

# Data Loading

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## Scholars Portal GeoPortal

### Données nouvelles dans ScholarsPortal GeoPortal



#### Central Ontario Orthophotography Project (COOP) 2021 - 1km x 1km coverage

Central Ontario Orthophotography (COOP) was acquired in the spring of 2021 under the best conditions possible to achieve cloud free, snow free, ice free, smoke free and leaf off captures. The orthophotography has a pixel resolution of 20 centimetres and is accurate within 60 centimetres on the ground at 95% confidence. It is provided as 8-bit depth GeoTIFF and compressed GeoTIFF files. The imagery was acquired by an Vexcel UltraCam X and Vexcel UltraCam X Prime digital cameras and was later orthorectified using an elevation dataset generated through image correlation.

Imagery was captured from April 2nd to June 1st, 2021. The project encompassed an area of approximately 49,540 square kilometres covering Central Ontario, including Timmins, Temiskaming Shores, Greater Sudbury, Elliot Lake, North Bay, Lake Nipissing, and Manitoulin Island. This aerial project is part of a five-year plan (2018-2022) to acquire high resolution, leaf-off imagery across the province.

Orthoimagery are available in 1km by 1km coverage tiles. A stereo frame index shapefile will be available in 2022 through Land Information Ontario's GeoHUB.

**Compressed GeoTIFFs:** These images are JPEG-compressed GeoTIFFs, and are suitable for analysis in many cases. Should you require uncompressed TIFF files, these may be requested for download by contacting [geoportal@scholarsportal.info](mailto:geoportal@scholarsportal.info), and providing your name and institution (ex. University of Guelph).

**Please note:** Due to the size of these tiles (~500 MB each), please request a portion of the data only. This can be done by including a polygon file of the study area, a description of a desired feature/area (ex. UTM campus), or a screenshot in your e-mail.

#### Mississauga Digital Orthoimagery

This City of Mississauga aerial photography covers the area of Mississauga. The first aerial surveys of Mississauga were undertaken in 1944. Since then, the city has produced aerial photography every five to ten years until 2002, when it became annual.

Data sets pre-2016 contain the lower-resolution JPG version of the imagery for view, and a high-resolution ECW version for direct download (as a complete mosaic). Note that for some of the earlier years, only a direct download is available. 2016 to 2017 provide a download of specific areas of interest as JPG2. For 2018 onwards TIFF image files are provided.

All data prior to 2019 was provided directly by the City of Mississauga. Beginning in 2020, data was provided by First Base Solutions.

#### Southwestern Ontario Orthophotography Project (SWOOP) 2020 - 1km x 1km coverage

South Western Ontario Orthophotography Project (SWOOP) imagery was acquired in the spring of 2020 under the best conditions possible to achieve cloud free, snow free, ice free, smoke free, and leaf off captures. The orthophotography has a pixel resolution of 16cm and is accurate to 45 centimetres on the ground at 95%. The imagery was acquired by an Vexcel UltraCam X and Vexcel UltraCam X Prime digital cameras and was later orthorectified using an elevation dataset generated through image correlation.

Imagery was captured from March 7th to May 20th, 2020. The project encompassed an area of approximately 44,828 square kilometers covering South Western Ontario, including Windsor, London, Hamilton, Niagara, Owen Sound, the Bruce Peninsula and surrounding areas. This aerial project is part of a five-year plan (2018-2022) to acquire 16 cm resolution, leaf-off imagery across the province.

Orthoimagery are available in 1km by 1km coverage tiles. (Stereo data is also available through Land Information Ontario.)

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#### Historical Topographic Maps: 1:50,000 Index

This topographic map index is a finding aid for Ontario sheets of the 1:50,000 series of the National Topographic System (NTS) Historical Topographic Maps of Canada. Production on this series began in 1950 and continues today. This digitized collection includes over 2700 individual topographic map sheets for the Province of Ontario produced between 1950 and 2011. Maps cover mostly populated and border regions, and show both natural and man-made features such as relief, spot heights, administrative boundaries, secondary and side roads, railways, trails, wooded areas, waterways including lakes, rivers, streams and rapids, bridges, buildings, mills, power lines, terrain, and land formations.

