

MRD308-REV METADATA

GENERAL INFORMATION

Title

New and Compiled Whole-Rock Geochemical and Isotope Data of Midcontinent Rift–Related Rocks, Thunder Bay Area

Alternate Title

MRD308-REV

Author(s)

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Abstract

This digital data release is an update of the Midcontinent Rift geochemical database released in 2013 as Miscellaneous Release—Data (MRD) 308. MRD 308—Revised includes new whole-rock and trace element analyses for 124 bedrock samples of mafic igneous rocks related to the Mesoproterozoic Midcontinent Rift. The release also includes a compilation of geochemical data for Midcontinent Rift–related rocks from the following previously released digital data sets: MRDs 114, 132, 133, 146, 147, 190, 261—Revised, 308, 319, 345, 352 and 368. The historical compilation includes 2821 spatially referenced data points with geochemical analyses. Additionally, 132 samples with Rb, Sr, Nd, Sm and/or ϵ_{Nd} isotopic data are also included in this release, compiled from various sources. The compilation of data and a brief overview of the referenced MRDs and analytical procedures are presented as 2 Microsoft® Excel® for Office 365 (.xlsx) and 2 portable document format (.pdf) files.

The following publications are associated with this publication: MRD308

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

Purpose or Objective

This product is part of an ongoing project to examine and characterize the mafic intrusions and volcanic rocks that are present along the north shore of Lake Superior and in the Lake Nipigon area, representing the northern expression of the Mesoproterozoic Midcontinent Rift.

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
Precambrian Bedrock Geology
Mesoproterozoic
Southern Province (Geological)
Analysis, Analyses
Geochemical Geochemistry
Bedrock Geochemistry
Radioisotopes
Rubidium/Strontium (Rb/Sr)

Business Themes

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	50.8333°
West bounding longitude:	-90.8333°
East bounding longitude:	-84.7500°
South bounding latitude:	47.0000°

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:	±100 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: Direct field collection and compilation of existing data from 2002 to 2018.

Data Source Type and Description

Compiled Data: Product includes geochemical data for Midcontinent Rift–related rocks compiled from previously released digital data sets by the Ontario Geological Survey, specifically Miscellaneous Release—Data (MRDs) 114, 132, 133, 146, 147, 190, 261—Revised, 308, 319, 345, 352 and 368; detailed references to these other data sets is provided in the product. Additionally, 132 samples with Rb, Sr, Nd, Sm and/or ϵ_{Nd} isotopic data are also included in this release, compiled from various sources listed within the MRD.

Current Status of the Data: Complete

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

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