Using Maine Web Mapping Services to Assist Real Estate Practices

September 13, 2014 | William Hanson, Esq. & Joseph Young

Objectives

- Learn about:
  - the role of the GeoLibrary in reducing the costs of acquiring geospatial data,
  - free web-based mapping tools, and use them to increase efficiencies in your daily work.
- By the end of this presentation you will be able to:
  - Communicate more effectively over the phone with someone regarding a specific place
  - Determine coordinates of subject parcel, and email coordinates or Google Earth place marker file
  - Quickly develop abutter lists and export tables
  - Download various free datasets to aid in your work
  - Utilize free available historical imagery

GEOLIBRARY ORGANIZATION

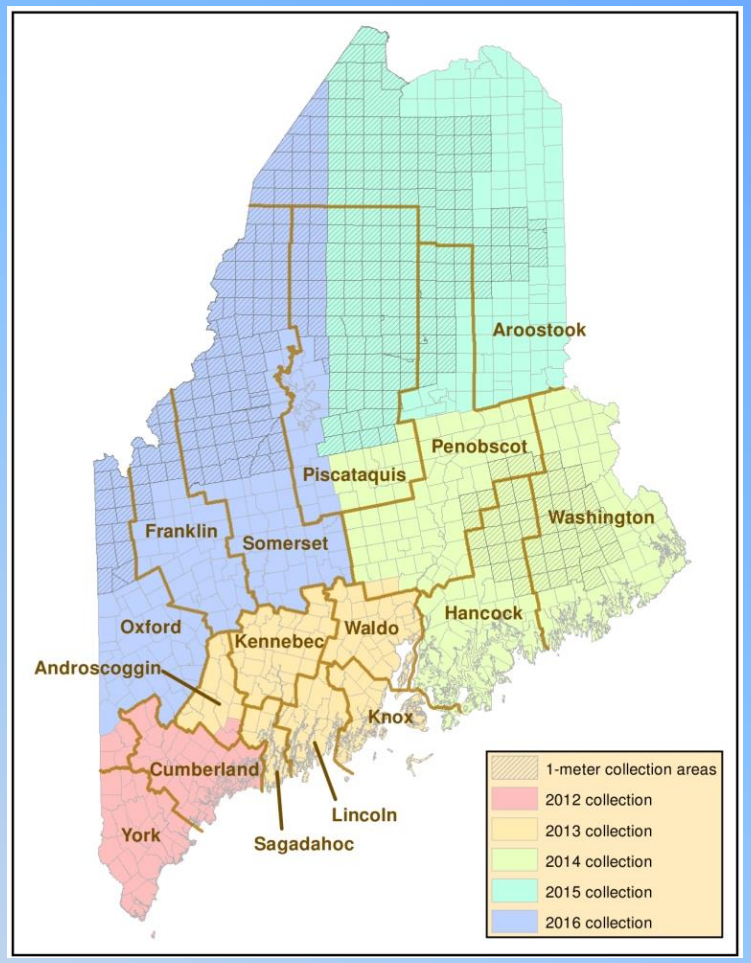
- 15 Member Volunteer Board Appointed by the Governor, Speaker of the House and President of the Senate
  - State Agencies
  - Private and Non-Profit Sectors
  - Counties
  - Municipalities
  - Public

PROJECTS

- Provides Coordinating Role to Acquire Geospatial Data
  - Orthoimagery
  - High Resolution Topographic data (LiDAR)
  - Unified Parcel Data Layer

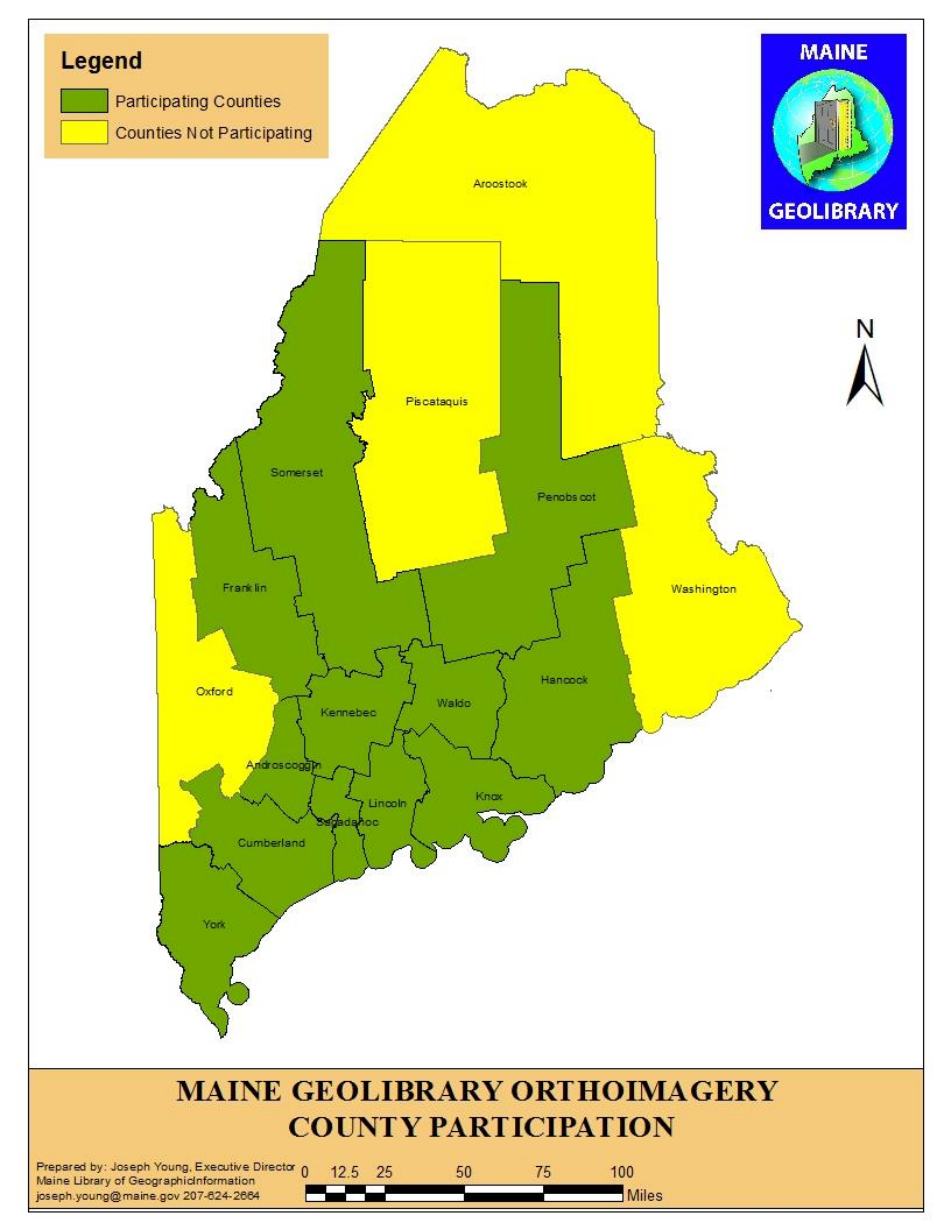
ORTHOIMAGERY

- 5 YEAR PROGRAM TO REFRESH STATE IMAGERY

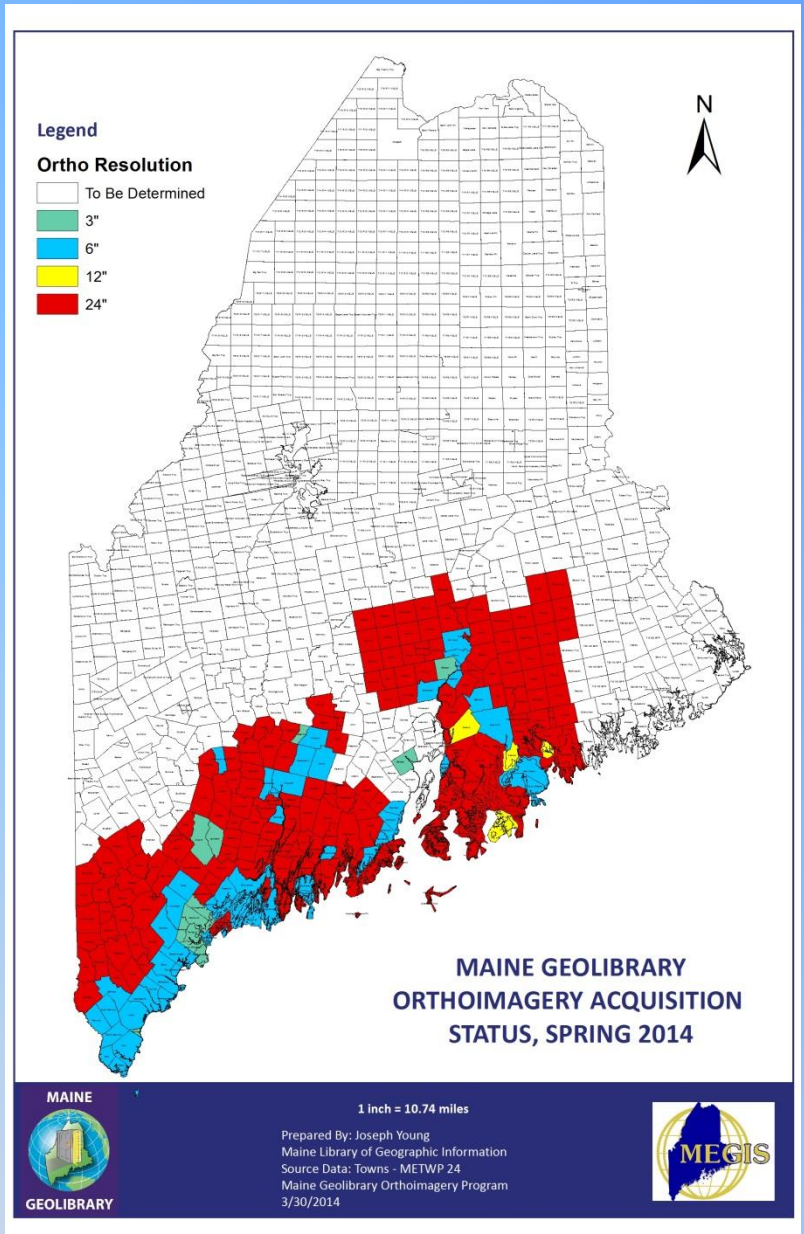


PROGRESS TO DATE

- 14 OF 16 COUNTIES COMMITTED TO PROGRAM

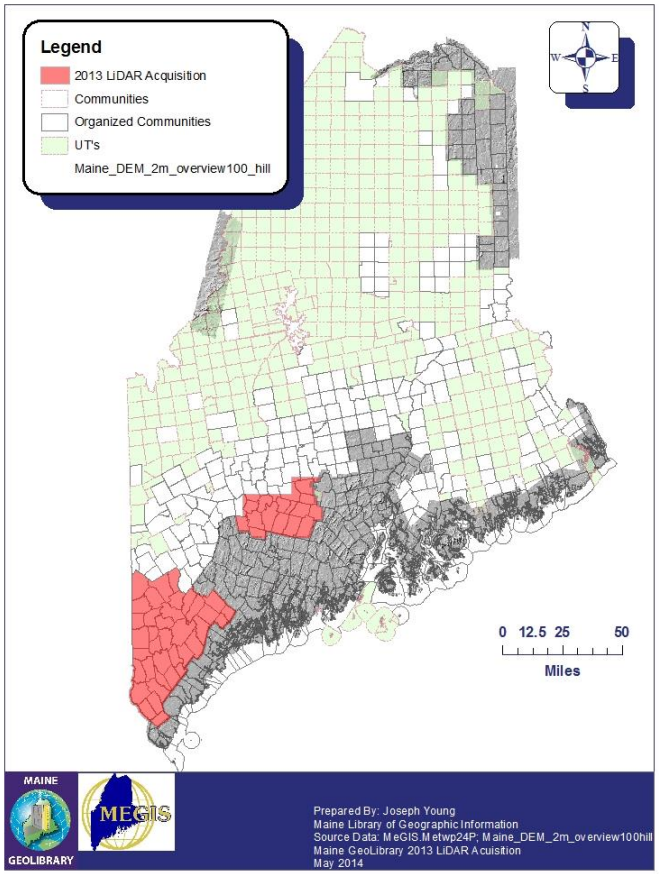


COMMUNITY PARTICIPATION



TOPOGRAPHY- (LiDAR)

- Current Availability
  - Approximately 10,000 sq. mi.



