

GEOCHRONOLOGY INVENTORY OF ONTARIO (GeochrON) METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Geochronology Inventory of Ontario

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

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

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

The *Geochronology Inventory of Ontario—2019* (GeochrON—2019) is a compilation of the geochronology information for Ontario and for adjacent jurisdictions with similar geology. The *Geochronology Inventory of Ontario* (GeochrON) provides an overview of isotopic ages obtained from rock samples from the province of Ontario and contains information on age, error, methods, rock type, sample number, location, geological environment, and the source of the information. It is based on data acquired by the Ontario Geological Survey (OGS) as part of its geological mapping program, data from Geological Survey of Canada publications, and data compiled from the scientific literature from 1932 to 2019. It is intended that this compilation will be updated annually.

The *Geochronology Inventory of Ontario—2019* (or GeochrON—2019) is available as a direct download from OGSEarth (www.ontario.ca/ogsearth). The compressed (*GeochrON-2019.zip*) download file provides Geochronology Inventory data in 2 formats: 1) a relational database (Microsoft® Access® 2016 (.*accdb*) file) and 2) geospatial (ESRI® shape file) provincial coverage. Geospatial data are provided in North American Datum 1983 (NAD83) geographic co-ordinate system using decimal degrees. A user document, a bibliography, and a readme file (that explains the content) are provided. It is important to note that this compilation is **not** intended to be used as a standalone product and the source reference(s) should always be consulted in conjunction with this compilation.

Note: This is the first release in this configuration and it should be considered to be a “beta” version. We welcome comments and suggestions from users regarding changes to the query criteria, report form, etc. Any errors or omissions should be brought to the attention of the Ontario Geological Survey so that they can be corrected, and included in future updates of this compilation. Contact information is provided in the readme document.

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

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

The Geochronology Inventory is a digital geoscience database providing an overview of isotopic age determinations within the province of Ontario. The database contains information on isotopic age determinations from a variety of isotopic systems on rocks from across Ontario. This age information can be used as source data for geographic information systems and earth science analysis for research and mineral exploration.

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

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Describe any Legislated or Legal Authority for Collecting the Data Set: N/A

Select the Level of Privacy for this Metadata Information: Public

Time Coverage: October 16, 2019

Time Coverage Comments: Date of Publication.

Enter or Select the Current Status of the Data Set: Ongoing

Enter or Select the Frequency with which Changes or Additions are Made to the Data Set: As Needed

Enter the retention schedule number: 9999

Retention period or description: MGE

Keywords:

Geological Survey

Geology

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS

Geochronology

Rubidium/Strontium (Rb/Sr)

Uranium/Lead (U/Pb)

Baddeleyite

Zircon

Digital Data Databases Inventory

Geographic Information Systems

GIS

Business Theme:

Geological Survey

Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 57° 00'

South Bounding Latitude: 41° 00'

West Bounding Longitude: -96° 00'

East Bounding Longitude: -73° 30'

Geographic Completeness: irregularly shaped study area - completeness not available

MAPPING INFORMATION

Grid Coordinate System Used: Geographic (Lat, Long)

Map Projection: Decimal Degree

Horizontal Geodetic Datum: NAD83

Vertical Datum: Not Applicable

Horizontal Position Accuracy of Features: Approximate: +/- 500 m. Many reference elements for each record have been derived from field sketches in original publications. For those age determinations extrapolated from OGS maps and reports, measurements were taken from hard-copy products or from geographic positioning satellite information where available. The primary limiting factor for the level of positional accuracy is the scale and detail of the source material. The testing of horizontal accuracy of the source materials is accomplished by comparing the planimetric (X and Y) co-ordinates of that point with the co-ordinates of the same point as defined from a source of higher accuracy.

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. Where available, the source(s) of the data used to compile the Geochronology Inventory record are noted as a field(s) in the database.

Data Source Type: Direct Field Collection, Digital Map Files, Hard-Copy Maps; Published Reports; Scientific Journals, University Theses, Scientific Abstracts; Internal Reports:

Source Data Set Description: Multiple data sources, from 1930 to 2019, were used to compile and categorize information for age determinations across the province.

CONTACT INFORMATION

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METADATA

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