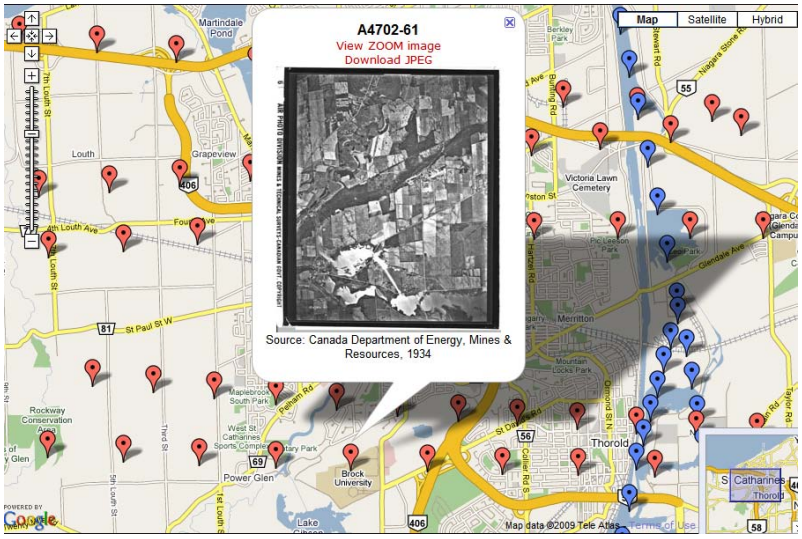
BROCK UNIVERSITY MAP LIBRARY

MY GOOGLE EARTH

Step 1: Downloading an Air Photo

From the Map Library website www.brocku.ca/maplibrary

1. Link to the **Air Photo Index** page -> link to the **1934** air photos. A map of Niagara will appear.
2. The 1934 air photos of Niagara are organized by municipality. Click on St. Catharines.
3. An index will appear in a Google Map showing a red/blue place-marker for each air photo.
4. Navigate to Brock University using the pan tool and "click and drag" method.
5. Select the red bubble over Brock. A thumbnail image will appear with two options: to view or to download.
6. Select the **Download JPEG** option from the thumbnail window; a new window will open.