Once this index is added to the map, clicking on the index tiles will indicate the topographic map coverage. This allows early topographic maps to be found based on regions of interest. When a tile is selected, this search box will populate with all relevant maps that include coverage of the selected area, in chronological order. Maps can then be viewed on the map sheet, downloaded, or explained in greater detail.

### **Historical Topographic Maps: 1:63,360 Index**

This topographic map index is a finding aid for Ontario sheets of the 1:63,360 series of Historical Topographic Maps of Canada. This series was produced between 1906 and 1953, and includes nearly 500 individual topographic map sheets for the Province of Ontario. Maps cover mostly populated and border regions, and show both natural and man-made features such as relief, spot heights, administrative boundaries, roads, railways, trails, waterways, bridges, buildings, mills, power lines, terrain, and land formations.

Once this index is added to the map, clicking on the index tiles will indicate the topographic map coverage. This allows early topographic maps to be found based on regions of interest. When a tile is selected, this search box will populate with all relevant maps that include coverage of the selected area, in chronological order. Maps can then be viewed on the map sheet, downloaded, or explained in greater detail.

### **University of Toronto Daniels Faculty Lidar**

This dataset was deposited by Sky Analytics Inc. A live drone demo in collaboration with the Daniels Faculty was conducted in May 2021. The objective of the demo was to provide insight as to how drones with various payload configurations can be valuable spatial data collection tools for localized sites. An accompanying video is available on YouTube, here: <https://www.youtube.com/watch?v=rmBjgnOvxOA&t=124s> The dataset is comprised of two data files. One is a mobile scan captured by a vehicle mounted with a LIDAR system and a UAV Calibrated file that is a classified point cloud dataset capture with a drone-mounted system.



John H. Daniels Faculty of Architecture, Landscape and Design LiDAR Scan by [Sky Analytics Inc. and Altitude Geospatial Inc.](#) is licensed under a [Creative Commons Attribution-NonCommercial 4.0 International License](#).

See also <https://dataverse.scholarsportal.info/dataset.xhtml?persistentId=doi:10.5683/SP3/XNN0M2>

### **OC Transpo Transit Routes**

Individual vector transit routes for OC Transpo (Ottawa, Ontario) between 1929 and 2019. The transit route files were digitized at Carleton's MacOdrum Library using ArcMap with scanned transit maps from OC Transpo and Ottawa and Gatineau open data files. The following information was collected for each transit route: Route Number, Route Type (Regular, Peak, Express, Rural, etc.), Mode of Transportation (bus, train), Year.

### **Kingston Road Segments**

The City of Kingston open data collection contains very detailed topographic and planning information clipped to the City of Kingston's municipal boundary.

This data set contains a representation of the centreline street network in the City of Kingston, Ontario.

This data can be used to identify roads and information about roads across the City. The layer includes naming, addressing, number of lanes, traffic flow, and road class where available.

### **Region of Waterloo Orthophoto Imagery, 2018**

The 2018 Region of Waterloo digital mapping data contains very detailed topographic and planning information clipped to the Region of Waterloo boundary.

Aerial imagery acquired by First Base Solutions Inc. on May 1, 7, 8, 2018 at a resolution of 12cm. The dataset covers approximately 1500 square kilometers. Imagery copyright First Base Solutions Inc., for more information contact [info@firstbasesolutions.com](mailto:info@firstbasesolutions.com).

### **Region of Waterloo Orthophoto Imagery, 2020**

The 2020 Region of Waterloo digital mapping data contains very detailed topographic and planning information clipped to the Region of Waterloo boundary.

Aerial imagery for the Waterloo Region captured May 1st and 3rd 2020 at a ground resolution of 10cm

### **Kingston Civic Addresses**

The City of Kingston open data collection contains very detailed topographic and planning information clipped to the City of Kingston's municipal boundary.

This data set contains a representation of civic addresses throughout the City of Kingston, Ontario.

