Guide to Genealogy Resources
in the Map Collection
Harold B. Lee Library

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Provo, Utah
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MAP BASICS

Common Scales & Interpretations

<table>
<thead>
<tr>
<th>Scale</th>
<th>Ratio</th>
<th>Distance on Map</th>
<th>Distance on Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 : 24 000</td>
<td>1 inch to approx. 3/8 mile</td>
<td>1 cm to 240 m</td>
<td></td>
</tr>
<tr>
<td>1 : 63 360</td>
<td>1 inch to 1 mile</td>
<td>1 cm to 633.6 m</td>
<td></td>
</tr>
<tr>
<td>1 : 100 000</td>
<td>1 inch to 1.6 miles</td>
<td>1 cm to 1 km</td>
<td></td>
</tr>
<tr>
<td>1 : 250 000</td>
<td>1 inch to approx. 4 miles</td>
<td>1 cm to 2.5 km</td>
<td></td>
</tr>
<tr>
<td>1 : 500 000</td>
<td>1 inch to approx. 8 miles</td>
<td>1 cm to 5 km</td>
<td></td>
</tr>
</tbody>
</table>

We are used to seeing common road maps, where the scale may be stated as, for example: “1 inch = 50 miles” or “1 cm = 50 km”. This description is good if you have an odometer. But most maps use a ratio to state the scale. For example, the scale may read, “1 : 250,000”. This means 1 unit of measure on a map, equals 250,000 of that same unit of measure on the ground. Or stated another way, 1 inch on the map = 250,000 inches on the ground, 1 cm on the map equals 250,000 cm (2.5 km) on the ground, or 1 cubit on the map equals 250,000 cubits on the ground. With a simple ratio, you can measure your map in whatever increments you choose.

Latitude (Lat.) and Longitude (Long.)

Latitude lines are parallel. They run east west, but measure north south.

Longitude lines cross at the poles. They run north south, but measure east west.

Source: http://www.geographyalltheway.com/year7_geography/maps_atlases/longitude_latitude.htm
The Earth has 180° of latitude (90 N + 90 S) and 360° of longitude (180 E + 180 W):

Latitude Range: 0° (Equator) to 90° North (North Pole)
                0° (Equator) to 90° South (South Pole)
Longitude Range: 0° (Prime Meridian-Greenwich) to 180° East (International Date Line)
                0° (Prime Meridian-Greenwich) to 180° West (International Date Line)

Explanation of Degrees, Minutes, and Seconds

Every degree is divided by 1/60th, and it’s called a minute. This has nothing to do with time. It’s just a sixtieth of a degree. Every minute is divided by 1/60th, and it’s called a second. Again, this has nothing to do with keeping time. Degrees, minutes and seconds are the methods used for measuring the curvature of the Earth.

1° Latitude ≈ 68.96 miles

\[
\begin{align*}
1 \text{ degree} (1^\circ) &= 60 \text{ minutes} (60') \\
\frac{3}{4} \text{ }^\circ &= 45' \\
\frac{1}{2} \text{ }^\circ &= 30' \\
\frac{1}{4} \text{ }^\circ &= 15' \\
1' &= 60 \text{ seconds} (60'') \\
\frac{1}{2} ' &= 30'' \\
\end{align*}
\]

1° Longitude varies in distance
(Measuring East and West)

1° of Longitude is 69.17 miles at equator, decreasing to 0 as you move towards the poles.
The Difference Between
Greenwich & Other Historical Prime Meridians

While we commonly use Greenwich as the prime meridian worldwide today, this has not always been the case. Historically, map makers and citizens from various countries would use their own national capitals as their own prime meridians. If the map was made in Germany, the prime meridian was Berlin. If the map was made in Kentucky, the prime meridian was Washington D.C. Between 1884 with the International Meridian Conference, and 1911 when France stopped using Paris as their prime meridian, the cartographers and navigators of the world gradually made the transition, and we all now use Greenwich as the prime meridian.