7. Right click on the image and select ***Save Picture As...*** Navigate to **My Documents** and save the image.

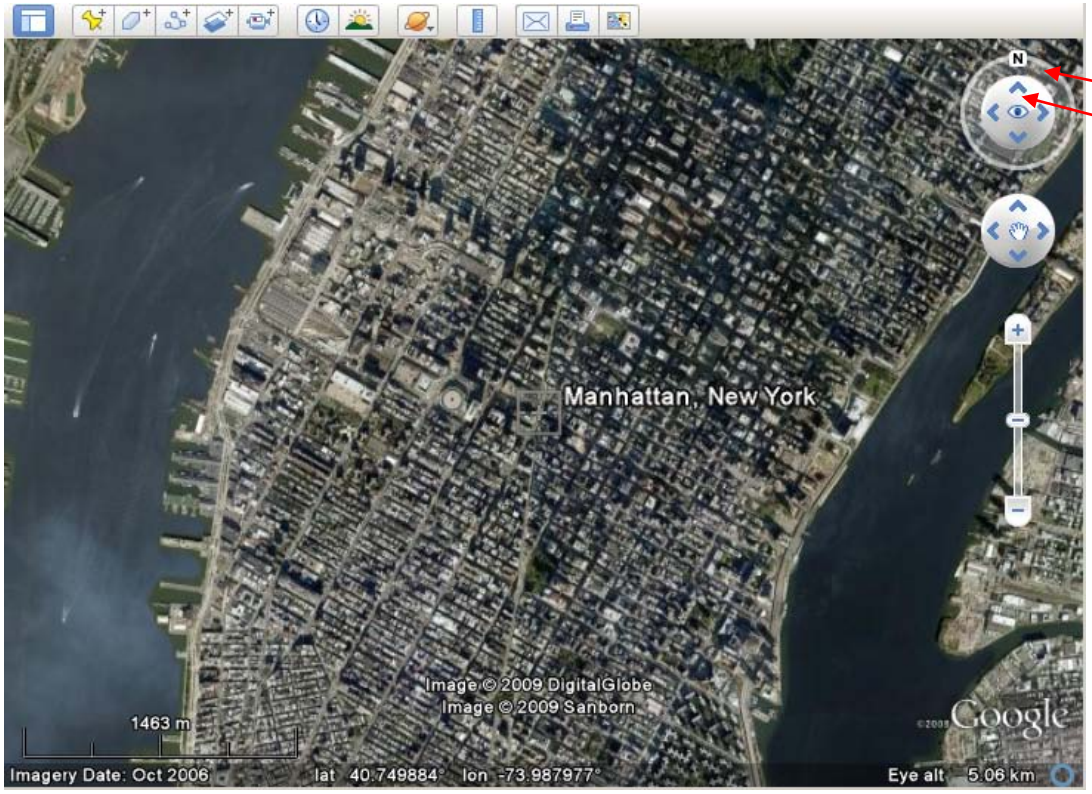
Step 2: Google Earth Basics

Using Google Earth as a backdrop, overlay photos, aerial views or map images to complement the existing earth view. With a few quick steps you will be creating a unique collection of resources to share with colleagues and friends.

Google Earth is a free download available from http://earth.google.com/

1. Run Google Earth and enter "Manhattan, NY" in the ***Fly to*** search box. Google Earth will zoom to the location.
2. To shift the view, click and drag the map. Zoom, pan and tilt tools are available to the right of the screen.
3. To "throw" the map click, drag and release to set the world spinning. Click once on the map to stop spinning.

See the following image for a sample view of the Google Earth viewer.

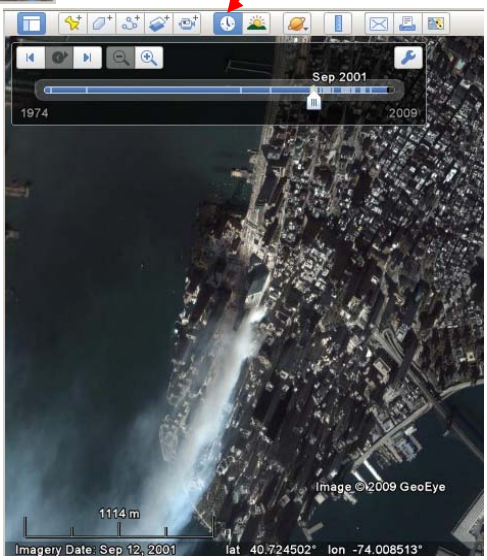


Rotate and *tilt* tools

Pan tools

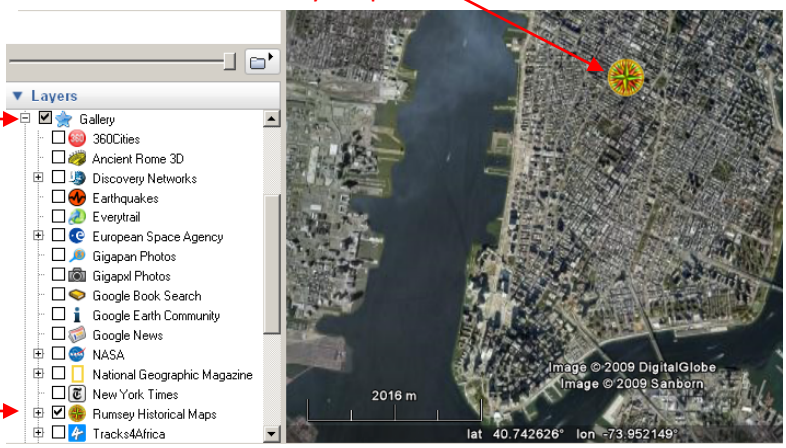
Zoom tools

Timeline



4. Click the clock icon at the top to open the *Timeline* function.
5. Pan to southern Manhattan then drag the time slider to view historical imagery. Dates of imagery appear on the slider when available.
6. Click the clock icon to close the Timeline function and return to current Google imagery.

