



Future @ MAGIC

What is MAGIC?

- University of Connecticut Libraries Map and Geographic Information Center - MAGIC
- Collection of over 200,000 print maps
- Provide historic maps, aerial photos, topographic maps, and GIS data via the web at: magic.lib.uconn.edu

MAGIC's Mission...

To provide public access to GIS data, historical maps and aerial photographs with a focus on Connecticut and New England.

Before we look at the
Future...

**Let's Explore What MAGIC
Offers Currently**

MAGIC HISTORICAL MAP COLLECTION - NEW ENGLAND UNITED STATES

Included below are select maps from the University of Connecticut Libraries Map and Geographic Information Center - MAGIC collections which have been digitized. This collection will continue to grow so be sure to check back often. A copy of each map can be downloaded for use in your research or projects by clicking on the title or preview map.

New England

Title	Location	Year	Scale	Cartographer/ Source	Metadata	Series #	Preview in Google Earth	View & Download Map
A map of New England, New York, New Jersey, Maryland & Virginia.	New England, New York, New Jersey, Maryland, & Virginia	1676	s1500	Morden	Metadata	1		
A map of New-England, being the first that ever was here cut, and done by the best pattern that could be had, which being in some places defective, it made the other less exact: Yet doth it sufficiently show the situation of the country & conveniently well the distances of places.	New England	1677	s00	Hubbard	Metadata	1		
Novi Belgii Novæque Angliæ : nec non partis Virginæ tabula multis in locis emendata.	New England	1685	s00	Visscher	Metadata	1		



Historical Maps also on Flickr!



DOMINION OF CANADA
ALBERTA SASKATCHEWAN

Historical Maps

DEPARTMENT OF THE INTERIOR
GEOLOGICAL LAND OFFICE
FRED BENNETT, COMMISSIONER

STATE OF MONTANA.

Compiled from the official records of the Survey Land Office and other sources
under the direction of
L. F. DODDINGTON
Chief of Surveying Branch, L. O.
1891

Scale: 1 inch = 10 miles

03104

Historical Mash-Ups




































Enter address - for example, 369 Fairfield Way, Storrs CT

Enter Address

Go!



Aerial Photo Indexes

Layer Name	Type	Year	Scale	Source	Metadata	Download Shapefile (CT State Plane)	Download Shapefile (WGS 84)	Download KML	Preview in Google Maps
1950s Aerial Photography Index:Center Point Index		2010	1:20,000	MAGIC					
1960s Aerial Photography Index:Center Point Index		2006	1:20,000	MAGIC					
1970 Aerial Photography Index:Center Point Index		2010	1:20,000	MAGIC					
1985 Aerial Photography Index:Center Point Index		2010	1:20,000	MAGIC					
1990 Aerial Photography Index:Center Point Index		2006	1:20,000	MAGIC					
1995 Aerial Photography Index:Center Point Index		2010	1:20,000	MAGIC					
2004 Aerial Photography Index:Center Point Index		2004	1:20,000	CT DEP					

Shapefiles, KML and
Previews

Aerial Photo Indexes in Google Earth



Custom Map Creation – MAGIC 2.0 Online Map



Map Search **Print**

Zoom In Zoom Out Zoom Box Move Entire Map Distance Area Identify Transparency Scale 1: 1068650

To print a map:

1. Select the paper size: Landscape

2. Create Map - Click on the Printer Icon.
Make sure pop-ups are allowed:



Current position: (391921, 170891)

GIS Data Previews

Web Images Videos Maps News Shopping Gmail more ▾ New! | Help | Sign in

Google maps Search Maps Show search options
Find businesses, addresses and places of interest.

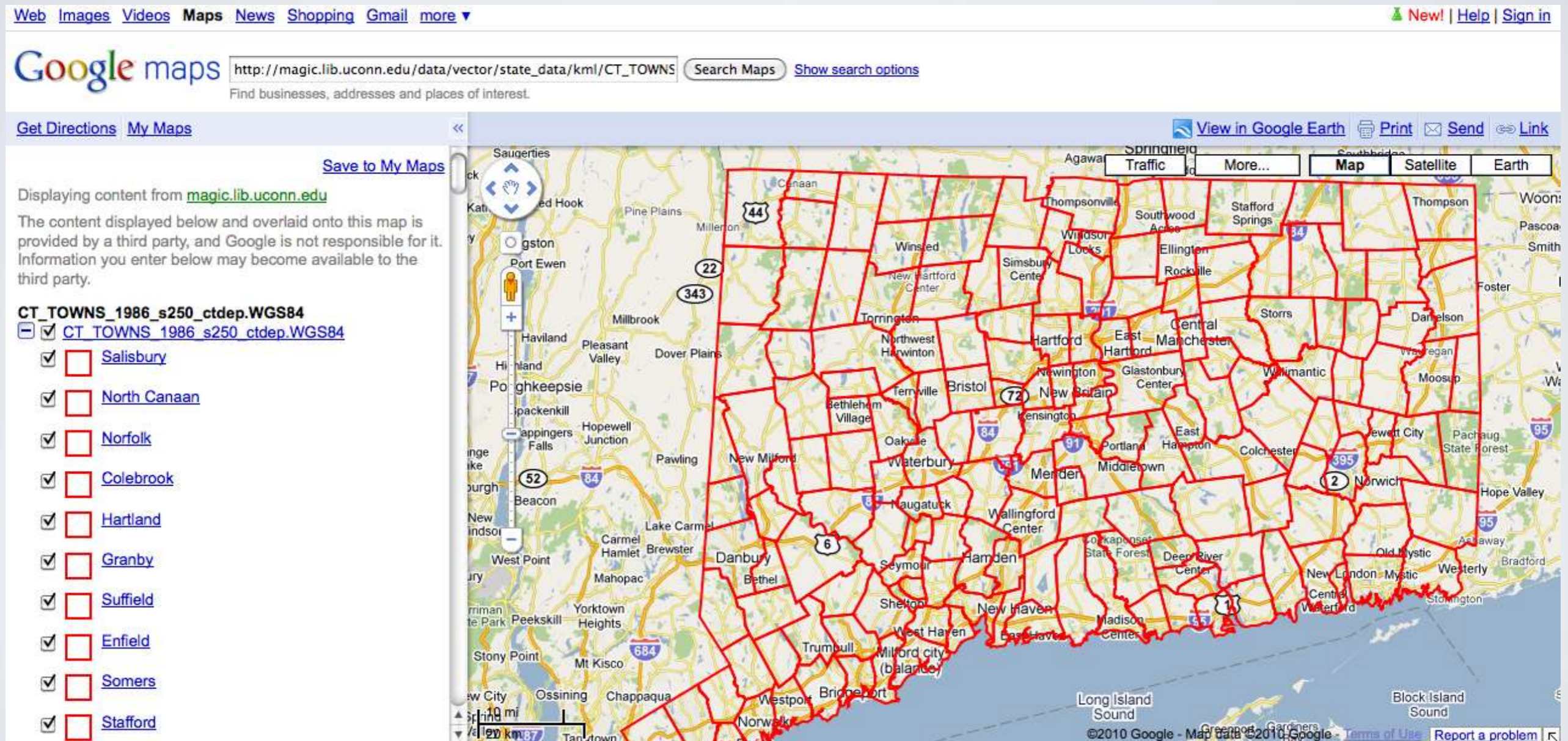
Get Directions My Maps View in Google Earth Print Send Link

Save to My Maps

Displaying content from magic.lib.uconn.edu
The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.

