



Where does georeferencing fit into the digitization workflow?

- Traditional approach: As complete records are entered, all data, including georeferences are determined and entered.
- Proactive approach: Due to the prevalence of GPS devices, many modern collectors include georeferencing data which can be entered/uploaded at the time a specimen is initially cataloged. Each collecting locality gets named, georeferenced, and entered. Collections at that locality are all linked to the same event and are "automatically" georeferenced as they are entered/uploaded.

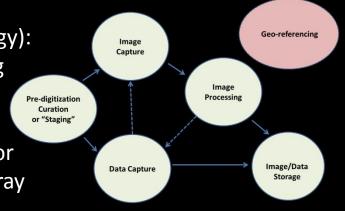




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Newer approach for legacy data (especially for entomology):
Georeferencing becomes an activity focused on collecting
events and their localities and precedes specimen/tray based data entry. This allows records with identical or
similar localities to be parsed and pooled by technicians or
software that assign georeferences in bulk. Subsequent tray
or specimen records are linked to these georeferenced
localities.

In bulk or individually based on known boundaries of counties, parks, preserves, sections, towns, or other areas with a defined boundary and known extent. In these cases, georeferencing is reported accurate to the known extent. Such georeferencing can be accomplished in bulk through database queries that insert centroid data into reference tables.







Georeferencing Data Elements

- Latitude (dd.dddd)
- Longitude (dd.dddd)
- Datum (coordinate system)
- Projection
- Precision
- Georeferencing method
- Georeferencing remarks

