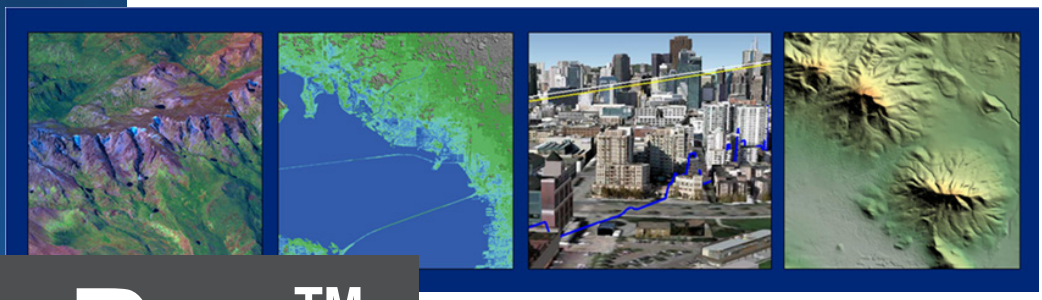

GeoPro™

INTERMAP®

WWW.INTERMAP.COM

Quick Start Guide

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Terms of Use

Customer Support

Visit our GeoPro Customer Support Web page at: http://www.intermap.com/geopro-customer-support

Additionally, you can email us at support.geopro@intermap.com or call the support staff at:

- +1 877-837-7246 (US and Canada)
- +1 303-708-0955 (Outside the United States, Canada and Europe)

For more information about GeoPro and Intermap, please visit us online at www.intermap.com.

GeoPro Overview

GeoPro is a cloud-based SaaS software product that simplifies the task of managing, transforming, and sharing geospatial data. It allows users to easily share individual or aggregated data sets via Open Geospatial Consortium (OGC) Web services inside or outside of their organization. GeoPro's intuitive and modern user interface is easy enough for the GIS novice yet powerful for the geospatial expert.

Supported Browsers:

- Internet Explorer (version 10 or higher)
- Mozilla Firefox
- Google Chrome
- Amazon Silk
- Safari

GeoPro Workflow

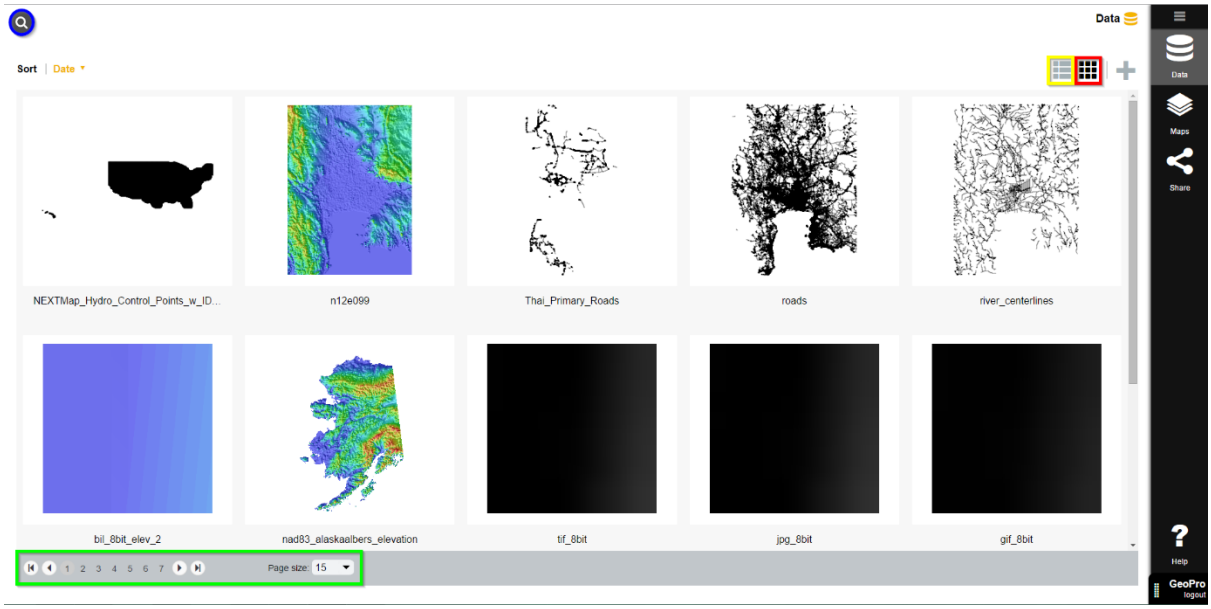
GeoPro allows you to aggregate, process, and manage a wide variety of geospatial data by:

- Connecting various files, databases, and web services.
- Viewing, searching, sorting, and managing all connected data through an intuitive data management portal.
- Reprojecting and caching data to optimize it for viewing and publication.

Data

Display Data Connections

1. Once logged in to GeoPro, click **Data** on the activity panel (located on the right side of the page) to access established data connections.
2. Click the icon outlined in yellow to change the display to **List View**. Click the icon outlined in red to change the display to **Grid View**.
3. Use the search box outlined in blue to search for data connections.
4. Navigate through pages and change the number of data connections displayed per page with the section outlined in green.

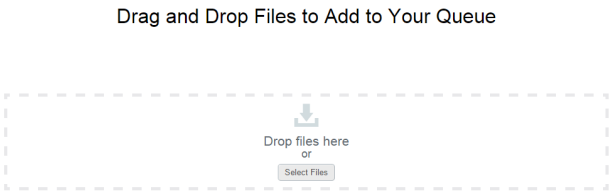


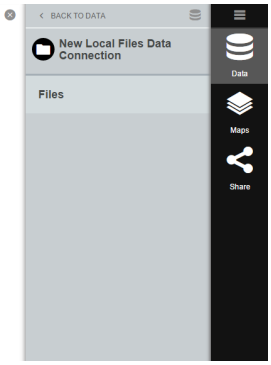
Create a New Data Connection

From Local

1. Click **Data** on the activity panel.
2. Click the + icon then select **From Local**.

3. Select Files by navigating to the appropriate locally stored files or drag and drop the appropriate files in the **Drop files here** box.

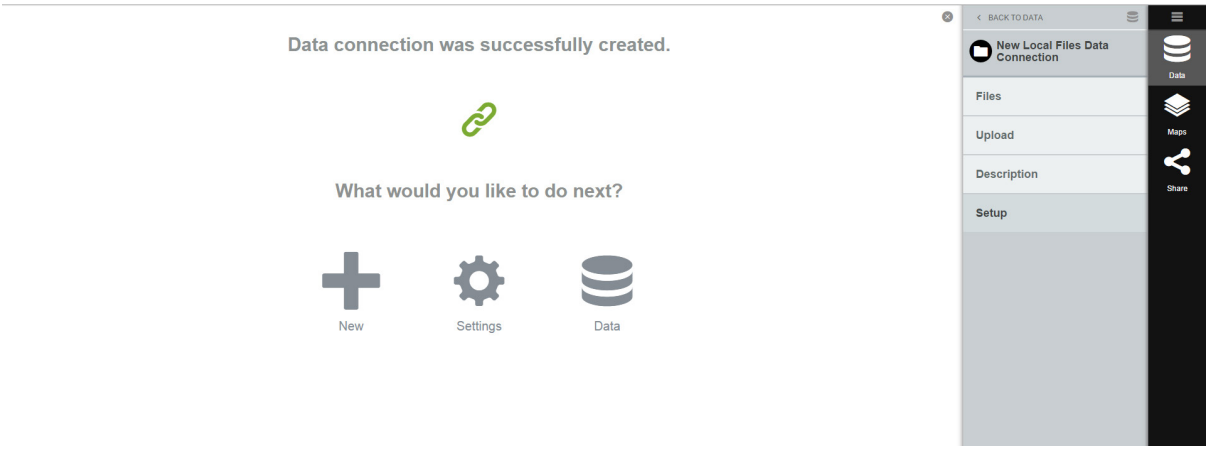




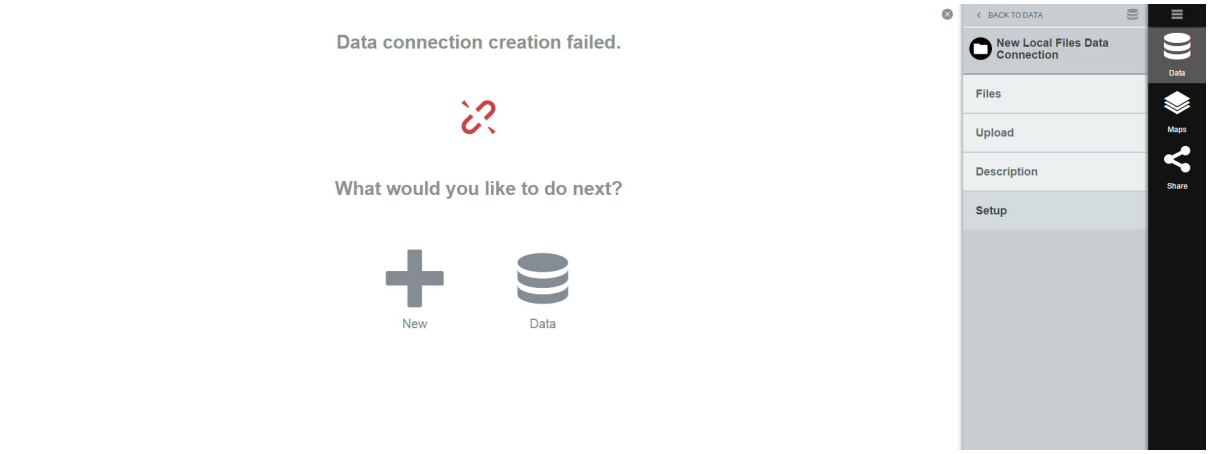
4. Click the **right arrow** to start uploading the queued files. Note: For xls/xlsx files you will be asked to identify columns.

5. After the upload is complete, give the data connection a name and description if necessary. Then click the **right arrow** again to complete the data connection.

6. If the data connection was successfully created you will see the page below. To create another data connection, click the **New** icon. To go into the settings of the data connection, click the **Settings** icon. To view the list of established data connections, click the **Data** icon.