WHAT IS LiDAR?

- Billions of Point Locations

ESRI ASCII GRID.asc

```
NCOLS 501
NROWS 501
XLLCORNER 678999.000
YLLCORNER 235499.000
CELLSIZE 2.000
NODATA_VALUE -9999.000
791.33 791.73 792.07 792.58 79
5.34 815.06 814.77 814.23 813.
77 738.69 738.62 738.51 738.47
703.52 703.14 702.64 702.05 70
791.18 791.50 791.86 792.46 79
6.95 816.67 816.38 816.10 815.
63 738.56 738.50 738.38 738.31
703.38 703.04 702.45 701.87 70
791.06 791.39 791.72 792.18 79
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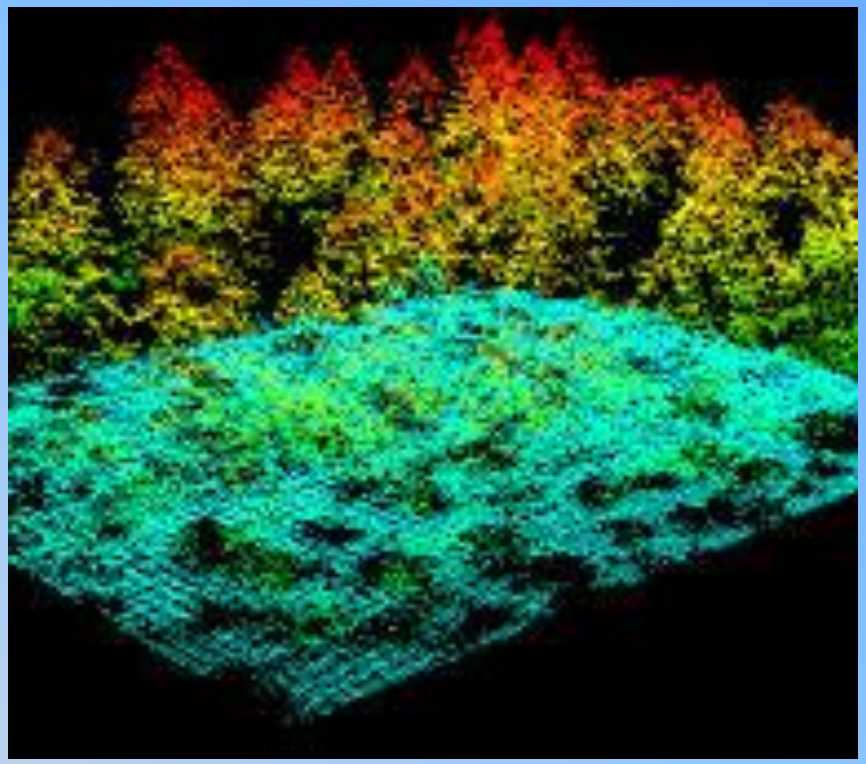