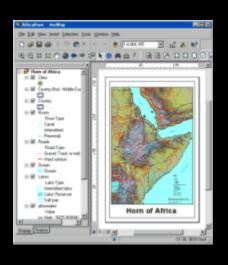


Georeferencing Methods and Tools

ArcGIS

Google Earth/Maps



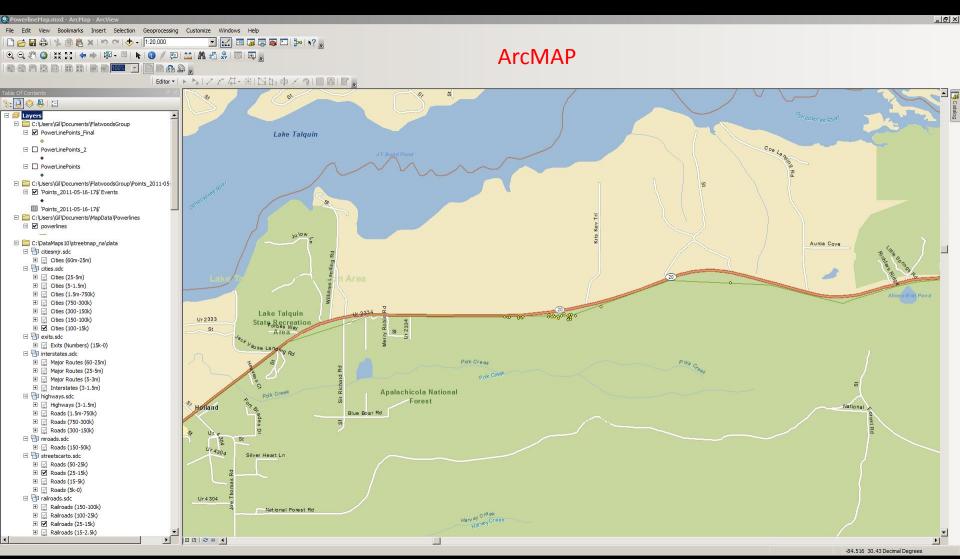


Geolocate