So if you know the modern coordinates of a specific place on the globe, but the map you are using to plot this location happens to be from, let’s say 1860, and it does not use Greenwich as the prime meridian, then you’ll have to adjust your coordinates accordingly, east or west, depending upon which Prime Meridian the map is using. Below are some of the Historical Prime Meridians and their deviations from Greenwich.

<table>
<thead>
<tr>
<th>Prime Meridian</th>
<th>Degree</th>
<th>Minute</th>
<th>Second</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amersfoort, Netherlands</td>
<td>5°</td>
<td>23’</td>
<td></td>
</tr>
<tr>
<td>Amsterdam, Netherlands</td>
<td>4°</td>
<td>53’</td>
<td>01”</td>
</tr>
<tr>
<td>Antwerp, Belgium</td>
<td>4°</td>
<td>22’</td>
<td>50”</td>
</tr>
<tr>
<td>Athens (Athina), Greece</td>
<td>23°</td>
<td>42’</td>
<td>59”</td>
</tr>
<tr>
<td>Jakarta, Indonesia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batavia, East Indies see Jakarta, Indonesia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beijing (Peking), China</td>
<td>116°</td>
<td>28’</td>
<td>10”</td>
</tr>
<tr>
<td>Berlin, Germany</td>
<td>13°</td>
<td>23’</td>
<td>55”</td>
</tr>
<tr>
<td>Bern, Switzerland</td>
<td>7°</td>
<td>26’</td>
<td>22”</td>
</tr>
<tr>
<td>Bogotá, Colombia</td>
<td>74°</td>
<td>04’</td>
<td>53”</td>
</tr>
<tr>
<td>Bombay, India see Mumbai, India</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brussels (Bruxelles), Belgium</td>
<td>4°</td>
<td>22’</td>
<td>06”</td>
</tr>
<tr>
<td>Bucharest (Bucureşti), Romania</td>
<td>26°</td>
<td>07’</td>
<td></td>
</tr>
<tr>
<td>Cádiz, Spain</td>
<td>6°</td>
<td>17’</td>
<td>42”</td>
</tr>
<tr>
<td>Canberra, Australia</td>
<td>149°</td>
<td>08’</td>
<td></td>
</tr>
<tr>
<td>Capetown, South Africa</td>
<td>18°</td>
<td>28’</td>
<td>41”</td>
</tr>
<tr>
<td>Caracas, Venezuela</td>
<td>66°</td>
<td>55’</td>
<td>50”</td>
</tr>
<tr>
<td>Celebes, Indonesia see Sulawesi, Indonesia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chennai (Madras), India</td>
<td>80°</td>
<td>14’</td>
<td>50”</td>
</tr>
<tr>
<td>Copenhagen, Denmark</td>
<td>12°</td>
<td>34’</td>
<td>40”</td>
</tr>
<tr>
<td>Córdoba, Argentina</td>
<td>64°</td>
<td>12’</td>
<td>03”</td>
</tr>
<tr>
<td>Djakarta (Batavia), Indonesia see Jakarta, Indonesia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferro (Hierro), Canary Islands</td>
<td>17°</td>
<td>39’</td>
<td>46”</td>
</tr>
<tr>
<td>Genova (Genoa), Italy</td>
<td>8°</td>
<td>55’</td>
<td></td>
</tr>
<tr>
<td>Helsinki, Finland</td>
<td>24°</td>
<td>57’</td>
<td>17”</td>
</tr>
<tr>
<td>Istanbul, Turkey</td>
<td>28°</td>
<td>58’</td>
<td>50”</td>
</tr>
<tr>
<td>Jakarta, Indonesia</td>
<td>106°</td>
<td>48’</td>
<td>28”</td>
</tr>
</tbody>
</table>
Julianehaab (Juliannehåb), Greenland see QaQortoq, Greenland
København, Denmark see Copenhagen, Denmark
Leningrad, Russia see St. Petersburg, Russia