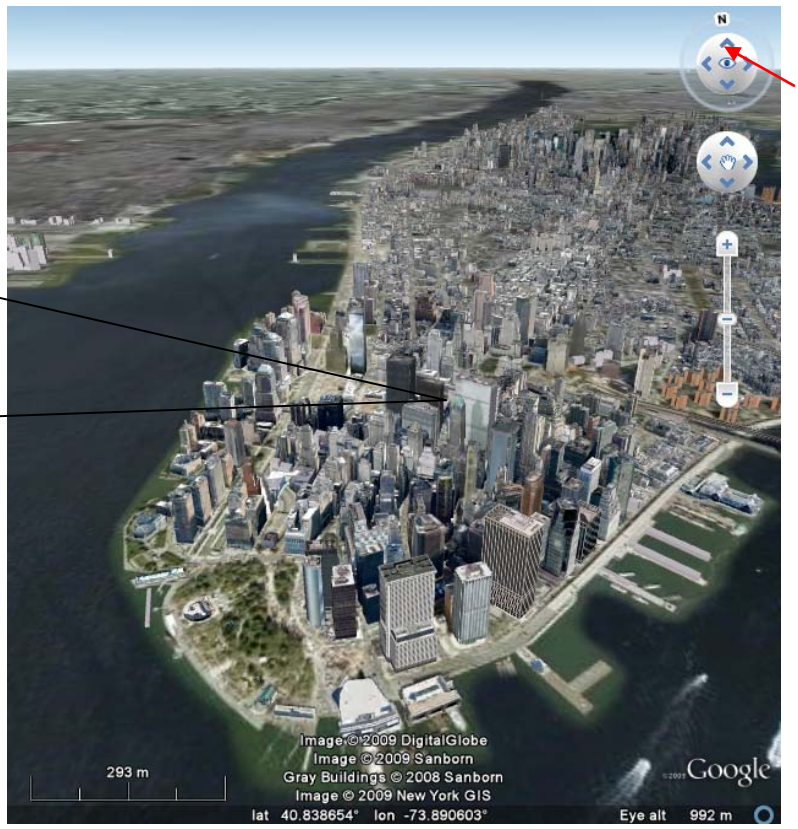
Rumsey Map Icon



7. From the *Layers* listing on the left, expand the *Gallery* and check the *Rumsey Historical Maps*.
8. Click the *Rumsey Map icon.* An information window appears. Click the thumbnail image to add the historical map to Google Earth.

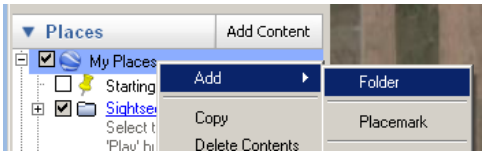
9. Use the *Transparency slider* to view the Google Imagery beneath the Rumsey map. Notice the historical map is now listed under *Temporary Places* on the left.
10. Zoom and pan tools can be used to see more detail.
11. Turn off the *Rumsey Historical Maps* layer as well as the map layer that appears in *Temporary Places*.

12. Scroll through the list of Layers and turn on *3D Buildings*.
13. Zoom in on southern Manhattan then click and hold the *tilt tool* until you see the horizon.
14. Click on a building to view details about that building.
15. Pan, zoom and rotate the view to explore Manhattan.



Step 3: Adding an Image Overlay

1. To create a new folder for this project, right-click “My Places” and select *Add > Folder.* Provide a folder name and hit *Enter* on the keyboard.



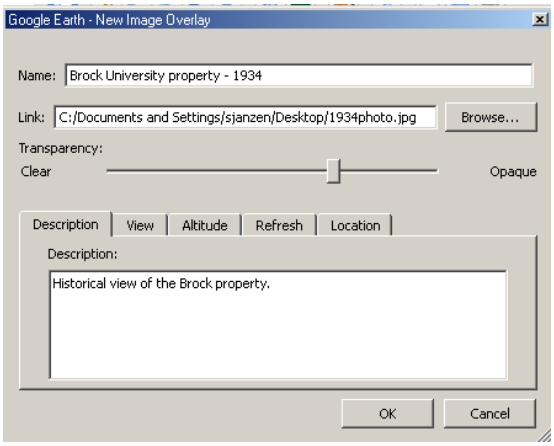
2. With the new folder selected, click the *Add Image Overlay* tool 

3. In the dialogue box, enter a descriptive name in the *Name* field.

4. In the *Link field*, enter the URL address of an image to overlay or use the *Browse* button to locate the image locally (i.e. an image saved to the Desktop).

