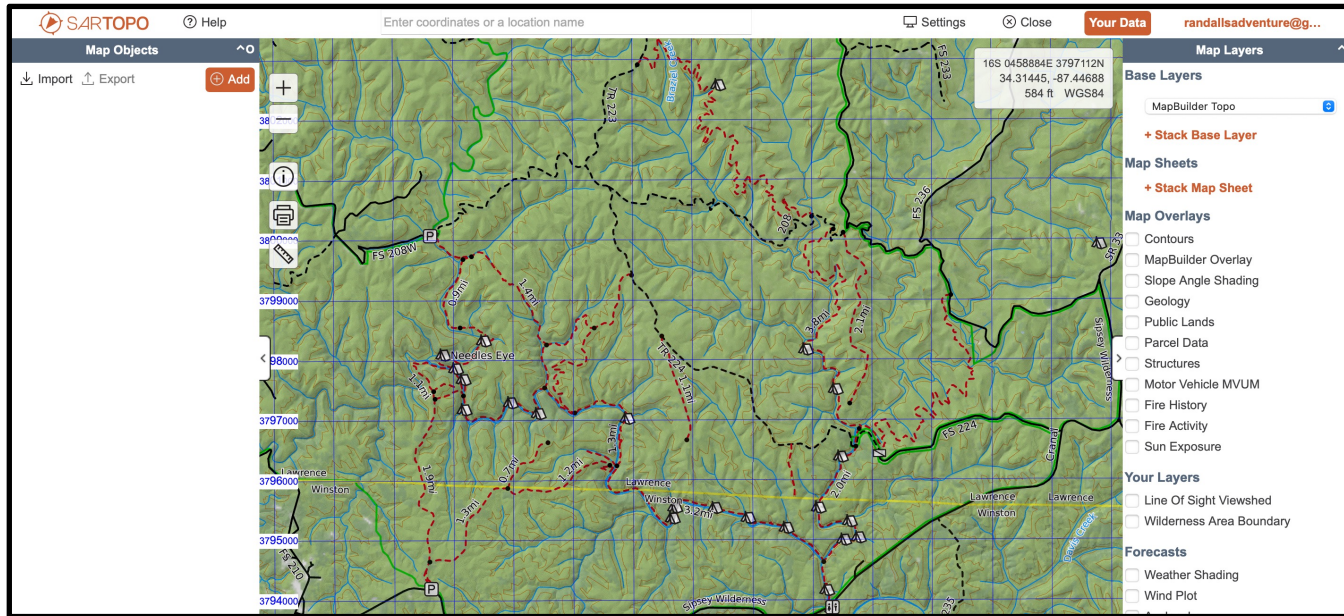




RAT-SAR

SarTopo – Web Based



This short presentation describes the basic use of the web-based SarTopo / CalTopo mapping system.

The web-based version integrates seamlessly with the app version.

Note: some features are only available on Pro or Team accounts.

If you already have a login (free account or team account) for the app version, use the same login for the web based version.





RAT-SAR

Basic Operation

- System Settings
- Understanding Layers / Overlays
- Adding Objects
- Measuring
- Saving Maps
- Creating Assignments
- Creating Folders
- Adding Resources
- Creating 104s
- Sharing Maps
- Importing / Exporting Data





RAT-SAR

Common Settings

Settings

The screenshot displays the SARTOPO software interface. At the top, there is a search bar with the text "Enter coordinates or a location name" and a "Settings" button highlighted with a red box. To the right of the "Settings" button are "Close" and "Your Data" buttons. The main area is a topographic map with various overlays, including a red dashed line representing a search area. A coordinate popup shows: 16S 0458884E 3797112N, 34.31445, -87.44688, 584 ft WGS84. On the right side, there is a "Map Layers" panel with sections for "Base Layers", "Map Sheets", "Map Overlays", "Your Layers", and "Forecasts". The "Map Overlays" section includes checkboxes for Contours, MapBuilder Overlay, Slope Angle Shading, Geology, Public Lands, Parcel Data, Structures, Motor Vehicle MVUM, Fire History, Fire Activity, and Sun Exposure. The "Your Layers" section includes checkboxes for Line Of Sight Viewshed and Wilderness Area Boundary. The "Forecasts" section includes checkboxes for Weather Shading and Wind Plot.





