

Interactive map quick start guide for public users

After opening the ArcGIS Experience / Atlas webpage:

<https://experience.arcgis.com/experience/3fc273fccab8499083960daf7f1207a7/?draft=true>

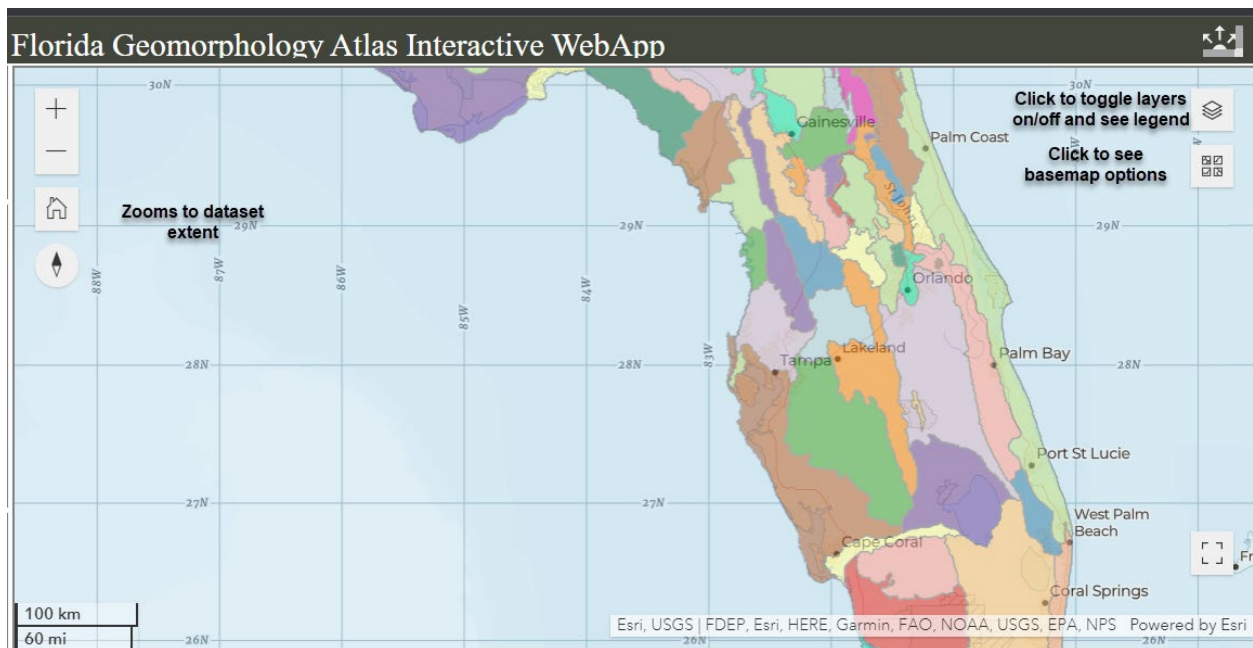
The screenshot shows the homepage of the Florida Geomorphology Atlas. At the top left is the Florida Department of Environmental Protection logo. The header includes the title "Florida Geomorphology Atlas" and the organization "Florida Department of Environmental Protection, Florida Geological Survey". A navigation bar contains links: "Special Publications SP PDF", "Interactive WebApp" (highlighted with a red circle), "Introduction", "Glossary", and "Reference". Below the navigation bar, there are two main content areas. The left area contains publication details: "PUBLICATION TYPE / NUMBER: Special Publication SP", "AUTHORS: Christopher P. Williams, Thomas M. Scott, & Sam B. Upchurch", "GIS DATA COMPILED: Garrett Evans", and "CITATION: Williams, C.P., Scott, T.M., and Upchurch, S.B., 2022. Florida Geomorphology Atlas. Florida Geological Survey, Special Publication SP." The right area features a map of Florida titled "Florida Geomorphology Districts & Provinces". Below the map, there is a section for "FGS Resources" with links to "Full Report", "FGS Data", and "FGS Publications". To the right of these links is an "Abstract" section containing text about the atlas and a disclaimer. Below the abstract is a "GIS Data Downloads" section with links to "FDEP Open Data Portal" and "FDEP Maps Direct".

Read and accept the map disclaimer.