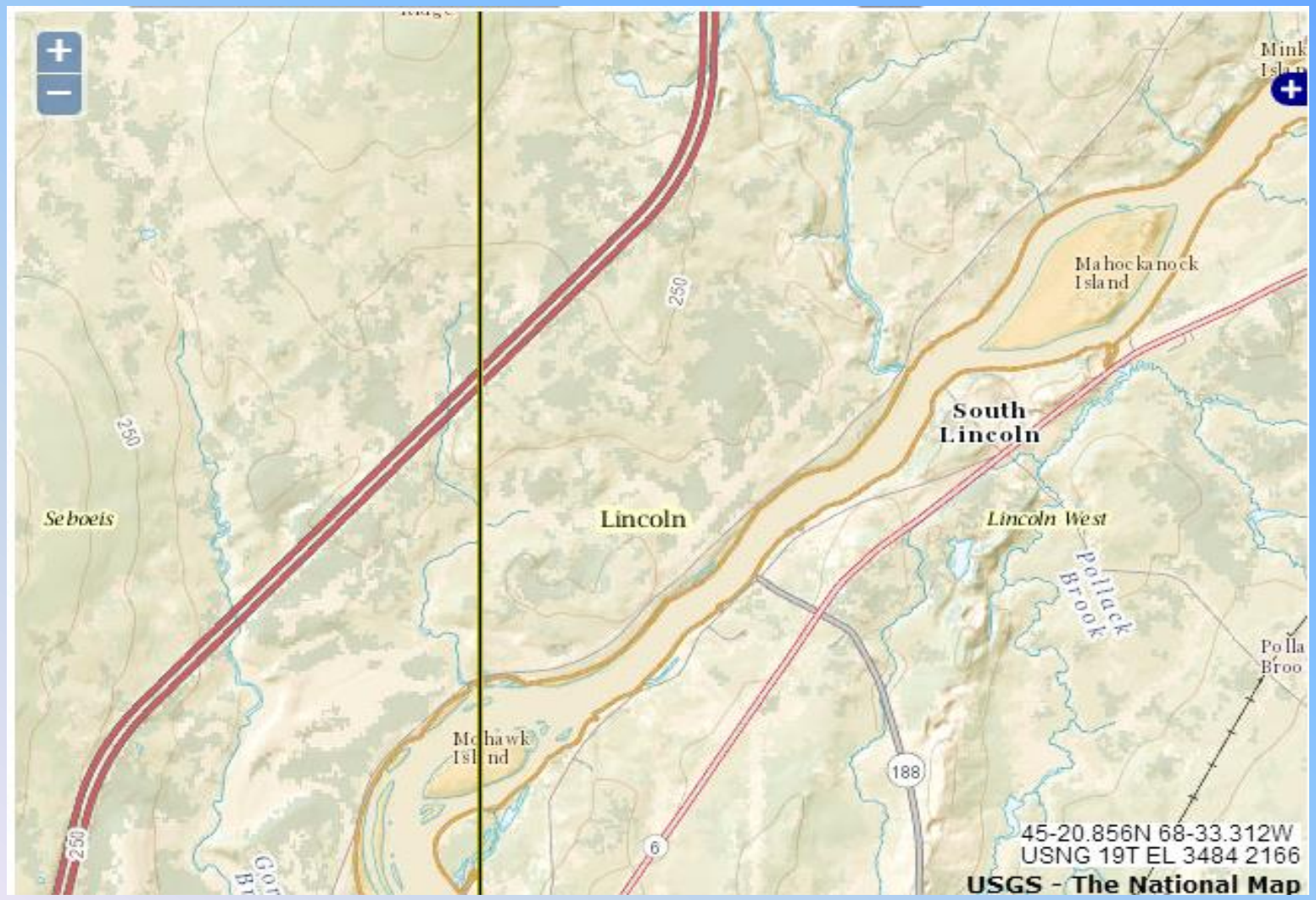


LiDAR PRODUCTS

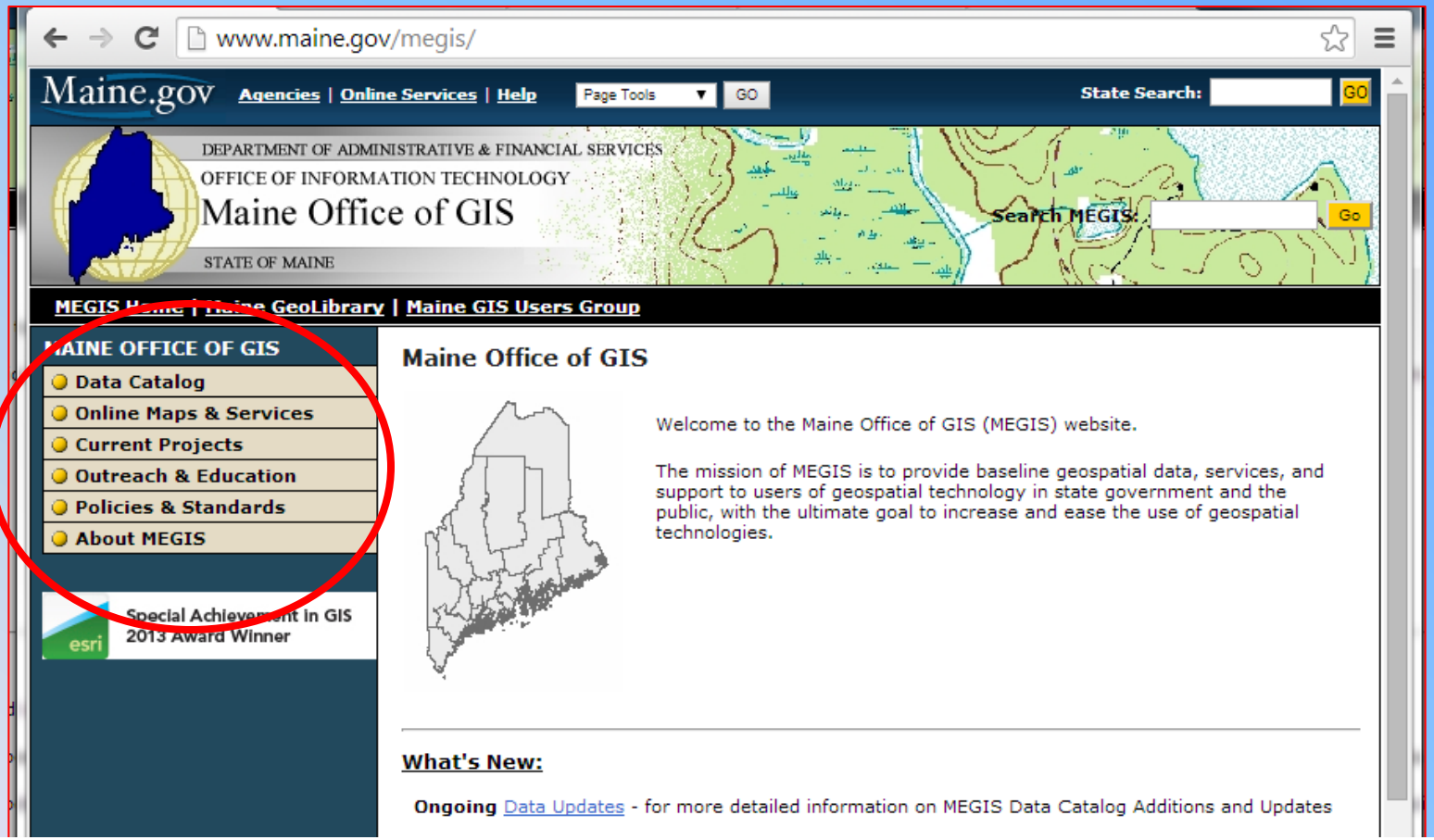
- Improves contour intervals to 1’ or 2’
- Suitable for Development Permit Applications

- Provides opportunities for many other data sets
  - Building Footprints
  - Land Cover Determinations
  - Impervious Surface Quantification
  - Forest Analytics
  - Wetlands Identification

THE USGS NATIONAL MAP

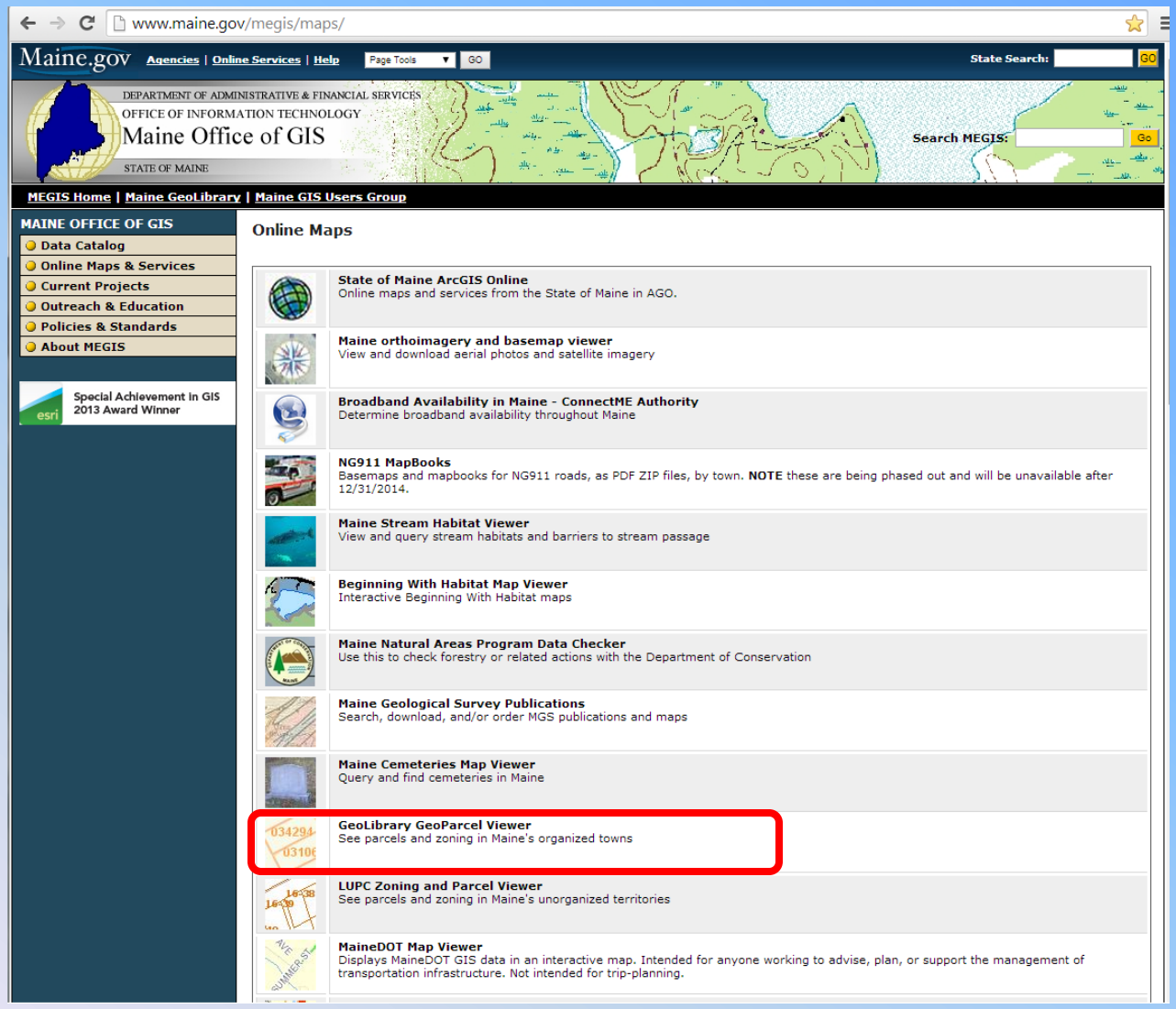


Maine Office of GIS (MEGIS)

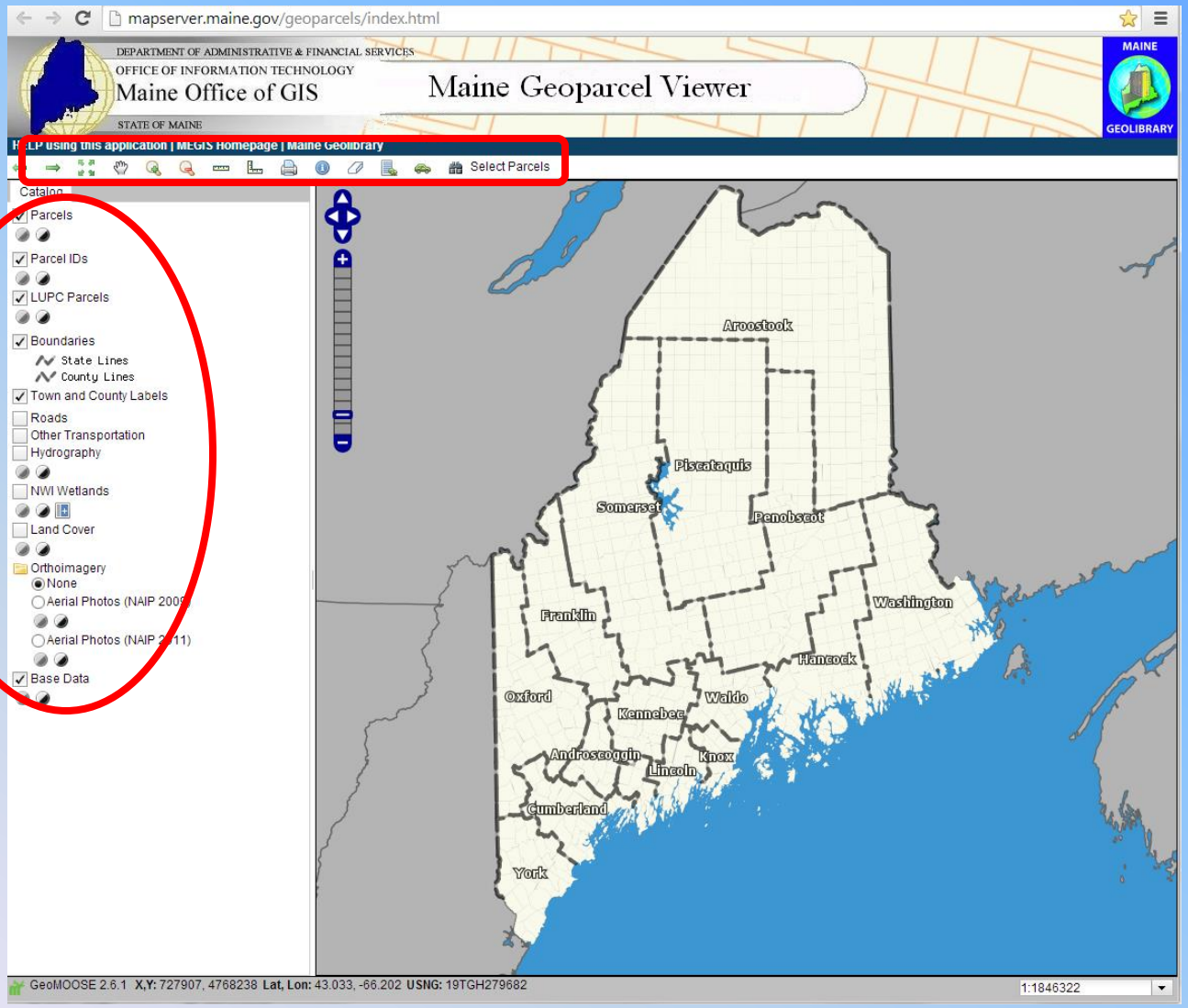


www.maine.gov/megis

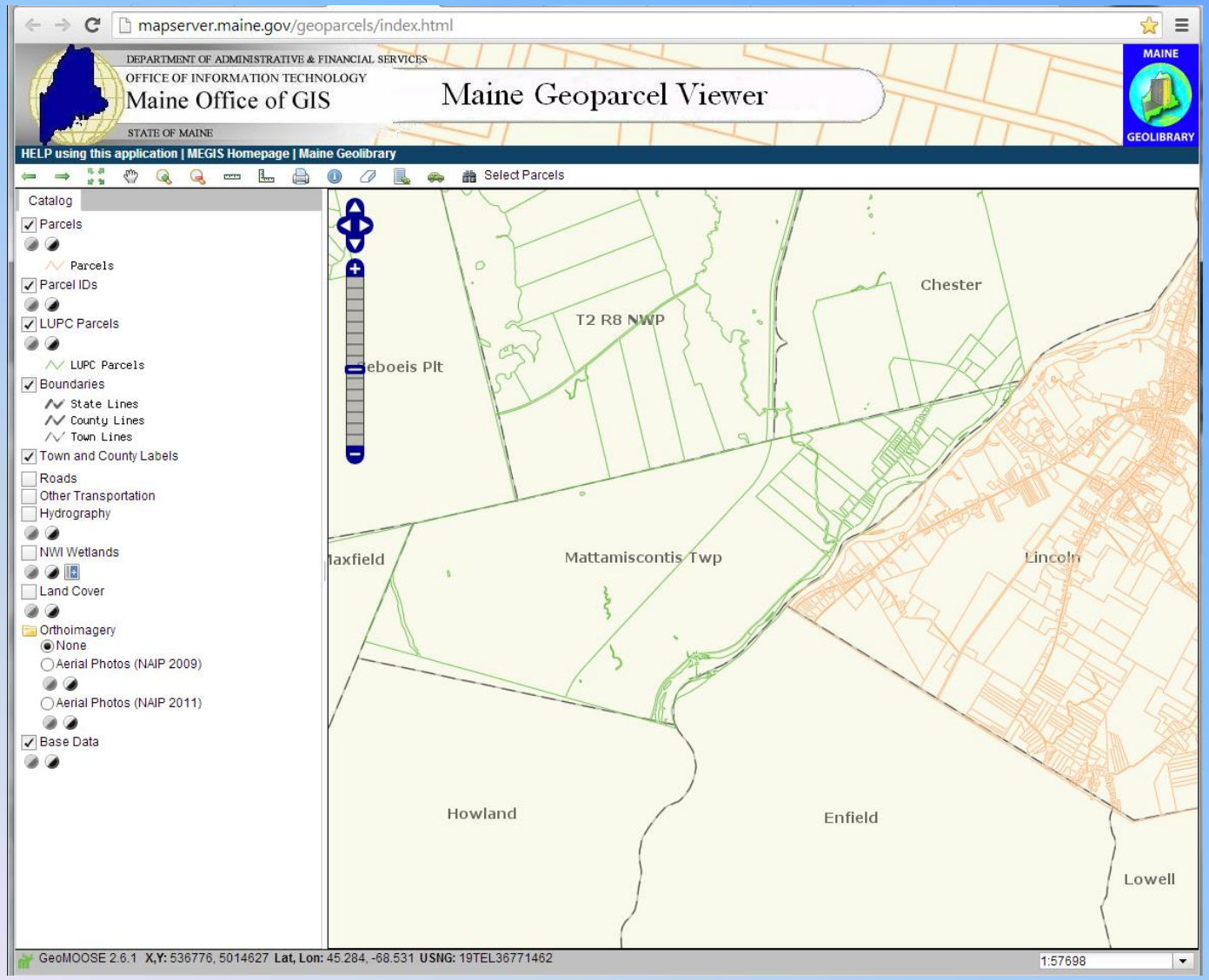
