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Muir, T.L. 2013. Ontario Precambrian bedrock magnetic susceptibility geodatabase for 2001 to 2012; Ontario Geological Survey, Miscellaneous Release—Data 273 – Revised.

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Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.

Miscellaneous Release—Data 273 – Revised

Ontario Precambrian Bedrock Magnetic Susceptibility Geodatabase for 2001 to 2012

Compiled by T.L. Muir

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD273-REV

Miscellaneous Release—Data 273 – Revised

Ontario Precambrian Bedrock Magnetic Susceptibility Geodatabase for 2001 to 2012; compiled by T.L. Muir. This digital release contains magnetic susceptibility data compiled from 46 field mapping projects undertaken by the former Precambrian Geology Section (now the Earth Resources and Geoscience Mapping Section, ERGMS) of the Ontario Geological Survey. Almost 29000 sets of outcrop readings were obtained between 2001 and 2012 and are presented in ESRI[®] ArcMap[®] document (.*mx*d), geodatabase (.*mdb*) and shapefile (.*shp*) formats and one spreadsheet (.*csv*) file. Provincial-scale base (map) data for the province boundary (.*mdb*), drainage (.*mdb*) and township/area outlines (.*shp*) are included. A report describing the instrumentation, data acquisition, processing and sources, and data uses is provided in a portable document format (.*pdf*) file along with a template in Microsoft[®] Excel[®] (.*xls*) that is used for entering data in the field. The data are available on 1 DVD.

Readme File: Miscellaneous Release—Data 273 – Revised (MRD 273-Rev)

Ontario Precambrian Bedrock Magnetic Susceptibility Geodatabase for 2001 to 2012

Compiled by T.L. Muir¹

¹Earth Resources and Geoscience Mapping Section, Ontario Geological Survey, Sudbury

MRD 273-Rev contains the following files, listed according to folder names and accompanied by pertinent information:

1_Readme folder:

File: [MRD273-Rev_Readme.pdf](#)

Created/Saved: portable document format

Contents: This file lays out the background for the files included in this MRD. It is recommended that the Report file be read before examining or querying the data so that the reader is familiar with how the data were assembled and what qualifying remarks may be apropos.

2_Metadata folder:

File: [MRD273-Rev_Metadata.pdf](#)

Created/Saved: portable document format

Contents: metadata pertaining to this publication

3_Report folder:

File: [Report_MRD273-Rev_MagSus_2001to2012.pdf](#)

Created/Saved: portable document format

Contents: The report presents the background material for the scope of this MRD; aspects related to the instruments used; acquisition and processing of the collected magnetic susceptibility data; data sources; discussion of results; and references.

4_Data folder (this folder contains the data, organized into “Base Data”, “Geodatabase”, “Shapefile” and “Spreadsheet” subfolders):

Base-Topographic subfolder:

a) Files:

[Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.dbf](#)

[Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.prj](#)

[Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.sbn](#)

[Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.sbx](#)

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.shp

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Province-Townships-Areas.shx

Created/Saved: ESRI ArcMap™ 9.3

Contents: geographic base information, specifically boundaries of townships and areas using an MNDMF shapefile

Co-ordinate system / Datum: GCS North American 1983 / NAD83

b) Files:

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.dbf

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.prj

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.sbn

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.sbx

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.shp

Basemap_MRD273-Rev_MagSus_2001-2012_ON_Grid_Lat-Lon_UTM_Zones15-18.shx

Created/Saved: ESRI ArcMap™ 9.3

Contents: geographic base information, specifically UTM 6-degree grid for zones 15, 16, 17, and 18

c) File: *Basemap_MRD273-Rev_MagSus_2001-2012_ON_Drainage_Rivers-Lakes.mdb*

Created/Save: ESRI ArcMap™ 9.3

Contents: geographic base information, specifically provincial boundary and drainage (lakes, rivers) personal geodatabase feature classes in a personal geodatabase feature data set derived from components of a Land Information Ontario (LIO) file

Co-ordinate system / Datum: GCS North American 1983 / NAD83

Geodatabase subfolder:

File: *Geodatabase_MRD273-Rev_Mag-sus_2001-2012.mdb*

Created/Saved: ESRI ArcMap™ 9.3

Contents: magnetic susceptibility data as a geodatabase

Shapefile subfolder:

Files:

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.dbf

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.prj

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.sbn

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.sbx

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.shp

Shapefile_MRD273-Rev_Mag-Sus_2001-2012.shx

Created/Saved: ESRI ArcMap™ 9.3

Contents: magnetic susceptibility data as a shapefile

Caution! Exporting data to a shapefile is not recommended because:

- 1) This will result in conversion of null values (i.e., magnetic susceptibility readings that were not taken or were removed in the QA/QC process), which are displayed as "<null>" in ArcMap™, to a value of "0.0" (zero);
- 2) This will render distinction between actual readings of "0.00" (zero) indistinguishable from actual null values);
- 3) This will negatively modify the results of some statistical parameters calculated from the data; and
- 4) The changes are irreversible.

Spreadsheet subfolder:

File: *Spreadsheet_MRD273-Rev_MagSus_2001to2012.csv*

Created/Saved: by opening the ArcMap™ geodatabase file in Microsoft Access® 2003 (SP3), exporting it as a comma delimited.csv file)

Contents: magnetic susceptibility data as a spreadsheet

5_GIS folder:

File: *ArcMap_MRD273-Rev_MagSus_2001to2012.mxd*

Created/Saved: ESRI ArcMap™ 9.3

Contents: complete ArcMap document created for MRD273-Rev, displayed as geographic coordinate system, NAD 83, decimal degrees.

6_Template folder:

File: *Template-2012_MRD273-Rev_Mag-Sus_2001-2012_for-FieldData.xls*

Created/Saved: Microsoft Excel® 2003 (SP3)

Contents: copy of a blank template used in 2012 for entering magnetic susceptibility data – it includes a) pick list features and conditional formatting in one worksheet; and b) lists of pick list choices in another worksheet.