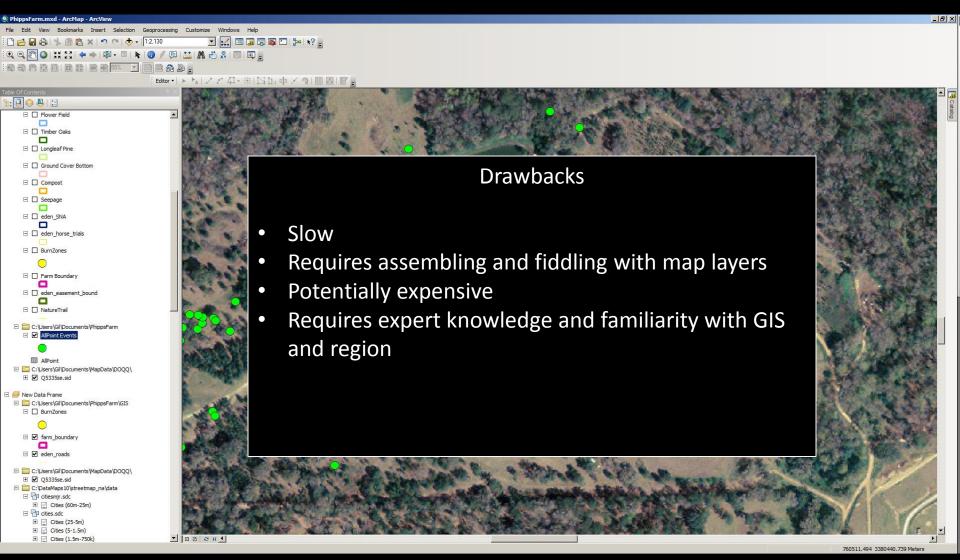












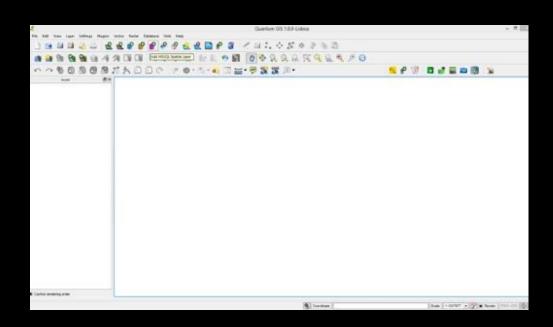
Open Source GIS





DIVA-GIS

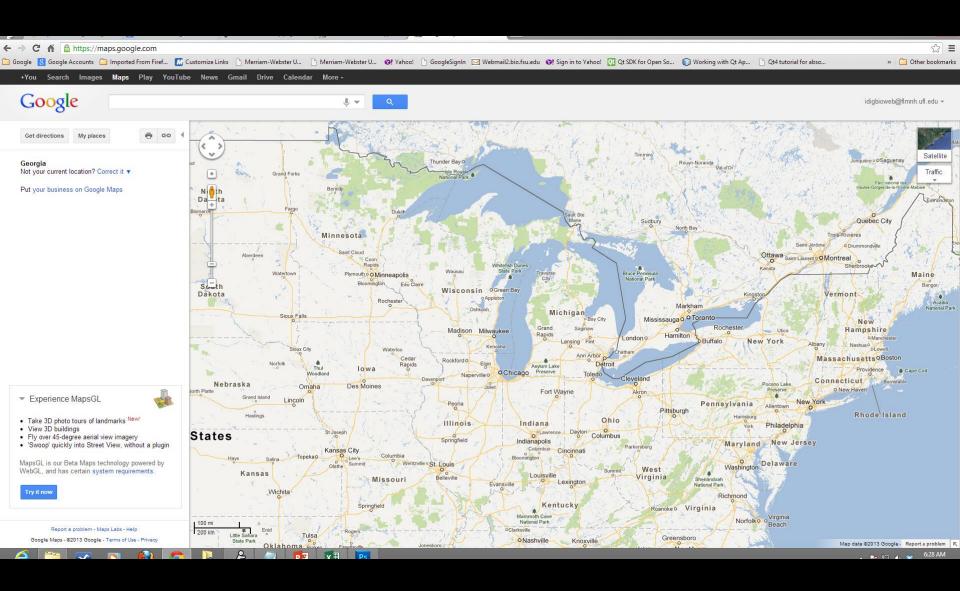
Free, simple & effective