MEGIS - Online Maps



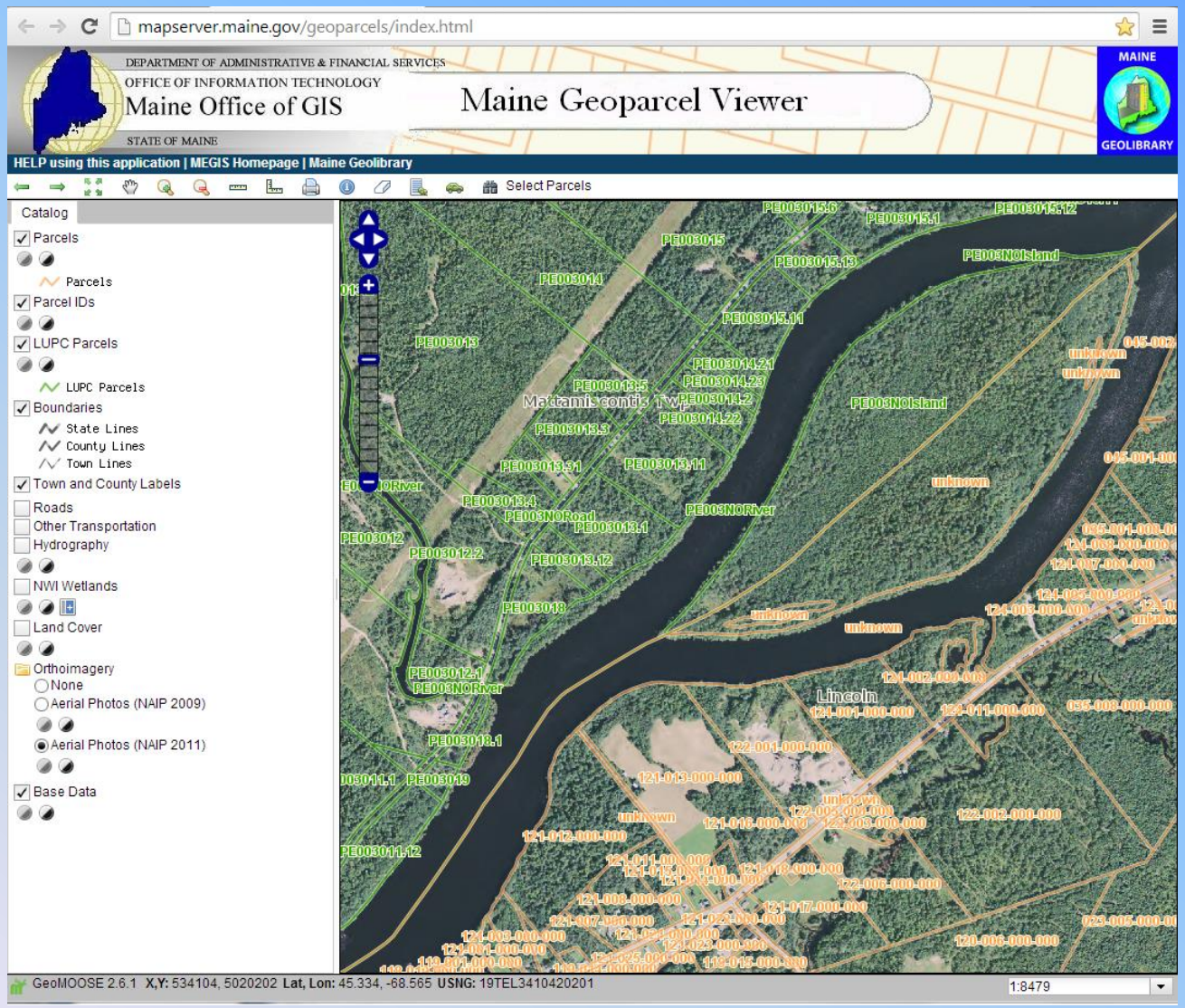
Maine Geoparcel Viewer



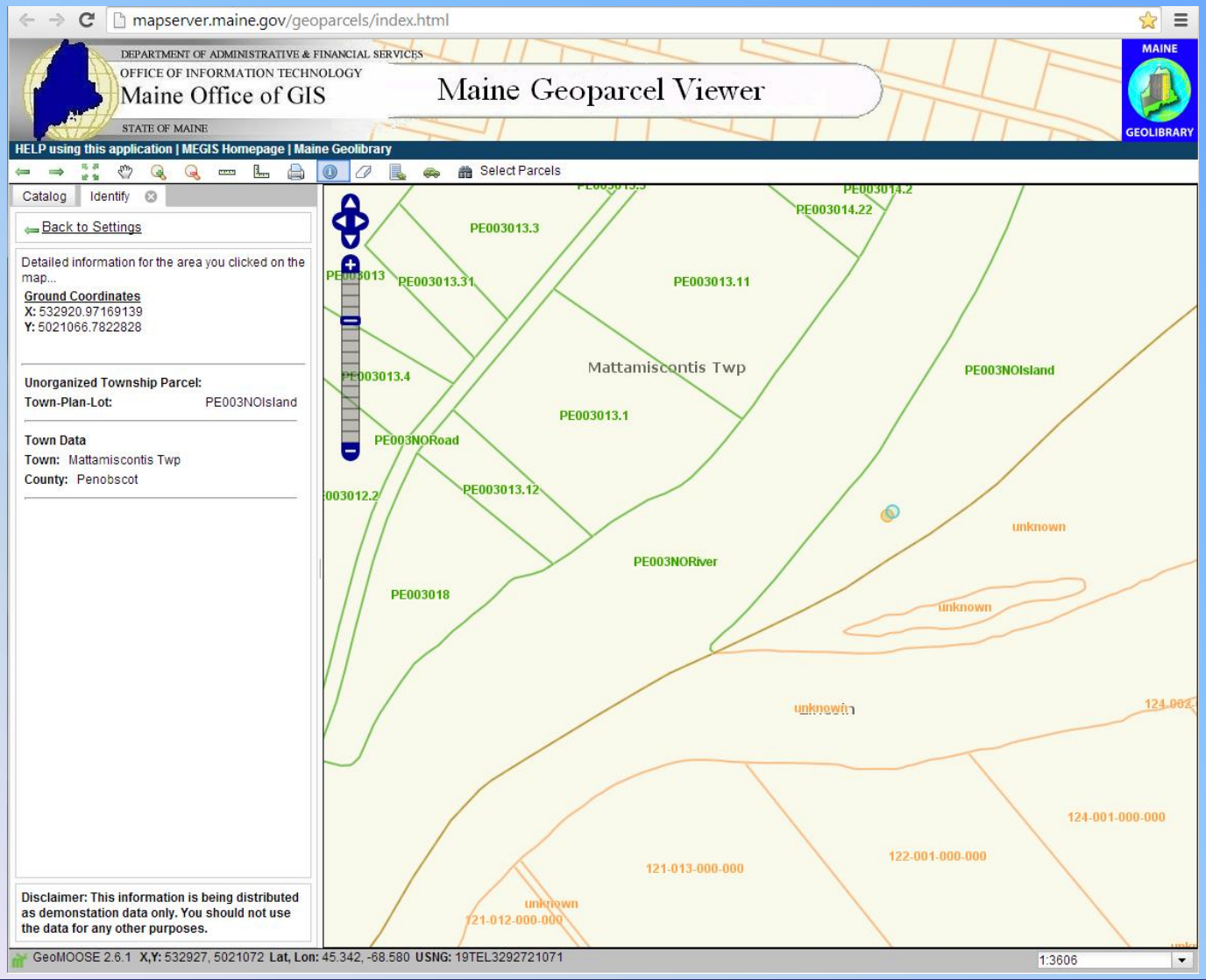
Maine Geoparcel Viewer – zoom in



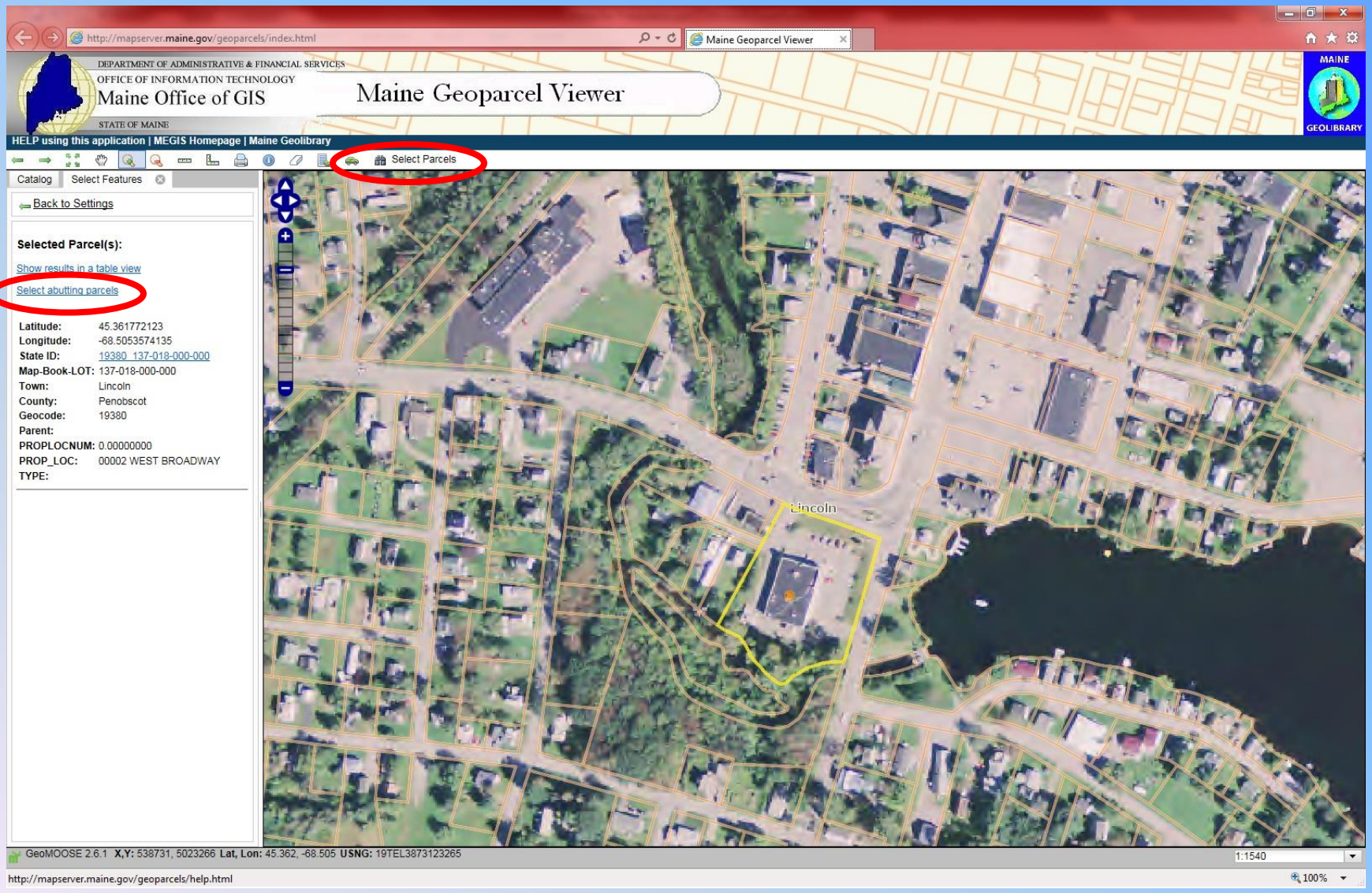
Maine Geoparcel Viewer – add imagery



Maine Geoparcel Viewer – LUPC Details



Maine Geoparcel Viewer – Municipal Details



Geoparcel Viewer – transition to Google Street View

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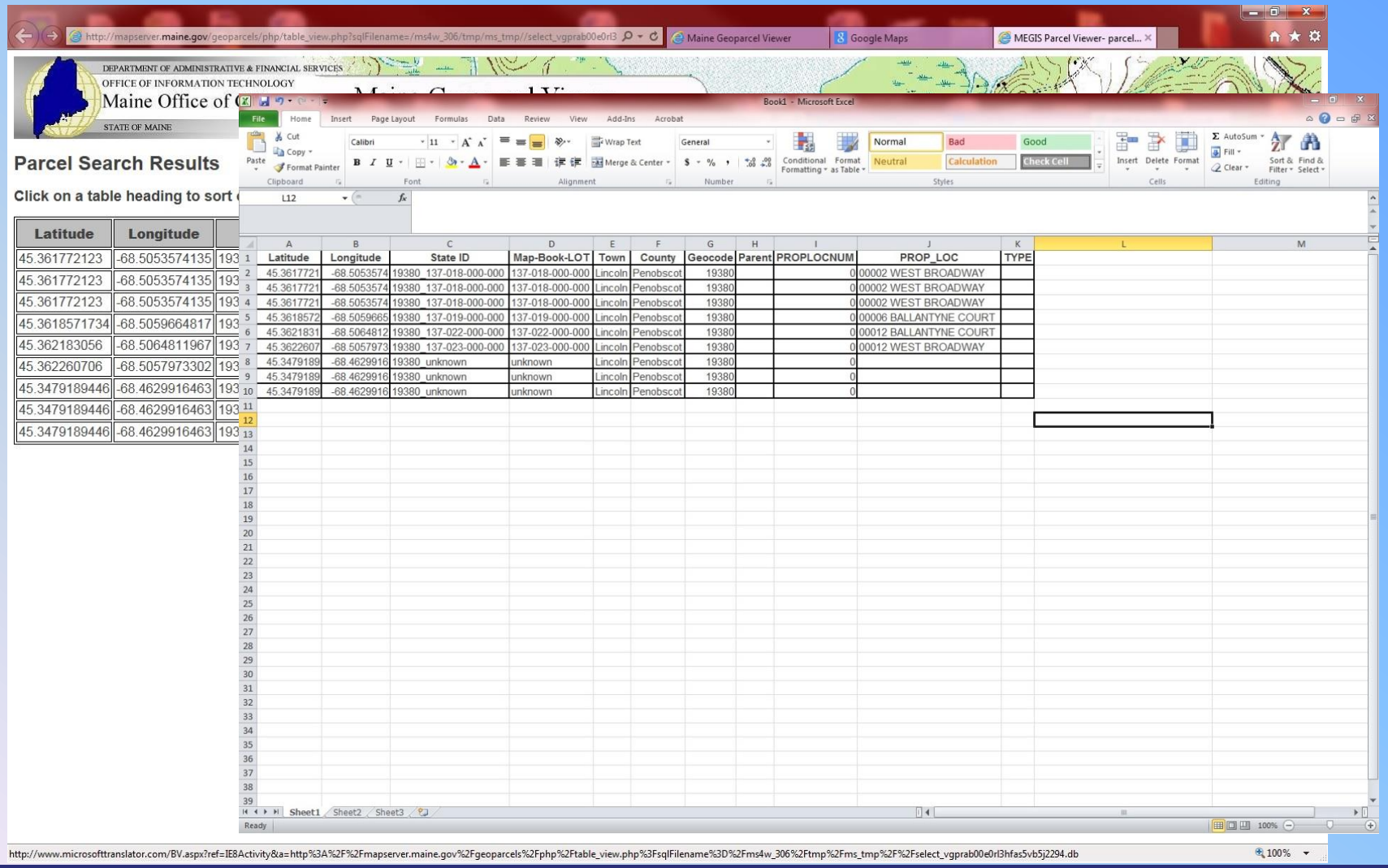
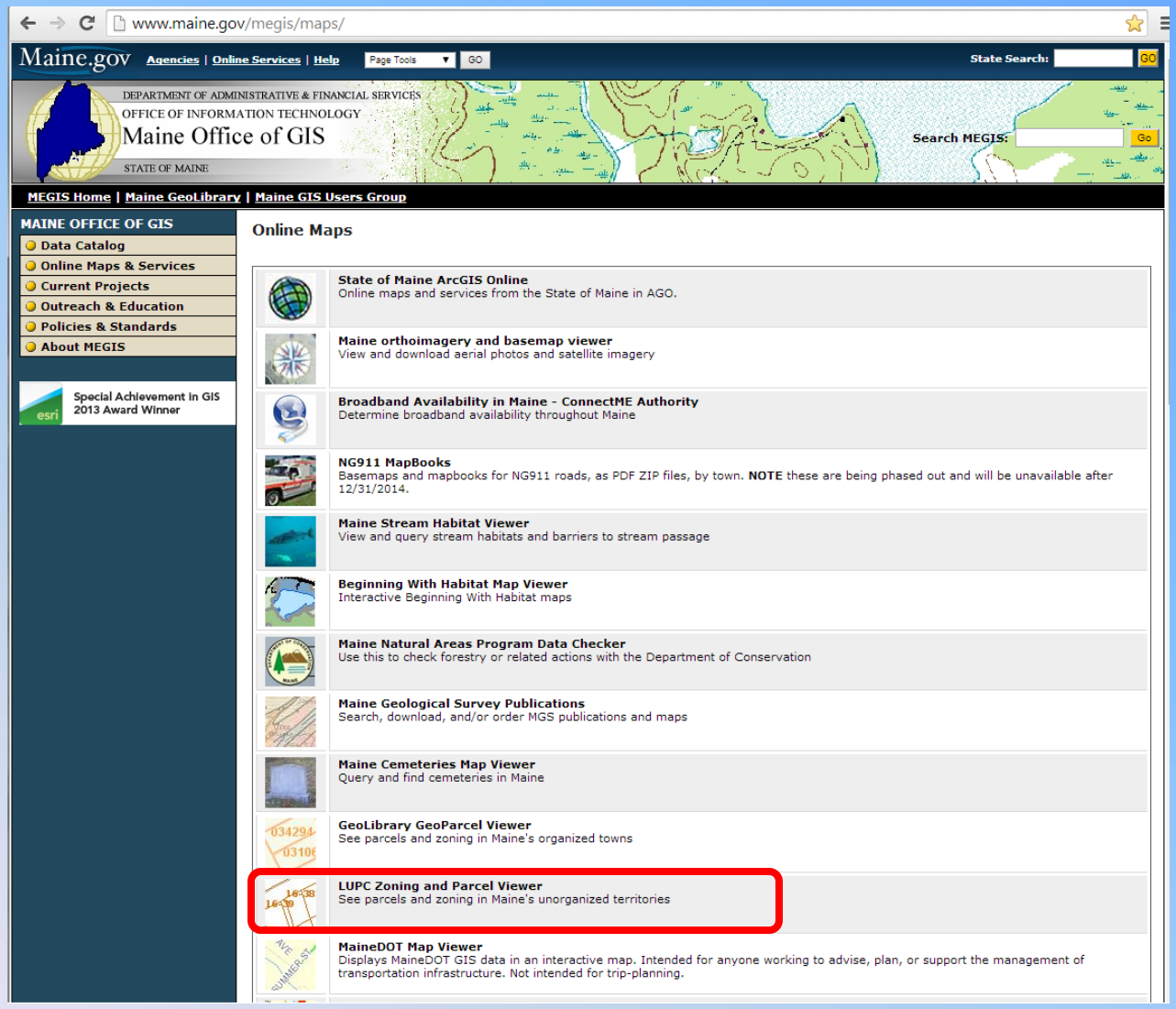
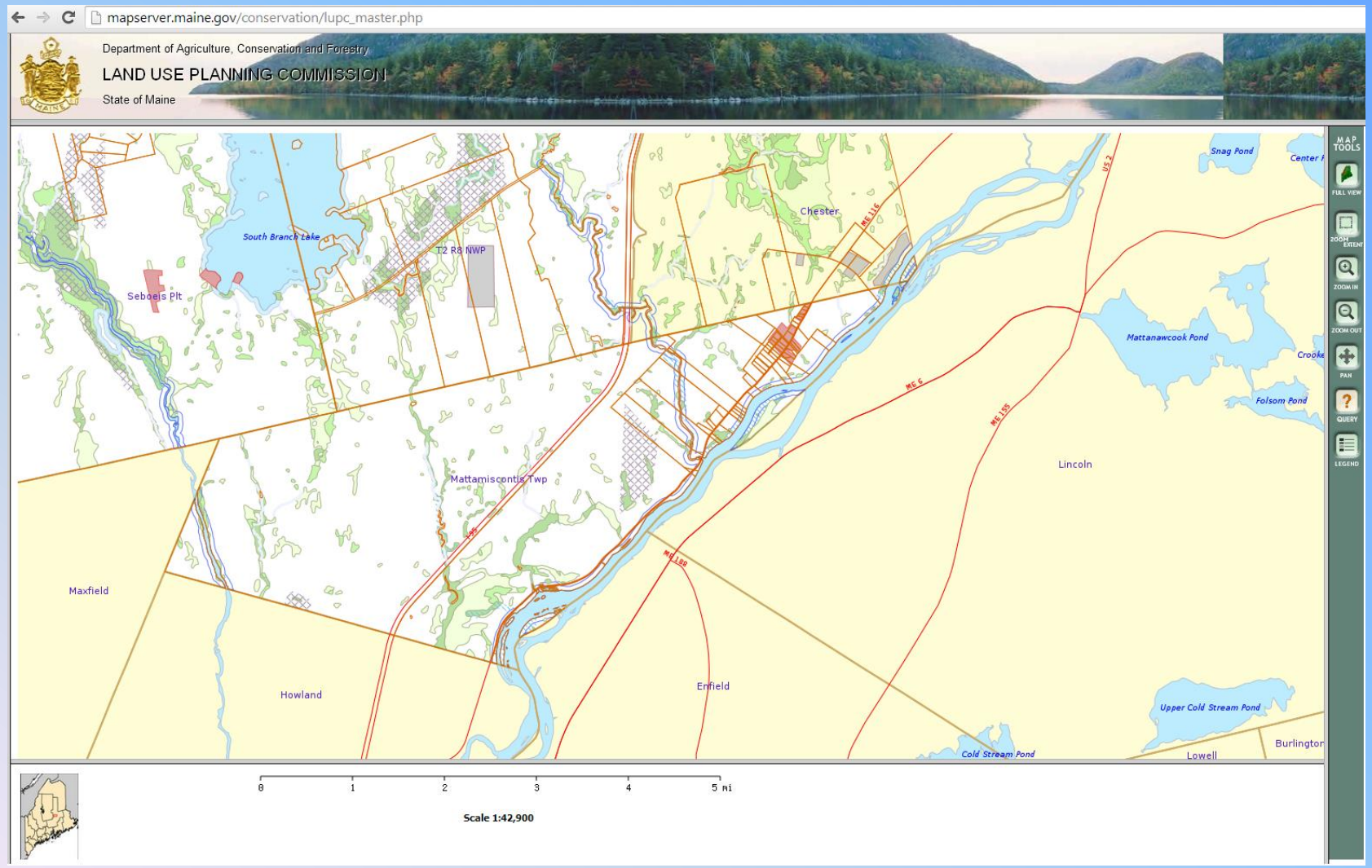