CT_TOWNS_1986_s250_ctdep.WGS84
 [CT_TOWNS_1986_s250_ctdep.WGS84](#)

- [Salisbury](#)
- [North Canaan](#)
- [Norfolk](#)
- [Colebrook](#)
- [Hartland](#)
- [Granby](#)
- [Suffield](#)
- [Enfield](#)
- [Somers](#)
- [Stafford](#)



Preview in Google Maps

Web Mapping Service (WMS)

ADDING GEOSPATIAL DATA FROM A WEB MAPPING SERVICE (WMS)

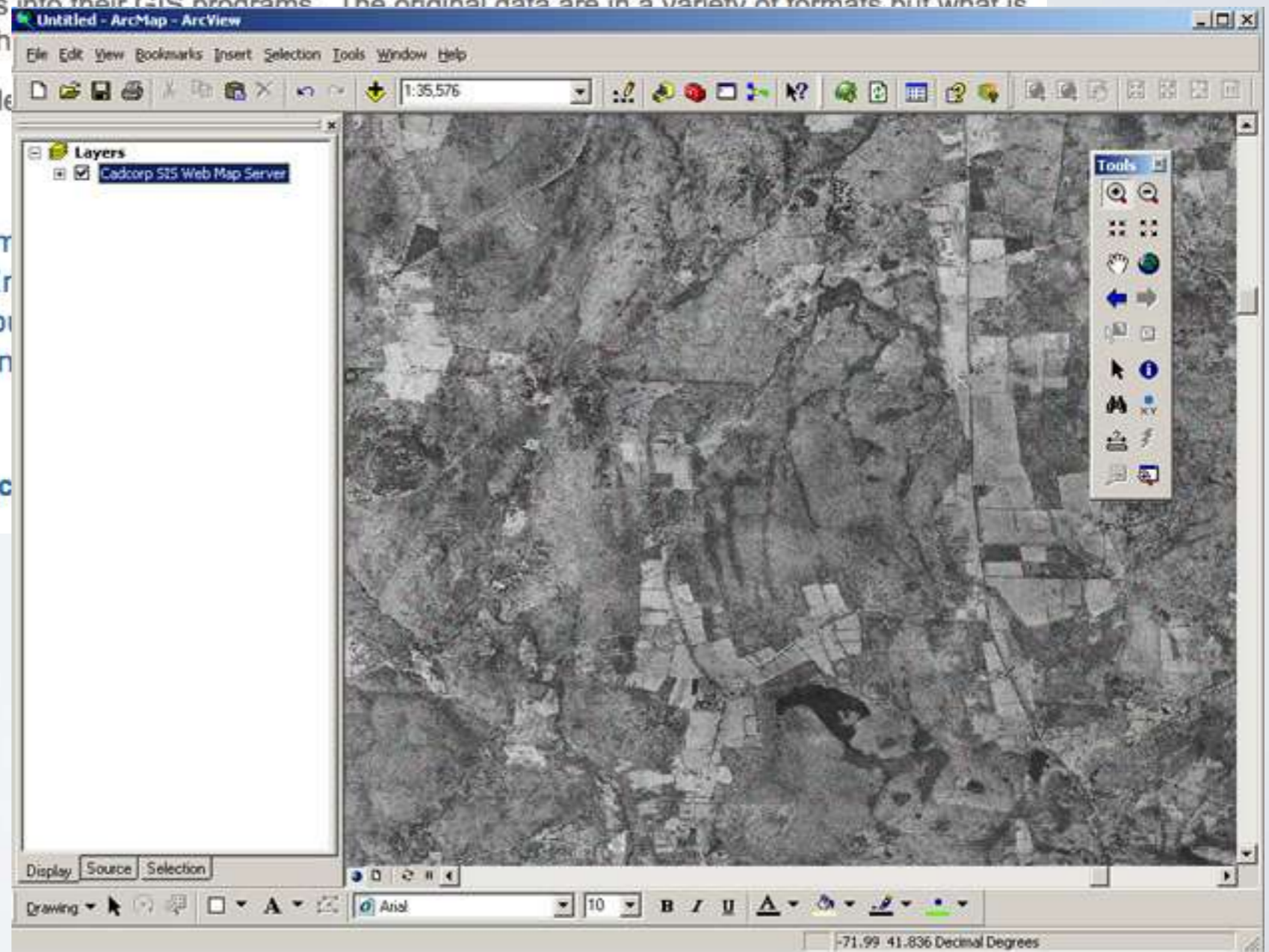
MAGIC has created a WMS to replace data that was once served using ER Mapper's ECW plugin. This service will allow patrons using GIS software to read in geospatial datasets into their GIS programs. The original data are in a variety of formats but what is displayed on the users machine is a PNG file. The

Data that is currently served on this server include:

- 1934 Connecticut Aerial Photography
- 2004 Connecticut Aerial Photography
- 1997 Connecticut USGS topographic map
- Connecticut Historical Aerial Photography In
- 1859 Connecticut Map by Clark and Tackab
- Much more to come over the next several m

To access the data:

Users of ArcGIS 9.3 - (if you use ArcGIS 9.2 sc



And much more

We've Been Busy....

Preparing for the Next
Steps...

based on Your Feedback!

So what Does the Future
Look Like?

Collaborative

User-Driven

**With More Downloadable
Content**

More GIS Data Sets

More Historical Maps

Collaborative Data Access

New CtSDC Website



College of Liberal Arts & Sciences
Connecticut State Data Center - CtSDC

HOME GIS DATA HISTORICAL MAPS GEOCOMMONS HOW DO I... HELP [SHARE](#)

POPULATION PROJECTIONS

- [Statewide](#)
- [Congressional Districts](#)
- [Regional Planning Organizations](#)
- [Five Connecticut](#)
- [Counties](#)
- [Towns](#)
- [About these Projections](#)

