



ABBREVIATIONS

Table of abbreviations for various geological features and rock types, including arsenic, biotite, calc-silicate, and muscovite.

PROSPECTS, PAST-PRODUCERS AND PRODUCERS

Table listing prospect names, mineral deposit inventory numbers, and commodities such as iron, copper, and manganese.

SOURCES OF INFORMATION

Base map information derived from Ontario Land Information Warehouse, Lands Information Ontario, Ontario Ministry of Natural Resources, scale 1:20 000.

Mapping conducted using UTM co-ordinates in North American Datum 1983 (NAD83), Zone 17.

Compiled geology and geophysical interpretation derived from:

Giblin, P.E. 1960. Figure 3a. Geological Map, Terrell from Project, Parkman Township, Ontario; Sudbury Resident Geologist's Office, Parkman Township, assessment file SP9003, scale 1:25 000.

GSC-ODM 1965. Aeromagnetics, Temiscaming, Geological Survey of Canada-Ontario Department of Mines, Aeromagnetic Map 14795, scale 1:63 360.

GSC-ODM 1965. Aeromagnetics, Ottawa-Creek, Geological Survey of Canada-Ontario Department of Mines, Aeromagnetic Map 14803, scale 1:63 360.

Hearn, R. 2003. Interpretation of airborne geophysical data, Parkman Township, Ontario, for Grenville Gneiss Corporation, Sudbury Resident Geologist's Office, Parkman Township, assessment file SP9004, scale 1:25 000, unpaginated.

Lumbers, S.B. 1971. Tomiko area (east half), Ontario Department of Mines and Northern Affairs, Preliminary Map P.678, scale 1:63 360.

Moore, R.L. 1976. Metamorphic petrology of the area between Mattawa, North Bay and Temiscaming, Ontario; unpubl. PhD thesis, Carleton University, Ottawa, Ontario, 265p.

Other Sources of Information:

Easton, R.M. 2005. The Grenville Tomiko quartzites of Ontario: correlates of the Baraboo quartzites of Wisconsin, the Mazatzal orogen of New Mexico, or unique? Implications for the tectonic architecture of Laurentia in the Great Lakes region. 51st Institute on Lake Superior Geology, Proceedings, v.51, pt.1, p.15-16.

Easton, R.M. and Kamo, S.L. 2004. The Grenville Tomiko quartzites of Ontario: correlates with the Baraboo quartzites of Wisconsin or the Mazatzal orogen of New Mexico? Implications for the tectonic architecture of Laurentia in the Great Lakes region. Geological Society of America, Abstracts with Programs, v.36, no.6, p.4-A-59.

Holm, C. and Duxin, A.P. 1995. Paleoproterozoic crustal history of the southwestern Grenville Province, Canadian Journal of Earth Sciences, v.32, p.472-485.

Hornbrook, E.H. and Friske, P.W. 1989. National Geochronological Reconnaissance lake sediment and water data, Central Ontario (31ENZ, parts of 31K, 31U). Geological Survey of Canada, Open File Report 1989, 195p.

Reid, J.L. 2002. Regional modern alluvium sampling survey of the Mattawa-Cobalt corridor, northeastern Ontario; Ontario Geological Survey, Open File Report 098, 235p.

Metric conversion factor 1 foot = 0.3048 m.

Geology is not tied to survey lines.

Magnetic declination for centre of map area, approximately 11°45'W in 2006.

CREDITS

Geology by R.M. Easton, 2003.

Geological compilation by R.M. Easton, 2004-2006.

Digital drafting by R.M. Easton and S. Josey.

Cartographic production by A. Evers.

To enable the rapid dissemination of information, this map has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Users should verify critical information.

Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Easton, R.M. 2006. Precambrian Geology, Jocko River area; Ontario Geological Survey, Preliminary Map P.2846, scale 1:50 000.

LEGEND

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

PLEISTOCENE

UNCONFORMITY

PRECAMBRIAN

NEOPROTEROZOIC

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REGIONAL LOW TO MODERATE-GRADE METAMORPHISM WITHIN THE SOUTHERN AND GRENVILLE PROVINCES

MESOPROTEROZOIC

Mattawan Domain (units 18 to 22)

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PALEOPROTEROZOIC TO MESOPROTEROZOIC

Tomiko Supracrustal Rocks (units 4 to 12)

Intermediate to Felsic Metavolcanic or Metaplutonic Rocks

Mafic Metavolcanic or Metaplutonic Rocks

Quartzose Sedimentary Rocks

Felsipathic and Micaceous Sedimentary Rocks

Compositionally Unusual Rocks

Iron Formation and Related Rocks

Biotite Gneiss (Metapelite)

Carbonate Rocks

Calc-silicate Rocks

Intermediate to Felsic Intrusive Rocks, Mulock Pluton (circa 1250 Ma)

Intermediate to Felsic Intrusive Rocks, Jocko and Associated Plutons (circa 1250 Ma)

Intermediate to Felsic Intrusive Rocks, McDougal and Associated Plutons (circa 1250 Ma)

Intermediate to Felsic Intrusive Rocks, Elbow Pluton (circa 1250 Ma)

Intermediate to Felsic Intrusive Rocks, Malone Lobe

Intermediate to Felsic Intrusive Rocks, Jocko (Timberlake) Pluton

Intermediate to Felsic Intrusive Rocks, Malone Lobe

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