

User Guide
for
Ontario Elevation Data Index
LIO Data Class

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Additional Information

For more information about this document, please contact Spatial Data Infrastructure at sdi@ontario.ca.

Executive Summary

Key Words

Spatial Data Infrastructure, Digital Elevation Model, Elevation, Imagery, Satellite Imagery, Remote sensing, Elevation, Contour, Orthophoto, Orthophotography, Aerial Photography, Digital Terrain Model, Raster, Orthoimagery.

Abstract

The Ontario Elevation Data Index contains the spatial boundaries of elevation products available across Ontario. The index contains the product name, description, start year, end year, format, data owner, distributor, license restrictions, accuracy reference and spatial resolution.

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List of Acronyms

DEM: Digital Elevation Model

DTM: Digital Terrain Model

GIS: Geographic Information System

LIO: Land Information Ontario

MNRF: Ontario Ministry of Natural Resources and Forestry

OGF: Ontario Geospatial Feature

OPS: Ontario Public Service

SDI: Spatial Data Infrastructure

TIFF: Tagged Image File Format

1. Product Description

The Ontario Elevation Data Index allows users to discover the extents and the metadata associated with elevation products within the province of Ontario. The index benefits LIO staff when advising clients on the extents of elevation data sets as well as directing users to detailed metadata records to assist with information management requirements. It allows elevation data users to make informed decisions when planning for elevation data acquisitions thus avoiding duplication of effort, i.e. reacquiring previously captured data.

1.1 Geographic Extent

The Ontario Elevation Data Index contains spatial boundaries covering the entire province of Ontario.

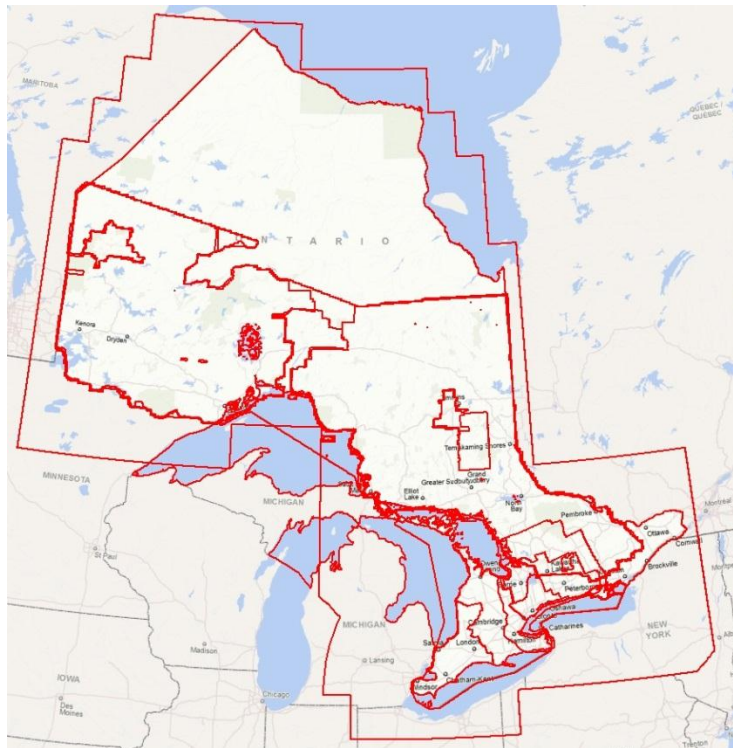


Figure 1: Spatial Extent of the Ontario Elevation Data Index

1.2 Reference System

The Ontario Elevation Data Index contains the accuracy reference of each elevation products it references. Specific reference details can be found in the metadata of each individual elevation product.

1.3 Resolution

The Ontario Elevation Data Index contains the spatial resolution of each elevation products it references. Specific resolution details can be found in the metadata of each individual elevation product.

2. Product Details

The Ontario Elevation Data Index is a reference for available elevation products in Ontario. It is updated periodically as new elevation products become available.

2.1 Data Dictionary Table

Column Name	Column Type	Mandatory	Short Name	Description
OGF_ID	NUMBER (13, 0)	Yes	OGF_ID	A unique numeric provincial identifier assigned to each object.
PRODUCT_NAME	VARCHAR2 (254)	Yes	PROD_NAME	The full name of the data product, e.g. Greater Toronto Area Digital Elevation Model 2002.
PRODUCT_DESCRIPTION	VARCHAR2 (254)	Yes	PROD_DESC	Description of the product as it applies to the resulting data, e.g. DEM interpolated from terrain using elevation points and original vector data.
START_YEAR	VARCHAR2 (4)	No	START_YR	The first year of the acquisition of the data. If the product was derived from a product then the year of acquisition of the original data is entered not the year that the derivative product was created, e.g. 2002.
END_YEAR	VARCHAR2 (4)	No	END_YR	The last year of the acquisition of the data. If the product was derived from a product then the year of acquisition of the original data is entered not the year that the derivative product was created, e.g. 2004.