US CENSUS

ABOUT THE CTSDC

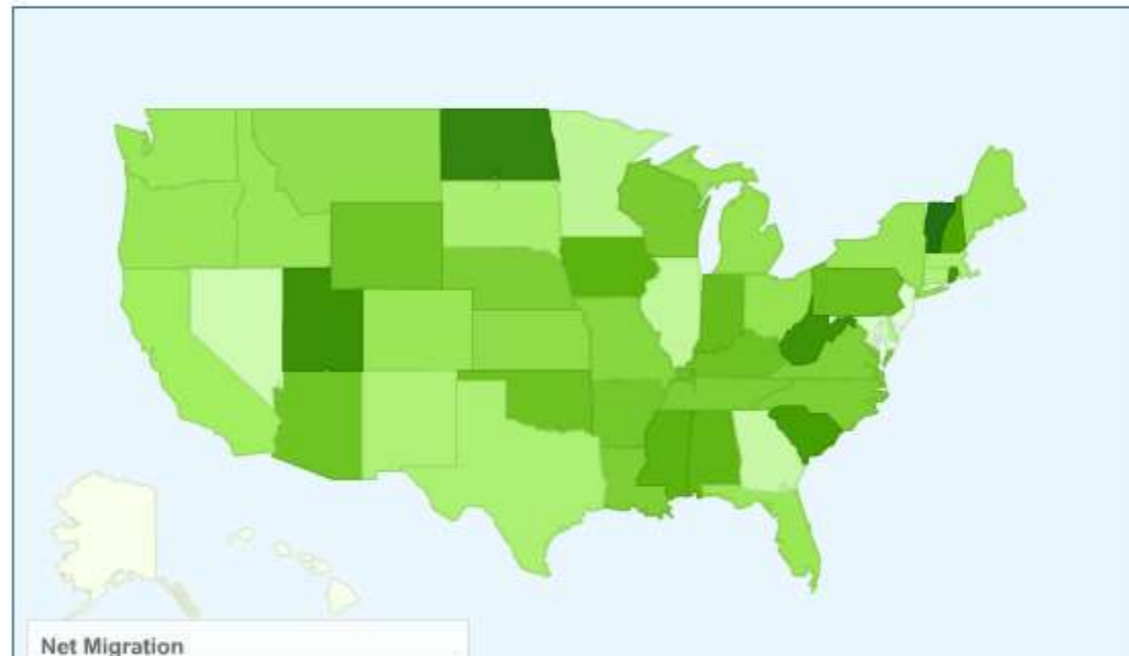
MAPS & AIR PHOTOS

GIS DATA

GEOCOMMONS

Featured Map

Net Migration of College Bound High School Seniors



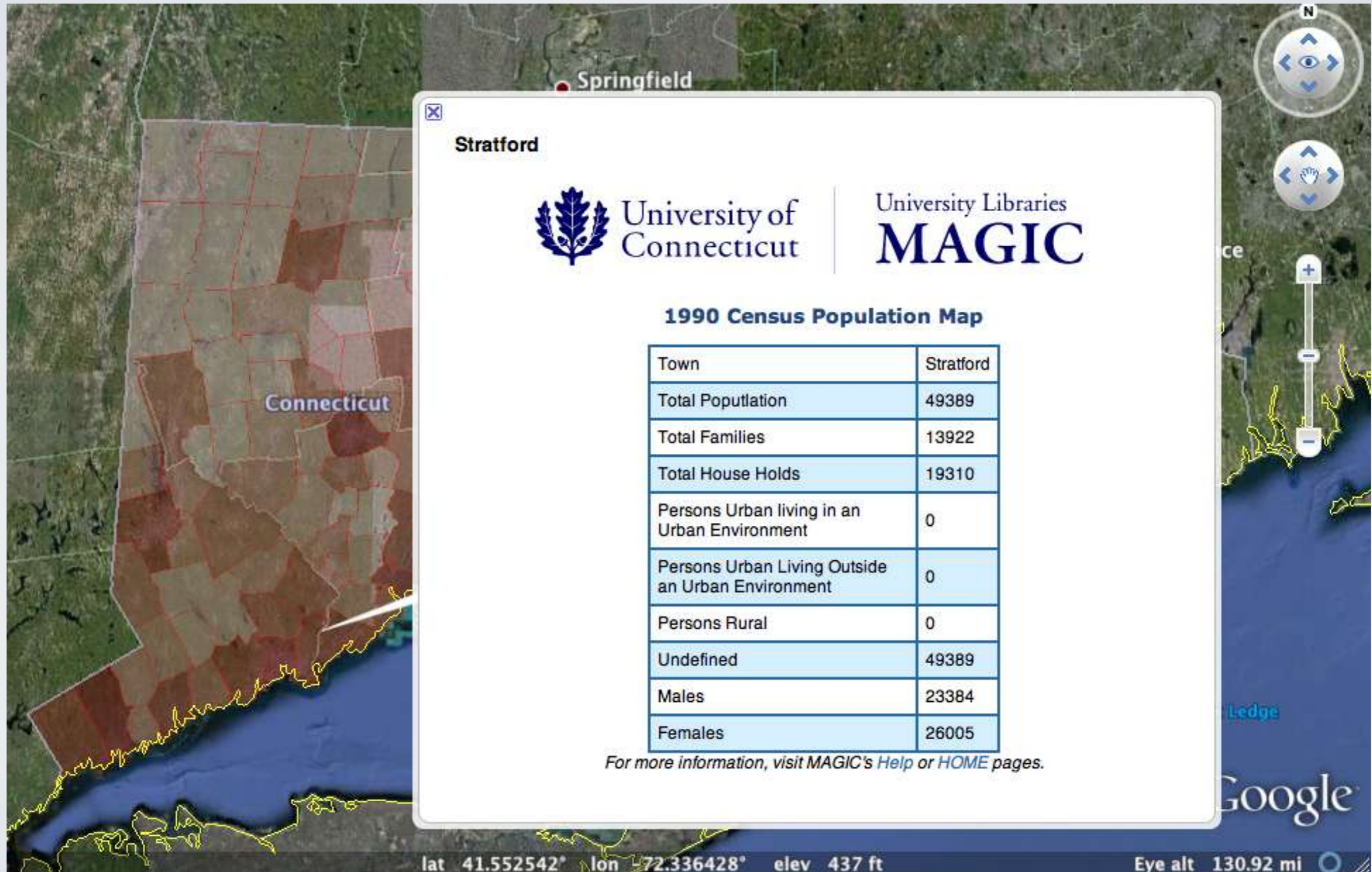
CONNECTICUT POPULATION NEWS

- [Census workers will hit the streets - Wilton Bulletin](#)
- [Connecticut moose population grows, posing threat...](#)
- [The Mind and Mood of Connecticut - Huffington Post...](#)
- [US Census Bureau: Area homeless to be counted - Middletown...](#)
- [Teacher Openings Shrink Dramatically In Connecticut...](#)

