## **Mapping and Genealogy**

### **Location Matters!**



### By Craig Rhombs

### Welcome

- Craig Rhombs
- Retired software guy with background in mapping; long time interest in genealogy; "recent" ancestral composition = 3/8 Alsatian/German, 3/8 British Isles; 2/8 Norwegian
- https://281connections.us
- Email: 281connections@gmail.com

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### **Basic Objectives**

- Review basic mapping technology
- Review some sources of historically interesting maps
- Review Land Ownership and Description
- Examine a few examples showing integration of map information with other data sources
- Provide ideas, incite you to look at something new





### What about you?

- What are you hoping for?
- Why are you interested in maps?
- What geographical areas interest you?
- What historical eras interest you?





## **Mapping Basics**

- "A map is a symbolic depiction which denotes relationships between elements of some space such as objects, regions, and themes. Most maps are drawn to a scale to express a ratio between two or more units of measurement." - https://www.mapsofworld.com/
- Mapping addresses the fundamental problem of how to represent a 3-D (pretty much spherical) world in a 2-D form (like paper)
- Earth's shape is NOT flat
- Projections





- Mercator; Universal Transverse Mercator (UTM)
- Conic



## Mapping Basics (continued)

- Images are raster representations of digital or drawing/drafting elements
- Digital maps
  - Graphic elements (points, lines, polygons)
  - Non-graphic elements (text, numeric)
  - A map object has both types of properties
  - Spatial analysis (study of objects/entities based on their location & properties)



## Mapping Basics (continued)

- Example objects
- Village: a polygon enclosing residence locations
- Locations of flu cases (epidemiology)
- Locations of ancestors relative to jurisdictional boundaries (polygons), roads (lines), battlefields (complex), etc.



## **Types of Maps**

- Physical (show physical features)
- Political (jurisdictional boundaries)
- Economic (consumption, GDP, . . .)
- Topographic
- Climatic
- Thematic (portray a specific topic's patterns)
- Road



### **Some Sources of Historical Maps**

- These are examples of general ways to access historical images
  - http://www.lib.utexas.edu/maps/histus.html \*
  - http://www.davidrumsey.com/ \*
  - http://www.oldmapsonline.org/ \*
  - https://dp.la/search?q=maps
  - https://en.wikipedia.org/wiki/Historical\_geographic\_information\_system
  - https://dsl.richmond.edu/historicalatlas/

#### Library of Congress

- Overview https://guides.loc.gov/maps-illustrated-guide/introduction
- Sanborn https://www.loc.gov/collections/sanborn-maps/about-this-collection \*
- Marion, OH (example) https://www.loc.gov/item/2012592377/
- Marietta (OH) College Library
  - http://cdm16824.contentdm.oclc.org/cdm/search/collection/p16824coll6/searchterm/map/ field/all/mode/all/conn/and/order/title/ad/asc
- Misc. Info: (guide) https://pubs.usgs.gov/fs/2002/0099/report.pdf \*
- Your favorite repository for the geography and era you are researching . . .

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### More Examples !

- See gazetteers and atlases slide later
- Original land owners, antique maps: https://historygeo.com/ or via American Ancestors at

https://www.americanancestors.org/sear ch/external-databases

- Boston Library: (digital collections) https://www.leventhalmap.org/ \*
- Get lost in the BYU library: https://guides.lib.byu.edu/maps
- UK: https://maps.nls.uk/ \* Rhombs Maps & Genealogy

### And More!

- https://apps.nationalmap.gov/viewer/ (recent conditions)
- https://ngmdb.usgs.gov/topoview/
- https://www.mapofus.org/ (US Maps)
- https://www.newberry.org/ (search for maps)

### Even More (German focus) . . .

### • Misc:

- Topo maps search (Germany): https://www.ancestry.com/search/collections/1294/
- Historical Atlas of Germany by J. Beidler https://hclib.bibliocommons.com/item/show/5910031109

### Spatial distribution of names

- https://nvk.genealogy.net/ map (explained at https://wiki-de.genealogy.net/Namensverbreitungskarte ); also http://geogen.stoepel.net .
- Irish surnames: https://www.barrygriffin.com/surname-maps/irish/

## Land Ownership

- Government: How to distribute newly acquired land?
- Owners: How to transfer, sell/buy, property?
- How to describe a parcel of land?
  - Public Land Survey
  - Metes and Bounds
  - Units of measure vary by locality and historical era (rods, vara, feet, meters, etc.)