The screenshot shows the disclaimer screen of the Florida Geomorphology Atlas Interactive WebApp. The title "Florida Geomorphology Atlas Interactive WebApp" is prominently displayed. Below the title, a message states: "Click on a polygon and a popup with a link to to more information will become available". The screen also includes links to "Florida Geomorphology Atlas Webpage and Data Downloads", "FDEP Home Page", and "FDEP Open Data Portal". A large disclaimer text block reads: "Disclaimer: These geomorphology data were developed by the Florida Department of Environmental Protection (DEP)–Florida Geological Survey (FGS) to carry out agency responsibilities related to management, protection, and development of Florida's natural resources. Content of this map was gathered from various local, state, and federal agencies. Although efforts have been made for informational and geographic accuracy, boundaries depicted on this map document are approximate. These data and graphical representations are intended for informational use only and should not be considered authoritative for navigation, engineering, legal, or other site-specific and use-specific purposes. The Florida Geological Survey (FGS) does not guarantee this document or data to be free from errors or inaccuracies and disclaims any responsibility or liability for inappropriate change of scale". At the bottom, there is a checkbox labeled "I agree to the above terms and conditions" which is checked, and an "OK" button.

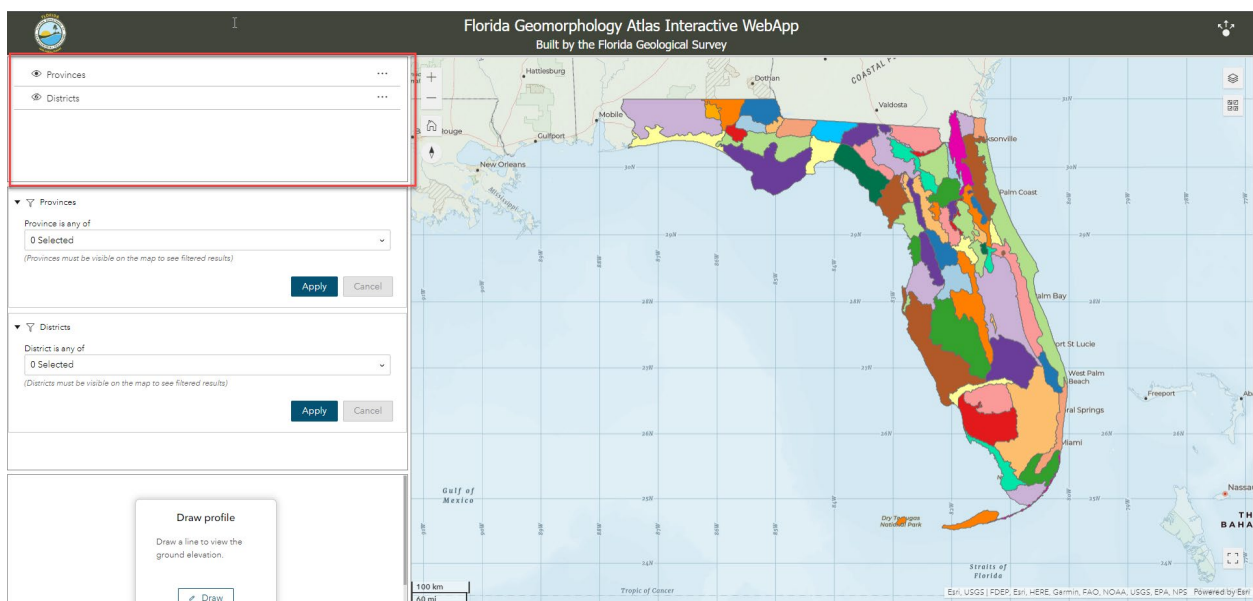
Once accepted and 'OK' is clicked the user will be taken to the **Florida Geomorphology Atlas Interactive WebApp**.