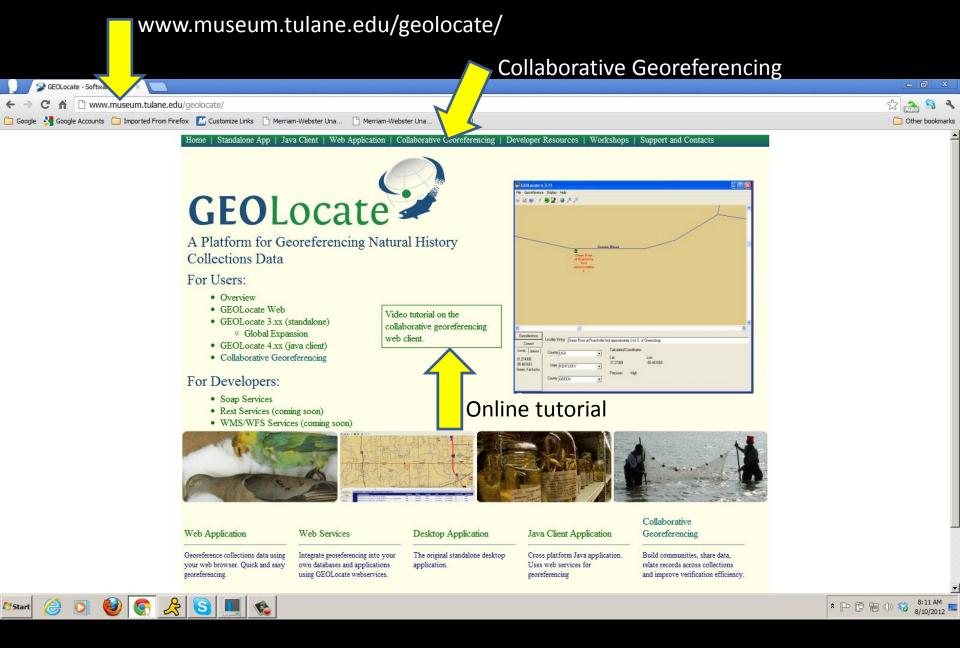




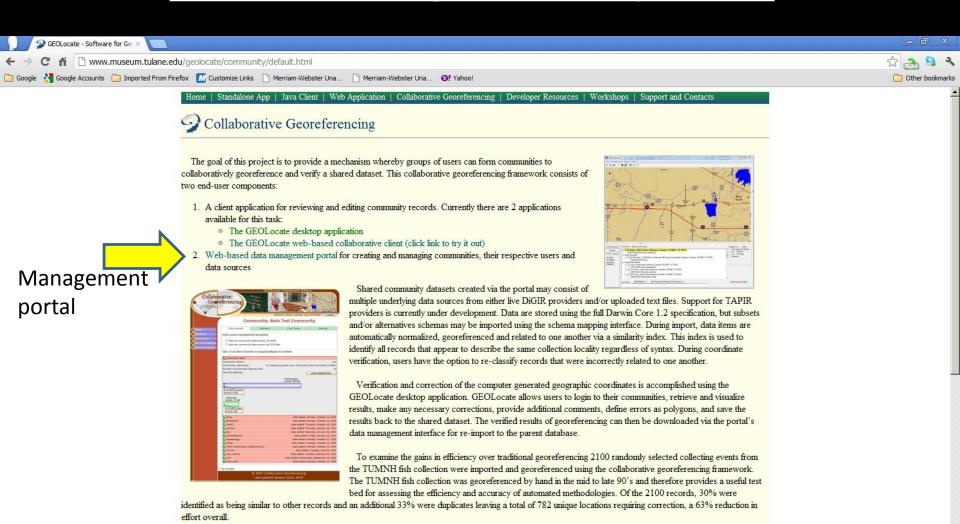


Google Maps





www.museum.tulane.edu/geolocate/community/default.html

