## Public Land Survey (PLS or PLSS)

- Initial purpose = distribution of Fed lands, dates to 1785
  - https://en.wikipedia.org/wiki/Public\_Land\_Surve y\_System
- Bureau of Land Management (BLM) General Land Office (GLO)
  - https://www.glorecords.blm.gov \*
  - https://www.archives.gov/research/land



### **An Aside on Pertinent Laws**

- These may help explain what land your ancestor acquired and when.
- Preemption Act of 1841
  - Sign intent to become a citizen
  - Live on the land for 14 months

### Homestead Act of 1862

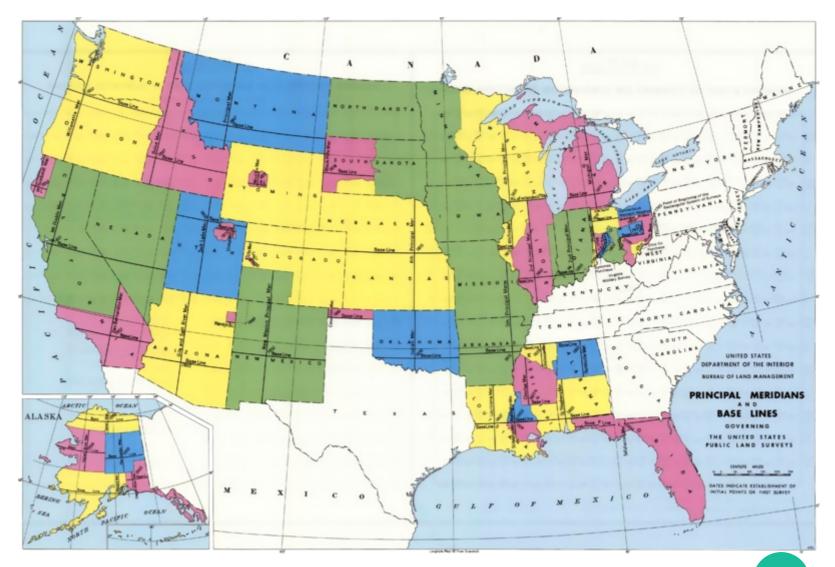
- Live on the land 6 mo./year for 5 years
- Become a citizen

### • Timber Culture Act of 1878

- No residence requirement
- Become a citizen

## Public Land Survey (meridians)

- 37 meridians
- Not 100% regular because of embedded warrants, river shifts, etc.

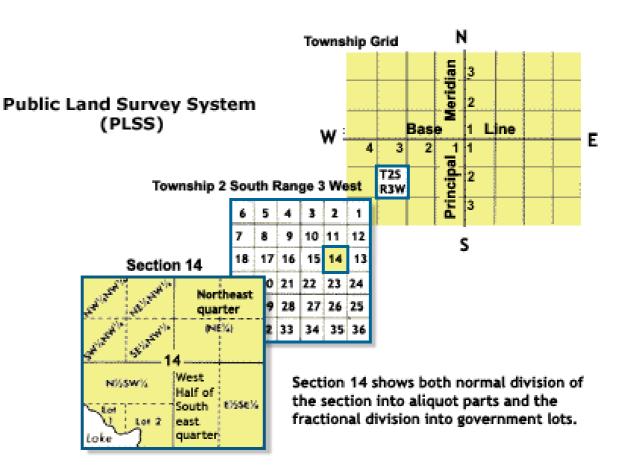






## Public Land Survey (hierarchy)

- Section, twp, rng, meridian
- Aliquot parts: quarters or halves
- Further subdivisions to locate things like oil wells
- Correction for earth's curvature
- Section 16 for support of schools
- Example for Johannes Rombs: SW1/4, sec 10, twp 120N, rng 69W, 5<sup>th</sup> meridian





## Public land Survey (Ohio is Special)

Ohio is where they "warmed up" before they proceeded to other areas.