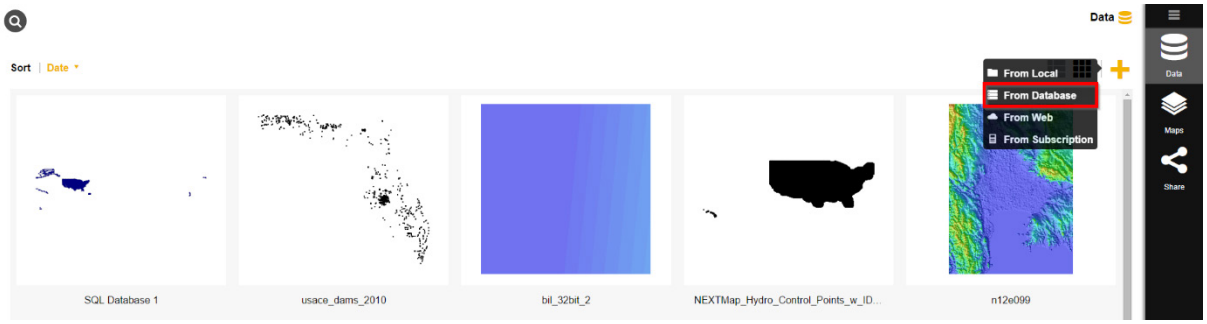


7. If the data connection fails to upload, you will see the page below. Make sure the spatial reference system is supported by GeoPro and try the upload process again.



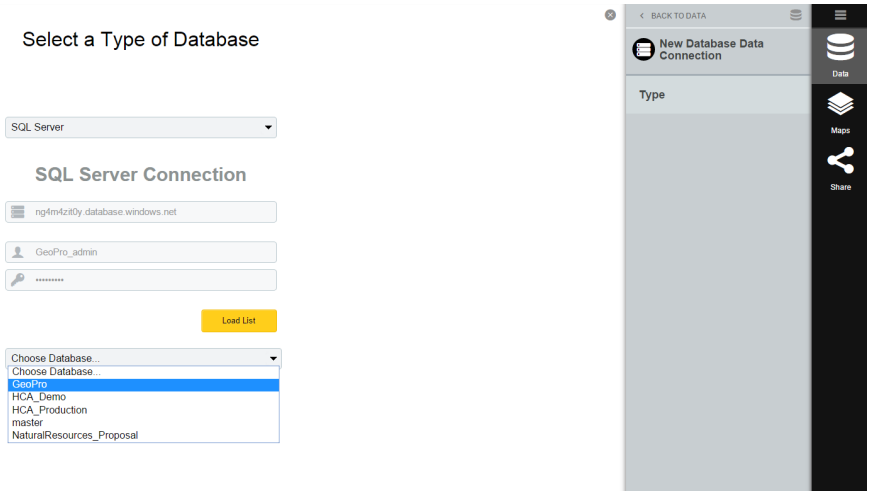
From Database

1. Click **Data** on the activity panel.
2. Click the + icon then select **From Database**.



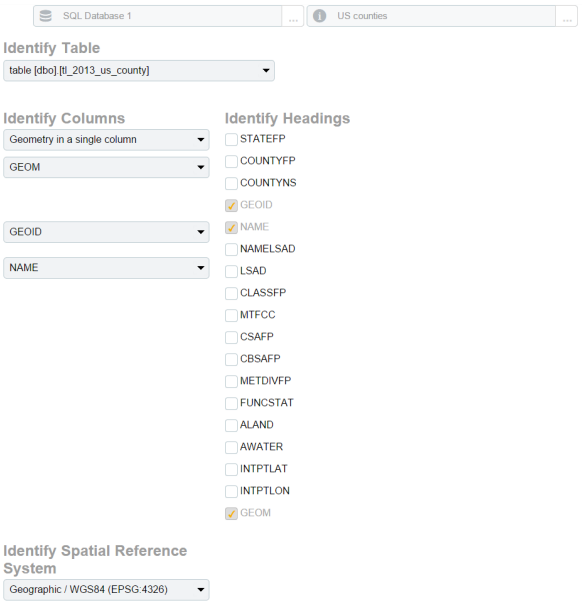
3. Select the Server type from the drop down menu then click the **right arrow** to continue.

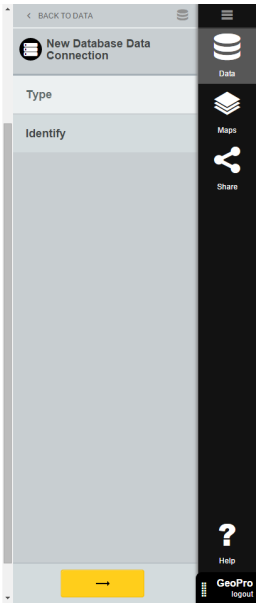
4. Enter the Server Name/Address, Username, and Password in the corresponding fields. Then click **Load List** and select a database from the server.



5. Click the **right arrow** to continue.

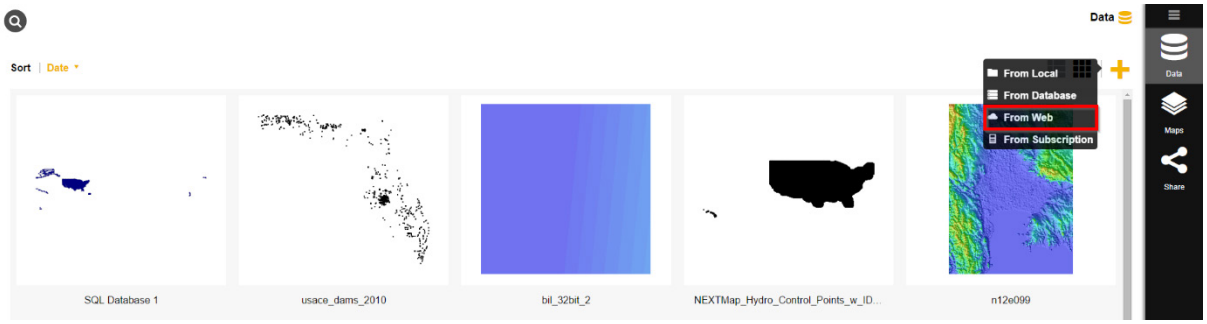
6. Identify the appropriate Table and Columns from the database. Select the appropriate spatial reference system then click the **right arrow** to create the data connection.





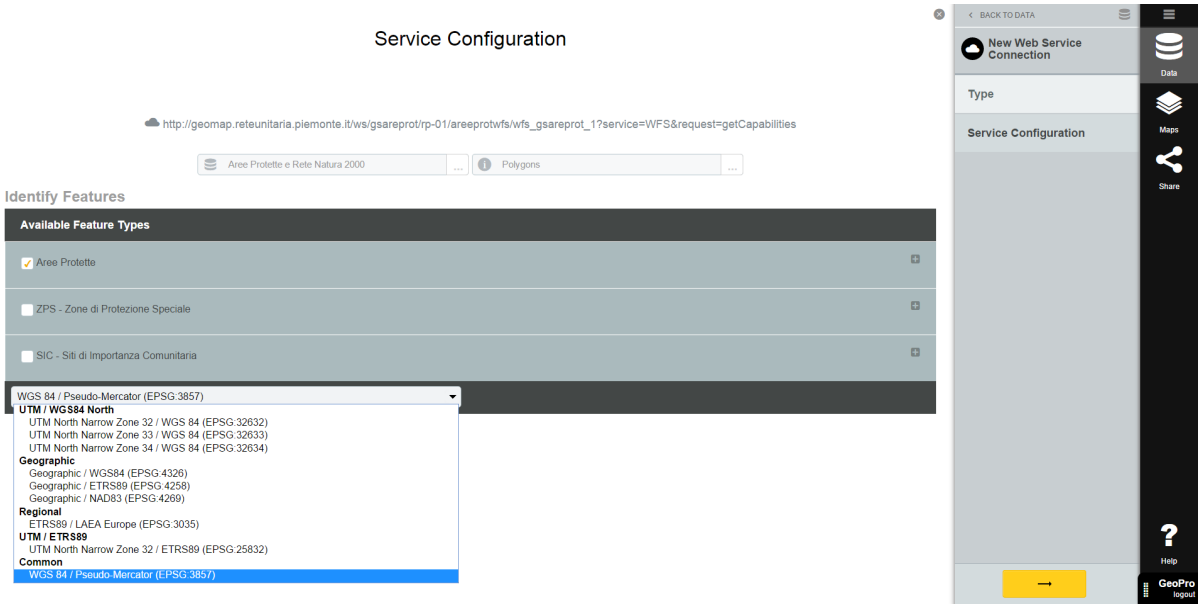
From Web

1. Click **Data** on the activity panel.
2. Click the + icon then select **From Web**.



3. Select Web Service Type from the drop down menu then click the **right arrow** to continue.

4. Enter the Service URL and Username/Password (if necessary) then click the **right arrow** to continue.
5. Give the data connection a Name and Description, Select Available Feature Types, and Select an appropriate spatial reference system. Click the **right arrow** to continue.

