates, R.F.J., Corkery, M.T. and Böhm, Ch.O., p. 38-41.

Geology and mineral occurrences of the Fox River sill in the Great Falls area, Fox River Belt (part of NTS 53M/16) / Desharnais, G., Peck, D.C., Theyer, P., Potter, L., Huminicki, M., Scoates, R.F.J., Halden, N.M. and Kohut, G., p. 42-48.

Lynn Lake

Controls on gold mineralization associated with the Johnson Shear Zone and Agassiz Metaltect, Lynn Lake greenstone belt: summary of current activities (parts of NTS 64C/10, /11, /12, /14, /15, /16) / Beaumont-Smith, C.J., p. 49-50.

Preliminary structural analysis of the Agassiz Metaltect near the MacLellan and Dot Lake gold deposits, Lynn Lake greenstone belt (parts of NTS 64C/14, /15) / Ma, G., Beaumont-Smith, C.J. and Lentz, D.R., p. 51-56.

Structural analysis of the Johnson Shear Zone in the Gemmell Lake-Dunphy Lakes area, Lynn Lake greenstone belt (parts of NTS 64C/11, /12) / Beaumont-Smith, C.J., p. 57-63.

Detailed structural analysis of the Johnson Shear Zone in the west Gemmell Lake area (NTS 64C/11) / Beaumont-Smith, C.J. and Edwards, C.D., p. 64-68.

Preliminary structural and gold metallogenic studies at the Burnt Timber mine and surrounding area, Lynn Lake greenstone belt (NTS 64C/10) / Jones, L.R., Beaumont-Smith, C.J. and Lafrance B., p. 69-72.

Structural analysis and gold metallogeny of the Farley Lake gold deposit, Lynn Lake greenstone belt (NTS 64C/16) / Beaumont-Smith, C.J., Lentz, D.R. and Tweed, E.A., p. 73-81.

Mineralization-potential mapping: a data-fusion analysis / Rogge, D.M., Halden, N.M. and Beaumont-Smith, C.J., p. 82-90.

Geochemistry and tectonic framework of the Kisseynew Domain-Lynn Lake belt boundary (part of NTS 63P/13) / Zwanzig, H.V., p. 91-96.

U-Pb age of the gabbro and other plutons at Lynn Lake (part of NTS 64C) / Turek, A., Woodhead, J. and Zwanzig H.V., p. 97-104.

Northern Superior

Operation Superior: multimedia geochemical surveys in the Knee Lake greenstone belt (northern half), northern Superior Province, Manitoba (NTS 53L) / Fedikow, M.A.F. and Nielsen, E., p. 105-107.

Western Superior NATMAP: an integrated view of Archean crustal evolution / Percival, J.A., Bailes, A.H., Corkery, M.T., Dubé, B., Harris, J.R., McNicoll, V., Panagapko, D., Parker, J.R., Rogers, N., Sanborn-Barrie, M., Skulski, T., Stone, D., Stott, G.M., Tomlinson, K.Y., Whalen, J.B. and Young, M.D., p. 108-116.

Geological and geochronological investigations in the Stull Lake-Edmund Lake greenstone belt and granitoid rocks of the northwestern Superior Province / Skulski, T., Corkery, M.T., Stone, D., Whalen J.B. and Stern, R.A., p. 117-128.

Geological investigations in the Knee Lake belt (parts of NTS 53L) / Corkery, M.T., Cameron, H.D.M., Lin, S., Skulski, T., Whalen, J.B. and Stern, R.A., p. 129-136.

Southeast Max Lake area (parts of NTS 53L/5N, /6NW, /12SW) / Gilbert, H.P., p. 137-149.

Kinematics of the north and south Pipestone Lake shear zones in the Cross Lake greenstone belt, northwestern Superior Province / Parmenter, A.C., Lin, S. and Corkery, M.T., p. 150-154.

Assean Lake ancient crust: an update / Corkery, M.T., Böhm, Ch.O. and Heaman, L.M., p. 155-160.

Southeast Manitoba

Geology and structure of the North Caribou Terrane-Uchi Subprovince boundary in eastern Manitoba, with emphasis on volcanic and volcanoclastic rocks of the Black Island assemblage / Bailes, A.H. and Percival, J.A., p. 161-174.

New PGE-related results of studies on the Chrome and Page properties, Bird River Sill (NTS 52L/5) Theyer, P., p.175-178.

Phytoremediation and phytomining in Manitoba: preliminary observations from an orientation survey at the Central Manitoba (Au) minesite (NTS 52L/13) / Renault, S., Sailerova, E. and Fedikow, M.A.F., p. 179-188.