Map Controls - Main window

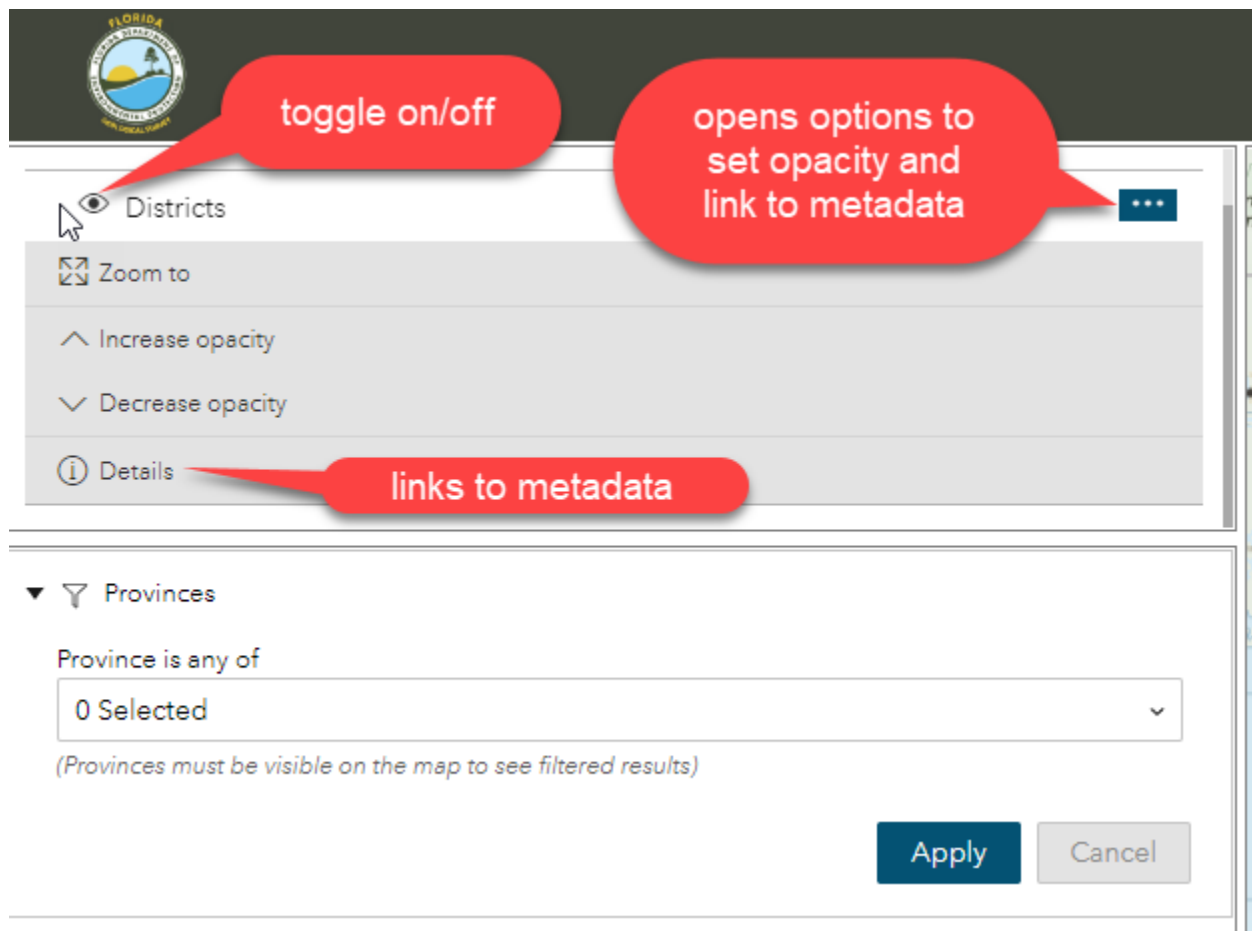


The plus and minus buttons, located in the upper left corner of the map, zoom in and out from the current map extent. The home icon zooms to the full data extent. Users can use the mouse wheel to zoom in and out. Hold click and drag to pan around in the map.

In the upper right corner of the map window users can toggle layers on and off as well as change the *Basemaps*. Options include the Florida DEM 2009 Digital Elevation Model, Aerial imagery, Street Maps, and Topographic map basemaps. There are other options as well.

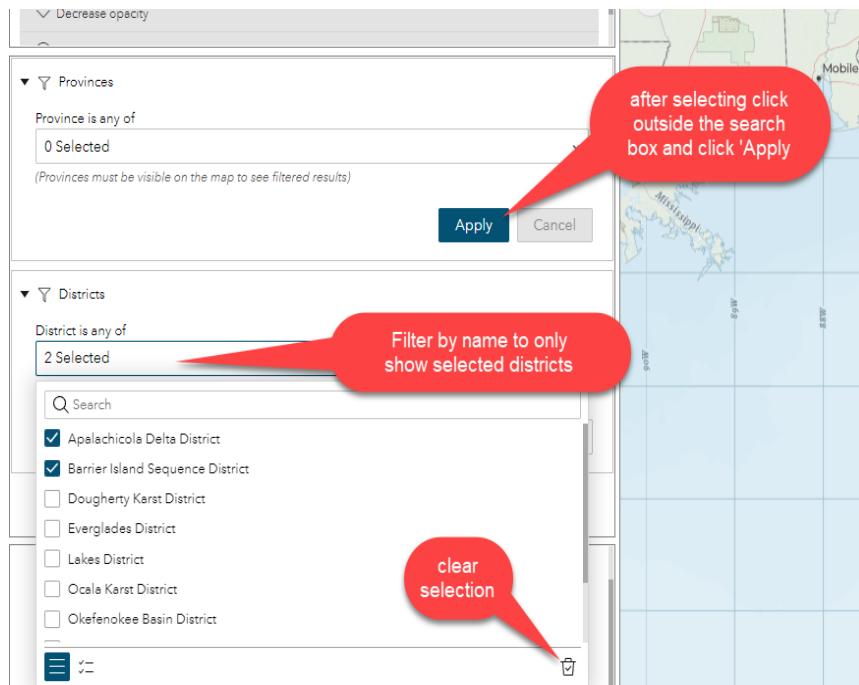


Located on the upper left corner of the atlas page users can turn Districts and Provinces on/off, set opacity values for both layers and view metadata. Clicking the ellipses (...) expands to display more options.