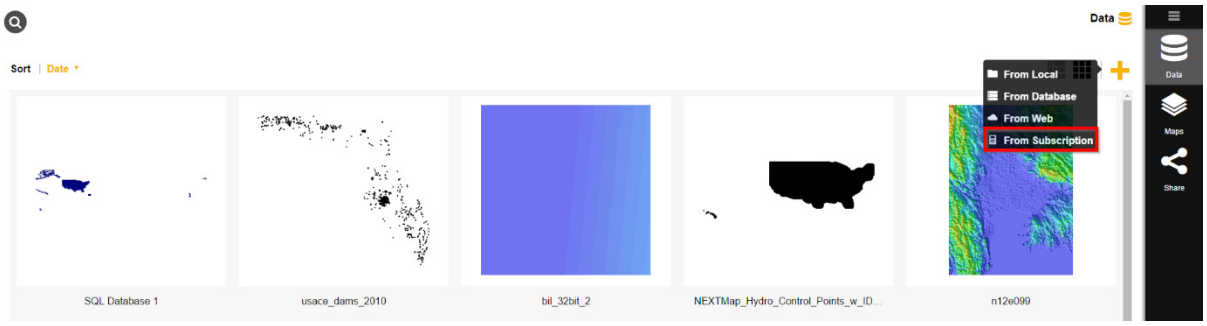


6. Identify Feature Columns (if necessary) then click the right arrow to complete the data connection.

From Subscription

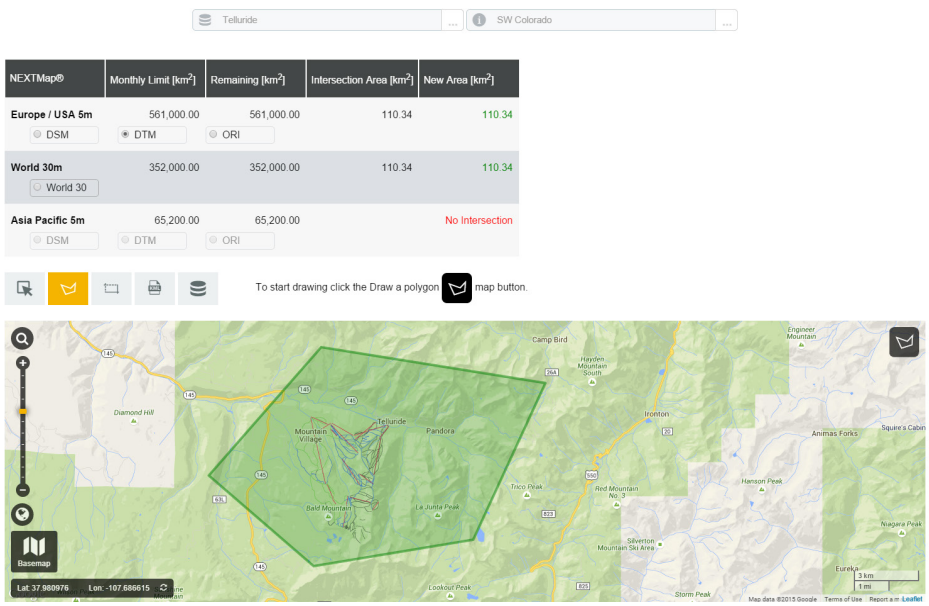
(Please contact your sales representative to purchase a data subscription)

1. Click **Data** on the activity panel.
2. Click the + icon then select **From Subscription**



3. Select Subscription Type then click the **right arrow** to continue.

4. Create an area of interest using the tools located above the map. Then select the data type in the table above the map and give the data connection a name and description. Click the **right arrow** to continue.



5. Review the selected area of interest and click **Accept** to create the data connection.

Data Connection Settings

1. Click **Data** on the activity panel.
2. Move your mouse over an existing data connection then click **Open**

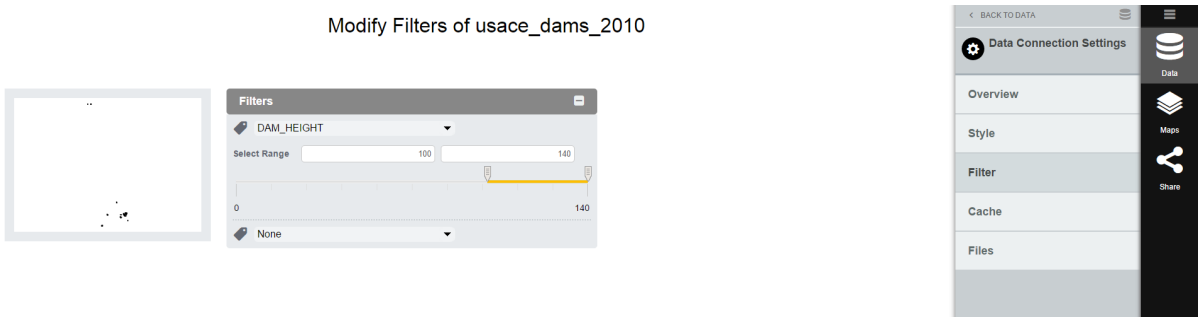
3. An overview of the data connection will display.

Style

1. The appearance of a data connection can be edited in the **Style** section. Note: Style options differ depending on the format of the data connection.
2. Select the desired style options then click **Apply** to save changes.

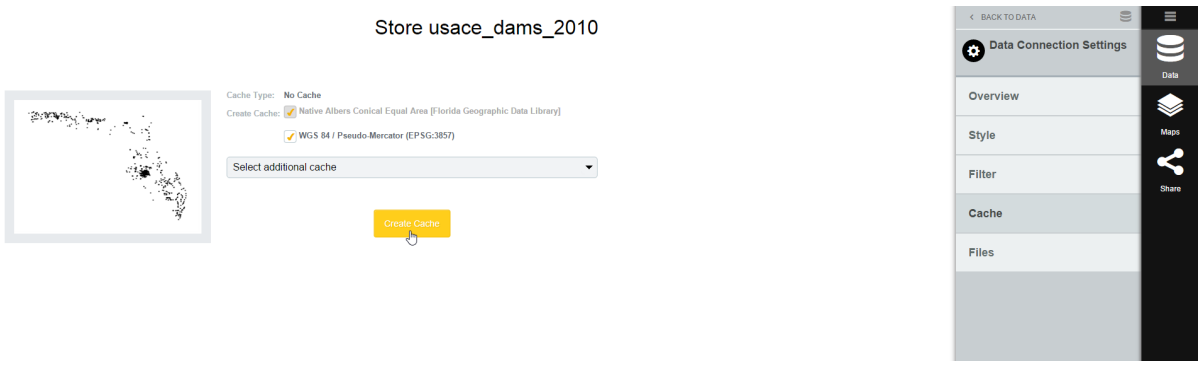
Filter

1. Data connections can be filtered by attributes so that only select attributes will display.
2. Select a filterable attribute from the drop down menu then select the range of the filter. Click **Apply** to save changes.



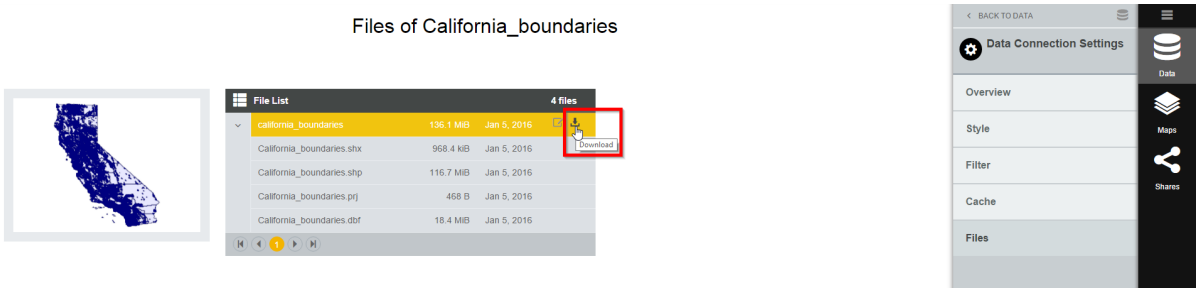
Cache

1. Default caches will be automatically selected and additional caches can be selected with drop down menu. Click **Create Cache** to establish selected caches. Established caches will display in the Cache List.



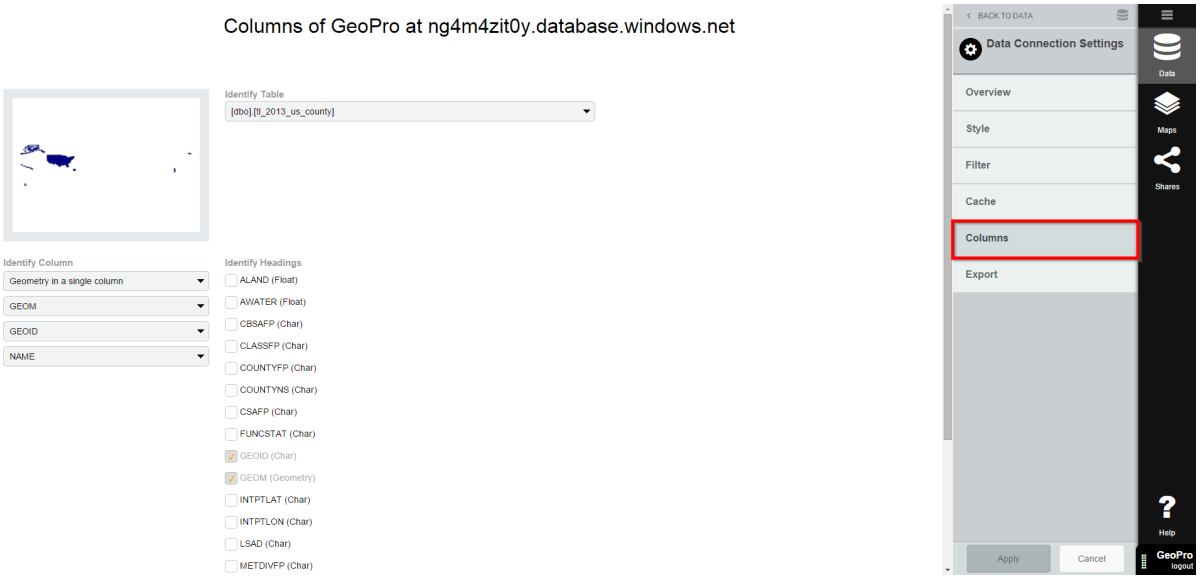
File Download

1. Data connection files display in the Files section. Users can download data in a traditional format such as a shapefile or KMZ file for vectors, and GeoTiff or KMZ for rasters so that users can work directly with formats they are already familiar with in 3rd party tools.
2. To download a data connection in its original format, click the download icon.