<u>The Official Ohio Land</u> <u>Book</u> https://ohioauditor.gov/pub lications/docs/OhioLandsB ook.pdf



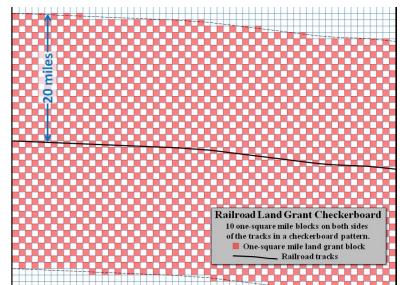




### **Grants to Railroads & Others**

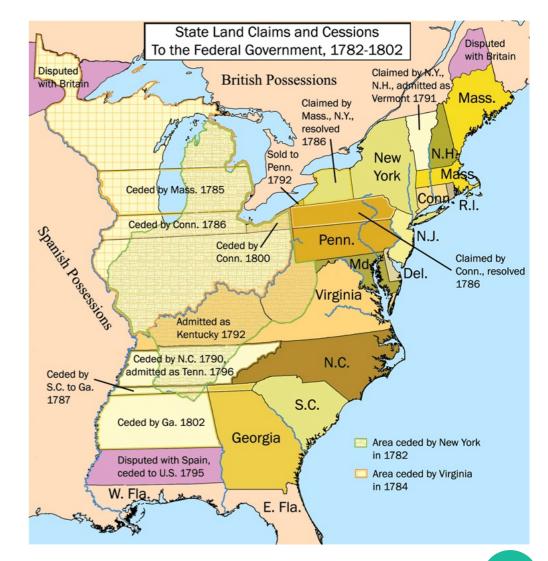
- Land Companies

   (speculators):
   https://www.familysea
   rch.org/wiki/en/Grants
   to Land Companies\_a
   nd Railroads
- Railroads: https://www.coxrail.co m/land-grants.asp



## What about the rest of the country?

- It is complicated!
- Retained metes & bounds.
- Many special cases.
- Texas . . .





### **Don't forget Texas!**

### Spanish influence

- A league of land equals 4,428 acres and a labor, 177 acres, combined they add up to 4,605 acres. This was the amount of a headright (first-class) granted to "all persons except Africans and their descendants, and Indians, living in Texas on the day of the Declaration of Independence... if they be heads of families... and if a single man, 17 years or older, one-third league" (1,476 acres).
- Again, it is complicated and beyond this presentation
  - https://en.wikipedia.org/wiki/Texas\_land\_survey\_system
  - https://s3.glo.texas.gov/glo/history/archives/land-grants/index.cfm



### **Metes and Bounds**

- Traced back to 13<sup>th</sup> Century England
- Beginning at a point, . . . , and back to the point of beginning.
- Example

Beginning at a point on the Southerly line of said Lot 4 distant thereon North 45° East 150.00 feet from the most Southerly corner thereof; thence along said line North 45° East 300.00 feet to the beginning of a tangent curve concave Northwesterly and having a radius of 100.00 feet; thence Northeasterly along said curve through a central angle of 45° 30¢ an arc distance of 79.00 feet to the beginning of a compound curve concave Southwesterly and having a radius of 50.00 feet; . . . thence Southeasterly 68.00 feet to the point of beginning.



### **BLM General Land Office Example**

• Example: Johannes Rombs in SD (immigration in Nov, 1884)

- JR patent link

Image	Accession	<u>Names</u> ↑	Date	Doc #	State	<u>Meridian</u>	<u>Twp</u> - <u>Rng</u>	Aliquots	Sec. #	<u>County</u>
	<u>SD0540 .109</u>	P ROMBS, JOHANNES	7/13/1889	13933	SD	5th PM	120N - 069W	SW¼	10	Faulk
	<u>SD0730 .190</u>	P ROMBS, JOHANNES	10/18/1892	4709	SD	5th PM	120N - 069W	SE¼	9	Faulk
	SDMTAA 038418	ROMBS, JOHANNES	10/4/1900	2620	SD	5th PM	120N - 069W	E½NW¼	9	Faulk
							120N - 069W	NW¼NW¼	9	Faulk
							120N - 069W	SW1/4NW1/4	9	Faulk





### **Metes and Bounds Example**

- Land patent to Dolores Garcia in 1838 in TX
- About 2 years after TX Republic established
- About 7 years before statehood
- Note the scale shown in the sketch.