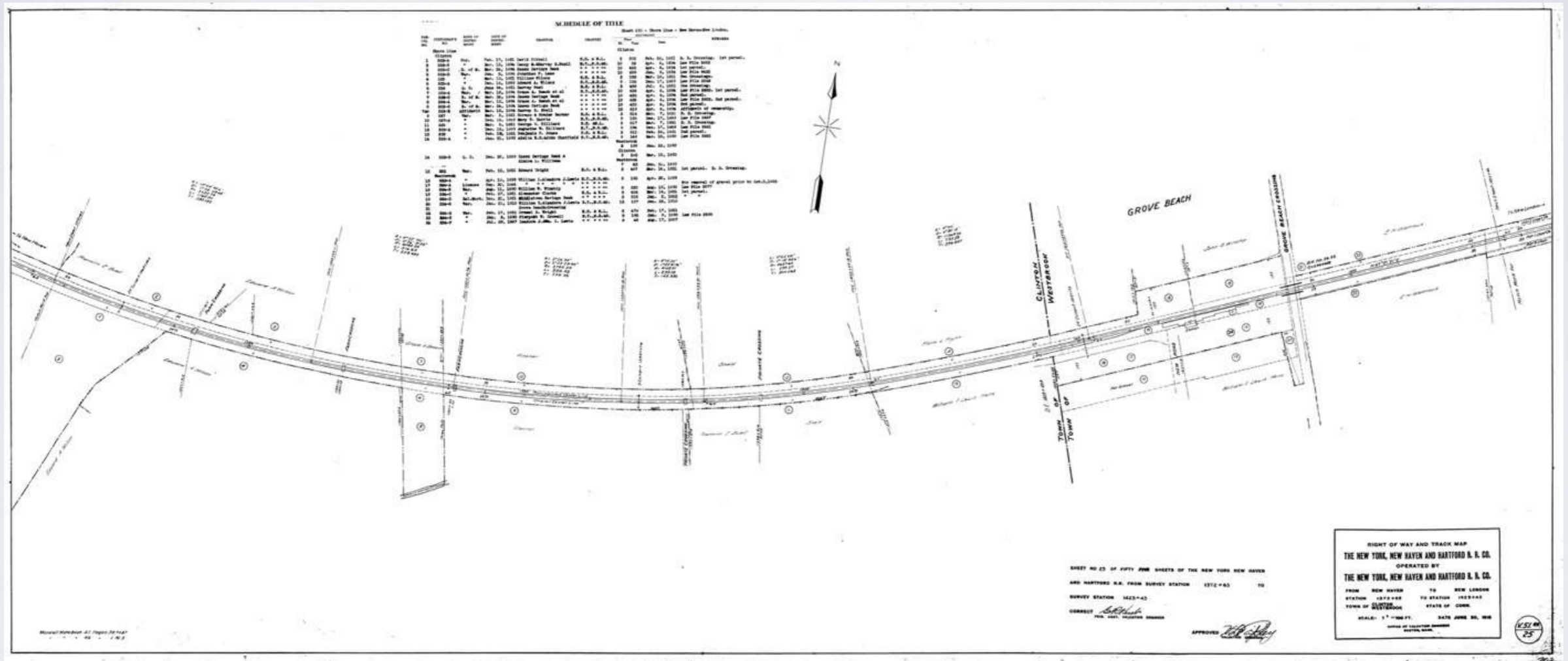
[View all »](#)

With map friendly data (shapefiles & KML) coming soon!