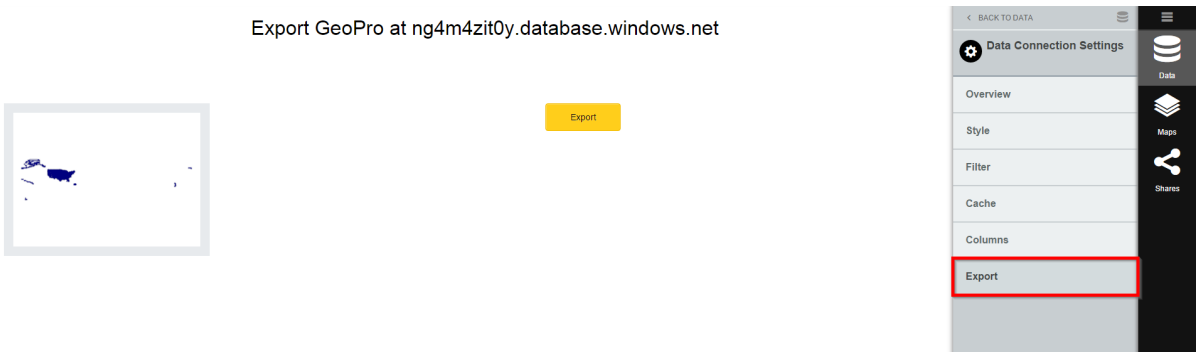


Database Connection Settings

1. The settings page of a database data connection contains a section called Columns. The database Table and Columns can be changed here as well as the data connection's Spatial Reference System.

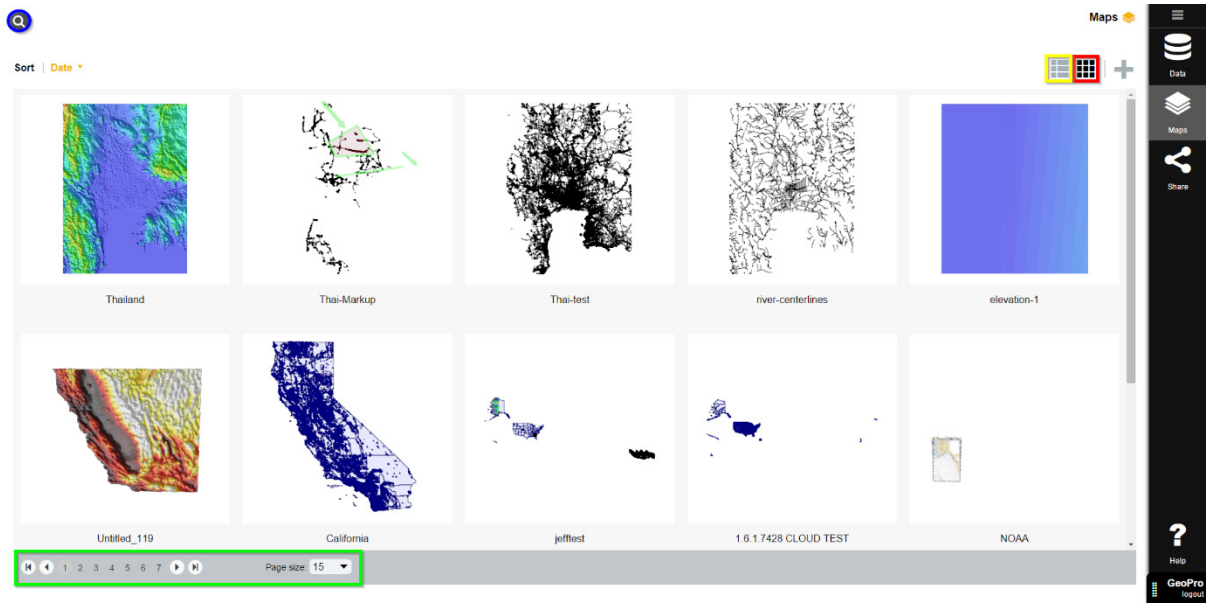


2. The database data connections page contains an Export section. To export the data connection in its original format go to this section then click **Export**.



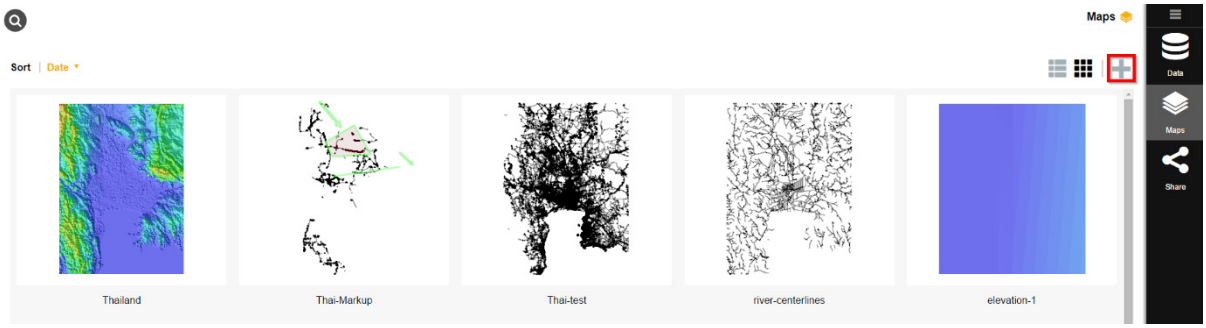
Display Maps

1. Click **Maps** on the activity panel to access established maps.
2. Click the icon outlined in yellow to change the display to **List View**. Click the icon outlined in red to change the display to **Grid View**.
3. Use the search box outlined in blue to search for maps.
4. Navigate through pages and change the number of maps displayed per page with the section outlined in green.



Create a New Map

1. Click **Maps** on the activity panel.
2. Click the + icon to create a new map.



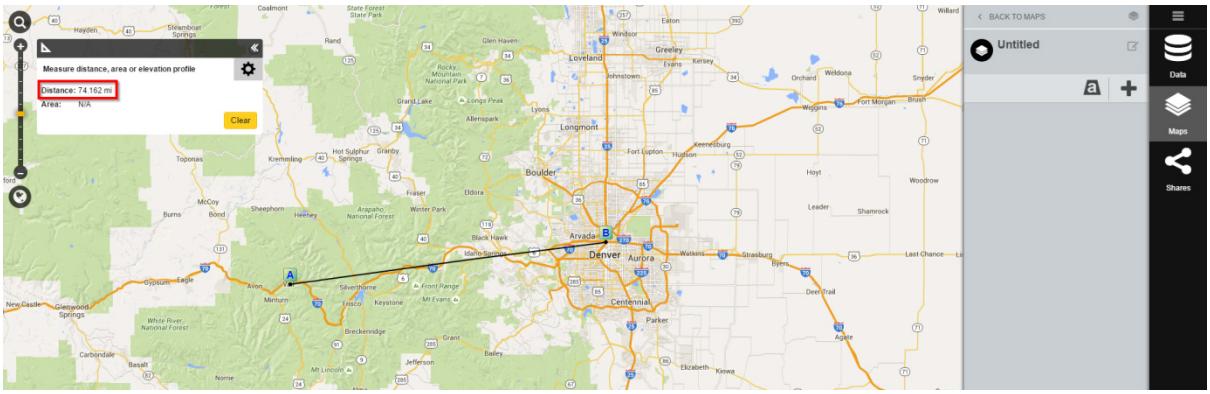
3. Name the map with the title section outlined in red. Search for a location with the search box outlined in blue. Zoom into the map using the mouse or slider bar outlined in yellow. To display the lowest zoom level, click the icon outlined in purple. To change the basemap layer, click the icon outlined in green.

4. To add data layers to the map, click the + icon. Then move your mouse over a data connection and click **Select** to add it to the map.

Distance Measurement Tool

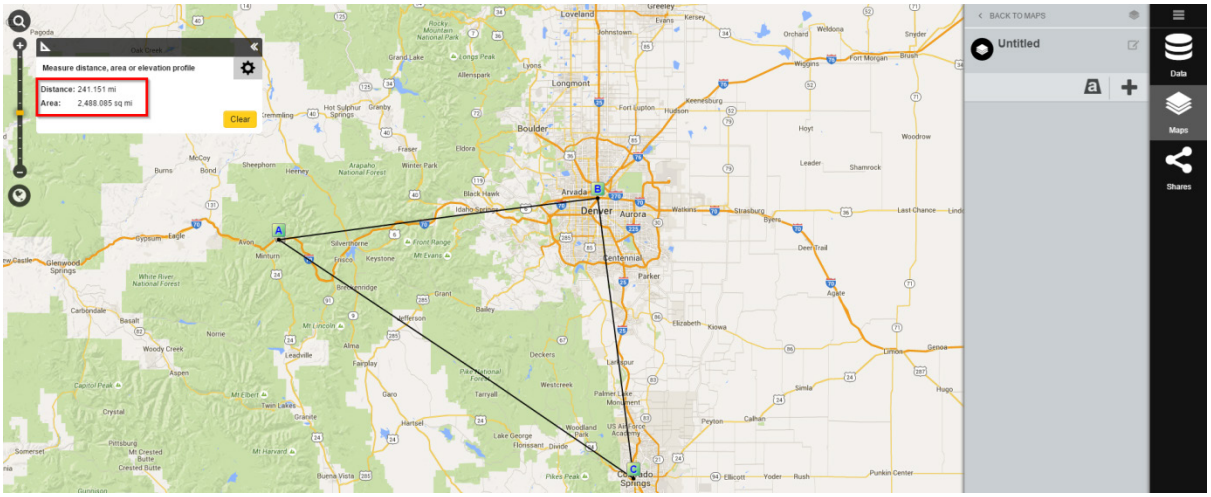
1. This tool allows the user to select points on a map to calculate the distance between the points. Distance units are calculated in both meters and feet. Multiple points can be selected and distances are given between points and for the total distance selected.

2. To use the Distance Measurement Tool click the measurement tool icon on the top left of the map then click on the map to create Point A. Click on a different area on the map to create Point B. Click on Point B again to end the line. The distance between Point A and Point B will display in the Measurement Panel.