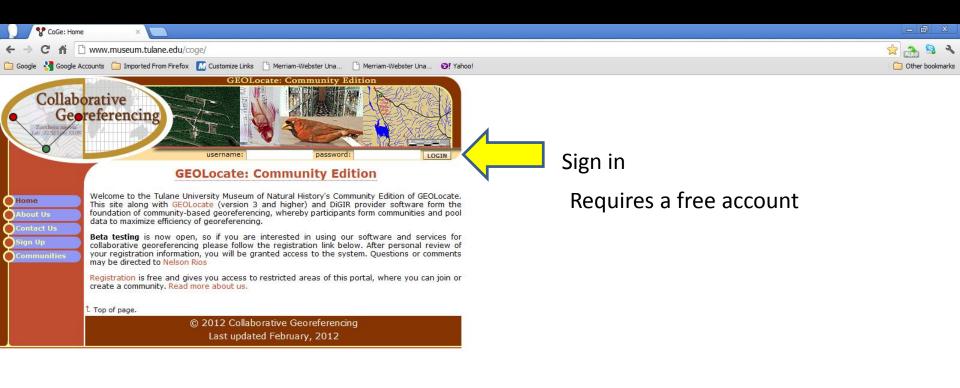








http://www.museum.tulane.edu/coge/







































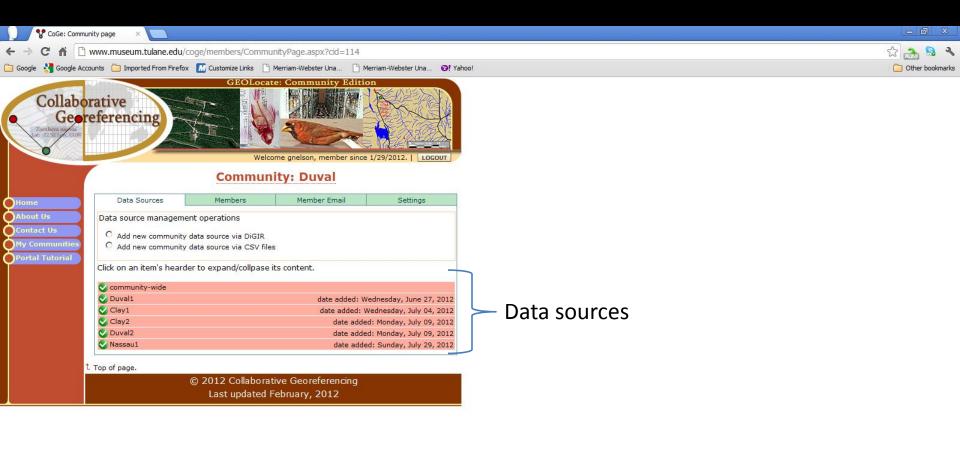


