More Census Data

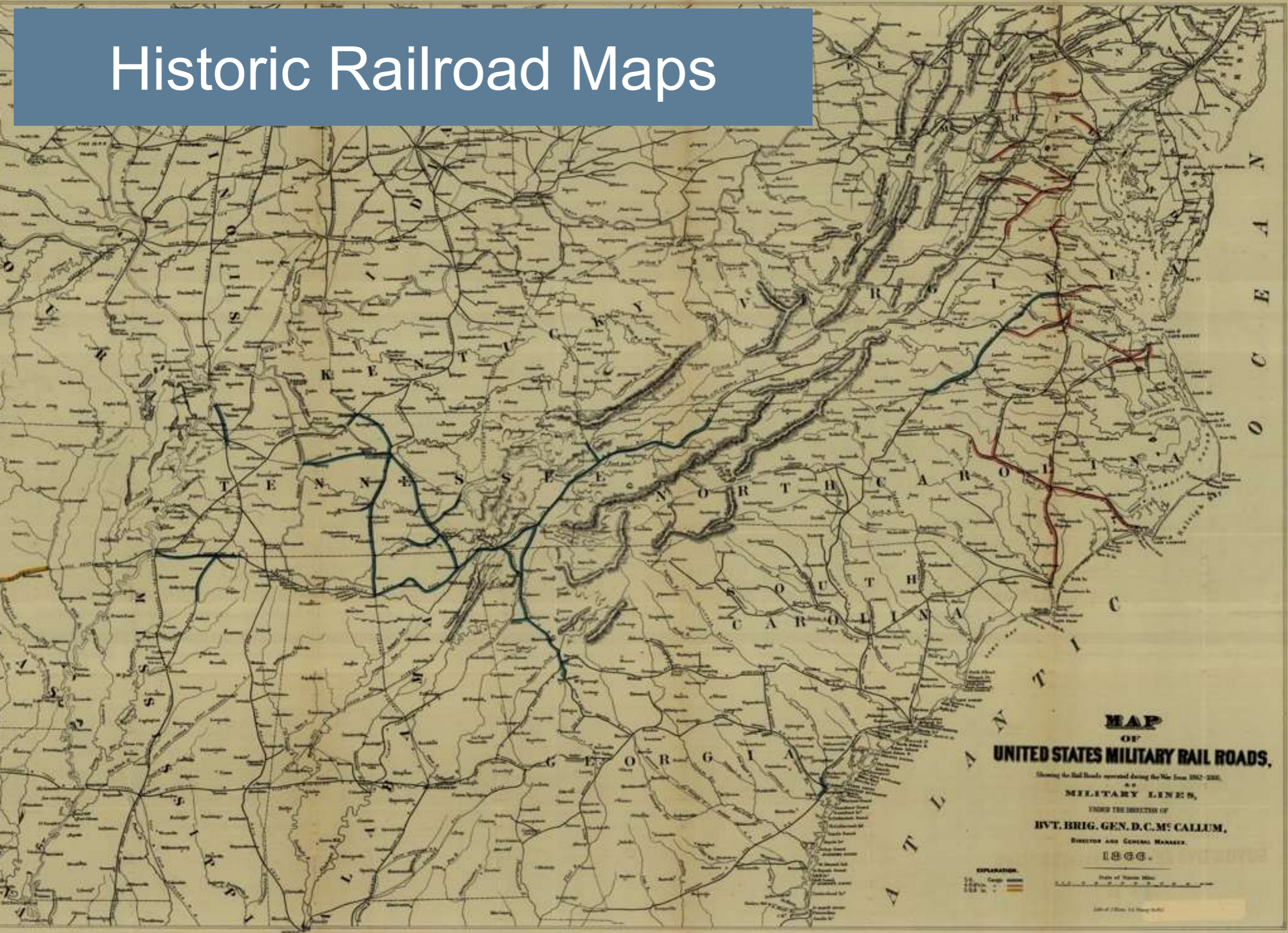


New York, New Haven, and Hartford Railroad



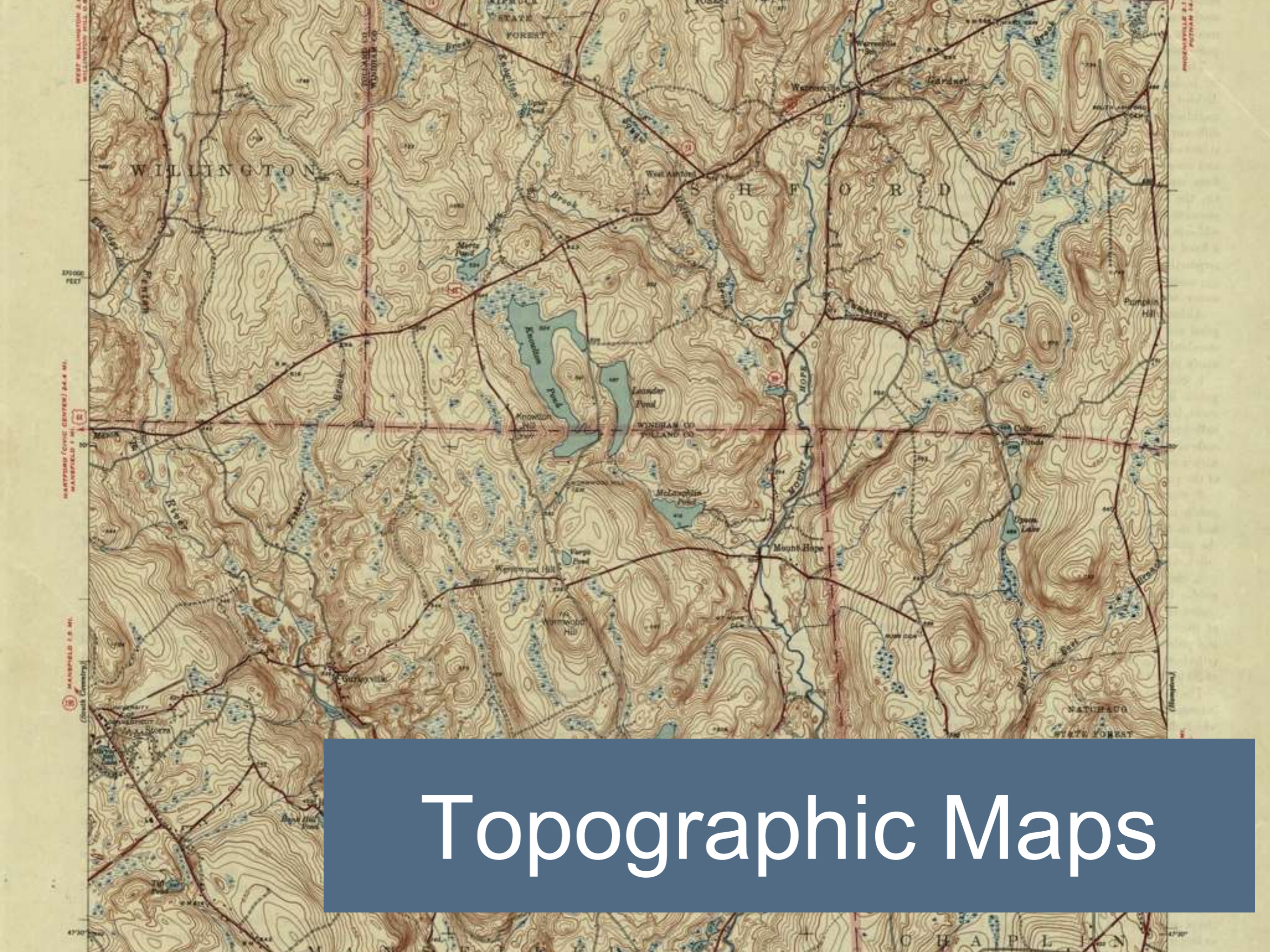
2,000+ maps

Historic Railroad Maps



More GIS Data!

- Connecticut School District Boundaries - Thanks Trinity College!
- Census Data - CtSDC
- Metadata Cleanup



Topographic Maps



Aerial Photos

Why Are We Doing This?

To increase access to
information

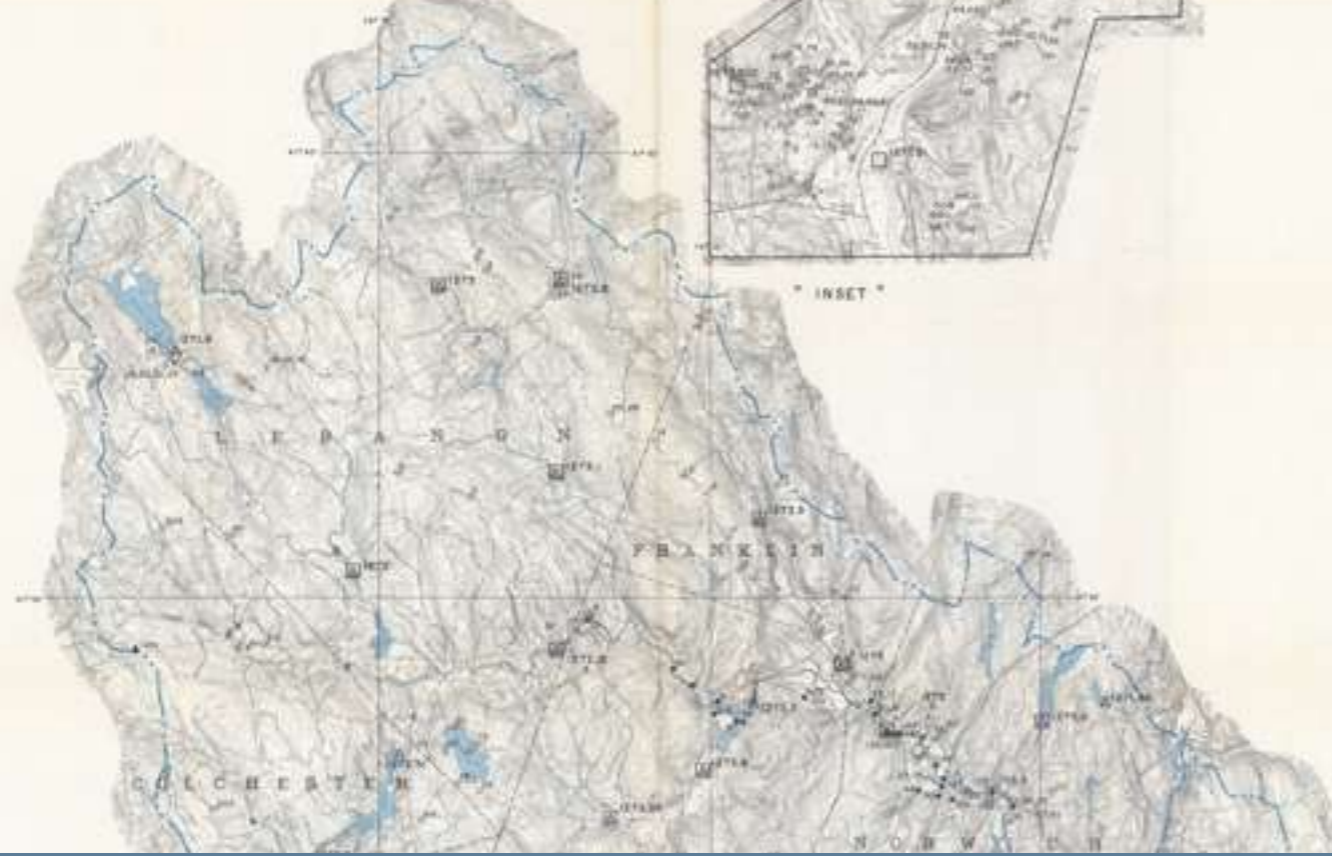
And to enable future
scholarship

with maps & geographic data

So you may be asking

When will this happen?