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	and and	No	



## **Integrating Non-Graphic Data**

- This is where real value lies for genealogy, even if done just with images of maps.
- Portray (render) some concept in geographic terms to show why location matters
- Demonstrates possible unrealized relationships between/among different types of data
- Can be used to show temporal changes



### **Temporal Changes**

#### Atlas of County Boundaries:

- https://digital.newberry.org/ahcb/index.html \*
- Mass migrations:
  - http://www.rootsandroutes.net/roots.htm (migrations tab)
  - https://www.familysearch.org/wiki/en/United\_States\_Migration\_Internal
  - The map section of The Handy Book for Genealogists
- National Historical Geographic Information System
  - https://www.nhgis.org/ (complicated)
- Example of land ownership changes in SD:
  - 1910:

http://www.historicmapworks.com/Map/US/50159/Freedom+Township/Faulk+County+19 10/South+Dakota/

- Settlers: Faulk County, SD, courthouse
- See next page



### **Temporal Change Example - SD**

#### Settlers c.1890

#### FREEDOM

HOMESTEAD TOWNSHIP MAP

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### Owners c.1910

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Parson		Frad	Pevey
Ico		160	160
H.N.	A.W	Jos. N.	P.E.
Ward	Morse	Brown	Ornsby
160	160	160	160
A.E. Ward Ico	Sch	007	Minnie O'Neil 160





### **Another Example Based on Patents**

- Campbell County, SD
- Lat 19th century
- Illustrates a group migration from PA
- https://281connections.us/281connections\_Wiki/South\_Dakota\_Families/Loy-A llen/meadville-migration.pdf





## **USGS Place Names (GNS/GNIS)**

- Root: https://www.usgs.gov/core-science-systems/ngp/board-on-geographic-names
- Foreign: https://www.usgs.gov/us-board-on-geographic-names/foreign-names
- Domestic: https://www.usgs.gov/core-science-systems/ngp/board-on-geographic-names/domestic-names
- Domestic Download Example: https://www.usgs.gov/core-science-systems/ngp/board-on-geographic-names/download-gnis-d ata

https://edits.nationalmap.gov/apps/gaz-domestic/public/search/names

- Use quick link to "Download Domestic Names"
- Choose state, then a delimited file will be downloaded.
- Open the file inside the compressed file using your favorite spreadsheet software like LibreOffice Calc or Excel. (File contents are "pipe" delimited records.)
- Filter the contents based on heading categories to select the named features you want to see (e.g., cemeteries)
- Note lat/long coordinates and create your own scatter plot (map) that can be overlaid on a Google Earth rendering.
- I have used this approach to find cemeteries in an area.





### **USGS Place Names (continued)**

CONNECT

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media

chat, social

SCIENCE PRODUCTS NEWS Topics. Maps, data. Releases centers publications mission reporter

Board on Geographic Names (BGN) is a Fe

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Government. The BGN comprises representatives o information, population, ecology, and management

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#### HOME

#### MEMBERSHIP

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FOREIGN NAMES ANTARCTIC NAMES

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#### Domestic Names

The BGN's Domestic Names Committee provides information relating to domestic names: new name and name change proposals: the principles and policies by which it reviews name proposals; past and pending cases; and meeting schedule are available.

FEATUR

#### ina Schedule Download GNIS Data The Board on Geographic Names has many files available for download. P and metadata for specific information regarding each file. If you have gue downloading please view the Download Data section of the How Do I? pad there, please send an email to gnis manager@usgs.gov

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a Domestic Name

FOREIGN NAMES The GNIS will be down beginning 3 pm MT Friday, October 25 through Sunday Octo ANTARCTIC NAMES Users will also be unable to download files during this time. The system is expected October 28. UNDERSEA FEATURES All files are pipe-delimited text files and were last updated September 1, 2019. Click on the lin Metadata text | xml NAMES ORGANIZATIONS **GNIS File Formats** State, Territories, Associated Areas of the United States HOW DO I? National File (all features in one file) All States File (individual state files in a single .zip file) Individual State Files:

Alabama





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### **USGS Place Names (continued)**

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												-83.2226938
												-83.1941906
												-83.1915772
												-83.0578916
												-83.1420646
												-83.1234587
												-83.0805858
												-83.1765767
												-83.0708412
												-83.1984448
												-83.1415577
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•		•				40.48						
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•						40.45						
						40.43						
						40.41						
-83.2	-8	33.15	-83.1	-83.05		-83						
	FEATURE_NAME Augenstein Cemetery Berringer Cemetery Brown Taylor Cemetery Otterbein Cemetery Prospect Cemetery Riverside Cemetery Walls Cemetery Walls Cemetery Drake Cemetery Mounts Cemetery Mounts Cemetery Schweinfurth Cemetery Waldo Cemetery	FEATURE_NAME  Augenstein Cemetery Augenstein Cemetery Berringer Cemetery Otterbein Cemetery Otterbein Cemetery Frospect Cemetery Riverside Cemetery Otwalis Cemetery Otwalis Cemetery Other Cemetery Othe	FEATURE_NAME       FEATURE_C         Augenstein Cemetery       Cemetery         Beringer Cemetery       Cemetery         Brown Taylor Cemetery       Cemetery         Otterbein Cemetery       Cemetery         Prospect Cemetery       Cemetery         Riverside Cemetery       Cemetery         Walls Cemetery       Cemetery         Wolfinger Cemetery       Cemetery         Mounts Cemetery       Cemetery         Mounts Cemetery       Cemetery         Wyatt Cemetery       Cemetery         Schweinfurth Cemetery       Cemetery         Waldo Cemetery       Cemetery         Waldo Cemetery       Cemetery         Marion County Cemetery       Marion	FEATURE_NAME       FEATURE_C       STATE_ALPI         Augenstein Cemetery       Cemetery       OH         Brown Taylor Cemetery       Cemetery       OH         Brown Taylor Cemetery       Cemetery       OH         Otterbein Cemetery       Cemetery       OH         Prospect Cemetery       Cemetery       OH         Riverside Cemetery       Cemetery       OH         Walls Cemetery       Cemetery       OH         Wolfinger Cemetery       Cemetery       OH         Wolfinger Cemetery       Cemetery       OH         Walks Cemetery       Cemetery       OH         Mounts Cemetery       Cemetery       OH         Markel-Kirts Cemetery       Cemetery       OH         Waldo Cemetery       Cemetery       OH         Waldo Cemetery       Cemetery       OH         Marion County Cemeteries       Image: Cemeteries       Image: Cemeteries	FEATURE_NAME       ▼ FEATURE_C ▼ STATE_ALPI ▼ STATE_I         Augenstein Cemetery       Cemetery       OH         Berringer Cemetery       Cemetery       OH         Brown Taylor Cemetery       Cemetery       OH         Otterbein Cemetery       Cemetery       OH         Prospect Cemetery       Cemetery       OH         Prospect Cemetery       Cemetery       OH         Walls Cemetery       Cemetery       OH         Walls Cemetery       Cemetery       OH         Walls Cemetery       Cemetery       OH         Mounts Cemetery       Cemetery       OH         Markel-Kirts Cemetery       Cemetery       OH         Schweinfurth Cemetery       Cemetery       OH         Waldo Cemetery       Cemetery       OH         Marion County Cemeteries       ■       ■	FEATURE_NAME       FEATURE_C       STATE_ALPI       STATE_I         Augenstein Cemetery       Cemetery       OH       39         Berringer, Cemetery       Cemetery       OH       39         Brown Taylor Cemetery       Cemetery       OH       39         Otterbein Cemetery       Cemetery       OH       39         Prospect Cemetery       Cemetery       OH       39         Riverside Cemetery       Cemetery       OH       39         Walls Cemetery       Cemetery       OH       39         Wolfinger       Cemetery       OH       39         Wolfinger       Cemetery       OH       39         Mounts Cemetery       Cemetery       OH       39         Mounts Cemetery       Cemetery       OH       39         Mounts Cemetery       Cemetery       OH       39         Watt Cemetery       Cemetery       OH       39         Schweinfurth Cemetery       Cemetery       OH       39         Waldo Cemetery       Cemetery       OH       39         Waldo Cemetery       Cemetery       OH       39         Marion County Cemeteries       Setting       Seting       Seting	FEATURE NAME       FEATURE C       STATE ALP!       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### GeoNames

