

How to Reference Geospatial Data, Maps, Atlases, Air photos

*To reference course-specific materials, refer to [Course subject guides](#)

GIS Data (vector data acquired from an electronic source, i.e. Scholars GeoPortal, Niagara Open Data website, Map Library local access)

a) Basic Form from **website**:

Database Title [format]. Place of publication: Publisher, Date. Available: Name of site and <URL> (accessed date).

Example:

Ontario Road Network (ORN) [computer file]. Peterborough, ON: Ontario Ministry of Natural Resources, 2010. Available: Scholars GeoPortal <<http://geo2.scholarsportal.info/>> (Accessed January 1, 2013).

b) Basic Form from **local access**:

Data Title [format]. Place of publication: Publisher, date. Available: Local access information (accessed date).

Example:

NPCA Natural Areas Inventory [computer file]. Welland, ON: Niagara Peninsula Conservation Authority, 2011. Available: Brock University Map, Data & GIS Library Controlled Access MapLibrary\DATA\Niagara\NPCA\NPCA_W RIP_largescale\NaturalAreasInventory\ (Accessed March 22, 2013).

Map created using GIS Software (a map you prepared in ArcGIS using multiple data layers)

Basic Form:

Map Title [map]. Scale. Data layers publisher and names [computer files]. Place of publication: Name of person who generated map, date. Using: computer software name [type of software]. Version or edition. Software manufacturer location: Software manufacturer name, date of software release/copyright.

Example:

*Study Area: UTM 520 430 [map]. Scale 1:7,000. Data layers: Regional Municipality of Niagara: roads, points of interest and building footprints; Niagara Peninsula Conservation Authority: rivers, waterbodies and drainage basins; DMTI Spatial: transmission and railways lines; Ontario Ministry of Natural Resources: SOLRIS 2002 [computer files]. Brock University, St. Catharines, ON: Generated by Sarah Holmes, March 18, 2013. Using: *ArcGIS for Desktop Advanced* [GIS]. Version 10.1. Redlands, CA: Esri, 2012.*

Satellite Imagery

Basic Form:

Author. Title or Scene ID, Satellite and sensor name, processing level. Place of publication: Publisher, Date of image collection.

Example:

GeoEye. GeoEye-1 scene 2009073116134721603031606123, Standard Geometrically Corrected, Pansharpened, DRA-off. Aurora, CO: eMap International, July 31, 2009.

Orthoimagery - see [Geospatial Data Fact Sheet](#)

Digital Static Map (Map from a website or other digital collection that cannot be altered)

a) Basic Form from **website**:

Author. Map Title [format]. Scale. "Title of website". <URL> (accessed date).

Example:

Brock University Map Library. *St. Catharines-Niagara Census Tracts: Average Household Income* [map]. Scale [ca.1:200,000]. "Niagara Region 2006 Census Map and Charts".
<http://www.brocku.ca/maplibrary/census/2006/region/Niagara_avg_household_income.pdf>
(Accessed March 3, 2012).

b) Basic Form from **local collection**:

Map Title [format]. Scale, if known. Atlas Name [format]. Place of publication: Publisher, Date. Available: Local access information (accessed date).

Example:

Land Use Strategy: Territorial Sheet 5089 [map]. Scale 1:250,000. Ontario's Living Legacy: approved land use strategy [electronic resource]. Peterborough, ON: Ontario Ministry of Natural Resources, June 1999. Available: Brock University Map, Data & GIS Library Controlled Access Map PC G 3462 N67 G4 1999 O583.

Interactive Map created from a Website (a map you generated from a web site, by adding, removing, or customizing layers, i.e. Niagara Navigator, ArcGIS online, Scholars GeoPortal)

Basic Form:

Author. Title of map created [format]. Layers used. Scale. Name of person who generated map; using "Title of Website" <URL> (accessed date).

Examples:

Regional Municipality of Niagara. *Niagara-on-the-Lake Tourism* [map]. Layers used: Wineries, Historic sites, 2010 Imagery. Scale 1:80,000. Generated by Colleen Beard; using "Niagara Navigator" <<http://maps.niagararegion.ca/Navigator/>> (Accessed March 21, 2013).

ESRI. *Impacts of Europe's Changing Climate* [map]. Layers used: Change in river flow droughts severity 1962-1990, Observed changes in annual precipitation between 1961-2006, Observed temperature change over Europe 1976-2006. Scale [ca. 1:20,000,000]. Generated by Sarah Holmes; using "ArcGIS Online"

<<http://www.arcgis.com/home/webmap/viewer.html?useExisting=1>> (Accessed April 2, 2013).