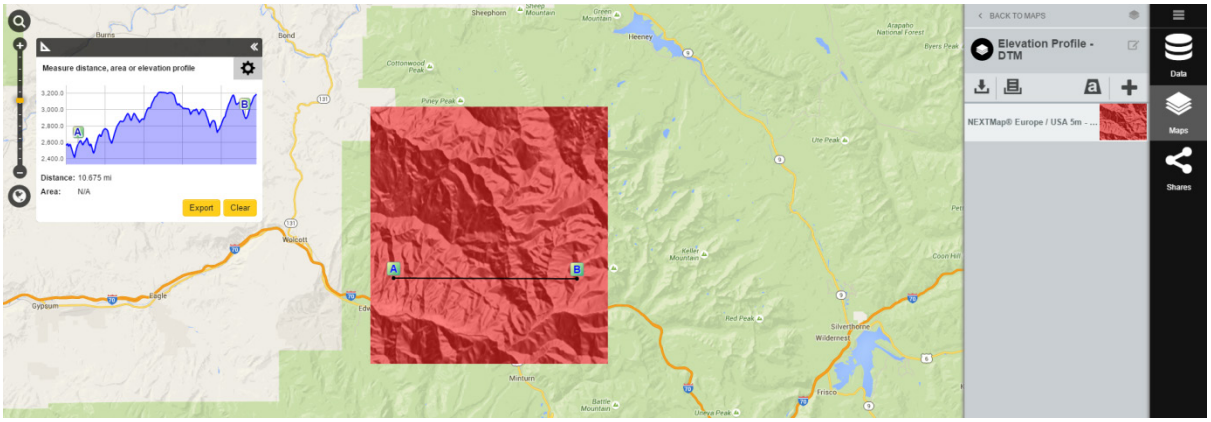
Area Measurement Tool

1. This tool allows the user to draw a polygon on a map to calculate the area of the polygon. Distance units are calculated in both meters and feet.
2. To use the Area Measurement Tool click the measurement tool icon on the top left of the map then create points on the map to form a polygon. Click on Point A to finish the polygon. The Distance and Area metrics for the polygon will display in the Measurement Panel.

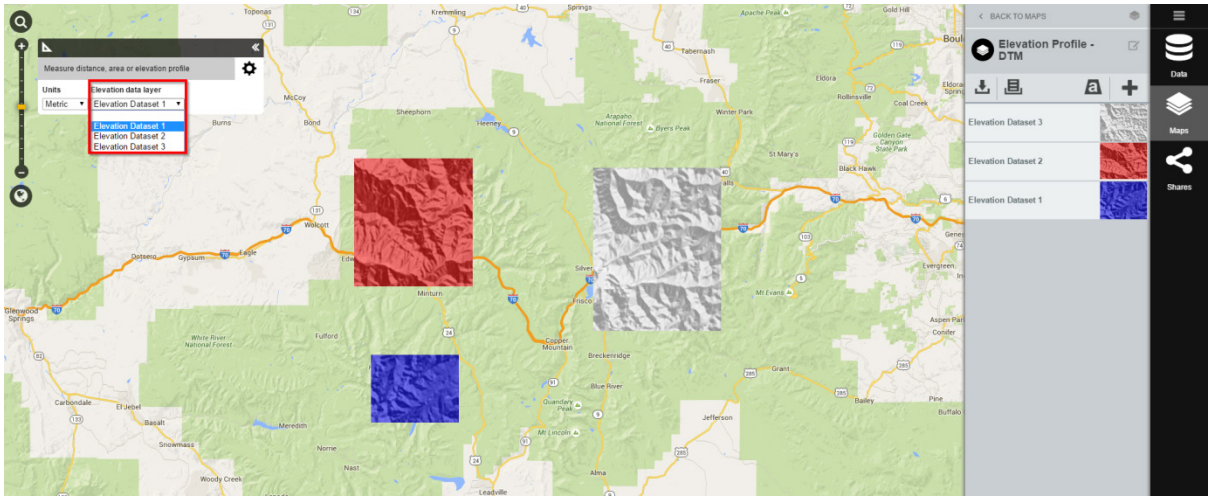


Elevation Profile Tool

1. This tool creates an elevation profile between 2 points designated by the user on a map. The tool is available when an elevation dataset is present as a layer in a map in GeoPro.
2. To use the Elevation Profile Tool users must first add an elevation dataset as a layer to the map. Then click the measurement tool icon on the top left of the map then click on the data layer to create Point A. Click on a different area of the data layer to create Point B. Click on Point B again to end the line. The elevation profile will appear in the Measurement Panel. Users have the ability to export the elevation profile to a csv file.

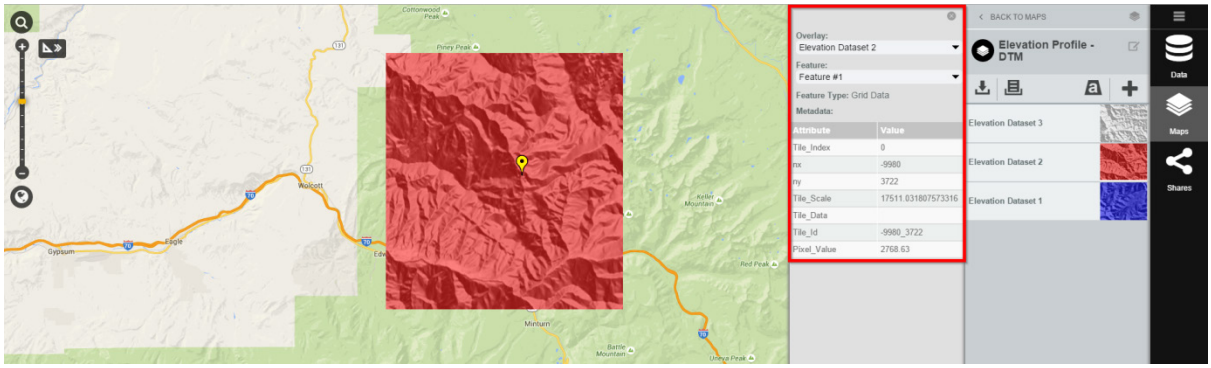


3. When there are 2 or more elevation datasets available in a map, the profile tool allows the user to select the dataset they want to use, and they can switch between the datasets to see the profile in each of the elevation datasets. Users can choose between metric and imperial units.



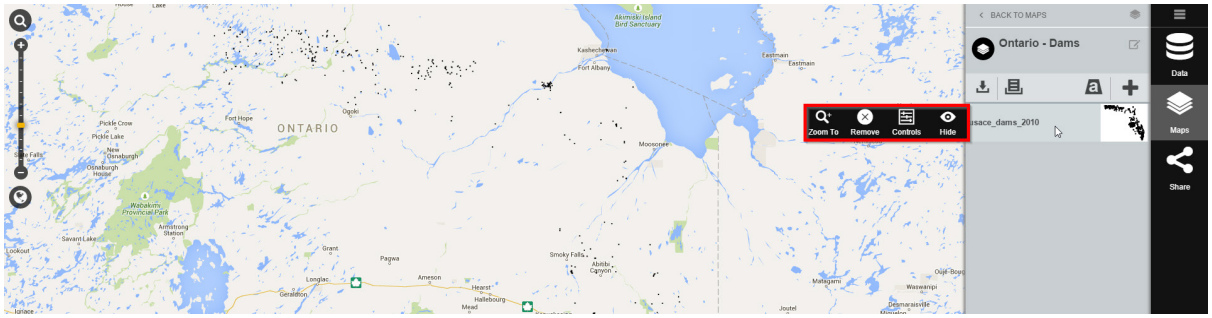
Pixel Value Selection Tool

1. The user can click on the map to get attributes from grid data (DEM) layers in order to see the pixel value of selected grid data, i.e. elevation or flood zone data.

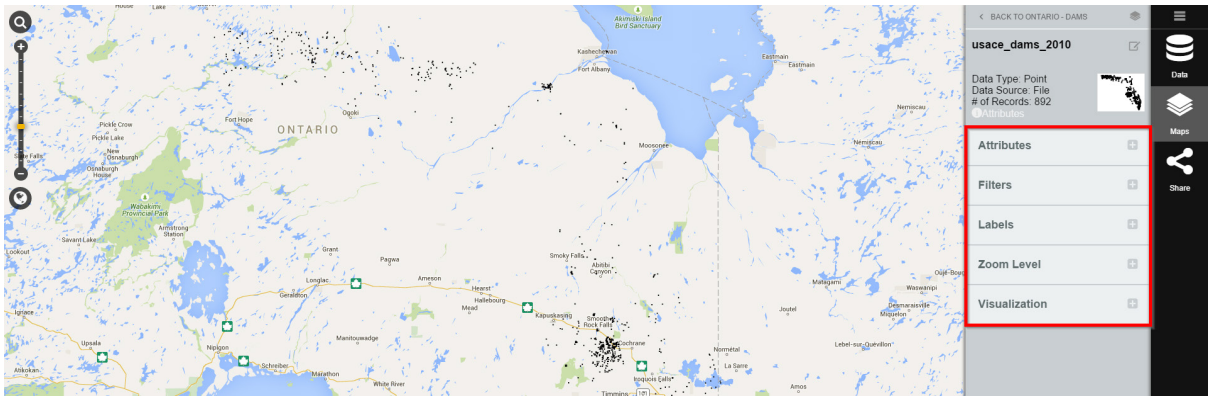


Layer Options

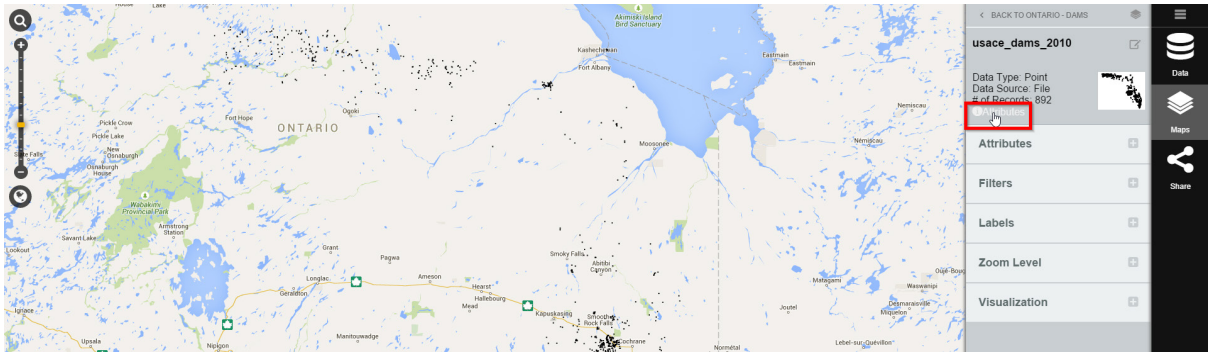
1. Move your mouse over the data layer to show data layer options. Click **Zoom To** to display the layer extents. Click **Remove** to remove the data layer from the map. Click **Controls** to show additional layer options. Click **Hide** to hide the data layer on the map.