Geoparcel Viewer – Abutter List



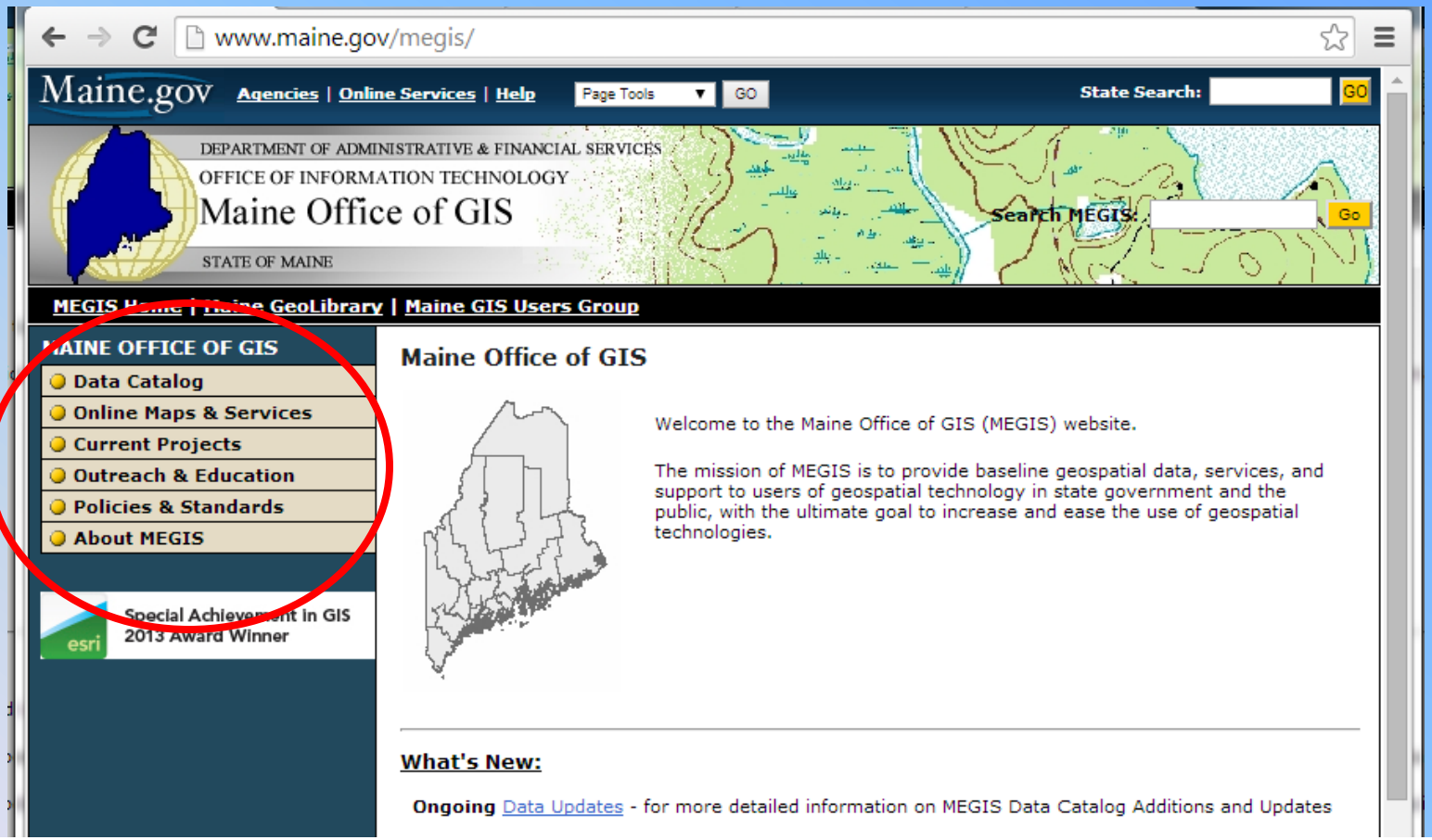
MEGIS - Online Maps



LUPC Viewer

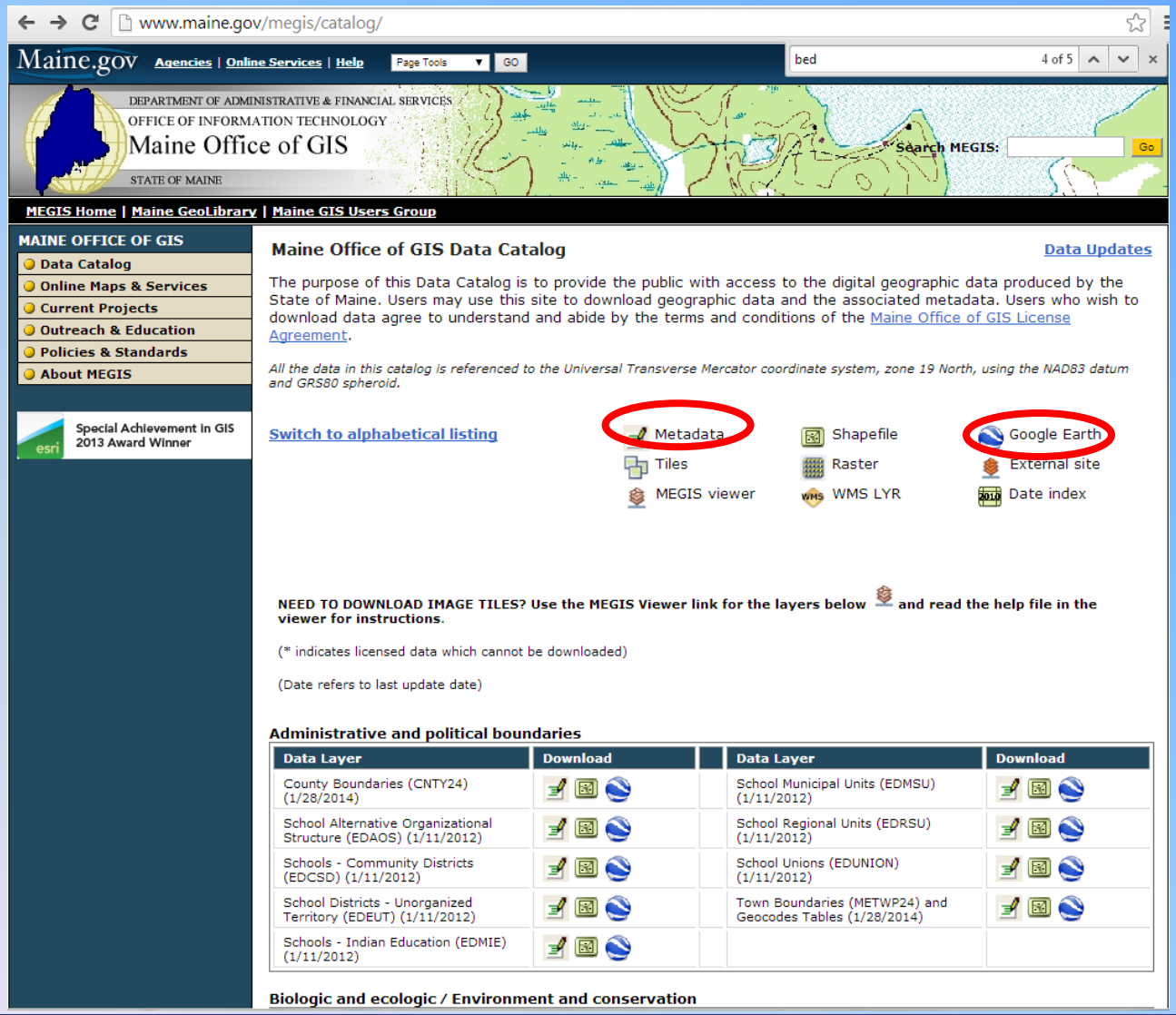

mapserver.maine.gov/conservation/lupc_master.php
Department of Agriculture, Conservation and Forestry
LAND USE PLANNING COMMISSION
State of Maine
Snag Pond
Chester
South Branch Lake
T2 R8 NWP
Seboeis Plt
Mattanawcook Pond
Folsom Pond
Lincoln
Mattamiscontis Twp
Maxfield
Howland
Enfield
Upper Cold Stream Pond
Cold Stream Pond
Lowell
ME 116
US 2
ME 6
ME 155
ME 188
MAP TOOLS
FULL VIEW
ZOOM EXTENT
ZOOM IN