Map generated using Google Earth

Basic Form:

Google Earth version. (date of imagery). Your Map Title or geographic location. Coordinates, Eye alt. Layer titles. Imagery attributions. <<http://www.google.com/earth/index.html>> (accessed date).

Example:

Google Earth Pro 6.2.1.6014 (beta). (October 5, 2011). *Niagara Region, ON Canada*. 43° 02' 26.22"N, 79° 13' 50.11"W, Eye alt 36 mi. Borders and labels; places layers. NOAA, DigitalGlobe 2013. <<http://www.google.com/earth/index.html>> (Accessed April 1, 2013).

Maps, Atlases & Airphotos

Single Map

Basic Form:

Author. Title [format]. Edition (if indicated). Scale. Place of publication: Publisher, Date.

Example:

Brock University Department of Geography Cartography Office. *Sub-appellations of the Niagara Peninsula Wine Region* [map]. Scale 1:60,000. St. Catharines, ON: Brock University Department of Geography, 2005.

Atlas Citation

Basic Form:

Author. Title. Edition (if indicated). Place of publication: Publisher, Date.

Example:

Stooke, Philip J. *The International Atlas of Mars Exploration: the first five decades*. Volume 1. New York, NY: Cambridge University Press, 2012.

Map in a Topographic Series

Basic Form:

Author. Sheet title, number [format]. Edition. Scale. Series title. Place of publication: Publisher, Date.

Example:

Centre for Topographic Mapping. *Niagara, 30M/3 & 30M/6* [map]. Edition 7. Scale 1:50,000. Canada 1:50,000. Ottawa, ON: Natural Resources Canada, 1996.

Map in a Thematic Series

Basic Form:

Author. Sheet title, number [format]. Edition (if indicated). Scale. Series title. Place of publication: Publisher, Date.

Example:

Ontario Institute of Pedology. *Soils of West Lincoln, Regional Municipality of Niagara, Ontario, Sheet 1* [map]. Scale 1:25,000. Soils of the Regional Municipality of Niagara, Ontario. Guelph, ON: The Institute, 1989.

Map in a Book

Basic Form:

Map Author (if different than book). Map title [format]. Scale. Place of publication: Publisher, Date (if different than book). In: Book Author. Book title. Edition. Place of Publication: Publisher, Date, page (if numbered).

Example:

North Planning District Schedule E1 [map]. Scale [ca.1:20,000]. In: The City of St. Catharines. *The Garden City Plan*. St. Catharines, ON: City of St. Catharines, Planning Services Department, 2010.

Map in an Atlas

Basic Form:

Map Author. *Map title* [format]. Scale. Map date (if different than atlas). In: Atlas Author. *Atlas title*. Edition. Place of publication: Publisher, Date, page.

Example:

Collins Geo. *Access to Water* [map]. Scale [ca.1:100,000,000]. In: The World Bank. *Atlas of Global Development*. Edition 3. Bishopbriggs, Glasgow: HarperCollins, 2011, p. 110-111.

Air Photo (refer to individual flight line indexes)

Basic Form:

Source. [*Title*] [format]. Scale. Line/roll number. Photo number. Place of publication: Publisher, Date.

Example:

National Air Photo Library. [*Niagara*] [air photo]. 1:30,000. B83-30 168-8. Photo 137. Ottawa, Ontario: Department of Energy, Mines and Resources, 1983.

Sources:

Kollen, Christine, Shawa Wangyal, Mary Larsgaard. *Cartographic Citations: A Style Guide*. Second Ed. Chicago: American Library Association, Map and Geography Round Table, 2010.

Woods, Alberta. 2012. *ACMLA recommended best practices in citation of cartographic materials*. Association of Canadian Map Libraries and Archives, Bibliographic Control Committee.
<http://www.acmla.org/docs/ACMLA_BestPracticesCitations.pdf> (Accessed April 1, 2013).

Ohio Westlayan University Libraries <http://library.owu.edu/citing222.htm>

RMIT University. *Harvard Referencing guide for visual material*.
<http://rmit.libguides.com/content.php?pid=220068&sid=1827564> (Accessed April 1, 2013).

Global Landcover Facility, University of Maryland. <http://glcf.umd.edu/data/landsat/>