RAT-SAR

Labels / Coordinate System

Settings

Display

Show Labels By Folder

Show UTM/USNG Grid
Intensity: 0 —●— 100

Update URL on Map Move

Default Mode SAR

Coordinates

Datum WGS84

Units Mixed

Coordinate System

USNG (primary)

Degrees (secondary)

Show Position at Cursor

Settings Close Your Data

16S DC 63049 99799
34.33883, -87.40173
817 ft WGS84

Main map view

Coordinates displayed where the cursor is.

For SAR work in Alabama we use USNG as the primary and Degrees as the secondary with WGS84 datum unless otherwise specified.





RAT-SAR

Base Layers

The screenshot shows the SARTOPO software interface. The main map area displays a topographic map with various features like roads, trails, and terrain. A coordinate popup is visible over the map, showing: 16S 0458884E 3797112N, 34.31445, -87.44688, 584 ft WGS84. On the right side, there is a 'Map Layers' panel with a 'Base Layers' section highlighted by a red box. The 'Base Layers' section contains a dropdown menu currently set to 'MapBuilder Topo'. Below this, there are sections for 'Map Sheets', 'Map Overlays', 'Your Layers', and 'Forecasts', each with a list of options and checkboxes.

Base Layers

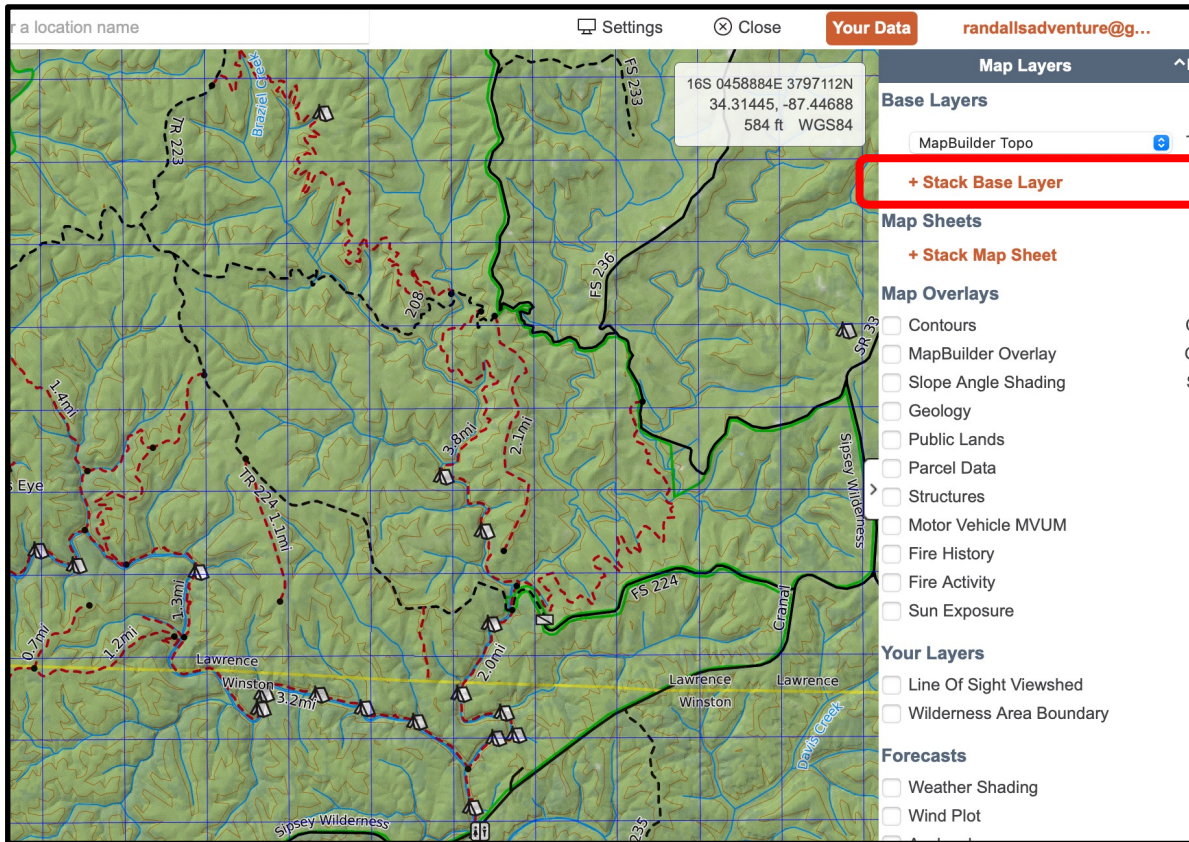
This is a close-up of the 'Map Layers' panel. It shows a list of map layers under the heading 'Map Layers'. The 'Topographic Maps' section is expanded, showing a list of options: MapBuilder Topo (checked), MapBuilder Hybrid, Scanned Topos, Forest Service, TF Outdoors, Aerial Imagery, Global Imagery, NAIP, Relief Shading, Shaded Relief, Google Layers, Map, Terrain, Satellite, Hybrid, Street Maps, MapBuilder Roads, OpenStreetMap, OpenCycleMap, Other Maps, Marine Charts, FAA Sectional, Historic, Live Satellites (pro), Sentinel Weekly, MODIS Daily, GOES Live, and GOES Temperature.