<table>
<thead>
<tr>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>City</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julianehaab</td>
<td></td>
<td></td>
<td>QaQortoq, Greenland</td>
<td></td>
</tr>
<tr>
<td>København, Denmark</td>
<td></td>
<td></td>
<td>Copenhagen, Denmark</td>
<td>Denmark</td>
</tr>
<tr>
<td>Leningrad, Russia</td>
<td></td>
<td></td>
<td>St. Petersburg, Russia</td>
<td>Russia</td>
</tr>
<tr>
<td>Lisboa (Lisbon), Portugal</td>
<td>9°</td>
<td>11'</td>
<td>Lisbon, Portugal</td>
<td>Portugal</td>
</tr>
<tr>
<td>London, U.K.</td>
<td>0°</td>
<td>05'</td>
<td>London, U.K.</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Madrid, India</td>
<td>3°</td>
<td>41'</td>
<td>Chennai (Madras), India</td>
<td>India</td>
</tr>
<tr>
<td>Mexico City, Mexico</td>
<td>99°</td>
<td>40'</td>
<td>Mexico City, Mexico</td>
<td>Mexico</td>
</tr>
<tr>
<td>Moscow (Moskva), Russia</td>
<td>37°</td>
<td>34'</td>
<td>Moscow, Russia</td>
<td>Russia</td>
</tr>
<tr>
<td>Mumbai (Bombay), India</td>
<td>72°</td>
<td>48'</td>
<td>Mumbai, India</td>
<td>India</td>
</tr>
<tr>
<td>Munich, Germany</td>
<td>11°</td>
<td>36'</td>
<td>Munich, Germany</td>
<td>Germany</td>
</tr>
<tr>
<td>Napoli (Naples), Italy</td>
<td>14°</td>
<td>15'</td>
<td>Naples, Italy</td>
<td>Italy</td>
</tr>
<tr>
<td>Oslo (Christiania), Norway</td>
<td>10°</td>
<td>43'</td>
<td>Oslo, Norway</td>
<td>Norway</td>
</tr>
<tr>
<td>Padang (Sumatra), Indonesia</td>
<td>100°</td>
<td>22'</td>
<td>Singkawang, Indonesia</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Paris, France</td>
<td>2°</td>
<td>20'</td>
<td>Paris, France</td>
<td>France</td>
</tr>
<tr>
<td>Pekin, China</td>
<td></td>
<td></td>
<td>Beijing (Peking), China</td>
<td>China</td>
</tr>
<tr>
<td>Philadelphia, Pa., U.S.A.</td>
<td>75°</td>
<td>08'</td>
<td>Philadelphia</td>
<td>United States</td>
</tr>
<tr>
<td>Pico, Azores, Portugal</td>
<td>28°</td>
<td>25'</td>
<td>Pico, Azores</td>
<td>Portugal</td>
</tr>
<tr>
<td>Pulkovo (St. Petersburg), Russia</td>
<td>30°</td>
<td>19'</td>
<td>Pulkovo, Russia</td>
<td>Russia</td>
</tr>
<tr>
<td>QaQortoq (Juliannehåb), Kalaallit Nunaat, Greenland</td>
<td>46°</td>
<td>02'</td>
<td>QaQortoq, Greenland</td>
<td>Greenland</td>
</tr>
<tr>
<td>Quito, Ecuador</td>
<td>7°</td>
<td>30'</td>
<td>Quito, Ecuador</td>
<td>Ecuador</td>
</tr>
<tr>
<td>Rio de Janeiro, Brazil</td>
<td>43°</td>
<td>01'</td>
<td>Rio de Janeiro, Brazil</td>
<td>Brazil</td>
</tr>
<tr>
<td>Rome (Roma), Italy</td>
<td>12°</td>
<td>29'</td>
<td>Rome, Italy</td>
<td>Italy</td>
</tr>
<tr>
<td>Rotterdam, Netherlands</td>
<td>4°</td>
<td>29'</td>
<td>Rotterdam, Netherlands</td>
<td>Netherlands</td>
</tr>
<tr>
<td>San Fernando, Spain</td>
<td>6°</td>
<td>12'</td>
<td>San Fernando, Spain</td>
<td>Spain</td>
</tr>
<tr>
<td>Santiago, Chile</td>
<td>7°</td>
<td>41'</td>
<td>Santiago, Chile</td>
<td>Chile</td>
</tr>
<tr>
<td>Singkawang, Indonesia (Island of Borneo)</td>
<td>108°</td>
<td>59'</td>
<td>Singkawang, Indonesia</td>
<td>Indonesia</td>
</tr>
<tr>
<td>South Sumatera, Indonesia</td>
<td>103°</td>
<td>33'</td>
<td>South Sumatera, Indonesia</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Stockholm, Sweden</td>
<td>18°</td>
<td>03'</td>
<td>Stockholm, Sweden</td>
<td>Sweden</td>
</tr>
<tr>
<td>St. Petersburg (Leningrad), Russia</td>
<td>30°</td>
<td>18'</td>
<td>St. Petersburg, Russia</td>
<td>Russia</td>
</tr>
<tr>
<td>Sucre, Bolivia</td>
<td>65°</td>
<td>15'</td>
<td>Sucre, Bolivia</td>
<td>Bolivia</td>
</tr>
<tr>
<td>Sulawesi, Indonesia</td>
<td>121°</td>
<td>48'</td>
<td>Sulawesi, Indonesia</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Sydney, Australia</td>
<td>151°</td>
<td>12'</td>
<td>Sydney, Australia</td>
<td>Australia</td>
</tr>
<tr>
<td>Tenerife, Canary Islands</td>
<td>16°</td>
<td>35'</td>
<td>Tenerife, Canary Islands</td>
<td>Spain</td>
</tr>
<tr>
<td>Tirane, Albania</td>
<td>19°</td>
<td>46'</td>
<td>Tirane, Albania</td>
<td>Albania</td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td>139°</td>
<td>44'</td>
<td>Tokyo, Japan</td>
<td>Japan</td>
</tr>
<tr>
<td>Washington, D.C., U.S.A.</td>
<td>77°</td>
<td>00'</td>
<td>Washington, D.C., U.S.A.</td>
<td>United States</td>
</tr>
</tbody>
</table>