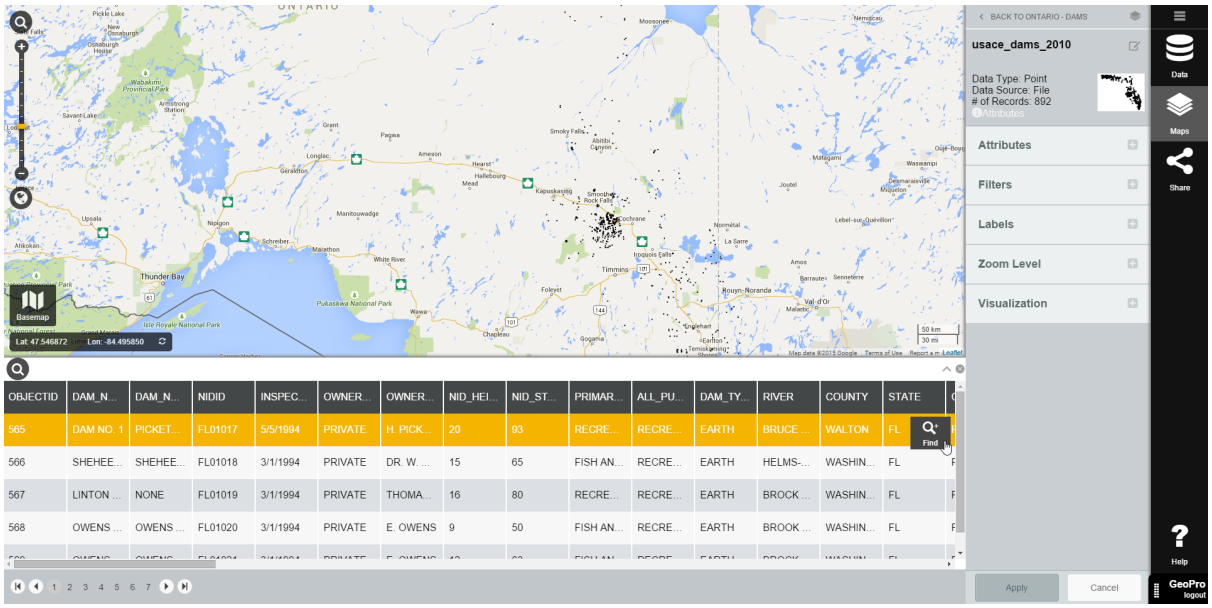
2. In the **Controls** section users can turn on/off data layer **Attributes**, apply **Filters** to the data layer, display **Labels**, choose the **Zoom Level** at which the data layer will display, and alter the **Visualization** of the data layer. Note: Different types of data will have different options for visualization. Click **Apply** to save any changes.



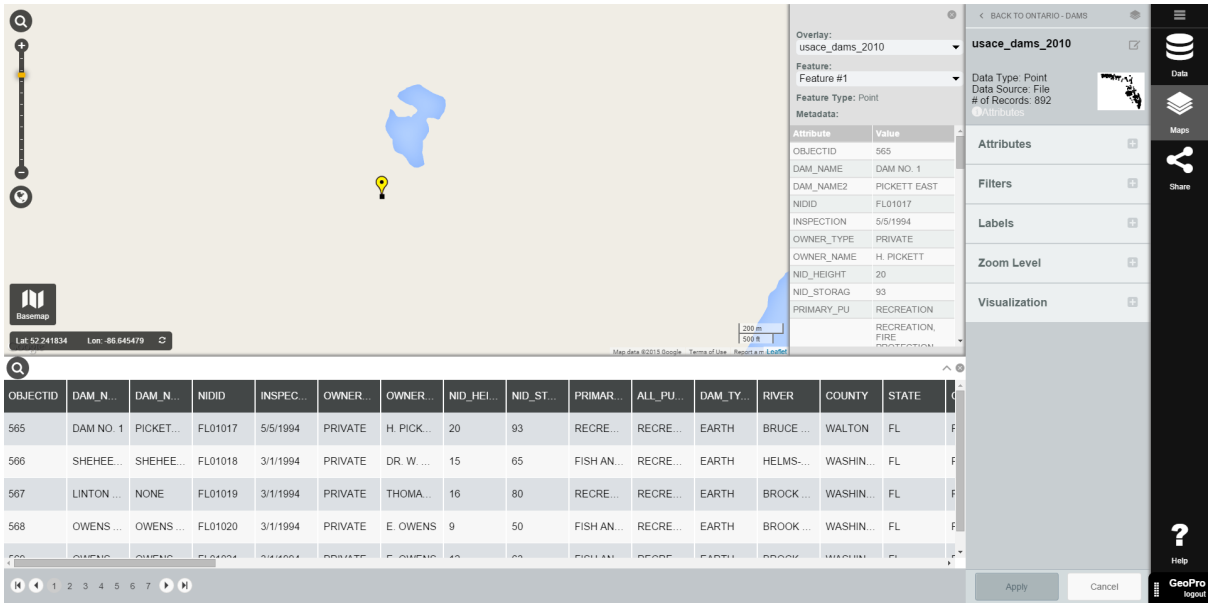
3. Click **Attributes** (if applicable) to display the **Attributes Table** under the map.



4. To zoom into an attribute, move your mouse over it then click **Find**.



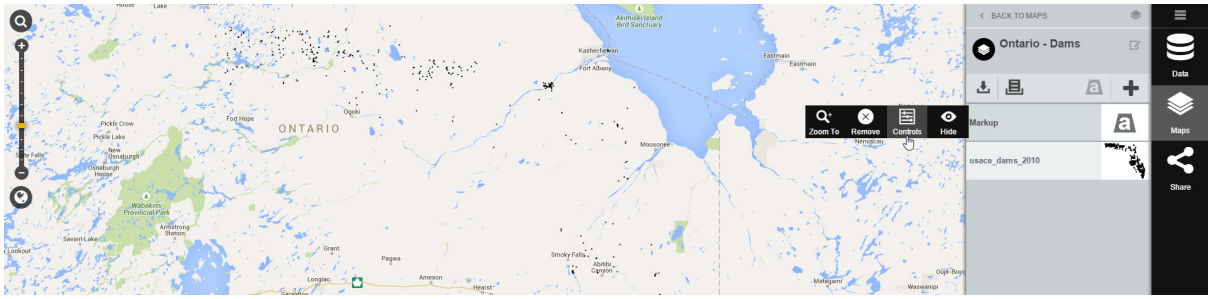
5. The attribute will display on the map. All associated information will appear on the right side on the map. Note: This information will also display when clicking on an attribute on the map.



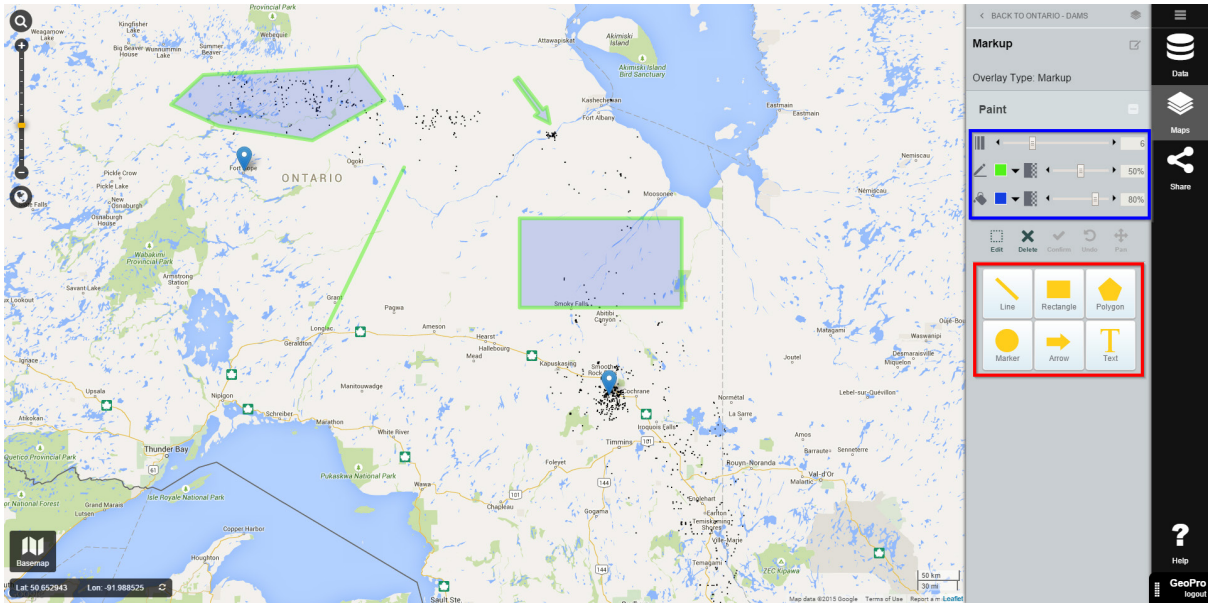
Markup Layer

1. To create a markup layer click the icon outlined in red.

2. The Markup layer will appear as a map layer. Move your mouse over the layer then click **Controls** to display markup layer options.