Southern Manitoba

Geology of the Winnipeg Region NATMAP Project: 1999-2000 Progress (NTS 62H/W, 62I and 52L/W) / Matile, G.L.D., Thorleifson, L.H., Bamburak, J.D., Bezys, R.K., Burt, A., Conley, G.G., Grant, N., Keller, G.R., Mann, J., McGregor, C.R. and Pyne, M., p. 189-193.

Manitoba Stratigraphic Database and the Capital Region Study, 2000 / Conley, G.G., p. 194-195.

Stratigraphic investigations and corehole drilling program, 2000 / Bezys, R.K., p. 196-201.

Investigations on the Camperville gravity low (parts of NTS 62N/E and 63C/E) / Bamburak, J.D., Hosain, I. T., Fedikow, M.A.F. and Dobrzanski, E., p. 202-209.

Gravity and magnetic profile from Camperville to the Saskatchewan border (parts of NTS 62N/E and 63C/E) / Surasky, A.T. and Minkus, R.S., p. 210-213.

Saline spring geochemistry, west-central Manitoba / Grasby, S.E., p. 214-216.

Aggregate resources in the Rural Municipality of Cameron / Groom, H.D., p. 217-219.

Paleoenvironmental history of the Red River valley since AD 1463 / Nielsen, E. and St. George, S., p. 220-222.

Manitoba General

Bedrock Geology Compilation Map Series / Chackowsky, L. and Lindal, D., p. 223-224.

Mining sector participation in the Protected Areas Initiative / Leskiw, P.D., p. 225.

Industrial minerals of the Churchill area (parts of NTS 54K/13SE and 54L/16SW) / Bamburak, J.D., p. 226-230.

GIS-based interactive maps on the Web / Pacey, M., p. 231.

Preliminary Map Series

2000R-1

Geology of the Black Island-Seymourville area (NTS 62P/1 and 8) / Bailes, A.H. and Percival, J.A., scale 1:20 000.

2000R-2

Geology of the Pipestone Rock-Rice River area (NTS 62P/7 and 8) / Percival, J.A. and Bailes, A.H., scale 1:20 000.

2000S-1

Geology of the Kistigan Lake area (NTS 53K/10) / Corkery, M.T. and Stone, D., scale 1:50 000.

2000S-2

Geology of the Stull Lake area (NTS 53K/7) / Corkery, M.T. and Stone, D., scale 1:50 000

2000S-3

Southeast Max Lake area (parts of NTS 53L/5NW, 12SW) / Gilbert, H.P., scale 1:20 000.

2000S-4

Aswapiswanan Lake east area (part of NTS 53L/6NW) / Gilbert, H.P., scale 1:20 000.

2000S-5

Aswapiswanan Lake west area (parts of NTS 53L/5NE, 6NW) / Gilbert, H.P., scale 1:20 000.

2000S-6

Geology of the Gods Lake area (NTS 53L/9) / Corkery, M.T. and Cameron, H.D.M., scale 1:50 000.

Thompson Nickel Belt compilation maps by Macek, J.J. and the TNB Working Group

2001FN-1

Geology of the Muhigan Lake area (63J/10), scale 1: 50 000

2001FN-2

Geology of the Pakwa Lake area (63J/15), scale 1: 50 000

2001FN-3

Geology of the Pistol Lake area (63O/2), scale 1: 50 000

2001FN-4

Geology of the Halfway Lake area (63O/1), scale 1: 50 000

2001FS-1

Geology of Perch Lake (63G/5), Eating Point (63G/06), Howell Point (63G/11) and Bracken Lake (63G/12) areas, scale 1: 100 000

2001FS-2

Geology of Kokookuhoo Island (63F/8) and Lamb Lake (63F/9) areas, scale 1: 100 000

2001FS-3

Geology of the William Lake area (63G/14), scale 1: 50 000

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Geology of the Davidson Lake area (63G/13), scale 1: 50 000

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Geology of the Gladish Lake area (63J/5), scale 1: 50 000

2001HB-1

Geology of the Kiskitto Lake west (63J/2 west half), Gladish Lake (63J/3) and Talbot Lake east (63J/4 east half) area, scale 1: 100 000

2001HB-2

Geology of the Hargrave River (63J/6), Hill Lake (63J/7), Muhigan Lake (63J/10) and Tyrell (63J/11) areas, scale 1: 100 000

2001I-1

Geology of the Halfway Lake-Pistol Lake area (parts of 63O/1 and 63O/2), scale 1: 50 000

2001I-2

Geology of the Hambone Lake (63O/8) and Thicket Portage west (part of 63P/5) areas, scale 1: 50 000

2001I-3

Geology of the Ospwagan Lake west (63O/9 west half) and Thompson east (63P/12 west half) areas, scale 1: 50 000

2001I-4

Geology of the Mystery Lake (63P/13) area, scale 1: 50 000

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Ballard, D. and Huntley, C. 2000: Paradigm shift—short-term outlook to long-term vision; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 41.