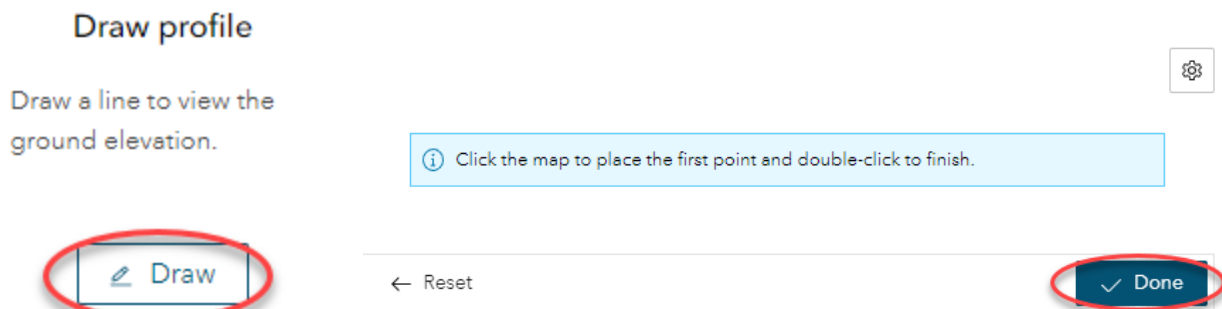


Below that window there are two more options that can be used to filter Provinces or Districts. Click in the box where it indicates '0 Selected'. Then select the Districts or Provinces that you wish to view and display on the map. Click outside the selection box and hit 'Apply'. The Interactive WebApp will then zoom to the extent of the selection.

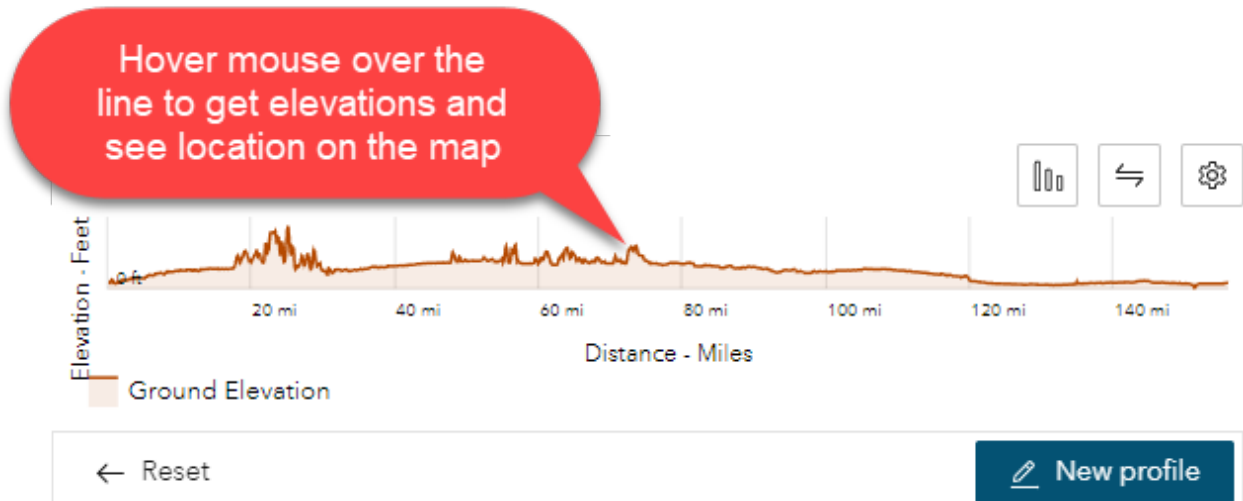
To clear a selection, click in the 'Selection' box, then click on the  'Trash Can' in the lower right of that window, and, last, click outside the selection box and click 'Apply' to clear the selection.



