

MRD380 METADATA

GENERAL INFORMATION

Title

Geological, Geochemical and Geophysical Data Related to the Makokibatan Lake Area, Fort Hope–Miminiska Greenstone Belt, Northwestern Ontario

Alternate Title

MRD380

Author(s)

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Abstract

This digital data release consists of geochemical data, magnetic susceptibility data, geological information, structural data and selected field photographs for the Makokibatan Lake area of the Fort Hope–Miminiska greenstone belt, which were collected during the 2016 field season and a three-week period in 2017. This release contains whole-rock geochemistry (major element, trace element, rare earth element), assay data and quality control information, magnetic susceptibility data, drill hole data and field notes. These data augment the associated Preliminary Maps P.3843, *Precambrian Geology of the Makokibatan Lake Area, Fort Hope–Miminiska Greenstone Belt, Northwestern Ontario—West Sheet* (scale 1:50,000); and P.3844, *Precambrian Geology of the Makokibatan Lake Area, Fort Hope–Miminiska Greenstone Belt, Northwestern Ontario—East Sheet* (scale 1:50,000). The shared marginal notes and geological legend from these Preliminary maps are also provided and are available as 2 separate portable document format (.pdf) files. Additional information includes the associated *Summary of Field Work and Other Activities* article from 2016; and a poster and presentation that were presented at the 2017 Ontario Prospectors Exploration Showcase (OPES) in Thunder Bay, Ontario, available as portable document format (.pdf) files. Location data are provided in the Universal Transverse Mercator (UTM) projection and grid system, North American Datum 1983 (NAD83), Zone 16. This release consists of 5 Microsoft® Excel® for Office 365 (.xlsx) format files; 190 photographs (.jpg format files) and 8 portable document format (.pdf) files.

The following publications are associated with this publication: P3843, P3844

Additional information can be found within a readme file provided with the product.

Purpose or Objective

The purpose of this mapping was to delineate the mafic intrusive rocks in the region and infill a regional gap in recent mapping. The Makokibatan River area mapping project is the final part of a multiyear project known as the Fort Hope–Miminiska greenstone belt mapping project; the goals of this project are to

1. create a set of 1:50,000 to 1:100,000 scale bedrock geology maps for the Fort Hope–Miminiska greenstone belt and surrounds;

2. better define the stratigraphy of the greenstone belt and its correlation with other belts in the Uchi Subprovince;
3. determine the evolution of individual tectonic assemblages and the overall tectonic setting of the Fort Hope–Miminiska greenstone belt during the Uchian orogeny;
4. determine the nature of the terrane and domain boundaries to the north and south of the eastern Uchi Subprovince;
5. examine and, based on the above, assess the mineral potential of the eastern Uchi Subprovince.

The objective of this product is to collect and disseminate geoscience information for Ontario.

Keywords

Geological Survey
 Geology
 Ministry of Energy, Northern Development and Mines
 ENDM
 Ministry of Northern Development and Mines
 MNDM
 Ontario Geological Survey
 OGS
 Miscellaneous Release—Data
 MRD
 Archean Bedrock Geology
 Precambrian Bedrock Geology
 Superior Province (Geological)
 Greenstone
 Lithogeochemistry
 Geochronology
 Field Data
 Drill Hole

Business Themes

Geological Survey
 Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	51.5408°
West bounding longitude:	-87.9436°
East bounding longitude:	-86.5242°
South bounding latitude:	51.1687°

Description of Completeness: irregularly shaped study area - completeness not available

MAPPING INFORMATION:

Grid Coordinate System Used:	Universal Transverse Mercator
Map Projection:	Transverse Mercator
Horizontal Geodetic Datum:	NAD83
Vertical Datum:	Not Applicable
Horizontal Position Accuracy of Features:	Precise ± 5 m
Vertical Position Accuracy of Features:	Not Applicable

DATA SOURCE INFORMATION

Data Source Type and Description

Includes Bibliographic Information: Product includes references to other sources of information

Data Source Type and Description

Direct Field Collection: Field work conducted during the 2016 and 2017 field seasons; interpretation of data in 2020.

Data Source Type and Description

Compiled Data Set: Compiled geological, mineral deposit, drill hole, lake sediment geochemistry and aeromagnetic data from previous Ontario Geological Survey publications.

Current Status of the Data: Complete

Frequency of Changes or Additions to be made to the Data: Not Planned

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