Beaumont-Smith, C. 2000: Investigations into controls on gold mineralization in the Lynn Lake greenstone belt: an overview and summary of current activities; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 40.

Bezys, R.K., Fedikow, M.A.F., and Bamburak, J.D. 2000: Prairie-type microdisseminated base and precious metal mineralization in the Devonian of Manitoba; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 42.

Bogden, G. 2000: Mining finance in difficult times—what can be done?; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 41.

Böhm, Ch.O., Heaman, L.M., Creaser, R.A., and Corkery, M.T. 2000: First two billion years of Manitoba geological history recorded in the Assean Lake ancient crust; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 38.

Comba, D. 2000: The crisis in exploration investment in Canada; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.

Corkery, M.T., Skulski, T., Lin, S., Syme, E.C., Bailes, A.H., and Stone, D. 2000: Crustal assembly of the northwest Superior Province; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.

Desharnais, G. 2000: Marginal zone of the Fox River sill: a new Cu-Ni-PGE target; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 40.

Fedikow, M.A.F. 2000: Overview of new exploration opportunities in Manitoba (diamonds, PGE, Pb-Zn, sediment-hosted base and precious metals, REE); Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 41.

Fedikow, M.A.F. and Nielsen, E. 2000: Operation Superior: geochemical and mineralogical (KIM, gold grains and MMSIM) results from the 1999 multimedia survey, southern Knee Lake greenstone belt; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 41.

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- Ginn, D. 2000: The Bissett gold mine evolution; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
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- Jensen, M. 2000: Mining and the capital markets: building on success; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 41.
- Jones, P. 2000: The 777 Project—a major investment in Manitoba; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
- Ladouceur, N. 2000: Environmental advantage to mining in Manitoba; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
- Ladouceur, N. 2000: Safety pays; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 43.
- Lesher, C.M., Burnham, O.M., Layton-Matthews, D., Keays, R.R., and Hulbert, L. 2000: Genesis of magmatic Ni-Cu-(PGE) mineralization in the Thompson Nickel Belt, Manitoba; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 38.
- Madden, D. 2000: Cesium formate fluid; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
- McAllister, M.L. 2000: Canada—a world leader in sustainable mining?; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
- Nielsen, E. and St. George, S. 2000: Red River floods through the centuries: five hundred years of environmental change in southern Manitoba; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 43.
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- Percival, J.A. and Bailes, A.H. 2000: Tectonic history and mineral potential of the western Superior Province margin in the Lake Winnipeg area; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 44.
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- Sanborn-Barrie, M., Skulski, T., Dub, B., and Parker, J. 2000: Regional tectonic controls on deformation, alteration and gold mineralization of the Red Lake greenstone belt; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 43.
- Severin, P.W.A. 2000: In quest of nickel—challenges in 2000 and beyond; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 39.
- Skulski, T. and Sanborn-Barrie, M. 2000: Pre-Kenoran (>2.72 Ga) history of the Red Lake greenstone belt on the southern margin of the North Caribou craton; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 42.
- Stephens, D. 2000: COSDI: where is it now?; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 36.
- Strong, K. 2000: Exploration/mining companies and CDNX: a good fit; Manitoba Industry, Trade and Mines, Manitoba Mining & Minerals Convention 2000: program, p. 38.
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- Anderson, S.D., Jamieson, R.A., Reynolds, P.H. and Dunning, G.R. 2001: Devonian extension in northwestern Newfoundland: $^{40}\text{Ar}/^{39}\text{Ar}$ and U-Pb data from the Ming's Bight area, Baie Verte Peninsula; *Journal of Geology*, v. 109, p. 191-211.
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- Corkery, M.T., Skulski, T., Whalen, J., Böhm, Ch.O., Davis, D.W., Lin, S., Syme, E.C., Bailes, A.H. and Stone, D. in press: Archean crustal development and assembly of the northwest Superior Province circa 2700 Ma in central Manitoba and northwestern Ontario; *in* 2001 Western Superior Transect Sixth Annual Workshop, Lithoprobe Report, (ed.) R.M. Harrap and H.H. Helmstaedt.
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MANITOBA GEOLOGICAL SURVEY

| Position | Personnel | E-mail | Phone (Area Code 204) | Areas of interest |
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