ZOOM OUT
PAN
QUERY
LEGEND
0 1 2 3 4 5 mi
Scale 1:42,900

Maine Office of GIS (MEGIS)

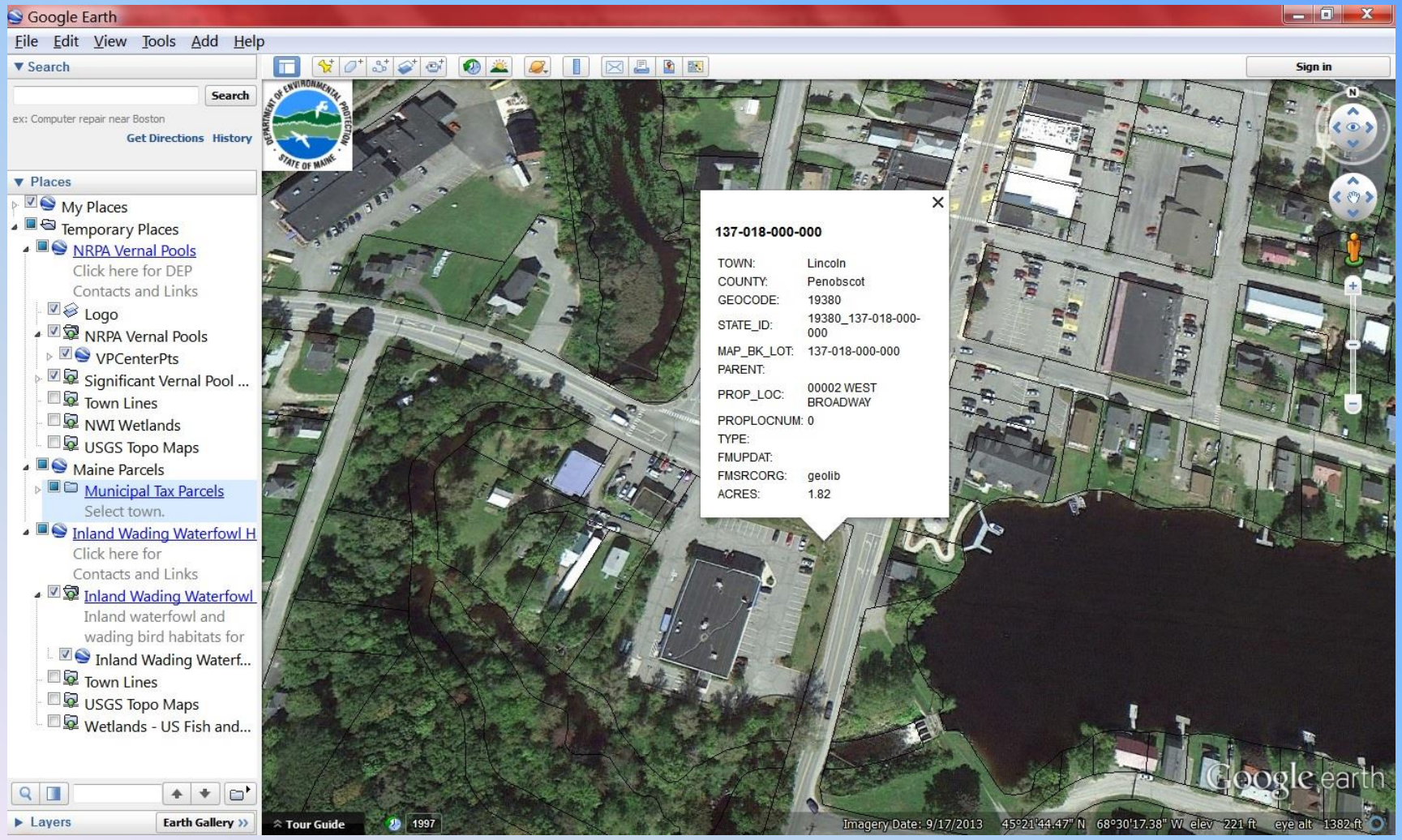


www.maine.gov/megis

MEGIS Data Catalog



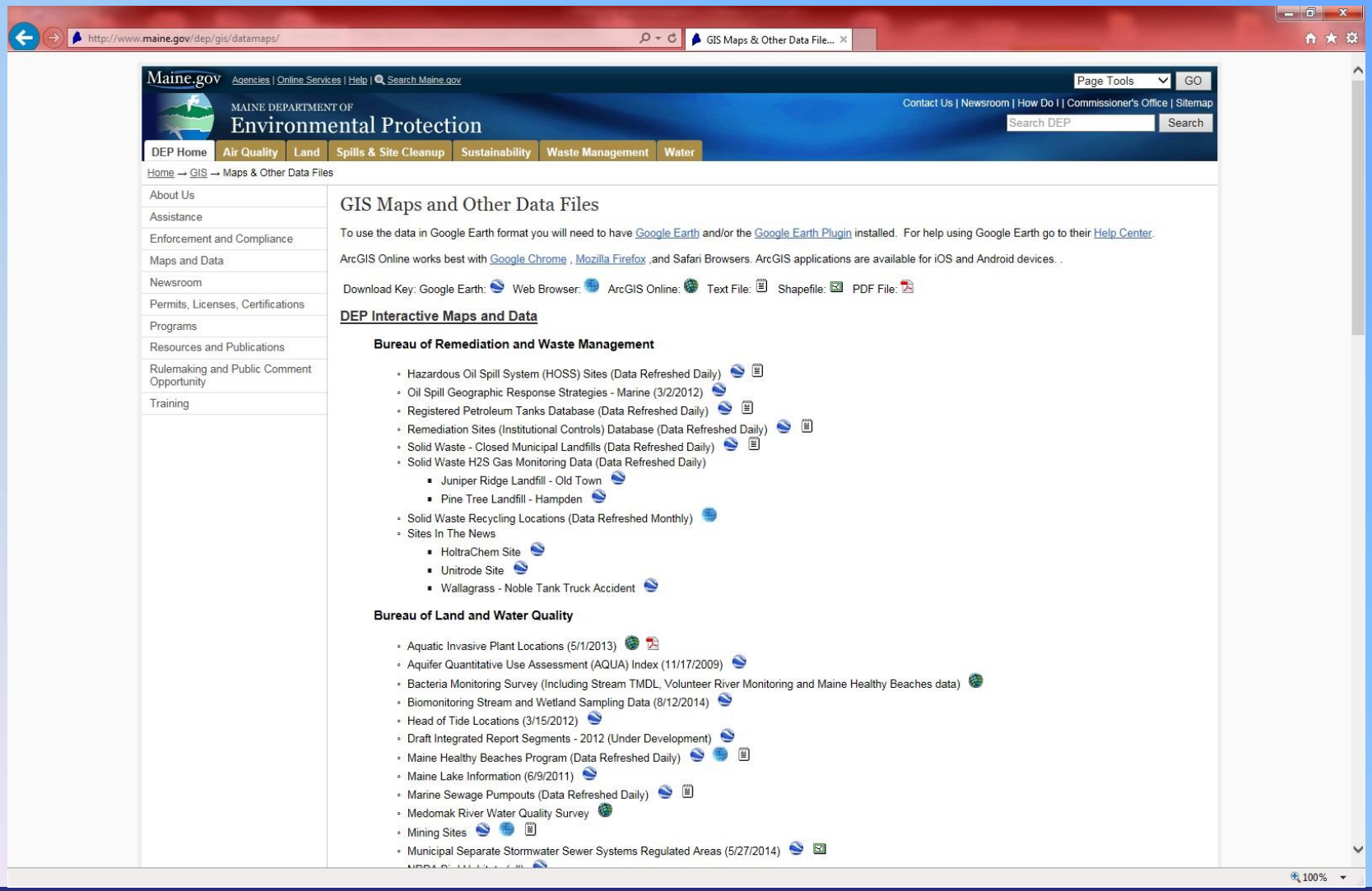
Google Earth with Parcels from MEGIS Data Catalog



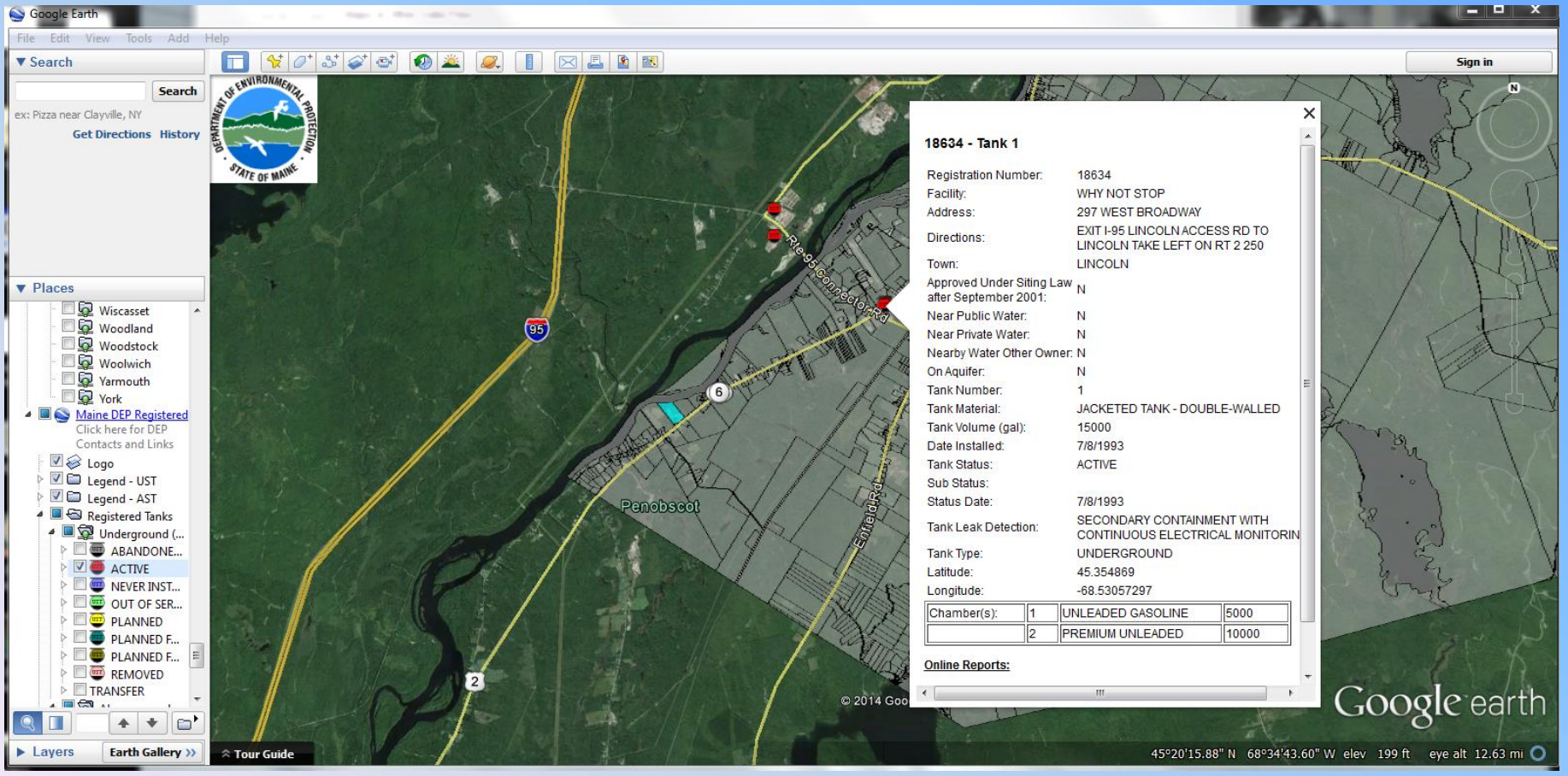
MAINE GEOLIBRARY

(Parcels courtesy of GeoLibrary & MEGIS joint effort)

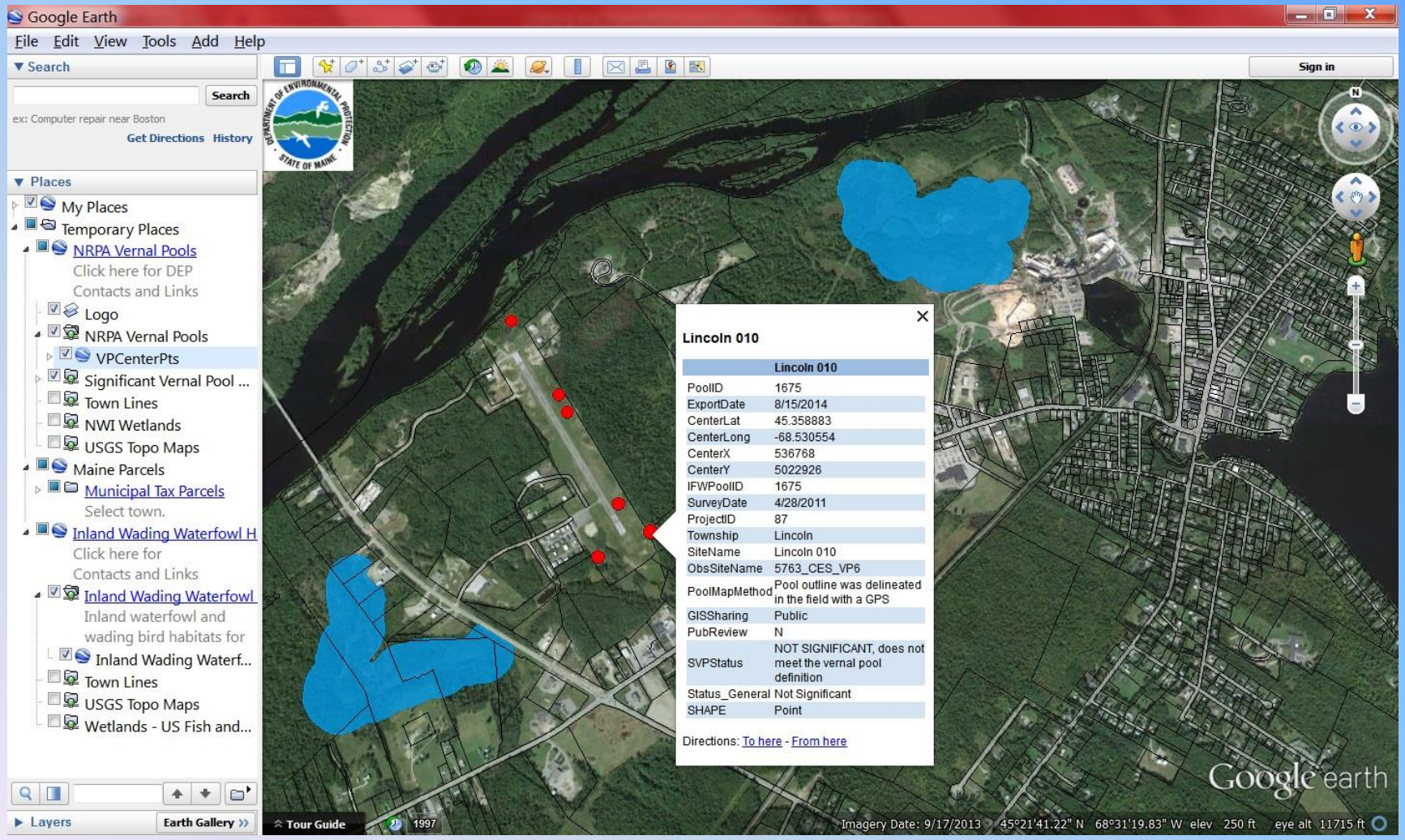
Available Data From MDEP



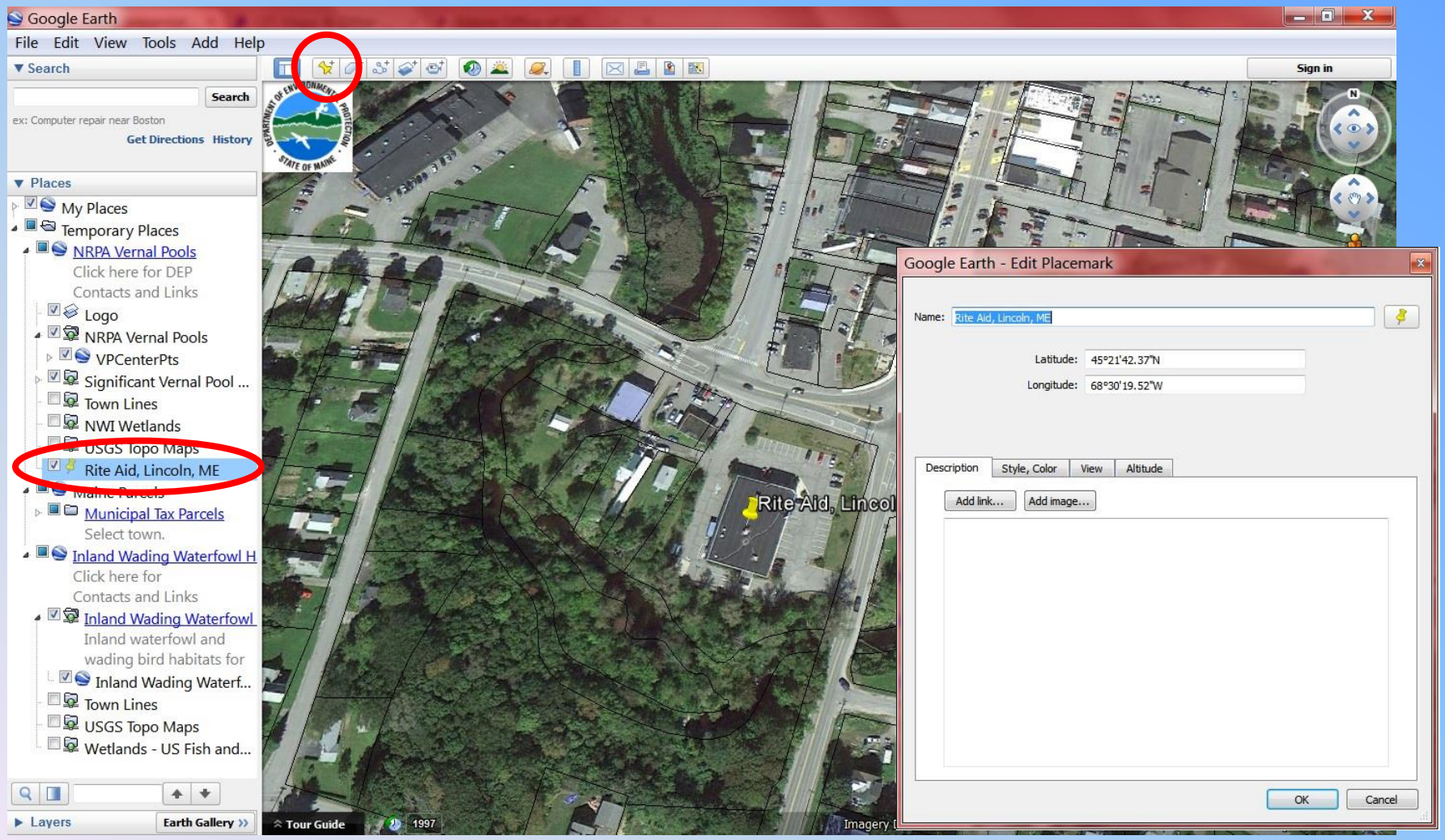
Google Earth with Parcels and MDEP Tank Locations



