

ERSC 4P31 Watershed Study & Assessment

MAPS & GEODATA WEBSITE: <https://brocku.ca/library/collections/mdg/maps-geodata/>

INFORMATION RESOURCES & MAPPING TOOLS

Niagara Air Photos: <http://arcg.is/1eebOG>

All flight line indexes

Historical imagery 1921 – 1968 can be viewed from the website

Orthoimagery 1995 - 2015 can be viewed from the website

This is an essential source for Niagara imagery

Provides an excellent resource for detecting landscape changes over a time period

Traditional air photo retrieval instructions are posted on the index cabinet

(Air photo interpretation for identifying certain features will be essential)

Paper Maps:

[Topographic Maps of Niagara](#) date from 1904 to late 1990's (1:50k; 1:25k)

[Niagara Historical Map Gallery](#) is rich in 18 and 19c maps, older city plans of Niagara


NPCA Watershed Explorer: <https://bit.ly/2tJUNSc>

Best source for viewing:

- Thematic layers related to watershed management: ELC Community Natural Areas [NAI]: a classification of natural areas, i.e marsh; forest, etc.; Water quality Network, and Groundwater Network (*Watershed Monitoring*)
- 2010/2015 imagery, Watershed Planning Areas, Subwatersheds (*Boundaries*)
- Contour interval is 1 metre.
- NPCA Conservation Watershed website <https://npca.ca/conservation>

[Ontario Flow Assessment Tool](#): OFAT creates watersheds, calculates watershed characteristics, executes hydrology models and reports water flow statistics. ***Good tool for mapping data sampling sites; adding annotation; creating boundaries.

[Google Maps](#)

Useful for navigating and viewing areas using 'Street View' 

'Earth' view (bottom left corner) can also be useful for viewing some of the most recent imagery

[Mapping GPS Data](#) – a tutorial for using GPS to capture data sampling sites and mapping them in a GIS, or other mapping tool. [ArcGIS Online](#) also accepts a CSV data file for mapping x, y data.

[HOW TO Reference Maps & air photos](#) (pdf)