

Table of Contents

Minister's Message	iii
2006 Project Location Map.....	iv
Annual review by E.C. Syme.....	1

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.....	9
GS-2 Stratigraphic subdivision of the Hidden and Louis formations, Flin Flon, Manitoba (NTS 63K16SW) by Y.M. DeWolfe and H.L. Gibson	22
GS-3 Wonderland gabbro: U-Pb age and geological implications, Manitoba (NTS 63K12NE) by A.H. Bailes and P. Theyer.....	35
GS-4 Metallogenic and metamorphic study of selected deposits from the Snow Lake area and the southern flank of the Kiseynew Domain, Manitoba (NTS 63K16 and 63N2) by S. Gagné, C.J. Beaumont-Smith, A.E. Williams-Jones and A. Hynes	42
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	49
GS-6 Activities of the Manitoba Geological Survey's Flin Flon regional office by T.H. Heine	63

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	65
---	----

SUPERIOR BOUNDARY ZONE, THOMPSON NICKEL BELT

GS-8 New tectonostratigraphic framework for the northeastern Kiseynew Domain, Manitoba (parts of NTS 63O) by J.A. Percival, H.V. Zwanzig and N. Rayner	74
GS-9 Thompson Nickel Belt–type units in the northeastern Kiseynew Domain, Manitoba (parts of NTS 63O) by H.V. Zwanzig, L. Murphy, J.A. Percival, J.B. Whalen and N. Rayner	85
GS-10 Regional granulite-facies metamorphism in the northeastern Kiseynew Domain, Manitoba (parts of NTS 63O) by M.L. Growdon, J.A. Percival, N. Rayner and L. Murphy.....	104
GS-11 Detrital zircon provenance of the Pipe Formation, Ospwagan Group, Thompson Nickel Belt, Manitoba, NTS 63O8 by N. Rayner, H.V. Zwanzig and J.A. Percival	116

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.....	125
---	-----

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	136
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	148

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.....	155
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	170
GS-17 Geological investigations in the Bird River area, southeastern Manitoba (parts of NTS 52L5N and 6) by H.P. Gilbert	184
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.....	206
GS-19 Geological investigations in the Bird River Sill, southeastern Manitoba (part of NTS 52L5): geology and preliminary geochemical results by C.A. Mealin	214
GS-20 Hydrological dynamics in the Winnipeg River basin, Manitoba by S. St. George.....	226
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	231

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.....	234
---	-----

MANITOBA GENERAL

GS-23 Summary of investigations for the Sedimentary and Industrial Minerals Section, Manitoba Geological Survey by R.K. Bezys.....	240
---	-----

GS-24	Manitoba Geological Survey's Stratigraphic Corehole Drilling Program, 2006 (parts of NTS 62N16 and 63C1) by J.D. Bamburak	246
GS-25	Manitoba's Precambrian Drillcore Libraries Program by D.E. Prouse	253
GS-26	Manitoba Mineral Deposits Database by T.H. Heine	255

PUBLICATIONS

Preliminary Maps	259
Publications Released November 2005 - November 2006	260
External Publications	265