- National Geospatial-Intelligence Agency – a way to search for named places outside the USA
- https://www.nga.mil/ ----
  - https://geonames.nga.mil/geonames/GNSHome /index.html
- Choose "Geographic Names Search Application"; enter country and name
- Funky interface

### **Insurance Maps at Library of Congress (LOC)**

### • General:

https://www.loc.gov/maps/collections/ (try finding land ownership map for Crawford Co., PA)

### Sanborn Maps Collection

- https://www.loc.gov/collections/sanborn-maps/ about-this-collection/
- Example: (find the beer cooler in 1887 map)
- https://www.loc.gov/resource/g4184am.g08198 1887/?sp=1



### **Gazetters & Atlases**

- Place names & descriptions; may include maps
- Old style version of the GNIS mentioned earlier
- FamilySearch wiki list
  - https://www.familysearch.org/wiki/en/Gazetteers
- Atlas of Germany by Beidler
  - https://www.amazon.com/Family-Tree-Historical-Atlas-Germany /dp/1440354642/ref=redir\_mobile\_desktop?ie=UTF8&%2AVers ion%2A=1&%2Aentries%2A=0
- Meyers Gazetteer as an example
  - https://www.meyersgaz.org/
- Tool to Calculate distance given lat/long:
  - https://www.nhc.noaa.gov/gccalc.shtml



### **Germans from Russia**

- Google Earth and Germans from Russia
  - https://www.germansfromrussiasettlementlocat ions.org/2016/12/selz-kutschurgan.html
  - https://www.google.com/maps/d/viewer?mid=1 Sz-Sn4I1F-iqS2sNeeTPZ6-Jd8I&II=23.65842181 872636%2C44.69640625000011&z=3
  - https://america.germansfromrussiasettlementl ocations.org/home





## **Civil War Maps**

- Confederate & Federal sources
- National Archives is a great source
  - https://www.archives.gov/research/military/civil-wa r/resources.html
- Some states have great archives as well
- Read a book like <u>The Civil War</u> by Shelby Foote.
- Watch a video:
  - https://www.civilwar.org/learn/maps/entire-civil-war -animated-map





# Civil War maps (continued)

### • Nat. Archives:

- https://www.archives.gov/publications/prologue/2003/summer/civil-w ar-maps.html
- https://www.archives.gov/files/publications/general-info-leaflets/guid e-to-civil-war-maps.pdf
- VA:
  - https://www.lva.virginia.gov/public/guides/Civil-War/Maps.htm
- TN:
  - https://www.civilwartrails.org/docs/Tenn\_PDF-mapguide.pdf
- NC:
  - http://dc.lib.unc.edu/cdm/landingpage/collection/gilmer/



### **The Great Migration**

- "In early 2015 I had just completed work on Great Migration Directory, which contained abbreviated entries for each known head of household or isolated individual participant in the Great Migration. The result was an alphabetical listing of about 5,700 families or individuals. For about 1,800 of the entries, the English origin (defined as the last known residence in England before migration) was known." - Robert Charles Anderson
- The parish map is at https://www.americanancestors.org/publications/great-migration-study-proje ct/parish-map LivingDNA
   Great migration







### **Google Earth**

### Installing (browser versus pro for desktop)

- https://www.google.com/earth/versions/
- Demands chrome browser!
- Pro for Desktop: Linux, Windoz, MacOS
- iOS, Android apps?