Topographic Maps - June 2010



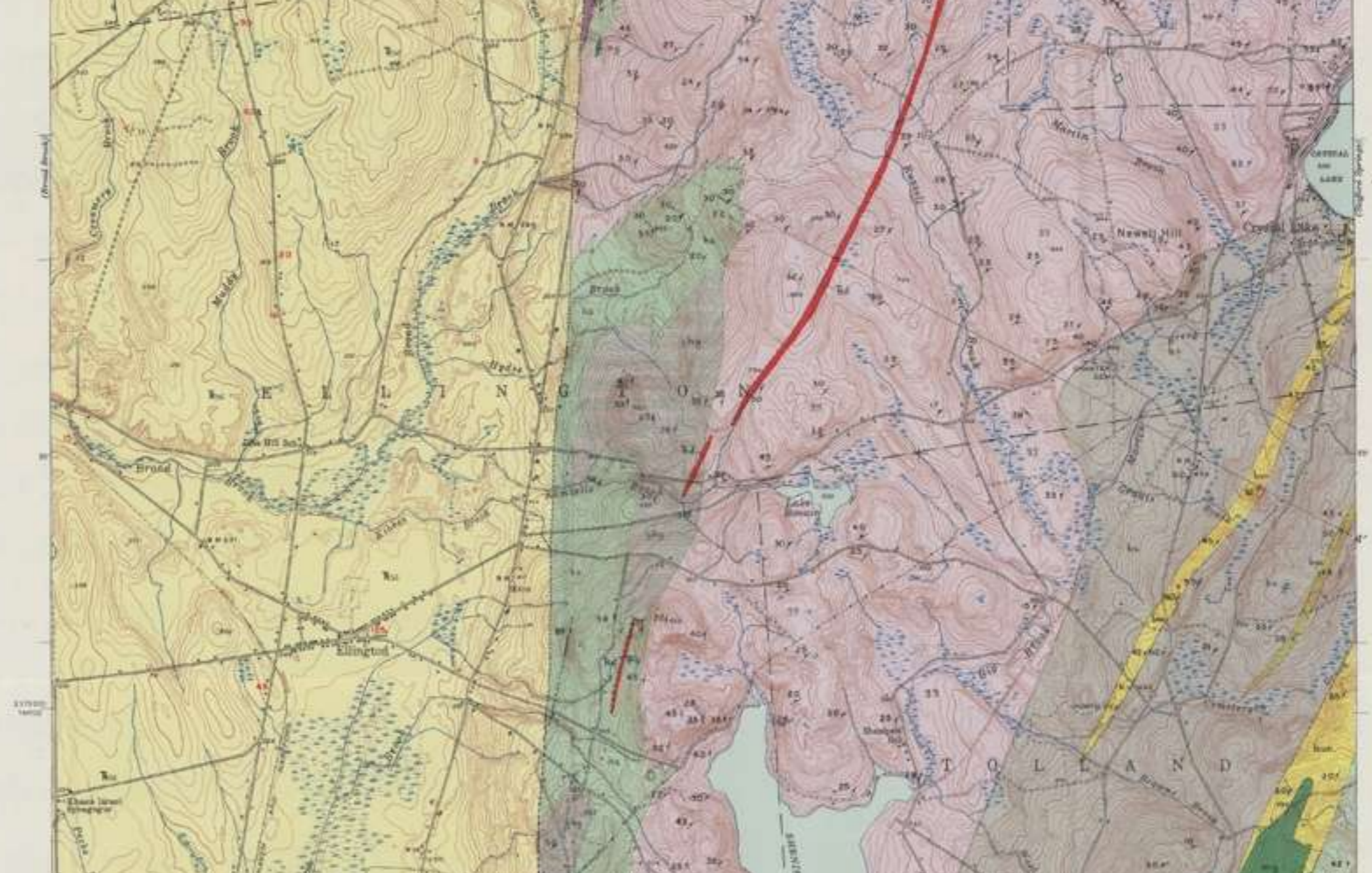
E X P L A N A T I O N

POINTS OF PRECIPITATION OBSERVATION
 MEASUREMENT STATION
 POINTS OF SURFACE-WATER OBSERVATION
 CONTINUOUS RECORD STATION
 NATIONAL BUREAU STREAM-GAGING STATION
 LOCAL POINT OF OBSERVED STATION
 SUPPLEMENTAL RECORD STATION
 WATER QUALITY SITE
 POINTS OF GROUND-WATER OBSERVATION
 OBSERVABLE WATER TABLE
 UNOBSERVABLE WATER TABLE
 WATER WELL
 TEST WELL
 OBSERVABLE WATER TABLE
 UNOBSERVABLE WATER TABLE
 SCALE - FEET
 METERS
 VOLUNTARY TOWNS

Water Resource Maps - July 2010



- Belton schist
- be-garnet-muscovite schist
- bqs-quartzite and quartzite schist interbeds
- Mg**
- Monson gneiss
- CONTACTS**
- accurate, dashed where approximate
- gradational
- FAULTS**
- accurate, dashed where approximate
- SPECIAL SYMBOLS**
- 25
dip and strike of foliation and schistosity
- 30
direction and plunge of lineation
- 20
dip and strike of bedding
- direction of glacial striations and friction cracks
- outcrops of Triassic sedimentary beds



Geology Maps - July 2010



New York, New Haven, & Hartford Railroad Maps - July 2010

The image is a screenshot of a Google Maps interface. At the top left, the Google Maps logo is visible. A search bar contains the URL http://magic.lib.uconn.edu/data/vector/state_data/kml/connecticut. Below the search bar, there are links for "Get Directions", "My Maps", "View in Google Earth", "Print", "Send", and "Link".

On the left side, there is a sidebar with the following content:

- Save to My Maps
- Displaying content from magic.lib.uconn.edu
- The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.
- connecticut_railroad_valuation.WGS84**
- [connecticut_railroad_valuation.WGS84](#)
- [uconn_asc_1998-0378_map_54_64_24.tif](#)
- [uconn_asc_1998-0378_map_54_64_25.tif](#)
- [uconn_asc_1998-0378_map_54_64_26.tif](#)
- [uconn_asc_1998-0378_map_54_64_27.tif](#)
- [uconn_asc_1998-0378_map_54_64_28.tif](#)
- [uconn_asc_1998-0378_map_54_64_29.tif](#)
- [uconn_asc_1998-0378_map_54_64_30.tif](#)
- [uconn_asc_1998-0378_map_54_64_31.tif](#)
- [uconn_asc_1998-0378_map_54_64_32.tif](#)

The main map area shows a geographic region of Connecticut and parts of New York and New Jersey. A network of red lines is overlaid on the map, representing railroad routes. Major cities like Hartford, New Haven, and Waterbury are labeled. The map includes standard Google Maps controls like a compass, a person icon for location, and a scale bar at the bottom left. At the bottom right, there is a copyright notice: "©2010 Google - Map data ©2010 Google - Block Island Report a problem".

An aerial photograph showing a coastal region. On the left, a town with a grid-like street pattern is visible. To the right, a large, dark body of water, possibly a bay or inlet, is shown. The surrounding land is a mix of dark and light patches, indicating different types of vegetation or terrain. A semi-transparent blue box is overlaid on the top left portion of the image, containing white text.