Google Earth with Parcels, Vernal Pool, Bird Habitat for Shoreland Zoning



E-mail a Place Marker



Conclusion

- Covered a variety of freely available public datasets and web-based map viewers, enabling you to:
  - Communicate more effectively over the phone with someone regarding a specific place
  - Determine coordinates of subject parcel, and email coordinates or Google Earth place marker file
  - Quickly develop abutter lists and export tables
  - Download various free datasets to aid in your work
  - Utilize free available historical imagery

HELPFUL WEB LINKS

- Maine GeoLibrary
  - http://www.maine.gov/geolib/index.htm
- Maine Office of GIS Map Viewers
  - http://www.maine.gov/megis/maps/
- DEP Maps
  - http://www.maine.gov/dep/gis/datamaps/index.html
- Conservation Lands
  - http://www.maine.gov/dacf/parks/publications_maps/conservation_lands_maine.html
- Orthoimagery
  - http://mapserver.maine.gov/basemap/index.html
- USGS National Map
  - http://nationalmap.gov/
- GOOGLE EARTH
  - https://www.google.com/earth/

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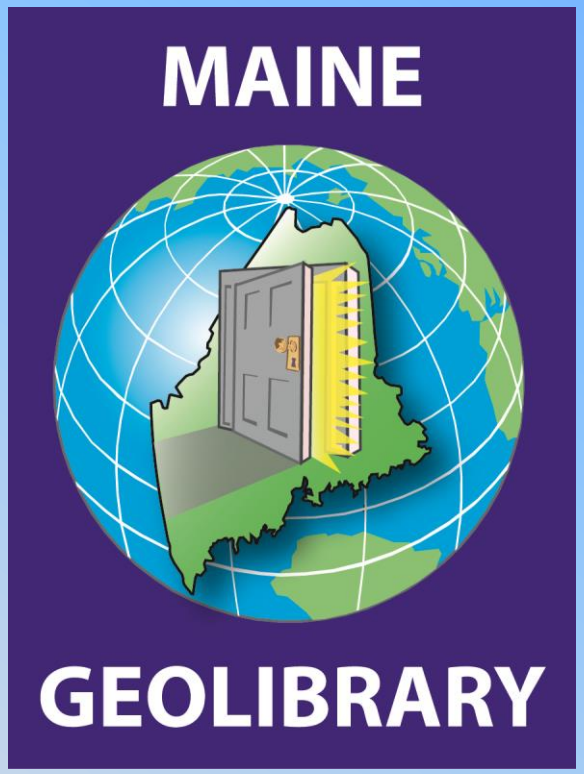
Questions?