

# **PUBLICATIONS**

## PRELIMINARY MAPS

---

PMAP2007-1	Geology of the Flin Flon area, Manitoba (part of NTS 63K12) by R-L. Simard, P.D. Kremer, K. MacLachlan, Y.M. DeWolfe, H. Gibson, B. LaFrance, D. Ames, A.H. Bailes, C. Devine, D. Price and S. Pehrsson.....scale 1:10 000
PMAP2007-2	Revised geology of Notigi Lake, Manitoba (NTS 63O14 and parts of 64B3) by L.A. Murphy and H.V. Zwanzig.....scale 1:20 000
PMAP2007-3	Revised geology of the Kawaweyak Lake area, Manitoba (part of NTS 63O15) by L.A. Murphy and H.V. Zwanzig.....scale 1:10 000
PMAP2007-4	Bedrock geology of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5, 63P1, 8) by C.O. Böhm and P.D. Kremer.....scale 1:25 000
PMAP2007-5	Geology of the east part of the Bird River area, southeastern Manitoba (part of NTS 52L6) by H.P. Gilbert.....scale 1:20 000
PMAP2007-6	Geology of the west part of the Bird River area, southeastern Manitoba (part of NTS 52L5) by H.P. Gilbert.....scale 1:20 000

**Manitoba Geological Survey Reports and Maps**

**Geoscientific Paper**

GP2006-1

New uranium-lead geochronology results from the Lynn Lake greenstone belt, Manitoba (NTS 64C11–16) / by C.J. Beaumont-Smith, N. Machado and D.C. Peck

**Open File Reports**

OF2006-32

Bedrock geology of the Gull Rapids area, Manitoba (part of NTS 54D6) / by C.O. Böhm, M.S. Bowerman and M.W. Downey (Digital map on DVD)

OF2006-33

Thompson Nickel Belt geological compilation map, Manitoba (parts of NTS 63G, J, O, P and 64A and B) / by J.J. Macek, H.V. Zwanzig and J.M. Pacey (Digital map on CD-ROM)

OF2006-34 (Supercedes OF2005-3)

Manitoba Geochronology Database / by Manitoba Geological Survey (Digital web release only)

**Surficial Geology Compilation Map Series**

SG-CMS

Surficial Geology Compilation Map Series of Manitoba / by G.L.D. Matile and G.R. Keller (Digital maps on DVD)

**Preliminary Maps**

PMAP2006-1

Geology of the Schist Lake–Mandy mines area, Flin Flon, Manitoba (parts of NTS 63K12) / by R.-L. Simard (scale 1:5000)

PMAP2006-2

Bedrock geology of the Bear Lake area, Manitoba (parts of NTS 53M4 and 63P1) / by C.O. Böhm and R.P. Hartlaub (scale 1:50 000)

PMAP2006-3

Revised geology of the Wuskwatim–Threepoint lakes area, Manitoba (NTS 63O10 and parts of 63O11) / by H.V. Zwanzig, J.A. Percival and L. Murphy (scale 1:50 000)

PMAP2006-4

Bedrock geology of the Kasmere Lake area, Manitoba (NTS 64N11 and parts of NTS 64N6) / by C.O. Böhm and S.D. Anderson (scale 1:50 000)

PMAP2006-5

Bedrock geology of the Putahow Lake area, Manitoba (NTS 64N15) / by S.D. Anderson and C.O. Böhm (scale 1:50 000)

PMAP2006-6

Surficial geology of the Kasmere–Putahow lakes area, northwestern Manitoba (parts of NTS 64N10, 11, 14 and 15) / by G.L.D. Matile (scale 1:50 000)

PMAP2006-7

Geology and structure of the Garner Lake–Gem Lake area, Rice Lake greenstone belt, Manitoba (NTS 52L11 and 14) / by S.D. Anderson (scale 1:20 000)

PMAP2006-8

Geology of the east-central part of the Bird River area, Manitoba (NTS 52L6N) / by H.P. Gilbert (scale 1:20 000)

PMAP2006-9

Geology of the Bernic Lake area around the Tanco mine, Bird River greenstone belt, southeastern Manitoba (NTS 52L6) / by P.D. Kremer and S. Lin (scale 1:10 000)

PMAP2006-10

Geology of the Bird River Sill, southeastern Manitoba (part of NTS 52L5) / by C. Mealin (scale 1:50 000)

## **Report of Activities 2006**

Annual review / by E.C. Syme, p. 1-8.