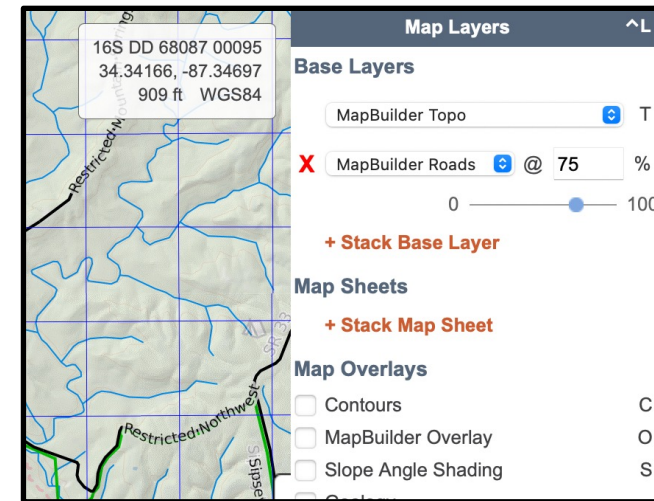


RAT-SAR

Stack Base Layers



Stack Base Layers



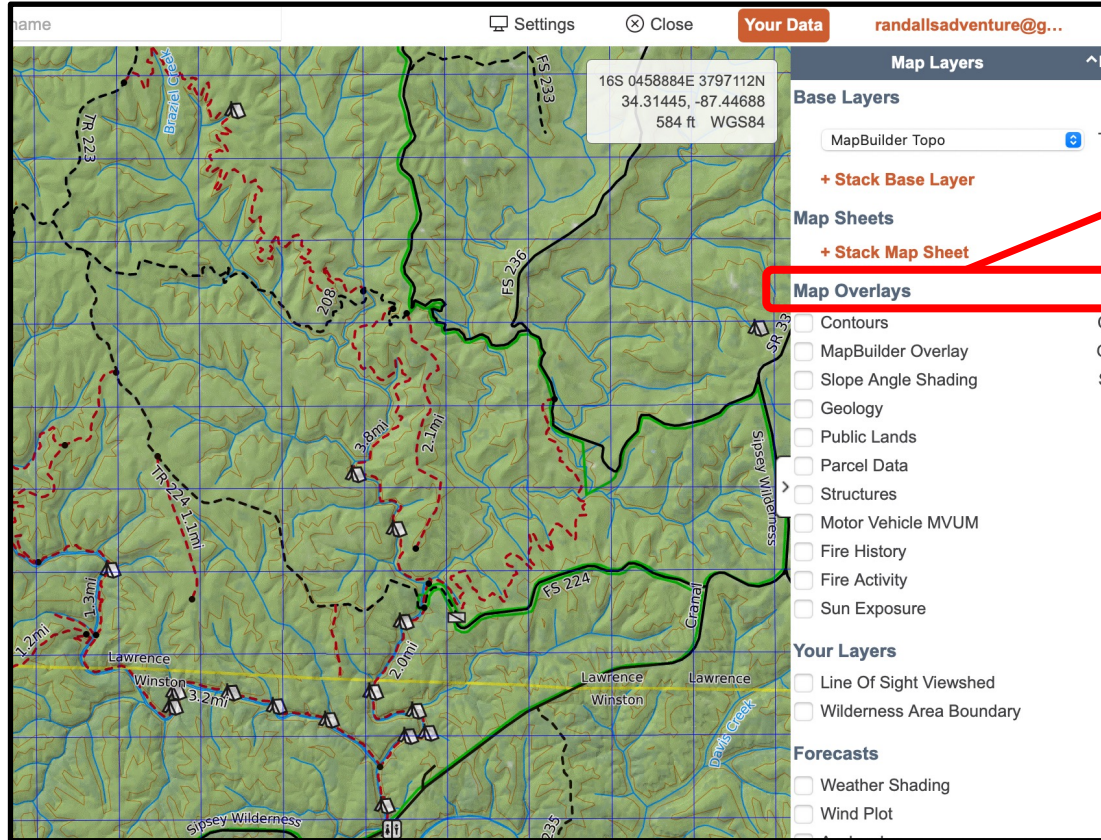
The 0-100 intensity bar will adjust how much you want the stacked layer to be visible.