Column Name	Column Type	Mandatory	Short Name	Description
DATA_FORMAT	VARCHAR2 (254)	No	FORMAT	Description of the data format, could be more than one format type, size, etc., e.g. 20km tiles, TIFF Format
DATA_OWNER	VARCHAR2 (254)	No	DATA_OWN	Identifies the licensed owner of the data. Can be different than the Data Distributor. If the Data owner is a section within a larger organization identify the organization first followed by the section, e.g. MNR Spatial Data Infrastructure Unit.
DATA_DISTRIBUTOR	VARCHAR2 (254)	No	DATA_DISTR	Identifies who the contact is for distribution.
LICENSE_RESTRICTION	VARCHAR2 (100)	No	LICENSE	Identifies whether the product is open or has restricted use, or if availability is unknown e.g. Open Data, Available for Purchase, Restricted to Public, unknown please contact data owner etc.
ACCURACY_REFERENCE	VARCHAR2 (254)	No	ACC_REF	Identification of what the data product was intended to capture in relation to derivative products. Can be in the absence of or in addition to an absolute stated accuracy, e.g. Intended to achieve 0.5m contours with 30cm accuracy.
SPATIAL_RESOLUTION	VARCHAR2 (100)	No	SPA_RES	The description of the spatial resolution of the elevation product if it is a raster product or an imagery product.

Column Name	Column Type	Mandatory	Short Name	Description
METADATA_LINK	VARCHAR2 (254)	No	META_LINK	The web url for the data products metadata record. If the metadata for the product is hosted online, such as with the Land Information Ontario Metadata Management Tool, include the link.
GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPD_DT	Date/time the geometry was created or last modified in the source database.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE
SHAPE	GEOMETRY	No	SHAPE	Geometry attribute

2.2 Data Delivery Format

The Ontario Elevation Data Index is currently stored and distributed as an ESRI shapefile that can be downloaded from [Land Information Ontario \(LIO\) Metadata Tool](https://www.javacoeapp.lrc.gov.on.ca/geonetwork?uuid=5577a80d-e092-42a4-b8b5-10dd2c3cd33c) (https://www.javacoeapp.lrc.gov.on.ca/geonetwork?uuid=5577a80d-e092-42a4-b8b5-10dd2c3cd33c).

2.3 Use Restrictions

The Ontario Elevation Data Index is Open Data and has no restrictions.

3. Model Diagram: Ontario Elevation Data Index

Model Effective Date: 2015-JAN-14

ONT_ELEVATION_DATA_INDEX_FT		
LOGF ID	NUMBER(13)	NOT NULL
PRODUCT NAME	VARCHAR2(254)	NOT NULL
PRODUCT DESCRIPTION	VARCHAR2(254)	NOT NULL
START YEAR	VARCHAR2)	NULL
END YEAR	VARCHAR2)	NULL
DATA FORMAT	VARCHAR2(254)	NULL
DATA OWNER	VARCHAR2(254)	NULL
DATA DISTRIBUTOR	VARCHAR2(254)	NULL
LICENSE RESTRICTION	VARCHAR2(100)	NULL
ACCURACY REFERENCE	VARCHAR2(254)	NULL
SPATIAL RESOLUTION	VARCHAR2(100)	NULL
METADATA_LINK	VARCHAR2(254)	NULL
GEOMETRY_UPDATE_DATETIME	DATE	NULL
EFFECTIVE DATETIME	DATE	NOT NULL
SYSTEM DATETIME	DATE	NOT NULL
SHAPE	SDO_Geometry	NULL

Figure 2: Model Diagram for Ontario Elevation Data Index

4. Links to Additional Information

- Official LIO Metadata Record for [Ontario Elevation Data Index](https://www.javacoeapp.lrc.gov.on.ca/geonetwork?uuid=5577a80d-e092-42a4-b8b5-10dd2c3cd33c)
(<https://www.javacoeapp.lrc.gov.on.ca/geonetwork?uuid=5577a80d-e092-42a4-b8b5-10dd2c3cd33c>)

APPENDIX A: Frequently Asked Questions

How often is the Index updated?

The index is updated as new products are acquired or when notification of availability is received.

Will the index give me access to products?

No, the index is meant to be a discovery tool for available products. Each product lists contact information in order to gain access.