Surveying of the United States - An Overview

If you happen to come across a will, deed, or general description of a parcel of land, an understanding of basic surveying methods may be helpful.

The original 13 colonies, plus Kentucky, Tennessee, and Texas, were first surveyed using what's called Metes and Bounds. This is basically the measurement of the land within the surveyor's view. He would measure from this rock, to the fork in that river, to the crest of the hilltop way over yonder. Triangulating, he’d establish locations and boundaries, from one landmark to the next. Then he’d go to the crest of the yonder hill, and survey down the other side. Where landmarks were not available, physical monuments or markers were permanently placed in the ground to document the measurements for future reference. Often these markers would be unearthed by a plow, intentionally removed, or misplaced over time. Washington D.C. originally had surveying monuments every ¼ mile around its border. Over time most of these monuments have disappeared.

Later, as the country expanded west, Township and Range grids were established using meridians and base lines. (See U.S. map on the next page.) This advancement in technology allowed surveyors to set up grids from a single point, and measure the land with limited use of geographical features or monuments. Each state and or region, established a base and meridian line from which to measure the land, north, south, east, and west. There will be more about the fine points of Township and Range later.

Warning! There is one potential source for confusion to researchers. The term “Township” when describing a place in the original 13 colonies, is referring to a named jurisdictional subdivision within a county, distinct from cities that may include towns and villages, and should not be confused with Township and Range.

A Strange Situation - Ohio!

Ohio is unique. This state was settled right when surveying technologies were changing dramatically. The state ended up being surveyed multiple times, using multiple competing methodologies. While the use of Metes and Bounds was on the wane, the more “advanced” surveys that were used, resulted in differing grid orientations, and numbering patterns. Because there was little or no coordination, some survey’s overlapped each other.