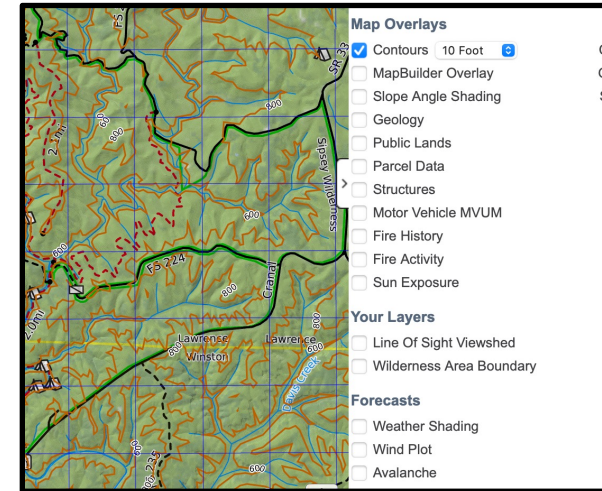


RAT-SAR

Overlays



Map Overlays



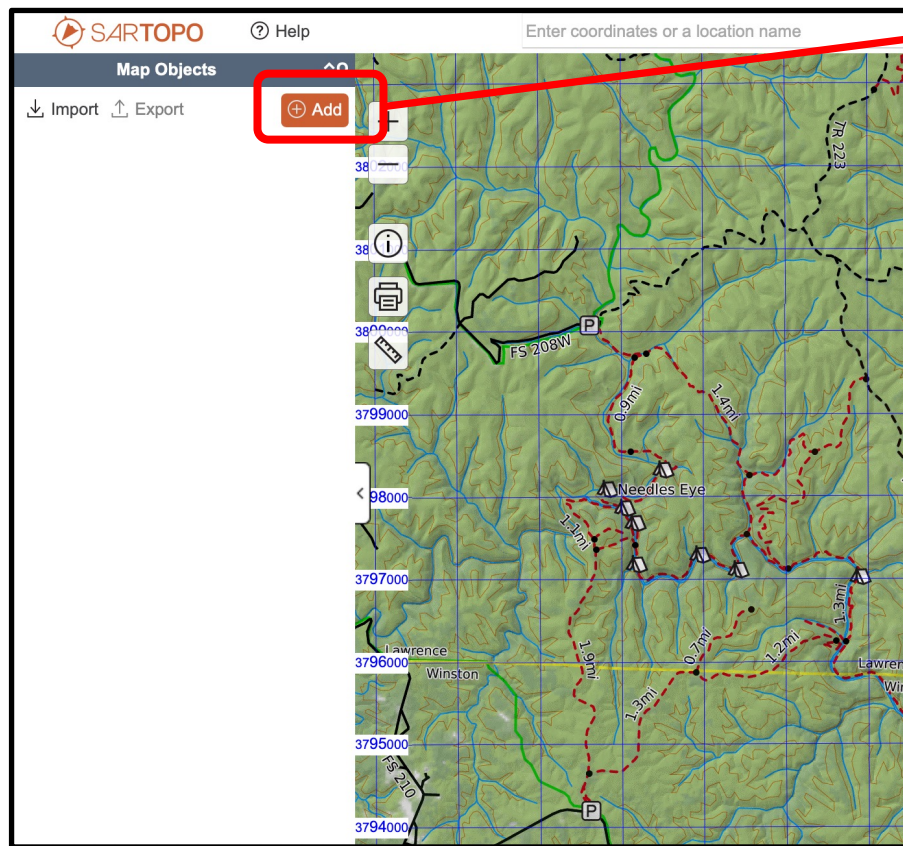
Some overlay features are not available on free accounts.



