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1. Aerial Photos Galore!

Sometimes you get lucky: Marcia Rasmussen mentioned she had a stack of old aerial photographs of the Town, which I was delighted to borrow from her in order to get them into GIS format. When I mentioned this to Delia Kaye, she pulled out a box from her bookcase filled with more – and different – aerial images. What a bonanza!

The imagery dates from the 1940s onward, including 1956, 1960, 1968 (partial – floodwaters), 1970, 1984-1985 (partial) and 1995. We already have more recent imagery available: 2001, 2007, 2013, 2014 and 2016, plus our 2019 flyover coming right up this month. That's almost 80 years of Concord's history, soon to be viewable from your computer screen!

You can view the mosaics in the [Town of Concord webmap](#). Look in the Layers tab, under Base Maps:



...and more to come!

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2. Time Traveling in GIS

A sampler of aerial images moving through time

Annursnac Hill

including its round water reservoir (capped in the 2001 image)

1940s



1970



2001



2016



Concord Greene

1940s



1956



1970



1995



3. How Did You *Do That*!?

Here's how to transform a pile of 9" x 9" photos into a single GIS-viewable image.

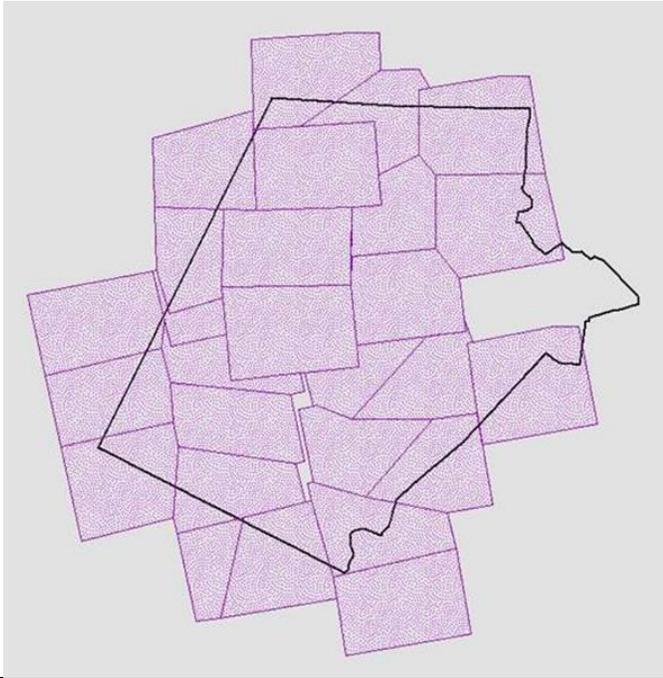


144 images from 1960

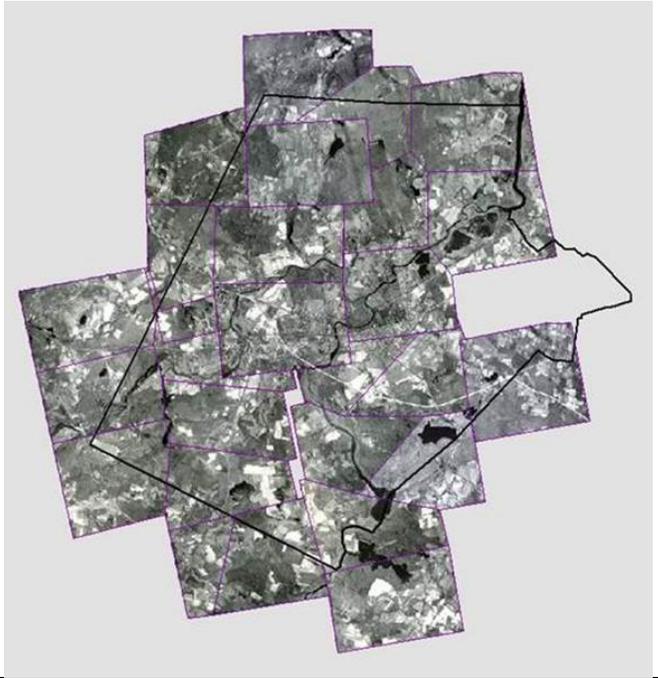
1. Scan each image at high resolution.
2. Georeference each image, associating it with its location – sort of like thumb-tacking it to an existing map.