Addresses may represent properties, individual buildings, and/or other structures and are updated on an ongoing basis. The layer includes postal code, street, electoral district, neighbourhood, and waste remove scheduling where available

### **Durham Region Orthophoto Imagery, 2020**

The 2020 Durham Region digital mapping data contains very detailed topographic and planning information clipped to the Durham Region boundary.

Orthophoto imagery for Durham Region captured by First Base Solutions Inc. on April 2nd and 25th 2020 at a ground resolution of 15cm

### **City of Brampton Orthophoto Imagery, 2020**

The 2020 City of Brampton digital mapping data contains very detailed topographic and planning information clipped to the City of Brampton municipal boundary.

Orthophoto imagery for the City of Brampton captured by First Base Solutions inc. on May 22, 31, June 1, 2020 at a ground resolution of 15cm

### **City of Toronto Orthophoto Imagery, 2020**

The 2020 City of Toronto digital mapping data contains very detailed topographic and planning information clipped to the City of Toronto municipal boundary.

Orthophoto imagery for the City of Toronto captured by First Base Solutions Inc on March 21, 27, April 1, 2, 6 2020 at a ground resolution of 8cm

### **City of Guelph Orthophoto Imagery, 2020**

The 2020 City of Guelph digital mapping data contains very detailed topographic and planning information clipped to the City of Guelph municipal boundary.

Orthophoto imagery for the City of Guelph captured by First Base Solution Inc on May 1st and 3rd 2020 at a ground resolution of 10cm

### **Vegetation Index Region**

Index grid for Vegetation layers

### **Correctional Facilities**

This layer includes the locations of Federal and Provincial correctional facilities. It includes both government and military run facilities.

### **Roads Proposed Highway Completion Dates Table**

This table contains the estimated opening dates for carto 8 road segments, where this information is available. Please note that accuracy may be rough due to the variable nature of construction schedules.

Additional tables and supporting documentation are available in the Data Dictionary and User Manual.

### **South Central Ontario Orthophotography Project (SCOOP) 2013**

SCOOP digital imagery was collected with sensor Leica geosystems ADS80 SH82 for areas of Ontario between April 26th and May 7th 2013.

The project encompassed an area of approximately 35,762 square kilometers, covering parts of South Central Ontario including Peterborough, Haliburton, Muskoka, Simcoe and surrounding areas.

A Leica ADS80 SH82 Digital Camera system including an inertial measuring unit (IMU) and a dual frequency airborne GPS receiver was used for the digital image acquisition. Imagery acquisition was performed at 1,920m AMT (above mean terrain) to produce 20cm GSD RGBNiR orthorectified imagery and related products. Ground control survey was also collected by Fugro.

Orthoimagery are available in 1km by 1km coverage tiles in JPG2000 and TIFF image file format.

### **Digital Raster Acquisition Project Eastern Ontario (DRAPE) 2019**

Digital Raster Acquisition Project Eastern Ontario (DRAPE) was acquired in the spring of 2019/2020 under the best conditions possible to achieve cloud free, snow free, ice free, smoke free, and leaf off captures. The orthophotography covers 36,103 sq km, has a pixel resolution of 16cm and is accurate to 45 centimetres on the ground at 95%. The imagery was acquired by an Vexcel UltraCam X and Vexcel UltraCamEagle digital cameras and was later orthorectified using an elevation dataset generated through image correlation.

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### **Toronto Property Data Maps, 2019**

This series combines topography and parcel mapping, and provides a base for thematic mapping services and other published hardcopy products. Depicts the following features: building envelopes, building outlines, railway lines, major watercourses, municipal addresses, curbs, park names, street names, property lines, right of way, boundaries, etc.

The datasets included are:

- Lines
- Points
- Polygons
- Text

**To download Autocad files containing original layers:** Add a dataset to the map viewer (ex. "Lines"). Click the *download* tab and select *download by area of interest*. Select your desired area and choose *Autodesk AutoCAD* as the output format. If AutoCAD is not selected, the default output format is shp.