### **FLIN FLON–SNOW LAKE**

GS-1

Geology of the Schist Lake–Mandy mines area, Flin Flon, Manitoba (part of NTS 63K12) / by R-L. Simard, p. 9-21.

GS-2

Stratigraphic subdivision of the Hidden and Louis formations, Flin Flon, Manitoba (NTS 63K16SW) / by Y.M. DeWolfe and H.L. Gibson, p. 22-34.

GS-3

Wonderland gabbro: U-Pb age and geological implications, Manitoba (NTS 63K12NE) / by A.H. Bailes and P. Theyer, p. 35-41.

GS-4

Metallogenic and metamorphic study of selected deposits from the Snow Lake area and the southern flank of the Kisseynew Domain, Manitoba (NTS 63K16 and 63N2) / by S. Gagné, C.J. Beaumont-Smith, A.E. Williams-Jones and A. Hynes, p. 42-48.

GS-5

Igneous carbonate-rich rocks from the south Wekusko Lake area, Manitoba (parts of NTS 63K9 and 63J12): a kimberlite-carbonatite dilemma / by A. Chakhmouradian, C.O. Böhm and J.K. Greville, p. 49-62.

## GS-6

Activities of the Manitoba Geological Survey's Flin Flon regional office / by T.H. Heine, p. 63-64.

## SUPERIOR PROVINCE

## GS-7

Preliminary results from geological mapping of the Bear Lake greenstone belt, Manitoba (parts of NTS 53M4 and 63P1) / by R.P. Hartlaub and C.O. Böhm, p. 65-73.

## SUPERIOR BOUNDARY ZONE, THOMPSON NICKEL BELT

## GS-8

New tectonostratigraphic framework for the northeastern Kiseeynew Domain, Manitoba (parts of NTS 63O) / by J.A. Percival, H.V. Zwanzig and N. Rayner, p. 74-84.

## GS-9

Thompson Nickel Belt-type units in the northeastern Kiseeynew Domain, Manitoba (parts of NTS 63O) / by H.V. Zwanzig, L. Murphy, J.A. Percival, J.B. Whalen and N. Rayner, p. 85-103.

## GS-10

Regional granulite-facies metamorphism in the northeastern Kiseeynew Domain, Manitoba (parts of NTS 63O) / by M.L. Growdon, J.A. Percival, N. Rayner and L. Murphy, p. 104-115.

## GS-11

Detrital zircon provenance of the Pipe Formation, Oswagan Group, Thompson Nickel Belt, Manitoba, NTS 63O8 / by N. Rayner, H.V. Zwanzig and J.A. Percival, p. 116-124.

## GS-12

Preliminary field observations of regional metamorphism in the Thompson Nickel Belt, Manitoba (parts of NTS 63J15, 63O1 and 2, 63O8 and 9, 63P12 and 13) / by C.G. Couëslan, D.R.M. Pattison and J.J. Macek, p. 125-135.

## FAR NORTH

## GS-13

Preliminary results from geological bedrock mapping of the Kasmere and Putahow lakes areas, northwestern Manitoba (parts of NTS 64N6, 10, 11 and 15) / by C.O. Böhm and S.D. Anderson, p. 136-147.

## GS-14

Surficial geological investigations in the Kasmere-Putahow lakes area, northwestern Manitoba (parts of NTS 64N10, 11, 14 and 15) / by G.L.D. Matile, p. 148-154.

