

MISCELLANEOUS RELEASE—DATA (MRD) 356 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Geological, Geochemical and Geophysical Data Related to the Centennial Lake Area, Grenville Province

Acronyms are Used to Identify the Data Set or Information Holding: MRD356

Describe the Data Set or Information Holding:

Duguet, M. (author)

This publication can be downloaded from GeologyOntario: see Distribution Information section.

This digital data release contains field photographs, and whole-rock geochemical and magnetic susceptibility data collected as part of 1:20 000 scale bedrock geology mapping in the Centennial Lake area (Project Unit 13-014). The bulk of the field study was carried out in the summer of 2015 with preliminary field visits during the summer of 2014. Also included is a previously published article related to the project. This release comprises 202 photographs (as *.jpg* files), 2 Microsoft® Excel® 2013 (*.xlsx*) workbook files and 3 documents in portable document format (*.pdf*). These data augment Preliminary Map P.3807, “*Precambrian Geology of the Centennial Lake Area, Grenville Province*”, the geological legend for the map is also provided.

Additional information and metadata are found within a readme file provided with the product.

These data also complement Open File Report 6331, “*Tectonic and Metamorphic Architecture of the Northeastern Composite Arc Belt and the Central Metasedimentary Belt Boundary Tectonic Zone, Grenville Orogen: A Geological Guidebook*”.

Data related to 4 adjacent areas are available separately as Miscellaneous Release—Data (MRD) 316, “Geological, Geochemical and Geophysical Data Related to the Admaston–Horton Area, Grenville Province”; MRD 327, “Geological, Geochemical and Geophysical Data Related to the Mud Lake Area, Grenville Province”; and MRD 350, “Geological, Geochemical and Geophysical Data Related to the Black Donald Lake Area, Grenville Province”.

The Intended Use and Purpose for Collecting the Data Set or Information Holding:

This single-year, 1:20,000 scale, mapping project of the Centennial Lake area was chosen because it includes one of the largest unmapped marble belts in the Grenville Province, and is currently the subject of ongoing exploration for graphite. The marble belt hosts the historic Black Donald graphite mine, which was flooded during the

creation of Black Donald Lake and Centennial Lake. Reconnaissance work by Easton (Miscellaneous Release—Data (MRD) 286 (2011) and during the Brudenell project in 2012) found that many of the marbles preserve seawater geochemical signatures, that the package include dolomitic marbles, and that it is possible to trace mappable stratigraphic units along strike.

This project also fits into a regional mapping strategy begun in 2011 to map all of the larger marble belts in the northeastern Central Metasedimentary Belt in Renfrew County, not only because these marble belts have metallic and industrial mineral potential, but in order to understand the relationship between these marble-dominated domains and the volcanic-dominated domains present to the south.

The Centennial Lake area is the third of the 3 maps (Mud Lake, Black Donald Lake and Centennial Lake areas), at 1:20 000 scale, to be released as part of Project Unit 13-014. Field work for these 3 maps was conducted during the summers of 2013, 2014 and 2015. This work also represents a continuation of Project Unit 11-003 that started in 2011 in the Horton and Admaston areas near Renfrew and which was completed in 2012.

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

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Miscellaneous Release Data
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Proterozoic Bedrock Geology
Grenville Province (Geological)
Geochemistry, General
Major Elements
Trace Elements
Rare Earth Elements (REE)
Geophysics, General
Stratigraphy

Business Theme:

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 45° 15'

South Bounding Latitude: 45° 07' 30"

West Bounding Longitude: -77° 15'

East Bounding Longitude: -77° 00'

Geographic 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: Includes Bibliographic Information

Describe for the Source Data Contribution: Product includes references to other sources of information

Data Source Type: Direct Field Collection

Source Data Set Description: Field work (bedrock geology mapping) conducted from May to August 2015, with reconnaissance mapping during the summer of 2014

CONTACT INFORMATION

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METADATA

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