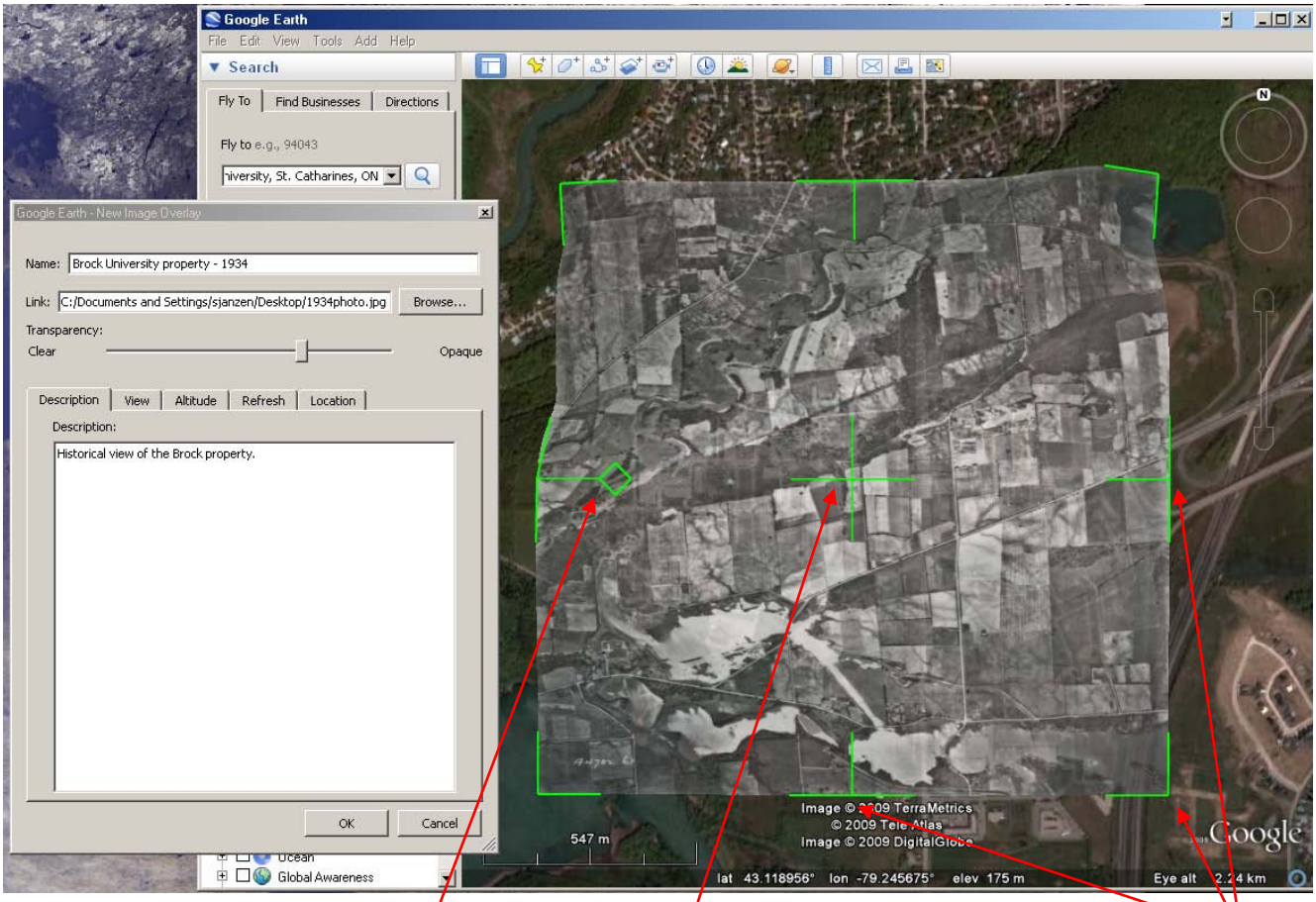
5. Change the transparency of the image by sliding the tab to make the Google imagery visible beneath the overlay.