Aerial Photos - August 2010

M A S S A C H U S E T T S

R H O D E I S L A N D S

Y O R K
W
N E



Historical Maps - August 2010

1913 1913
MAP OF THE
STREET RAILWAYS
OF CONNECTICUT
TO ACCOMPANY THE REPORT OF THE
RAILROAD COMMISSIONERS

DOUBLE TRACK ELECTRIC RAILROAD
SINGLE TRACK ELECTRIC RAILROAD
SINGLE TRACK HORSE RAILROAD
SINGLE TRACK HORSE RAILROAD
SINGLE TRACK HORSE RAILROAD

LONG ISLAND SOUND

What Formats?

Full Quality Tiff Images

Georeferenced Maps - When Available

Excited Yet?

There's More coming!

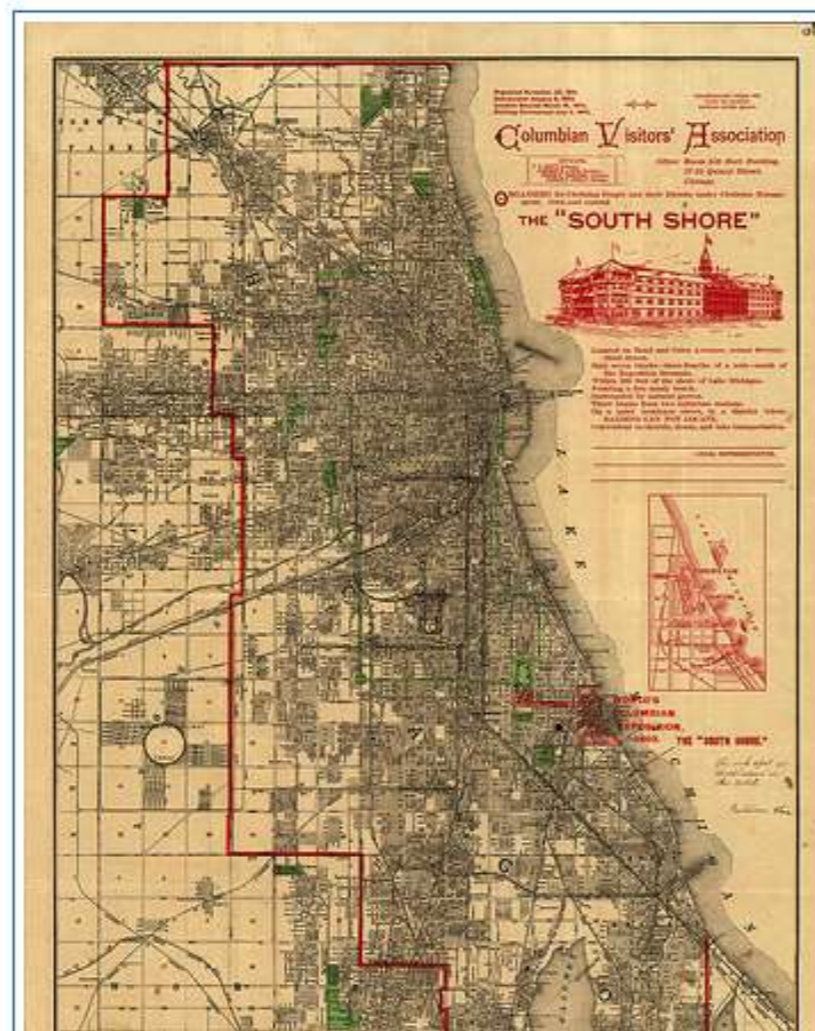
Map of the Week Features

Map of the Week# 5 Chicago's World Fair 1893

Like Be the first of your friends to like this.

listen now

Visitors map created on [Rand McNally & Co's. Map of Chicago 1890](#)



Sample “Geo” Classroom Activities

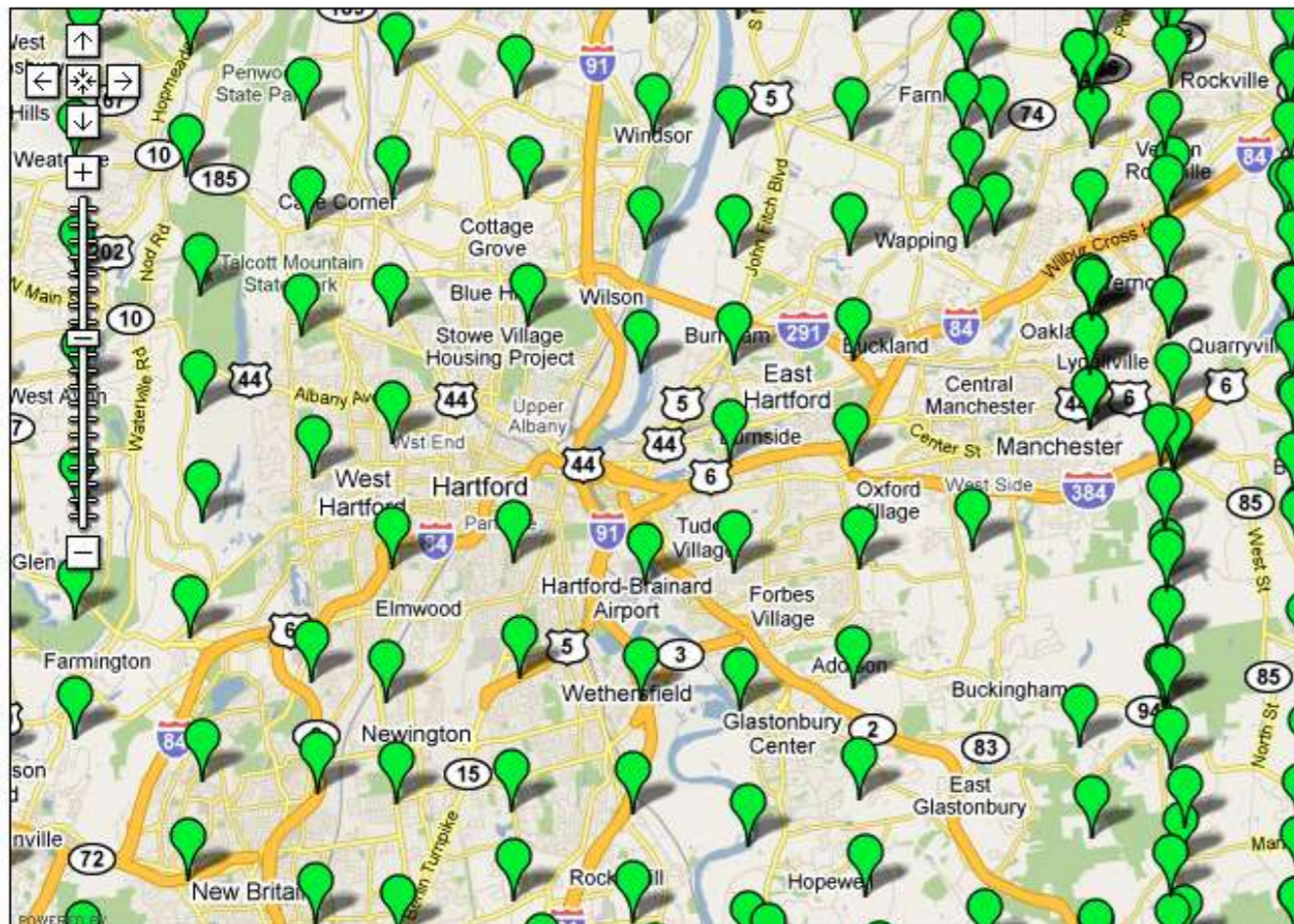
- Mash-ups for classroom use
- Maps & Dataset collections