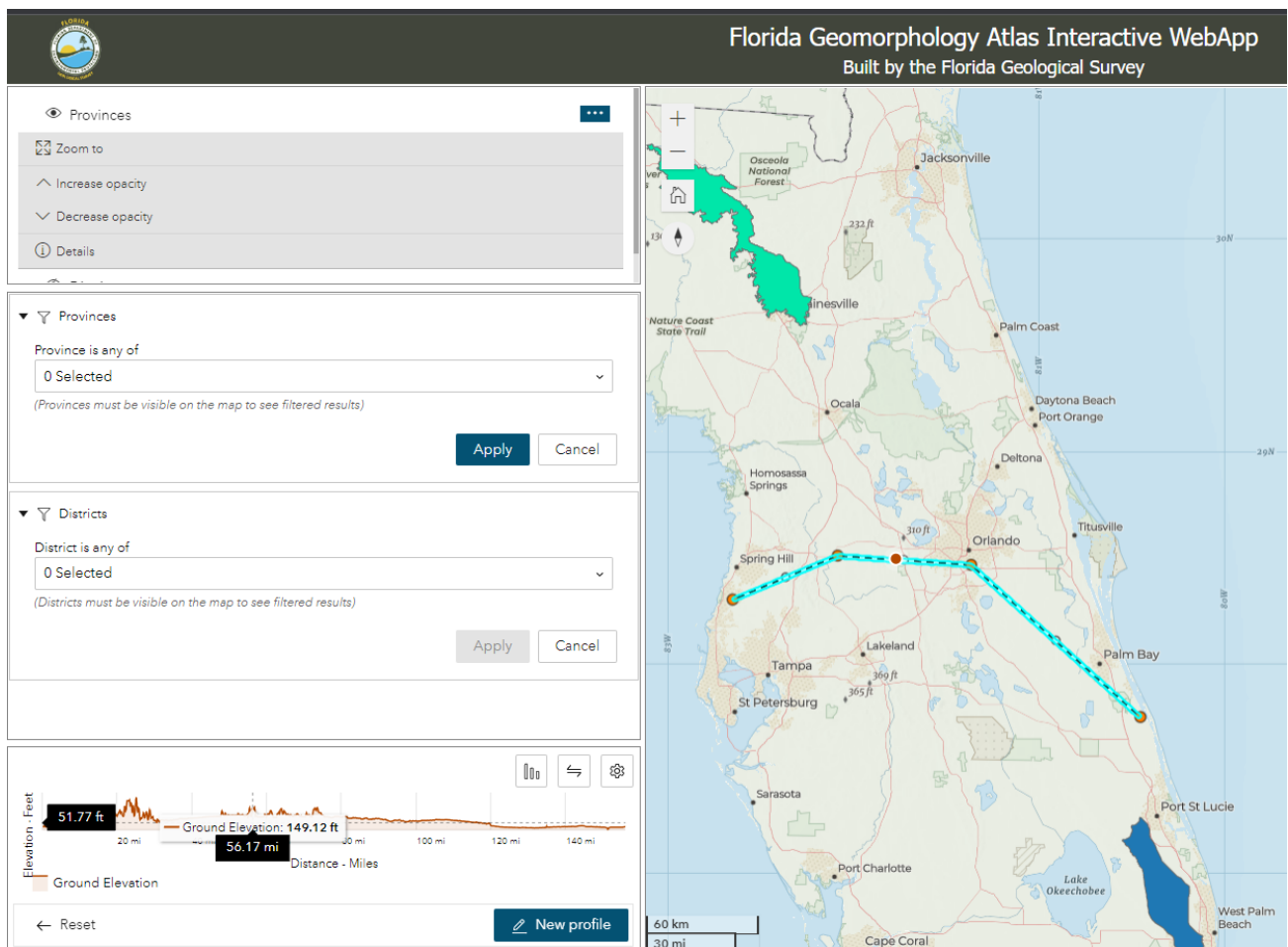
Located on the lower left of the viewer is a helpful elevation profile tool. Use this to draw on the map in the Interactive window and create an Elevation Profile Graphic. To begin, click 'Draw' and then click a start point and end point on the map. You can make multiple clicks/pivot points and create a profile. Click 'Done' or just Double Click in the map frame once the line is completed.