## SOUTHEASTERN MANITOBA

## GS-15

Update and economic significance of geological mapping in the Garner-Gem lakes area, Rice Lake greenstone belt, southeastern Manitoba (NTS 52L11 and 14) / by S.D. Anderson, p. 155-169.

#### GS-16

Geology and structure of the Bird River Belt, southeastern Manitoba (NTS 52L5 and 6) / by M. Duguet, H.P. Gilbert, M.T. Corkery and S. Lin, p. 170-183.

#### GS-17

Geological investigations in the Bird River area, southeastern Manitoba (parts of NTS 52L5N and 6) / by H.P. Gilbert, p. 184-205.

#### GS-18

Structural geology of the Bernic Lake area, Bird River greenstone belt, southeastern Manitoba (NTS 52L6): implications for rare element pegmatite emplacement / by P.D. Kremer and S. Lin, p. 206-213.

#### GS-19

Geological investigations in the Bird River Sill, southeastern Manitoba (part of NTS 52L5): geology and preliminary geochemical results / by C.A. Mealin, p. 214-225.

#### GS-20

Hydrological dynamics in the Winnipeg River basin, Manitoba / by S. St. George, p. 226-230.

#### GS-21

Revegetation of tailings at the Gunnar minesite, Manitoba (NTS 52L14): preliminary observations on plant growth in tailings amended with paper-mill sludge / by S. Renault, C. Nakata, A. Sabra, L. Davis and D. Overton, p. 231-233.

### SOUTHWESTERN MANITOBA

#### GS-22

Aggregate resources in the Rural Municipality of Ste. Rose, Manitoba (NTS 62J13 and 14, 62O3 and 4) / by H.D. Groom, p. 234-239.

### MANITOBA GENERAL

#### GS-23

Summary of investigations for the Sedimentary and Industrial Minerals Section, Manitoba Geological Survey / by R.K. Bezys, p. 240-245.

#### GS-24

Manitoba Geological Survey's Stratigraphic Corehole Drilling Program, 2006 (parts of NTS 62N16 and 63C1) / by J.D. Bamburak, p. 246-252.

#### GS-25

Manitoba's Precambrian Drillcore Libraries Program / by D.E. Prouse, p. 253-254.

#### GS-26

Manitoba Mineral Deposits Database / by T.H. Heine, p. 255-256.

## **Data Repository Items**

DRI2006002

Neoproterozoic Bird River greenstone belt in southeast Manitoba: lithostratigraphic details of two transects through the arc-type, volcanosedimentary sequence in the north panel of the belt / by H.P. Gilbert (Digital web release only)

DRI2006004

Analytical data for sample 7798, Pipe Formation, Pipe II pit and sample 8422, Pipe Formation, Thompson mine, 2500-foot level / by N. Rayner, H.V. Zwanzig and J.A. Percival (Digital web release only)

## **Manitoba Mining & Minerals Convention Speaker Abstracts Winnipeg, Manitoba, November 20-22, 2006**

Breathing New Life into the Lynn Lake Nickel Mine / by Danniël Oosterman (Independent Nickel Corp.), p. 43.

Condition and Hazard Evaluation of Crown Owned Inactive Mine Sites in Manitoba / by Caius Priscu (AMEC Earth & Environmental Limited), p. 43.

Crowflight Minerals Inc. – Canada's Next Nickel Producer / by Tom Atkins (Crowflight Minerals Inc.), p. 43.

Developing Certifiable Mining Skills / by Rod Bushie (San Gold Corporation), p. 43.

Development of Indicator Mineral Methods for Ni-Cu-PGE Exploration: Thompson Nickel Belt Test Site / by Beth McClenaghan (Geological Survey of Canada), p. 44.

Duty to Consult / by Lisa Chartrand (Chartrand Consulting), p. 44.

Environmental Assessment and Remediation of the Former East Tailings Management Area – Lynn Lake, Manitoba / by Tom Wingrove (UMA Engineering Ltd.), p. 44.

Exploration Adding Value / by Nick Sheard (CRVD Inco), p. 44.