For a researcher, trying to pinpoint a parcel of land in Ohio may be problematic. In order to know exactly where the land happens to be, you’ll have to know which survey the deed
description applies to. If you already have a good idea where the specific survey was conducted, then you may not need to be more specific in locating the parcel of land. But if pinpointing the location is still necessary, not only do you need to know which survey applies, but there may be more than 1 survey that covers this single parcel or lot. There may also be conflicts between the various surveys. Ohio can be fun! (See Ohio map below.)

http://www.blm.gov/cadastral/meridians/pmmap.jpg
As mentioned earlier, township and range uses 2 lines, a base line running east west, and a transit or meridian line running north south, from which to measure the land in the four cardinal directions. (See diagram above, lower left, as well as U.S. map previous page.)
Each township and range township is represented by a string of letters and numbers, and encompasses 36 square miles which are broken down further into 1 square mile blocks called sections. For example: T1N R1E 16 represents Township 1 North, Range 1 East, section 16. (See diagram above, upper right.)

Within a deed or land description, the property may be broken down further within each square mile section. For example: an ancestor was bequeathed 160 acres including the residence, and all the buildings, in the NE corner of section 2, Township 1 South, Range 1 West, while a younger brother was bequeathed a frame house on lot 20 in the SW ¼ of the NW ¼ of the same section. (See diagram above, lower right.)

At first glance, this all may seem overwhelming, but once you understand the general principals involved, it's consistently pretty straight forward.

Again, township and range must not be confused with the named townships, jurisdictional divisions, within counties, in the original 13 colonies.

For further information on the history of surveying, go to: http://www.surveyhistory.org/metes_&_bounds_vs__public_lands.htm

**Measurement Conversions**

<table>
<thead>
<tr>
<th>Unit</th>
<th>yards</th>
<th>feet</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable</td>
<td>240</td>
<td>720</td>
<td>8,640</td>
</tr>
<tr>
<td>Chain</td>
<td>22</td>
<td>66</td>
<td>792</td>
</tr>
<tr>
<td>Fathom</td>
<td>2</td>
<td>6</td>
<td>72</td>
</tr>
<tr>
<td>Furlong</td>
<td>220</td>
<td>660</td>
<td>7,920</td>
</tr>
<tr>
<td>League (3 miles)</td>
<td>5,280</td>
<td>15,840</td>
<td>190,080</td>
</tr>
<tr>
<td>Link</td>
<td></td>
<td>0.66</td>
<td>7.92</td>
</tr>
<tr>
<td>Mile, Nautical, British</td>
<td>2,026.75</td>
<td>6,080.27</td>
<td>72,963.24</td>
</tr>
<tr>
<td>Mile, Nautical = International Nautical Mile</td>
<td>2,025.37</td>
<td>6,076.1²</td>
<td>72,913.2</td>
</tr>
<tr>
<td>Mile, Statute</td>
<td>1,760</td>
<td>5,280</td>
<td>63,360</td>
</tr>
<tr>
<td>Pace</td>
<td></td>
<td>30 approx.</td>
<td></td>
</tr>
<tr>
<td>Perch, Pole or Rod</td>
<td>5.5</td>
<td>16.5</td>
<td>198</td>
</tr>
<tr>
<td>Acre</td>
<td>4.840</td>
<td>43.560</td>
<td></td>
</tr>
</tbody>
</table>

*a. Before 1 July 1954 one U.S. Nautical Mile was 6,080.21 ft.*

ITEMS IN THE BYU MAP COLLECTION

General Information

• Most atlases and gazetteers are going to be found in the Map Bookshelves, or Map Bookshelves Folio sections in the library.
• Most maps are going to be found either in Map Case or Map File

Maps

• Index maps
• Thematic maps (a map based around a common theme – e.g. administrative divisions, linguistic groups, socio-economic class, etc.)
• Topographic maps (topos)
  Cultural features
  Elevation (contours & spot heights)
  Natural features
• Plat maps (or cadastral)
  Property boundaries
  Names of property owners
  Size of property
  Cultural features
• Period maps (reproductions)
• Historical maps
• Road maps
• World maps
• National maps
• State maps
• Parks and Outdoor Recreation maps
• County maps
• City maps

Gazetteers – A gazetteer is a geographic dictionary or index that aids in locating a particular place on the earth. Some give word descriptions, others give just rudimentary information such as latitude and longitude.