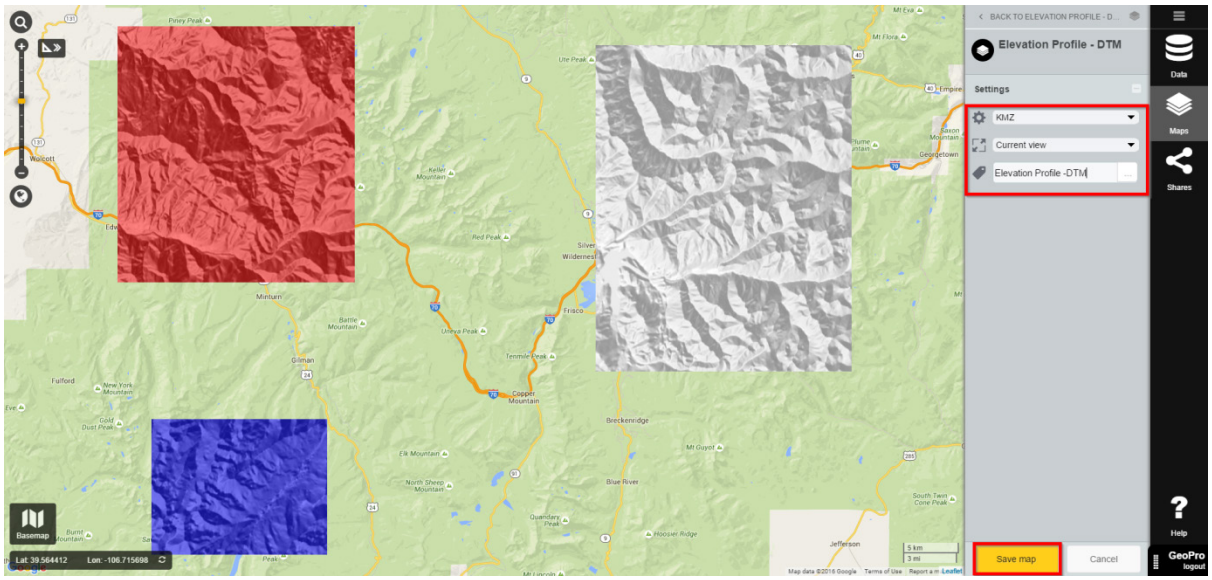
3. Add lines, rectangles, polygons, markers, arrows, and text to the layer using the tools outlined in red. Edit the line width, line color, and fill color of created objects with the tools outlined in blue.



Map Export

1. Users can export maps as KMZ, PNG, or JPEG files. The map export functionality allows the user to export everything in the map view that the user is displaying at the time of export. It will export all of the layers that are currently displayed in the view at the time of the export, and retains the symbolization set by the user for the layers, and includes the mark up layer if the user has one displayed on their map. It will also retain the zoom level of the map at the time of export. It is a snapshot of the map created by the user at the time of export. Users have the ability to print the map as well.
2. To export the current view of the map click the Save map as icon.

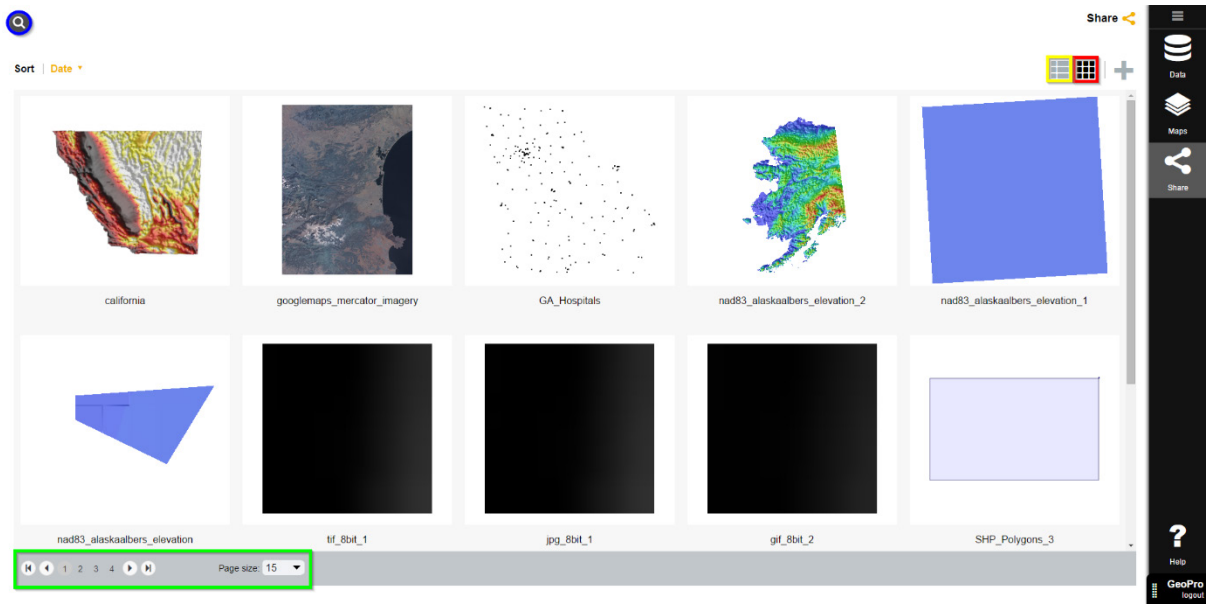
3. Choose the appropriate file type, image size, and file name then click **Save Map** to download the map file.



Share

Display Shares

1. Click **Share** on the activity panel to access established shares.
2. Click the icon outlined in yellow to change the display to **List View**. Click the icon outlined in red to change the display to **Grid View**.
3. Use the search box outlined in blue to search for shares.
4. Navigate through pages and change the number of shares displayed per page with the section outlined in green.

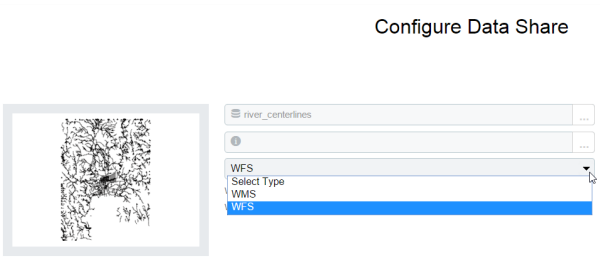


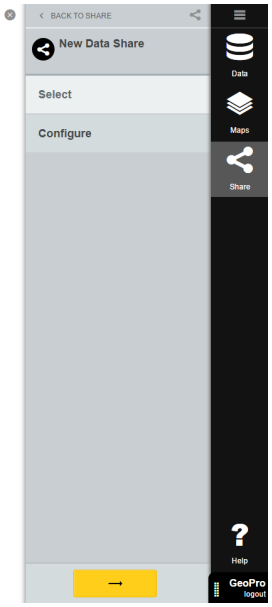
Create a New Share

From Data

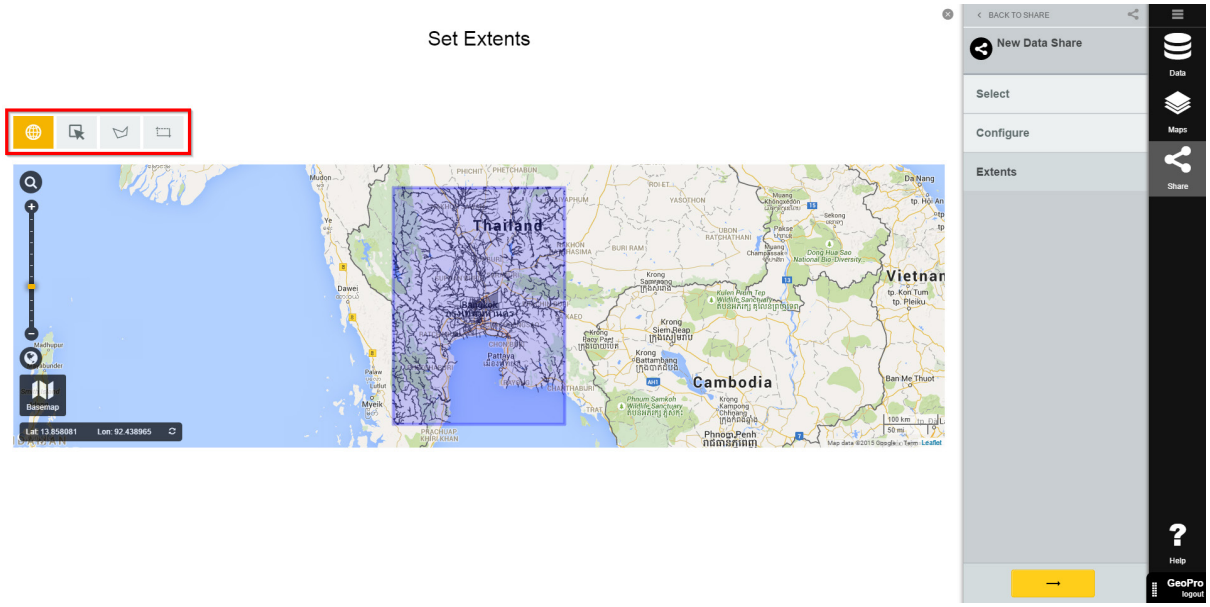
1. Click **Share** on the activity panel.
2. Click the + icon then select **From Data**.

3. Move your mouse over the data connection you want to share then click **Share**.
4. Select the type of share then click the **right arrow** to continue. Note: Different types of shares will be available based on the type of data connection.





5. The bounding box in **Set Extents** will default to cover the extents of the data connection. You can edit this bounding box with the tools outlined in red. Click the right arrow to create the share.



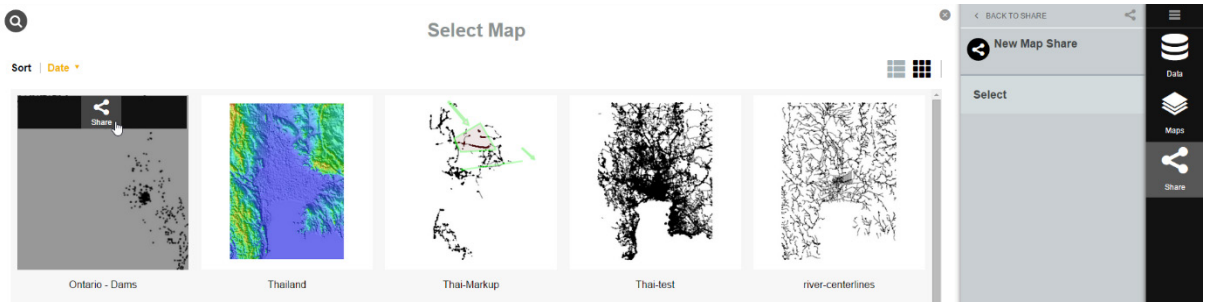
6. To view the information associated with the share, move your mouse over the share then click **Open**.

7. Use the **Share URL** outlined in red to connect to the share via a GIS applications such as ArcMap, QGIS, and Global Mapper.