Improving Kimberlite Detectability Through Innovation / by Paulo Pereira (De Beers Canada Corporation), p. 45.

Inwood Magnesium Project / by Ryan Cooke (Gossan Resources Limited), p. 45.

La paix des braves and Mining Activities in Eeyou Istchee / by Jack R. Blacksmith and Youcef Larbi (Cree Mineral Exploration Board), p. 45.

Monument Bay Project / by Jo Shearer (Rolling Rock Resources Corporation), p. 45.

New Exploration Targets in Sub-Burntwood Strata, Wuskwatim Lake-Nelson House Region: Initial TGI III Geological-Geophysical Results / by Dr. John Percival (Geological Survey of Canada), Herman Zwanzig (Manitoba Geological Survey), Nicole Rayner (Geological Survey of Canada), and Linda Murphy (Manitoba Geological Survey), p. 46.

New Results from Geoscientific Investigations in the Far North of Manitoba / by Christian O. Böhm, Gaywood L.D. Matile and Scott D. Anderson (Manitoba Geological Survey), p. 46.

Nuinsco Resources: Focused on Production, Driven by Exploration / by Brian Robertson (Nuinsco Resources Limited), p. 46.

San Gold Corporation – Canada and Manitoba’s Newest Gold Producer / by Dale Ginn (San Gold Corporation), p. 46.

“The Good, The Bad and The Ugly” - The Effects of Abandoned Mines on a Community / by Audie Dulewich (Town of Lynn Lake), p. 46.

The TGI-3 Flin Flon Project: A New Initiative to Support Base-Metal Reliant Communities of the Flin Flon-Glennie-Lynn Lake District / by Sally Pehrsson (Geological Survey of Canada), p. 46.

Thirty-five Years of MGS Mapping in the Thompson Nickel Belt: Tracking the Ospwagan Group and Ultramafic Bodies / by Herman Zwanzig and Josef Macek (Manitoba Geological Survey), p. 47.

Towards a New Stratigraphy of the Bird River Greenstone Belt, Southeastern Manitoba / by Paul Gilbert (Manitoba Geological Survey), p. 47.

Understanding Volcanogenic Massive Sulphide Deposits: A “Bit of the Old” and a “Bit of the New” / by Dr. Harold Gibson (Laurentian University), p. 47.



## EXTERNAL PUBLICATIONS

---

- Böhm, C.O. and Anderson, S.D. 2007: The Hearne craton cover sequence in Manitoba: where the Hurwitz meets the Wollaston; *in* GAC-MAC Annual Meeting, Yellowknife 2007, Abstract Volume 32, p. 9.
- Böhm, C.O., Hartlaub, R.P. and Heaman, L.M. 2007: The Assean Lake Complex: Ancient crust at the northwestern margin of the Superior Craton, Manitoba, Canada; *in* Earth's Oldest Rocks, Van Kranendonk, M.J., Smithies, R.H. and Bennett, V. (eds), Developments in Precambrian Geology, Elsevier, p. 751-773.
- Gilbert, H.P. 2007: Bird River greenstone belt in Manitoba – Neoarchean arc magmatism in the western Superior Province, GAC-MAC Program with Abstracts, vol. 32; Yellowknife, 2007, p. 32.
- Hartlaub, R.P., Böhm, C.O., Heaman, L.M. and Simonetti, A. 2007: Growth of an Early Archean protocontinent: new results from the northwestern Superior Province; *in* GAC-MAC Annual Meeting, Yellowknife 2007, Abstract Volume 32, p. 38.
- Prouse, D.E. 2006: Manitoba exploration and development highlights; *in* CIM Magazine – Outlook Issue, December 2006/January 2007, v. 1, no. 8, p. 34-35.
- Prouse, D.E. 2007: Nickel retakes spotlight: Inco deposit enters production, Crowflight's Bucko headed in same direction; *in* Exploration and development highlights: an annual publication of the Prospectors and Developers Association of Canada, March 2007, p. 14-15.