6. Add a description if necessary.



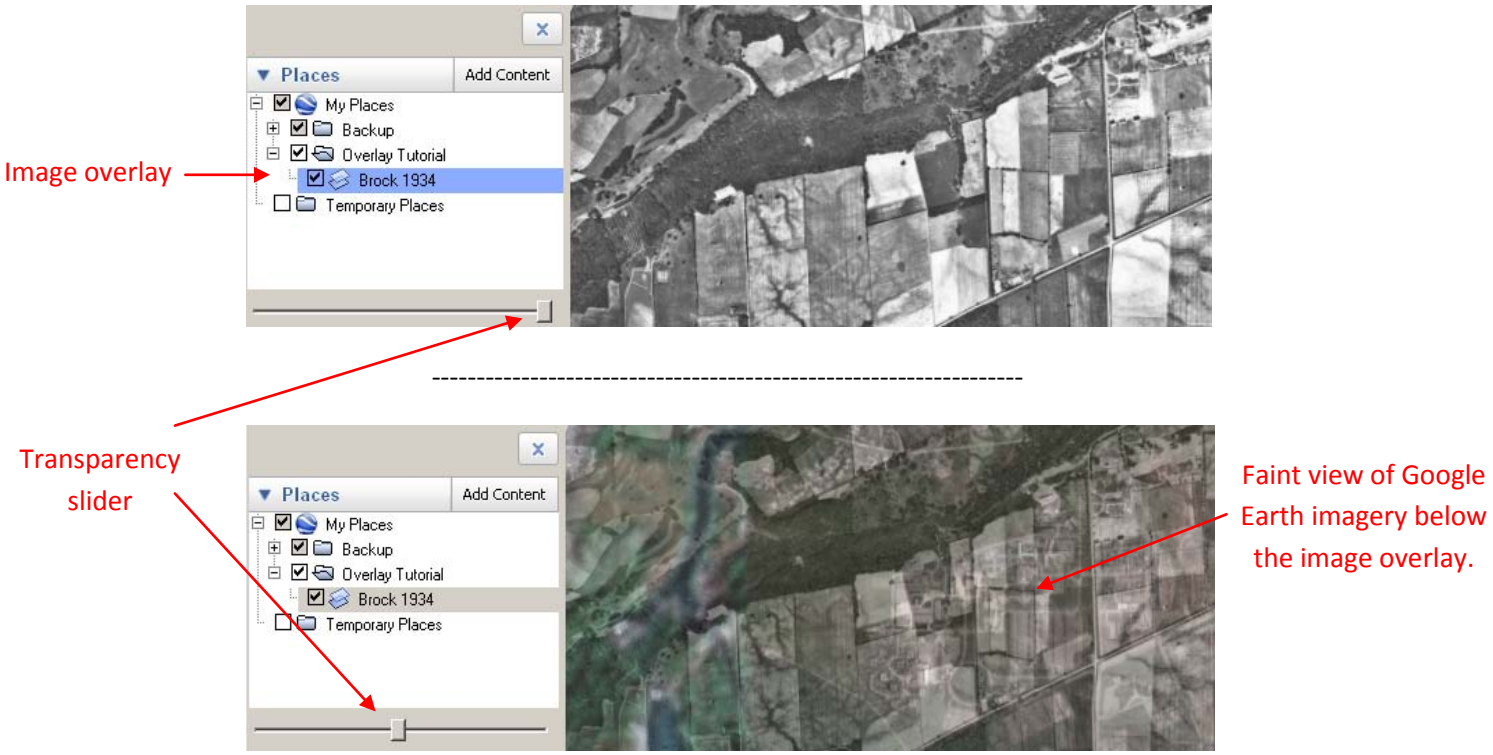
7. Move the *New Image Overlay* window aside to see the Google Earth viewer.

8. Use the green handles to stretch, reposition and rotate the overlay until it matches the imagery beneath. This may take a bit of tweaking to match up the detail.



9. When the adjustments are complete, click OK. The image can be seen in the Google Earth viewer and is listed in the new folder under *My Places*.

10. The image transparency can be modified on-the-fly by selecting the image from the list then dragging the slider below the *Places* listing.



11. To access image properties, right-click the image layer under *Places* and select *Properties*. Adjustments can be made to the image as performed in step 13.

Step 4: Sharing Your Work

Any features or layers that were added to your custom folder can be saved in KML or KMZ (zip) format (native to Google) and shared with the world.

1. To create a KMZ file, right-click on the folder ("Overlay Tutorial" in the above example) and select *Save Place as…*

2. Give the file an appropriate name and click *Save.* This file can be sent via email as an attachment, added to a website as a download link or saved locally for future reference.

3. To view a KMZ /KML file, run Google Earth and select *File > Open*. Navigate to the KMZ/KML file and open. The layers will appear under *Places > Temporary Places.*