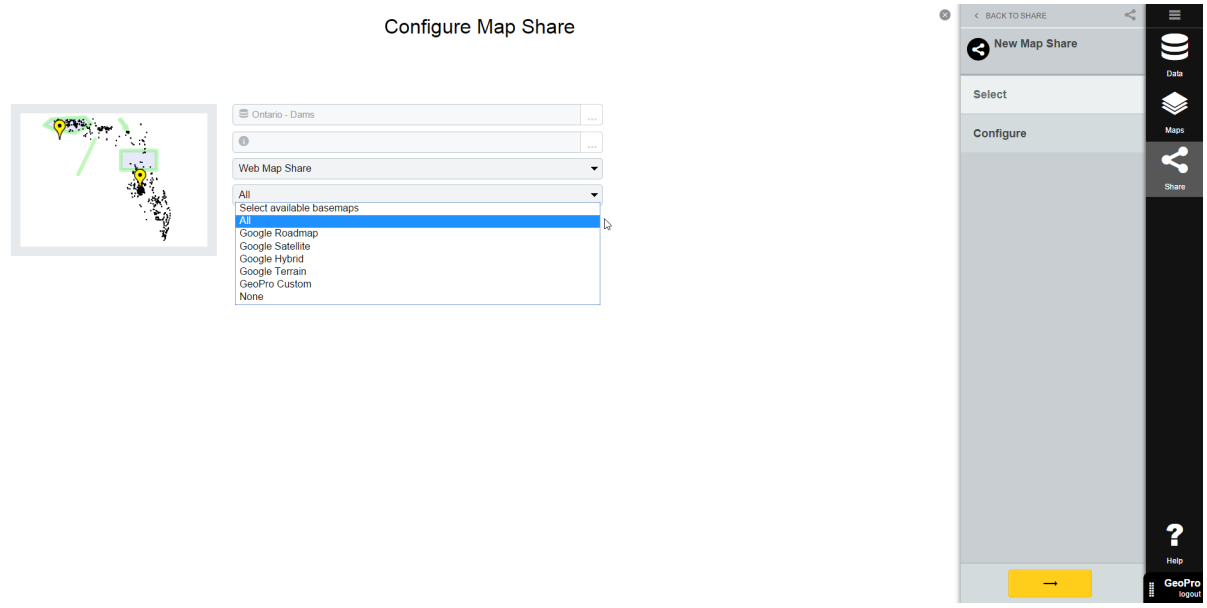
From Map – WMS

1. Click **Share** on the activity panel.
2. Click the + icon then select **From Map**.

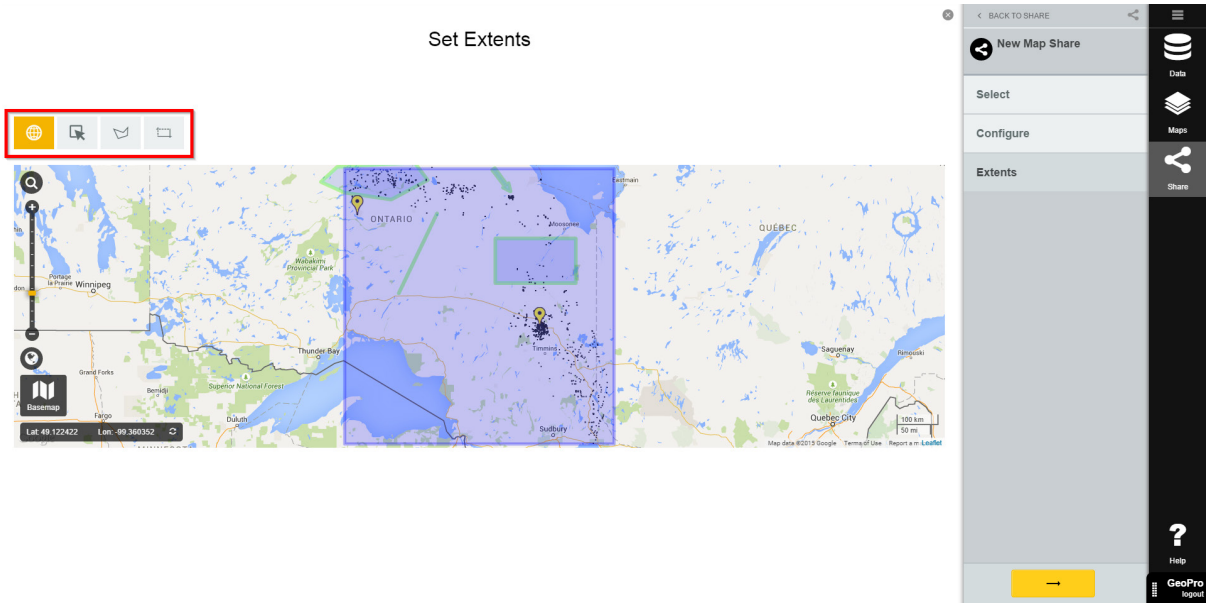
3. Move your mouse over the map you want to share then click **Share**.



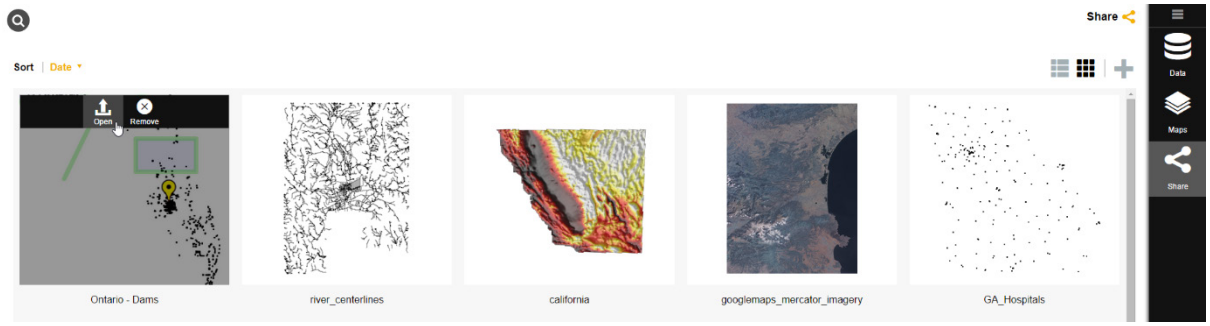
4. Select **WMS** as share type then click the **right arrow** to continue.



5. The bounding box in **Set Extents** will default to cover the extents of the map. You can edit this bounding box with the tools outlined in red. Click the right arrow to create the share.



6. To view the information associated with the share, move your mouse over the share then click **Open**.

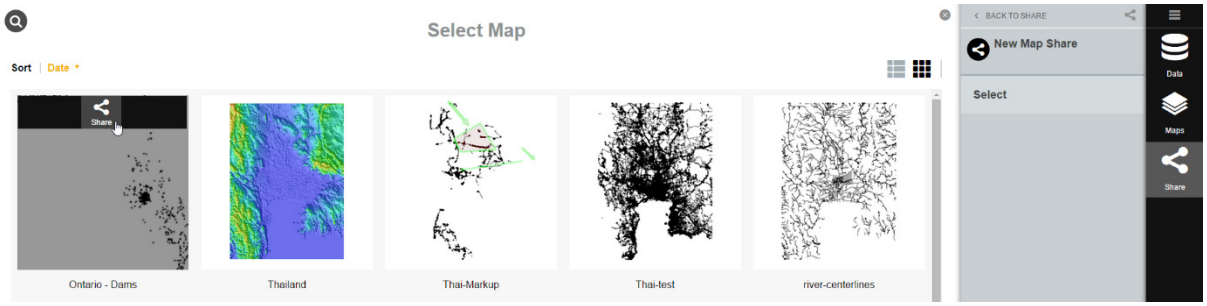


7. Use the **Share URL** outlined in red to connect to the share via a GIS applications such as ArcMap, QGIS, and Global Mapper.

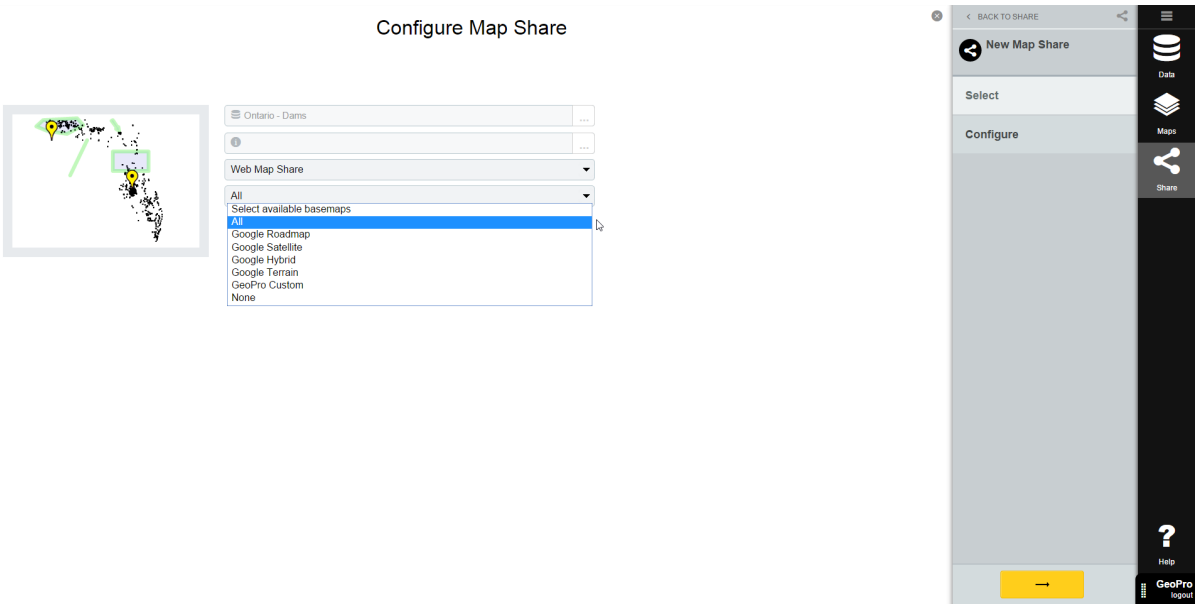
Web Map Share

1. Click **Share** on the activity panel.
2. Click the + icon then select **From Map**.

3. Move your mouse over the map you want to share then click **Share**.



4. Select **Web Map Share** as share type. Select a **Basemap** then click the **right arrow** to create the Web Map Share.



5. The **Web Map Share** can be accessed through the displayed URL. You can also open the share to view all associated information.