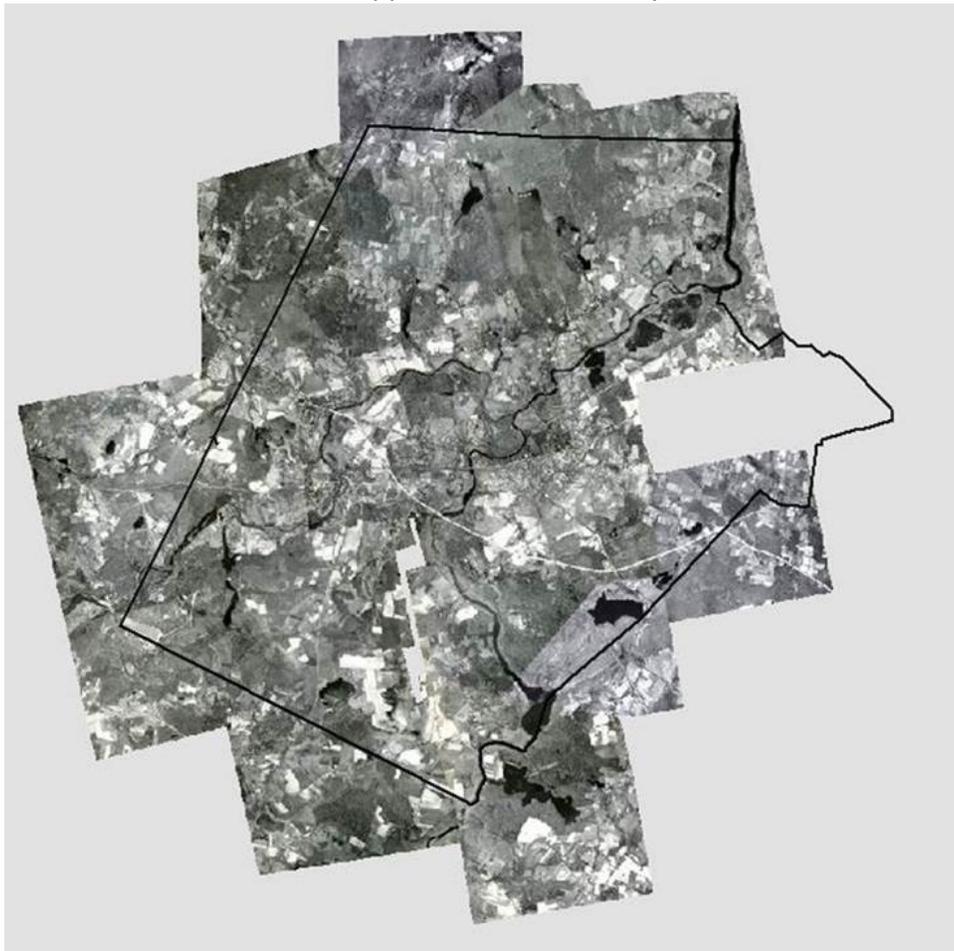
3. Extract image footprints and eliminate overlaps



4. Create a seamless mosaic of images based on the footprints.

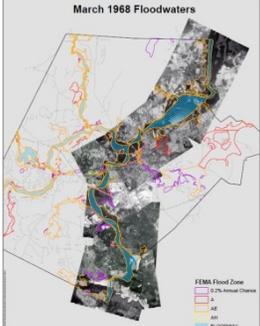


5. Sit back and appreciate the fruit of your labors!



4. Map / App Gallery

CTRL-Click on a thumbnail to view, download or print the full-sized map

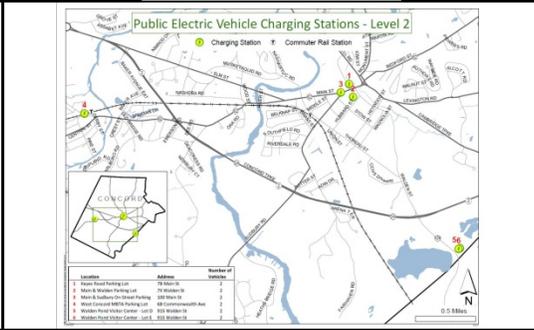
<p>Parking and Commuting App</p>		<p>Displays:</p> <ul style="list-style-type: none"> • <u>Parking</u> areas • <u>Handicapped Parking</u> spaces (on-street) • <u>Rail Trail</u> route and <u>Bike Rental</u> locations • <u>Electric Vehicle Charging Stations</u> • <u>Commuter Rail</u> stations • <u>Roadside Parking</u> regulations (paid/unpaid/time of day) <p>Includes GPS widget showing where you are on the map</p>
<p>Cemetery App</p>		<p>New features!</p> <p>Bookmark widget to jump to other cemeteries</p> <p>Pamphlet hyperlink to an informative guide</p> <p>Tour hyperlink based on a beautiful Story Map developed by Ben Clayman</p>  <p>GPS widget showing where you are on the map</p>
<p>1968 Flood Maps</p>	 	<p>The great flood of 1968 inundated Maynard and washed away Concord's Sudbury Road bridge. These floods resulted in several upstream flood control projects on the Assabet River and its major tributary, Elizabeth Brook.</p> <ul style="list-style-type: none"> • Click on the top image to view a series of <u>oblique</u> views taken along the Sudbury River. (The thumbnail looks east over Sudbury Rd to Nashawtuc Country Club). The images were taken as infrared, to emphasize the water. • Click on the lower image for a mosaic of <u>overhead aerial</u> imagery. This imagery is also available on ArcGIS and WebGIS (Staff Map).

Rail Trail Bridge over Route 2



The recently-completed 100% plan for the Bruce Freeman Rail Trail bridge over Route 2 has been used to update our Rail Trail layer.

EV Charging Stations



With recent additions at Walden Pond, Concord now has six Electric Vehicle charging stations, each capable of charging two cars.

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