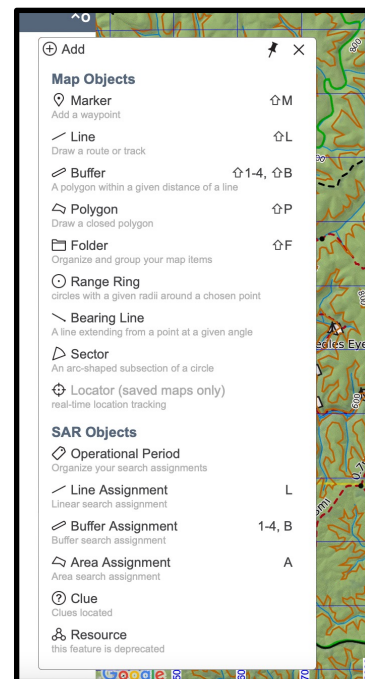


RAT-SAR

Adding Objects



Add Objects



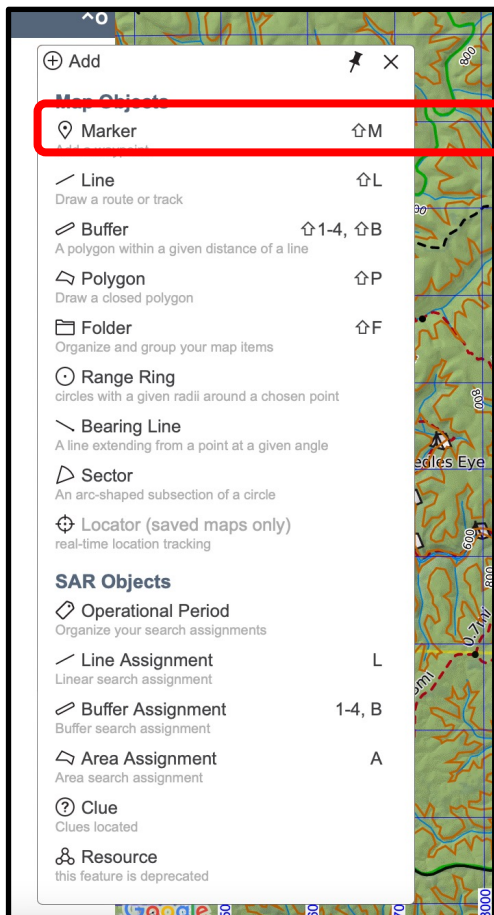
Note: Objects can also be added at the cursor by right clicking then adding the object from the pop up box.



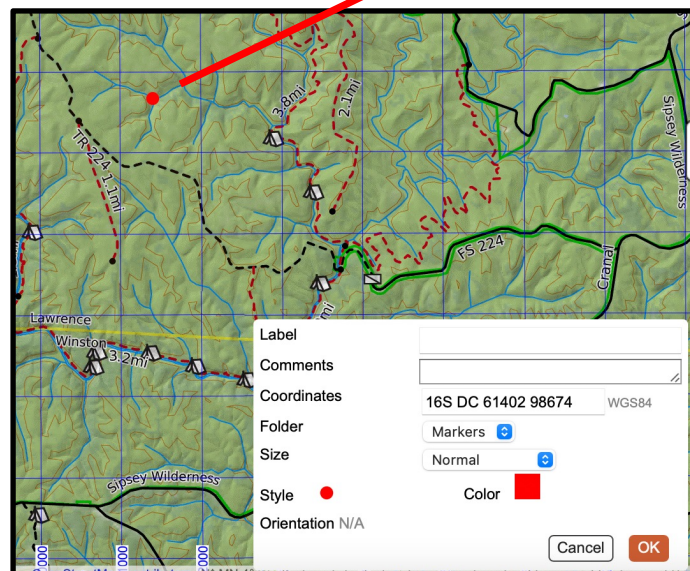


RAT-SAR

Adding Objects



Add Marker



Marker shows up as a red dot on map.

Red marker can be moved in the edit mode by dragging with cursor. Markers and other objects style and color can be changed in the edit box.

Label name and comments can be added.

Coordinates of marker appear in edit box.

Marker can also be moved by changing the coordinates.