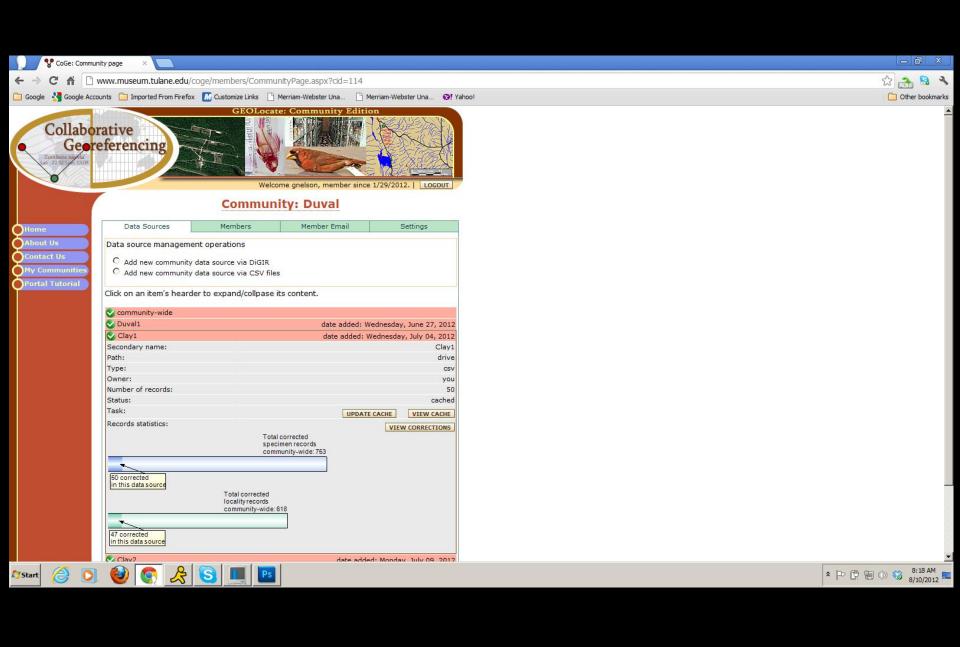


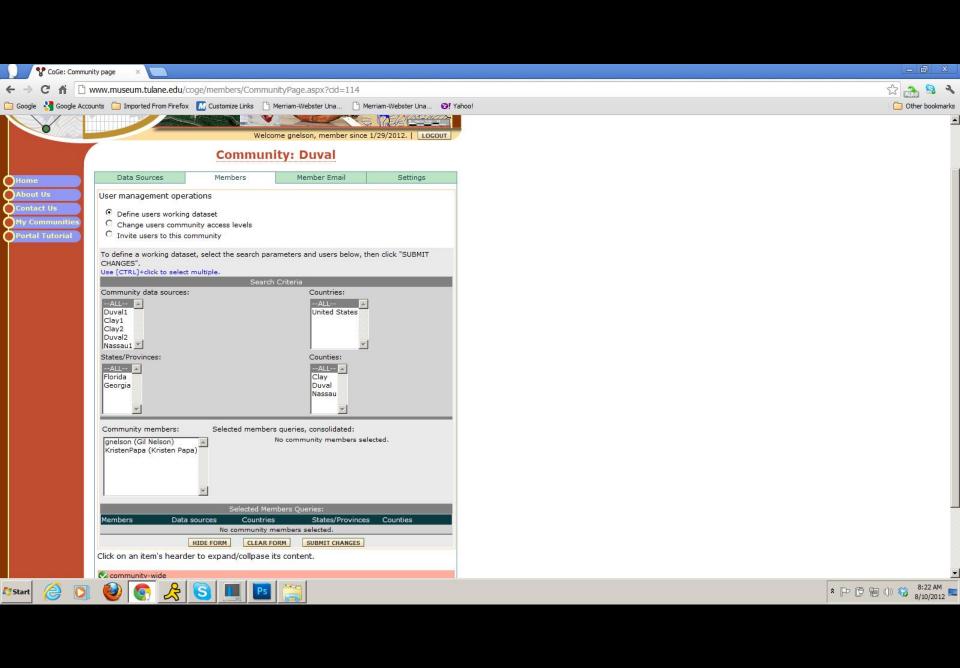




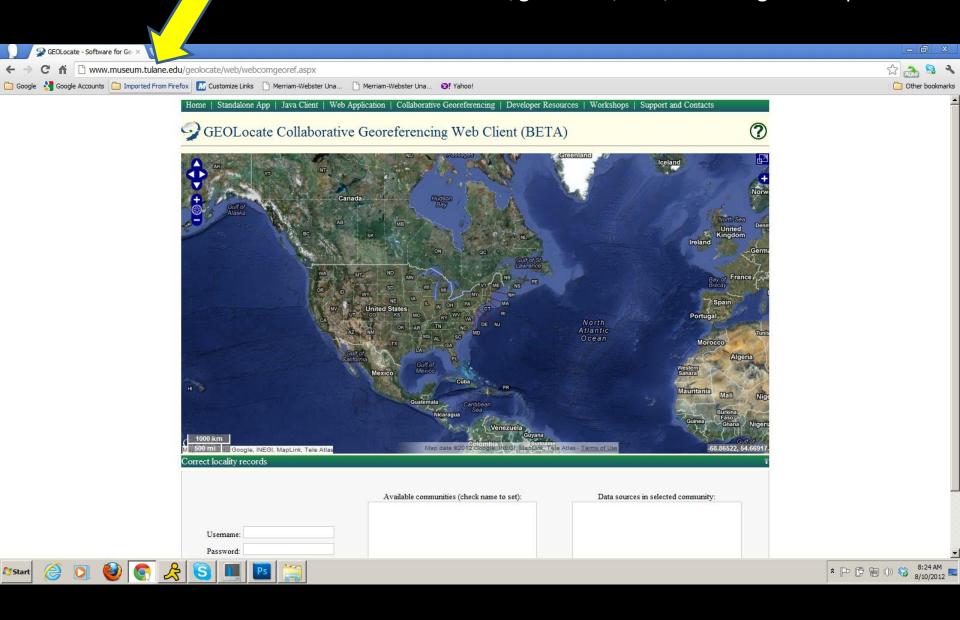