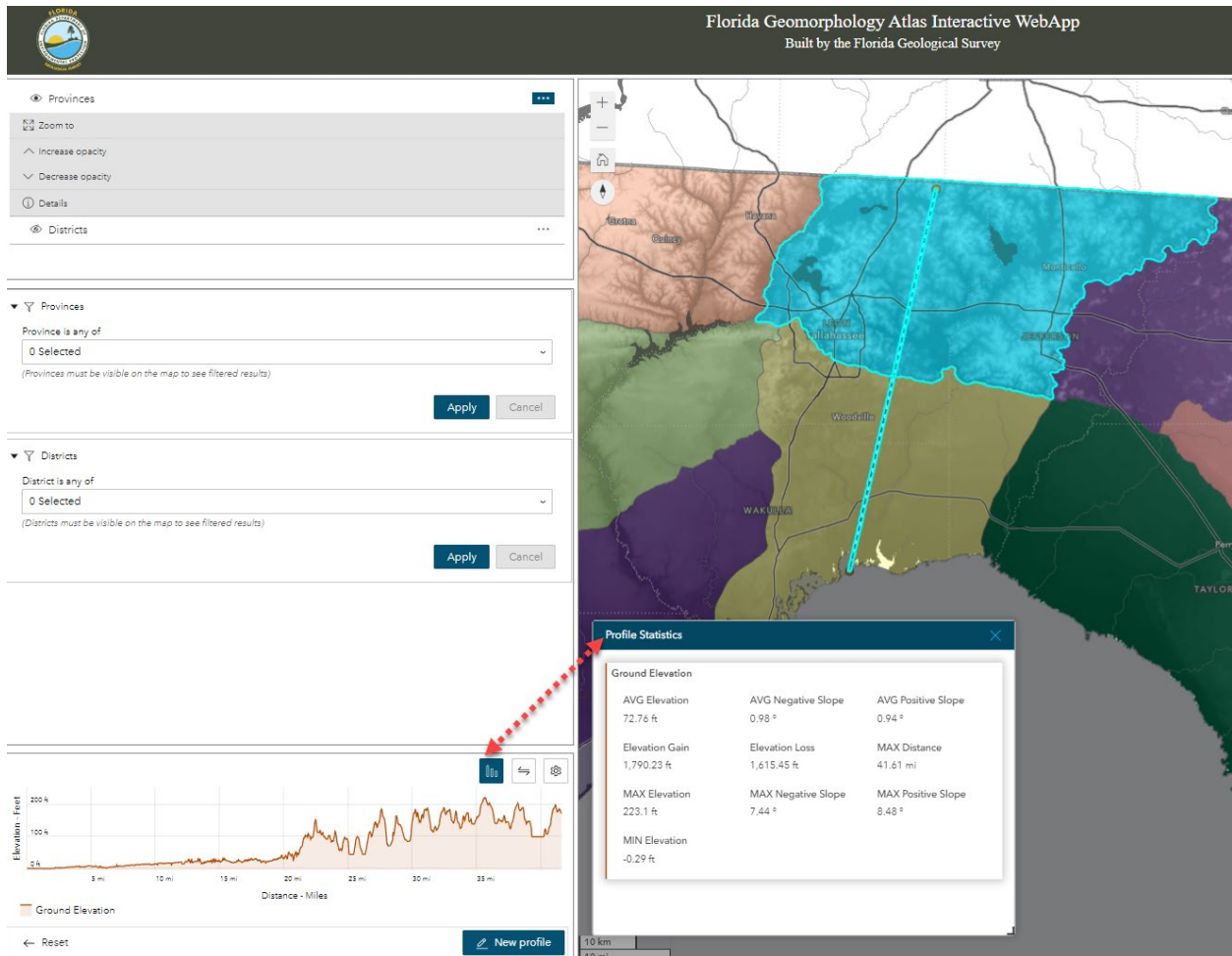
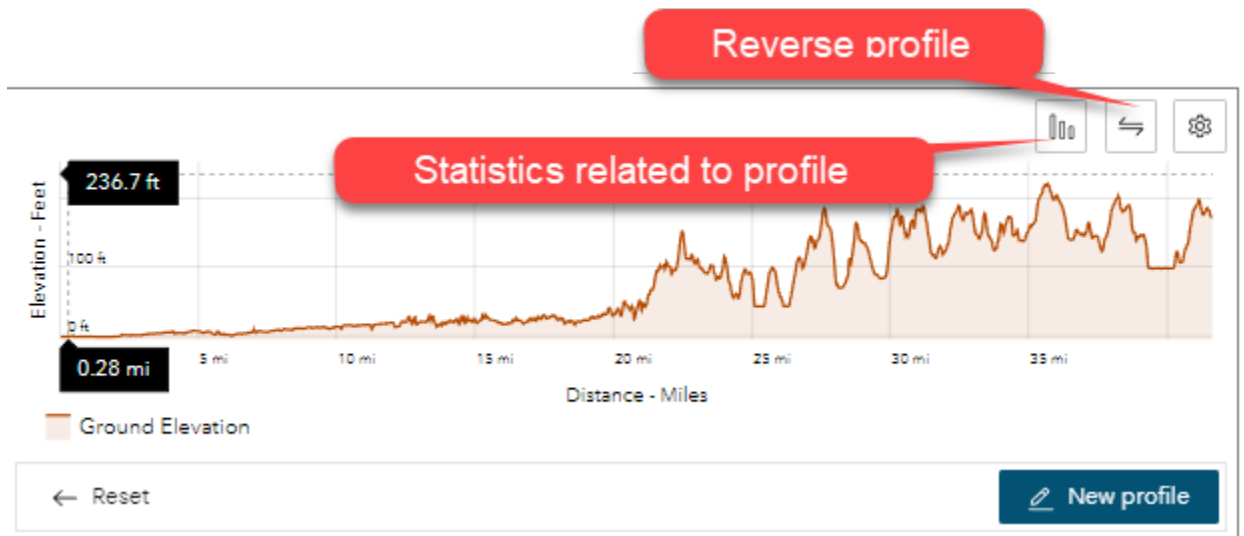
You can hover the cursor over the graph that is created, and it will display elevation and distance along the line. The map in the Interactive WebApp will also display the location of that point.