• Descriptive or place name books
• World
• National
• State (or political equivalent)
• County (or political equivalent)

**Atlases** – An atlas is a book or bound collection of maps, sometimes with supplementary illustrations and graphic analyses.

• Thematic
• Road
• Historical
• World
• National
• State (or political equivalent)
• County (or political equivalent)

**Finding Tools**

Lee Library Online Catalog:  [http://www.lib.byu.edu/](http://www.lib.byu.edu/)
Most atlas, gazetteer, and map records are in the online catalog. Ask for assistance at the Science/Maps Reference Desk to find out which maps are not cataloged individually.

Index to Atlases and Gazetteers: Located on the Map Dictionary Stand, as well as online. Lists atlases and gazetteers, titles and call numbers, library wide. Grouped by country and state. Includes a table of contents. Online version has links to specific pages from the table of contents.

Omni Gazetteer: Located on the Map Dictionary Stand, includes lists of cities and landmarks within the U.S., along with the quadrangle names used on the USGS 7.5 minute series.

Collection of Map Series Indices: Located on the Map Dictionary Stand, includes the index maps for all the map series held by the library. With pages organized in call number order, one can determine which sheet number is needed to locate a place within any country or region of the world.
A GUIDE TO READING AND UNDERSTANDING MAP CALL NUMBERS

The following pages list both Atlas/Gazetteer and Map Library of Congress call numbers for many of the countries of the world, Canadian provinces, and states of the United States.

The first line on map call numbers (excluding Atlases), either end with a number between 0 and 4, or between 5 and 9. For example: G4340 thru G4344 for Utah, or G8015 thru G8019 for Laos.

These number ranges stand for the following:

- 0 and 5 – General Maps
- 1 and 6 – Thematic (Subject) Maps
- 2 and 7 – Area Maps
- 3 and 8 – County Maps (or their overseas equivalent)
- 4 and 9 – City Maps

Within the map collection, you will potentially find the above 5 categories for every state, province, territory, and country in the world.

Map call numbers are constructed as follows, using dates, scales, and cutters, to make each call number unique. A cutter is a letter number combination that represents a word or phrase. With maps, cutters represent authors, place names, and subjects. While author and place name cutters may make sense, (Zion .Z5, United States .U5, Provo as place .P8, Provo as author .P76x), subject cutters are arbitrarily assigned by the Library of Congress. Why, for example, Geology was assigned .C5 while road maps were assigned .P2 is a mystery to many. That said, if you need help with specific subjects, assistance is available at the desk.

The examples below are for Utah only, but this same pattern will apply for every call number listed in the pages that follow.

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If you understand this call number breakdown, it will be easy for you; even as a novice map user, to freely browse the map collection looking for maps that will uniquely fulfill your needs.

For example, if you are looking for a map of Arches National park, following the groupings above, you'll see that Arches would fall under the Utah Area call number, G4342. It is not a city, or a county, nor are you interested in a general map of the state. Once in the G4342 drawers, all you'll have to do is work your way thru the .A's to .A68. The area cutters are alphabetical as are the place names. If you need a specific date, the date is also shown in the call number.

If you want a map of Price, you'll see that location falls under the Utah City call number, G4344. Once in that drawer, all you'll have to do is work your way thru the .P's to .P7. As you're browsing, you'll also see Park City .P3 and Pleasant Grove .P6. If you see Provo .P8, you've gone a bit too far. And again, the date is in the call number.

Use of the Map Collection

Feel free to browse the map collection as you wish. Pull out and view as many maps as you'd like. Once done, leave the maps on the tables, or on top of one of the map cases.

PLEASE DO NOT REFILE MAPS!!

Just leave them out in the open. We will file the maps for you. Circulation privileges are available for students and friends of the library. Scanning and digitizing services are also available. Visit the Science/Maps desk for assistance.
# Atlas & Map Call Number List

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