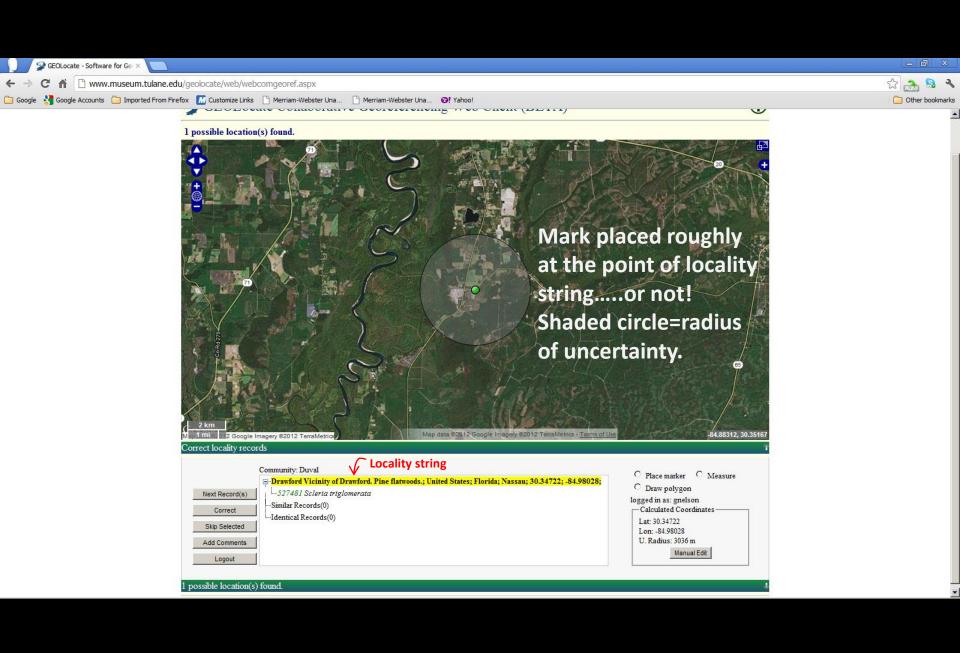


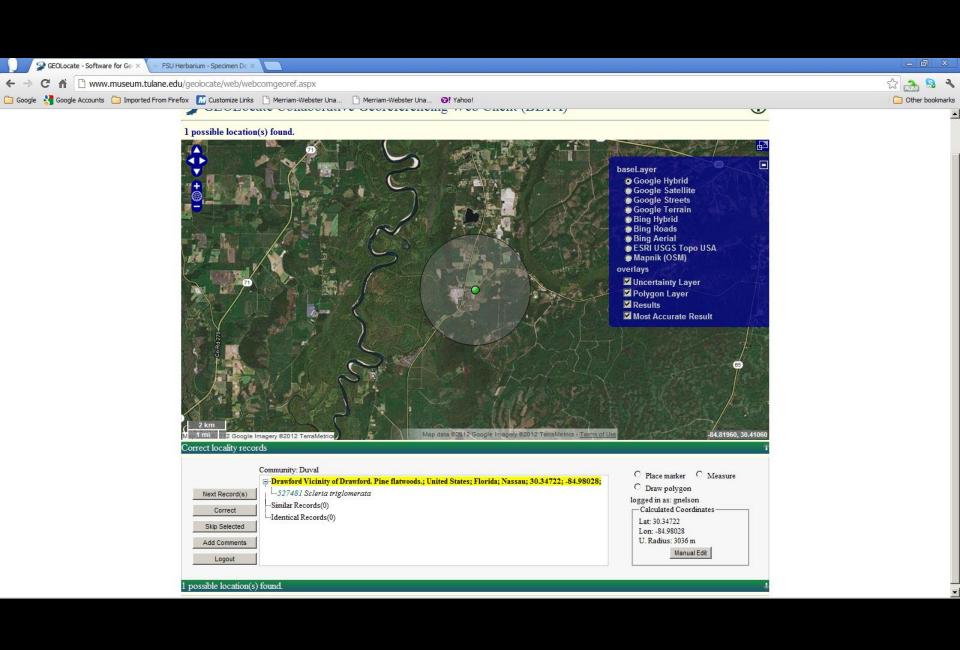


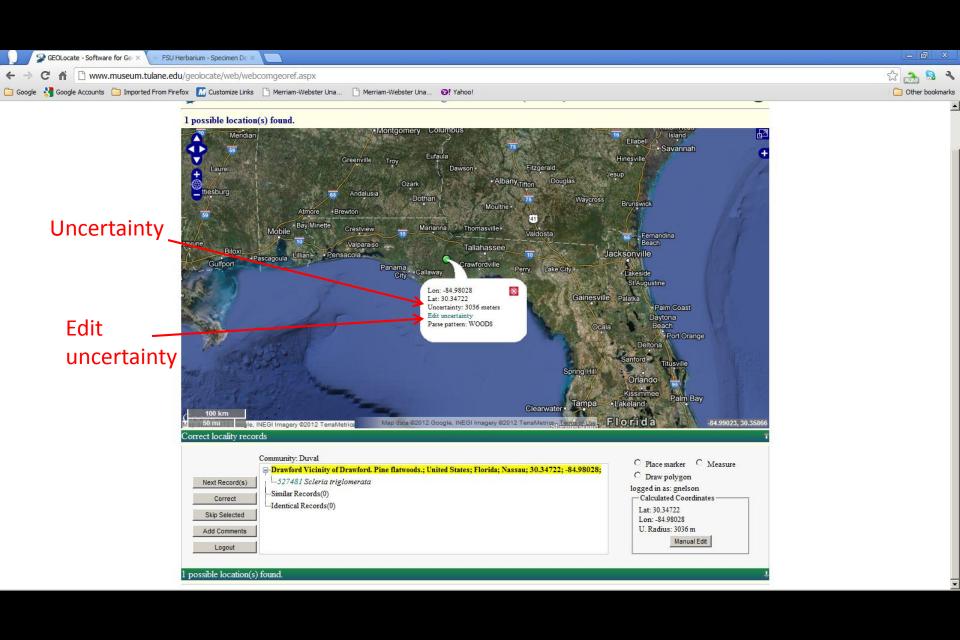


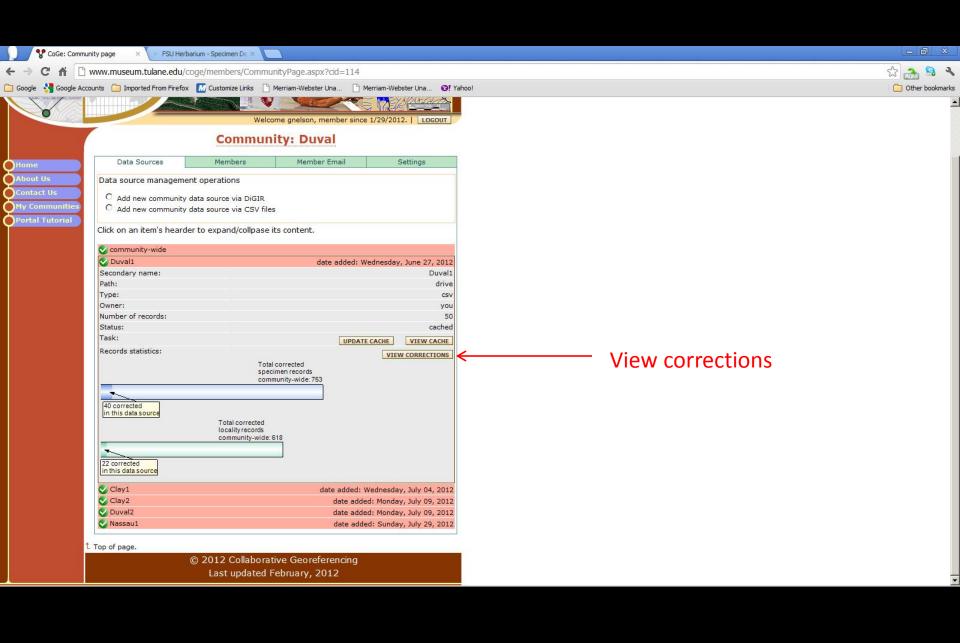