By default, the elevation profile graph have a vertical exaggeration (v.e.) applied to it. The amount of v.e. that is applied is dependent upon the selected areas elevation range. This tool is not suitable for site analysis. The v.e. can be turned off by checking the box for “Uniform Scaling” under the settings (cog wheel) options.

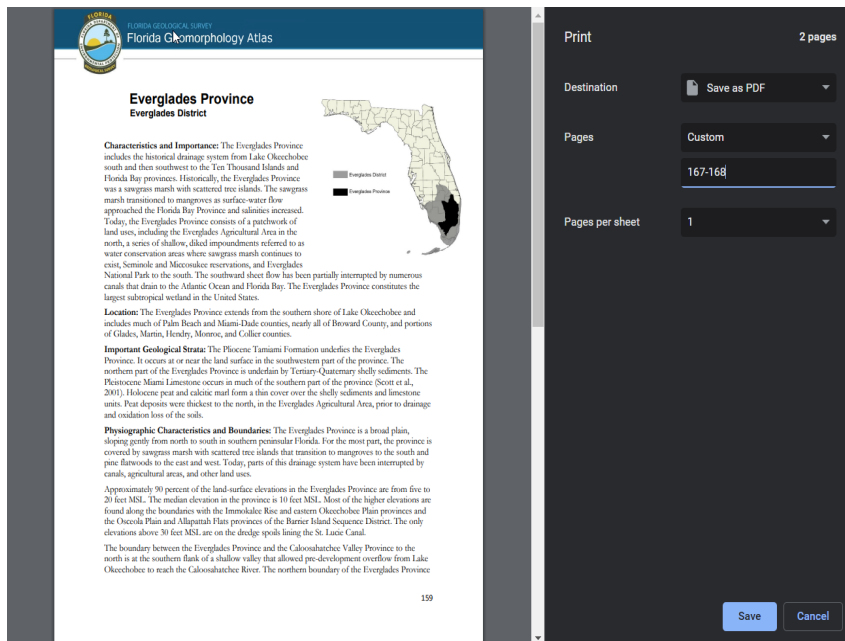
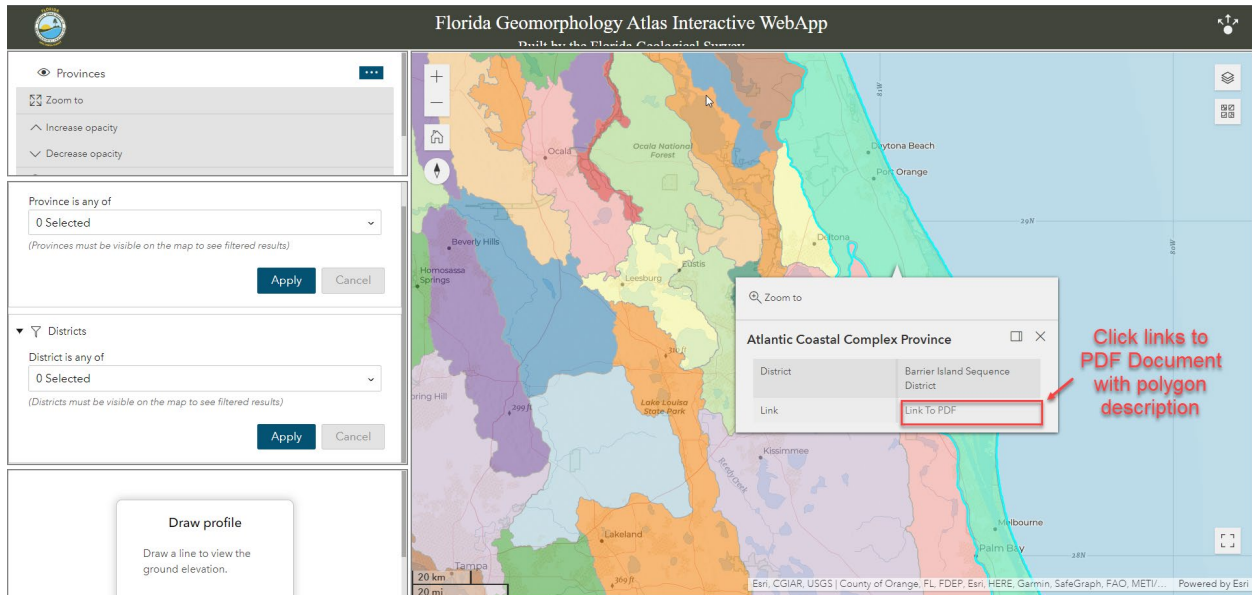


Other functionality of the elevation profile tool is that it can be reversed, and a range of statistics are available for the profile. ****Note**** the elevation profile layer used for the profile graphs is from the [World Elevation dynamic](#) managed by ESRI.