Improved Map Mash-ups

1950S CONNECTICUT AERIAL PHOTO INDEX

Use the following map to locate aerial photos for an area of interest in Connecticut. Click on the point to



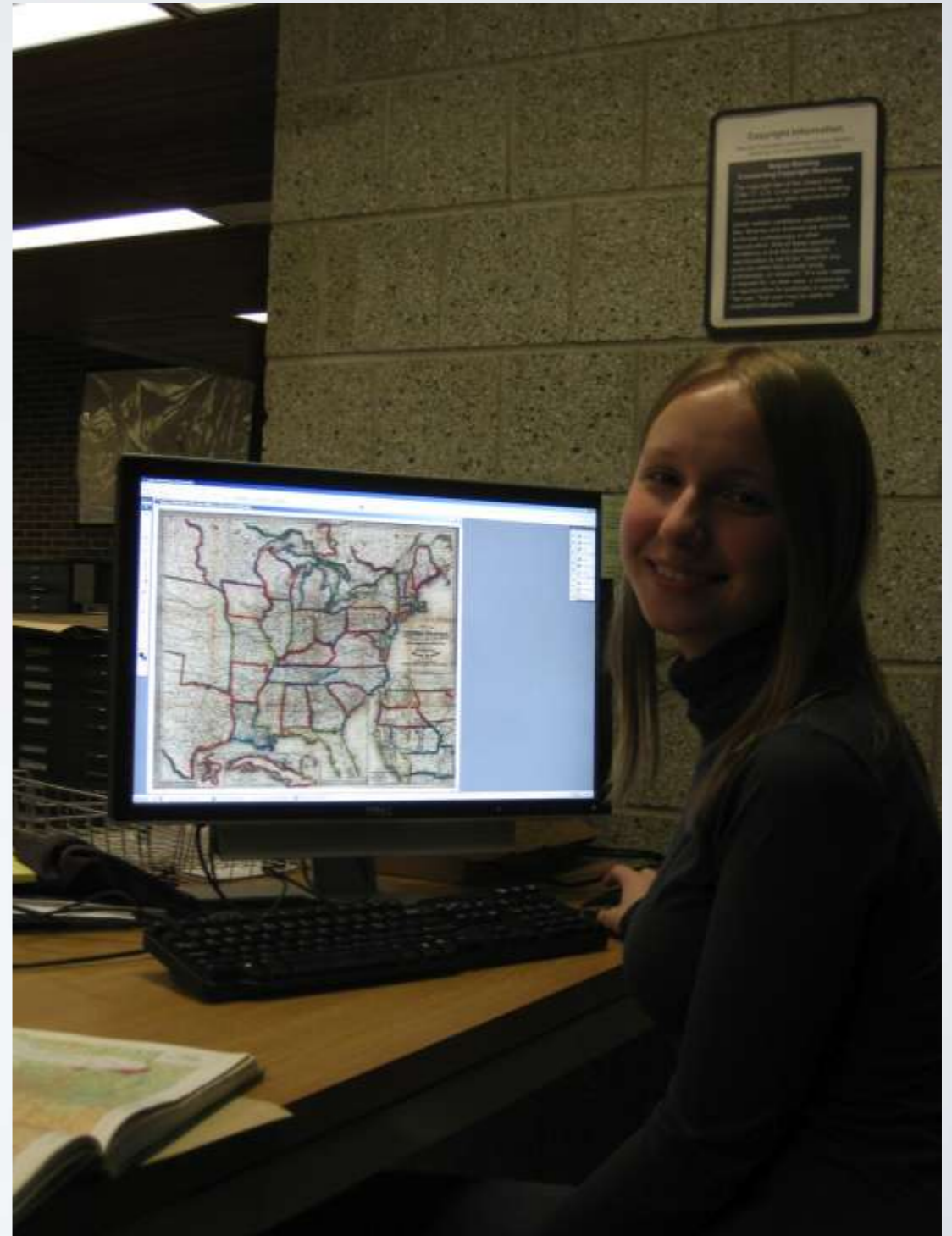
Searchable

Download Images

Multiple Years

MAGIC Workshops!

- Mash-ups Basics & Advanced Features
- Making Maps for Presentations
- Transforming Data into Maps
- And more!



How To Videos

- Videos on how to create mash-ups
- Add MAGIC data to your own research
- Creating mash-ups from MAGIC's data
- And More!



Who's Driving this?



You!



MAGIC is Growing

Through Collaborations

A photograph of a modern brick building with large glass windows and a central entrance. A paved walkway leads towards the building, flanked by green grass. A blue banner with white text is overlaid on the middle of the image.

Trinity College

Which began with a
conversation at
NEArc Spring 2009...

NEH Grant

- Collaboration with Jack Dougherty of Trinity College
- Hartford Area Maps and GIS data to be added to MAGIC
- More Map Mash-ups
- \$100,800 NEH Collaborative grant!
- Starts June 1, 2010 !

And our Next Collaboration

is with...

You!

Have an Idea?

**Want to increase Access to
Maps and GIS Data?**

Chat with us!

MAGIC@uconn.edu



University of
Connecticut

University Libraries

Map and Geographic Information Center

HOME ABOUT GIS DATA HISTORICAL MAPS GEOCOMMONS HOW DO I... HELP STATE DATA CENTER

MAPS & AIR PHOTOS

[MAGIC 2.0 Online Maps](#)
[Aerial Photos](#)
[1934 Aerial Photos](#)
[Historical Maps](#)
[Land Use/Land Cover](#)
[Map Mash-ups](#)
[Study Abroad Resources](#)
[Topographic Maps](#)

GIS DATA

[Featured Data](#)
[Boundaries](#)
[Census](#)
[Counties](#)
[Education](#)
[Election](#)
[Environmental](#)

FEATURED MAPS



View MAGIC's entire Historical Map Collection on [Flickr](#) including the ability to view maps by year and by geographic location.

NEWS & UPDATES

[Masters and Doctoral Defenses in Geography - Spring...](#)
[Connecticut Geo-Focus Newsletter - Spring 2010](#)
[Geoseminar Series - Peter Haas](#)
[Opportunities #5: AGS Library Fellowship](#)
[Did You Know #24 David Rumsey Map Collection](#)
[Adds...](#)
[View all »](#)

QUESTIONS?

Research Assistance
e-mail - chat - IM

magic.lib.uconn.edu

Let the Fun Begin!

Special Thanks to

- Jack Dougherty at Trinity College
- CT DEP - Kevin O'Brien & Howie Sternberg
- Bill Miller, Cary Lynch, Doug Sands, Jeff Dunn, Josh Strunk, Chelsea Leiper, Tia Hogan, Tom Barchant and the rest of the MAGIC crew!
- Tony Molloy, Robert Swanson, Rick O'Toole, Dave Hicking, and Raul Potenciano from UConn Libraries IT
- Undergraduate Education Team, Susanna Cowan, Scott Kennedy, Brinley Franklin and the entire UConn Libraries Staff
- And you!

Thanks For Listening!