www.museum.tulane.edu/geolocate/web/webcomgeoref.aspx

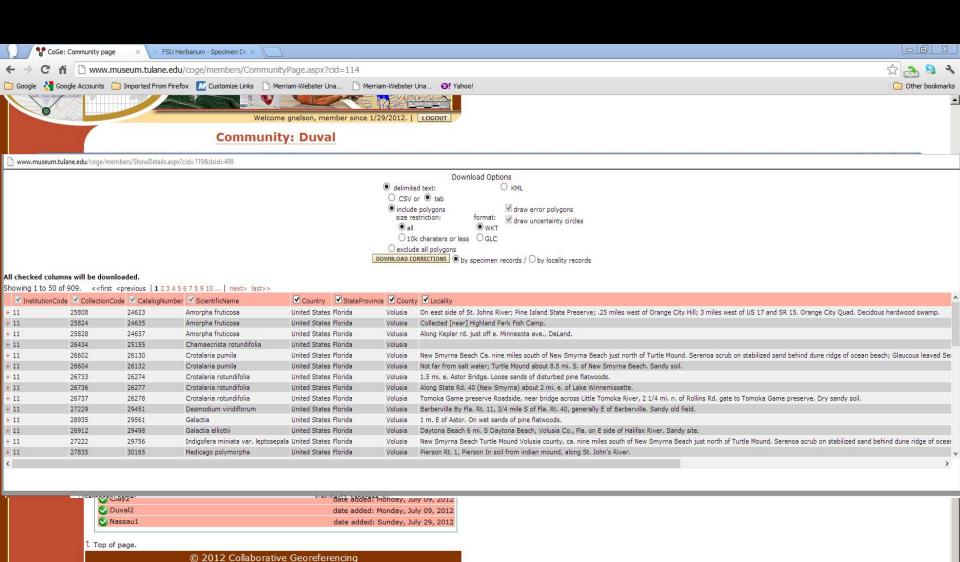












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Custom CSV Spreadsheet