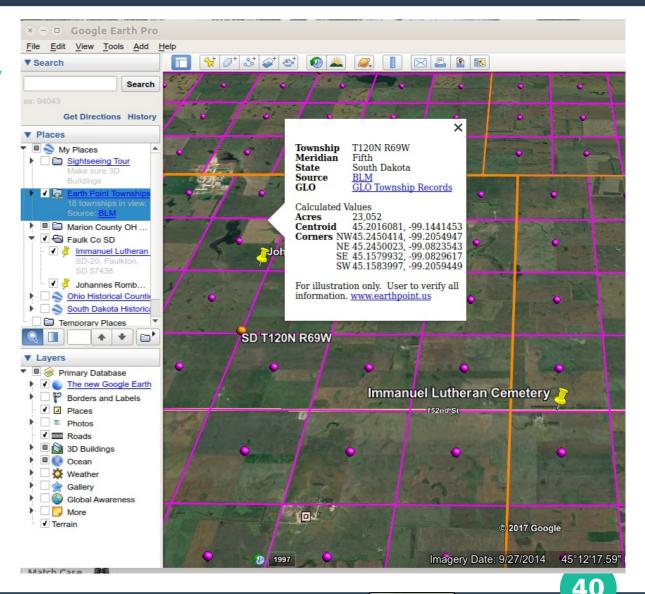
### Navigating Pro

- Search, places, layers
- Public land survey data (http://www.earthpoint.us/)
- Saving data (my places)
- Saving KML (https://developers.google.com/kml/); save to cloud, share link that others can use (web version - settings, allow kml import, then go to my places to import)
- Integrating old maps (add, image overlay, etc)
- Note: KMZ file is a zipped version of a KML file.



## **Adding Public Land Survey Data**

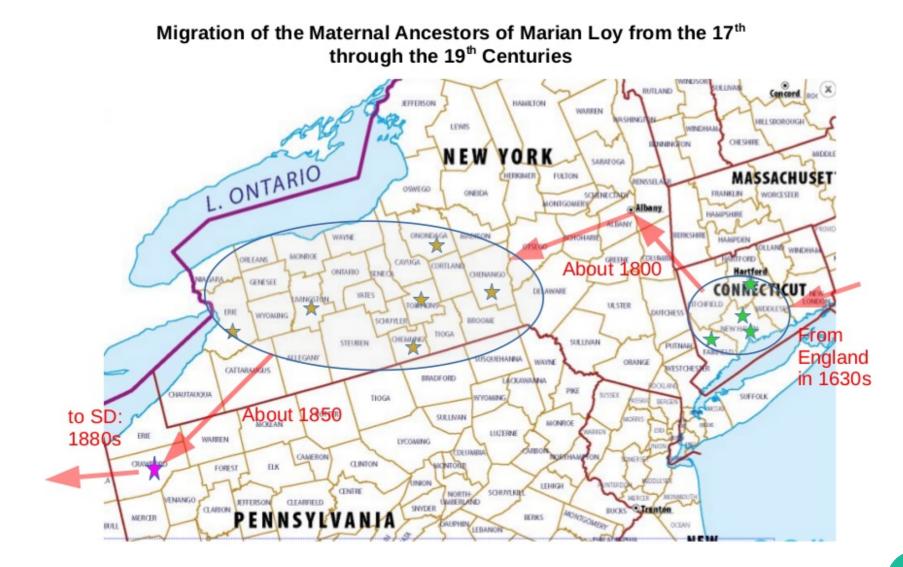
 See http://www.earthpoint.us/ and follow instructions. May not be free.







### Integrate with <u>Your</u> Timeline







### More Places to Get Lost In

- https://library.harvard.edu/libraries/harvard-map-collection
- https://digitalcollections.nypl.org/search/index?filters%5Bphy sicalLocation\_mtxt\_s%5D%5B%5D=Map+Division&keywords= &sort=dateDigitized\_dt+desc
- http://www.old-maps.com/index.htm
- https://collections.leventhalmap.org/
- http://www.historicmapworks.com/
- http://digital2.library.ucla.edu/viewItem.do?ark=21198/zz002 8tr8x
- https://www.philageohistory.org/tiles/viewer/
- http://www.chicagoinmaps.com/index.html
- Good overview video: https://youtu.be/Tii0ig0\_FuM

### Thanks for you time!

AND if you are REALLY into maps, try this reference.

<u>The History of Cartography</u>, vols. 1, 2, 3, ISBN: 9780226316338 Published May 1987

Available for about \$300 per volume or free (!) in pdf form at

http://www.press.uchicago.edu/books/HOC/i ndex.html

(The first two volumes are at the Central Branch of the Hennepin County Library as well.)