In the Map View, off to the right you can zoom in and zoom out with the mouse wheel, to pan around with mouse just click, hold, and drag.

Clicking on a polygon (Province or District) will bring up an information window



Clicking on the “Link to PDF” text will take the user directly to the page in the Florida Geomorphology Atlas that describes the polygon.

****Note****. Each time a link is clicked a new browser window will open to the bookmarked page of the same document.

Using the print option in the browser window will print the entire 200 plus page document. You can limit the number of pages printed by using the custom pages option. Most writeups are 2-3 pages long.

If you want to make a custom map there are two options located on the lower left corner of the Geomorphology Atlas landing page.

One is to follow the link to DEP's Open Data Portal where users can download a copy or make a map with markup tools. There are no options to change background or add additional layers.

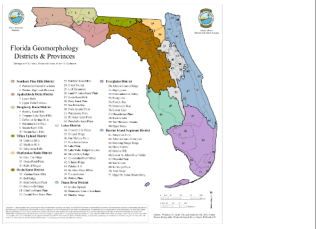
Alternatively, users can go to the Department's Map Direct site. Here users can add/remove layers, change backgrounds as well as share maps.

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FGS Resources

- FGS Home
- FGS Data
- FGS Publications

GIS Data Downloads

- DEP Open Data Portal
- DEP Map Direct

Abstract

Florida Geological Survey Special Publication 59, "Florida Geomorphology Atlas", presents the first comprehensive discussion of Florida's landforms that benefits from digital elevation models (DEMs), light detection and ranging (LiDAR) data, aerial and satellite imagery, and geologic data in a geographic information system (GIS) environment. Previous descriptions of Florida's geomorphology did not accurately define discrete boundaries and provided limited descriptions of the landforms, often with little to no discussions of the origins of the features or the relationship to the underlying geology.

Florida is divided into 10 regional districts which are subdivided into 71 sub-regional to local provinces. This classification system is based on landform similarities, the relationships to surrounding features, and geologic processes affecting the area, particularly coastal, fluvial, and karst processes. Districts have as few as two provinces up to 17 provinces. District and province description sections include Characteristics and Importance, Location, Important Geological State, Physiographic Characteristics and Boundaries, and Important Landforms and Sites. Geomorphic districts from earlier work in Alabama and Georgia were extended into Florida where appropriate.

The "Florida Geomorphology Atlas" is a digital publication that includes a website and interactive WebApp with text descriptions for districts and provinces and accompanying spatial polygon data. The maps and data are not intended for site-specific purposes; however, they provide an informative and conceptual framework for understanding the landforms of Florida.

Disclaimer: These geomorphology data were developed by the Florida Department of Environmental Protection (DEP)-Florida Geological Survey (FGS) to carry out agency responsibilities related to management, protection, and development of Florida's natural resources. Content of this map was gathered from various local, state, and federal agencies, although efforts have been made for informational and geographic accuracy, boundaries depicted on this map document are approximate. These data and graphical representations are intended for informational use only and should not be considered authoritative for navigation, engineering, legal, or other site-specific and use-specific purposes. The Florida Geological Survey (FGS) does not guarantee this document or data to be free from errors or inaccuracies and disclaims any responsibility or liability for inappropriate change of scale greater than 1:62,500, interpretations, or decisions based thereon. These data are provided without warranty of any kind, either expressed or implied. The burden for determining fitness of use lies entirely with the user. The user is solely responsible for understanding the limitations of the data provided. The Florida DEP and the FGS do not assume any legal liability or responsibility arising from the use of this product in a manner not intended by the authors. In no event shall DEP-FGS be liable for damages of any kind including loss of anticipated profits or benefits arising out of use of or reliance on these data. DEP-FGS bears no responsibility to inform users of any subsequent changes made to these data. Furthermore, since part of these data were developed and collected with US Government or State of Florida funding, no proprietary rights may be attached to them in whole or in part; nor may it be sold to the US Government or the Florida State Government as part of any procurement of products or services.

For information on how to navigate and share maps in Map Direct use the following Resources:

Quick Start Documents → <https://ca.dep.state.fl.us/mapdirectDocs>

YouTube video tutorials series → https://www.youtube.com/playlist?list=PL08_Wppvk25DmnaOgtJnQv7JMJ5bWEwZz