**An index grid** is also available to add to the map viewer, should you wish to download all datasets by tile in DWG Format.

### **Mississauga Spot Height Elevation**

The City of Mississauga digital mapping data contains very detailed topographic and planning information clipped to the City of Mississauga municipal boundary based on a scale of 1:2,000.

This data set contains spot height elevations of the City of Mississauga, Ontario.

### **Toronto Property Data Maps, 2013**

Index grid for Toronto Property Data Maps (PDM), 2013.

This series combines topography and parcel mapping, and provides a base for thematic mapping services and other published hardcopy products.

Depicts the following features: building envelopes, building outlines, railway lines, major watercourses, municipal addresses, curbs, park names, street names, property lines, right of way, boundaries, etc.

### **Toronto Property Data Maps, 2018**

Index grid for Toronto Property Data Maps (PDM), 2018.

This series combines topography and parcel mapping, and provides a base for thematic mapping services and other published hardcopy products.

Depicts the following features: building envelopes, building outlines, railway lines, major watercourses, municipal addresses, curbs, park names, street names, property lines, right of way, boundaries, etc.

### **Toronto Property Data Maps, 2015**

Index grid for Toronto Property Data Maps (PDM), 2015.

This series combines topography and parcel mapping, and provides a base for thematic mapping services and other published hardcopy products.

Depicts the following features: building envelopes, building outlines, railway lines, major watercourses, municipal addresses, curbs, park names, street names, property lines, right of way, boundaries, etc.

### **COVID-19 Canada Health Regions Shapefile**

This shapefile represents the boundaries developed for use when aggregating and reporting cases during the COVID-19 pandemic. Boundaries are a mutually exclusive and exhaustive classification of the land area, meaning that they do not overlap with one another (mutually exclusive) and cover all land area in Canada (exhaustive).

Data was built by Prof. Jack Lucas at the University of Calgary, using the Federal data shapefiles, as well as files from the Provinces of British Columbia, Saskatchewan, and Nova Scotia. In some cases, existing regional health areas were used; in others, areas were developed specifically for COVID-19 reporting. Please see additional documentation in Dataverse for more information: <https://dataverse.scholarsportal.info/dataset.xhtml?persistentId=doi:10.5683>

### **South Central Ontario Orthophotography Project (SCOOP) 2018**

South Central Ontario Orthophotography Project (SCOOP) imagery was acquired in the spring and fall of 2018/2019 under the best conditions possible to achieve cloud free, snow free, ice free, smoke free, and leaf off captures. Digital imagery was acquired by an Vexcel UltraCam X and Vexcel UltraCamEagle digital cameras and was later orthorectified using an elevation dataset generated through image correlation. Imagery was captured from March 22, 2018 to May 23, 2018, and from May 6, 2019 to May 27, 2019 (GTA area only). The orthophotography has a pixel resolution of 16 centimetres and is accurate to 45 centimetres on the ground at 95%.

The project encompassed an area of approximately 38,920 square kilometers, covering parts of South Central Ontario including Toronto & the GTA, Peterborough, Haliburton, Muskoka, Simcoe and surrounding areas. This aerial project is part of a five-year plan (2018-2022) to acquire 16 cm resolution, leaf-off imagery across the province.

Orthoimagery are available in 1km by 1km coverage tiles

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### **Mississauga City Mask**

The City of Mississauga digital mapping data contains very detailed topographic and planning information clipped to the City of Mississauga municipal boundary based on a scale of 1:2,000.

This data set contains a mask of the City of Mississauga, Ontario.

### **Mississauga Street Name Listing**

The City of Mississauga digital mapping data contains very detailed topographic and planning information clipped to the City of Mississauga municipal boundary based on a scale of 1:2,000.

This data set contains a listing of street names in the City of Mississauga, Ontario.

### **Mississauga Legend**

The City of Mississauga digital mapping data contains very detailed topographic and planning information clipped to the City of Mississauga municipal boundary based on a scale of 1:2,000.

This data set contains a legend of street information for the City of Mississauga, Ontario.