RAT-SAR

Saving A Map

Once an object is added to a new or unsaved map, a screen will pop up asking you to name and save the map. Maps must be saved in order for some features to work.

A screenshot of the "Save As" dialog box in the RAT-SAR application. The dialog box is overlaid on a topographic map. The "Map name:" field contains the text "choose a map name". The "Mode:" dropdown menu is set to "SAR" and is highlighted with a red box. Below this, there are options to "Save to your" account and a checked checkbox for "Always show these layers on load, instead of the most-recently-selected active layers". The "Share Your Map" section includes "Base Permission" options: "Private", "Secret", "URL" (selected), and "Public". A "Tell Us About Your Map" text area is also present. At the bottom right of the dialog are "Cancel" and "Save" buttons. The background map shows a topographic view with a red dashed line and several white icons.

Always save map in SAR mode if you want to have SAR objects (assignments, etc.) enabled.

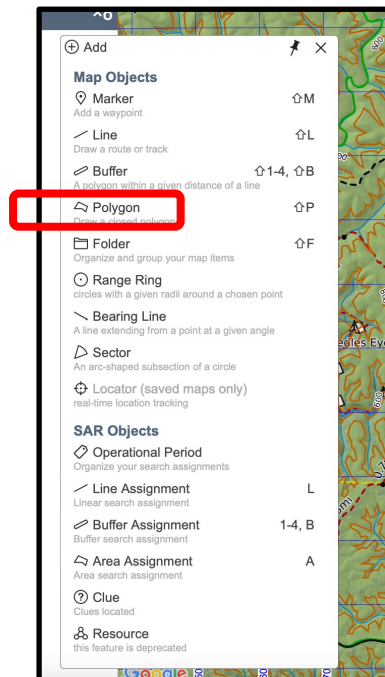
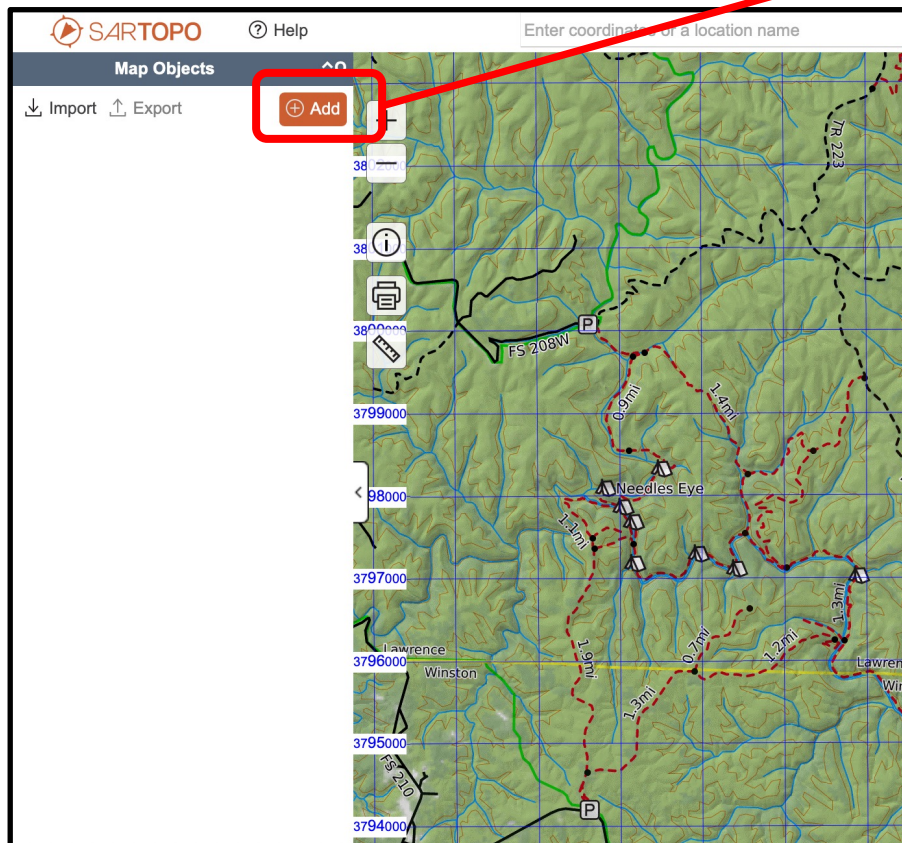




RAT-SAR

Building Polygons / Areas

Add



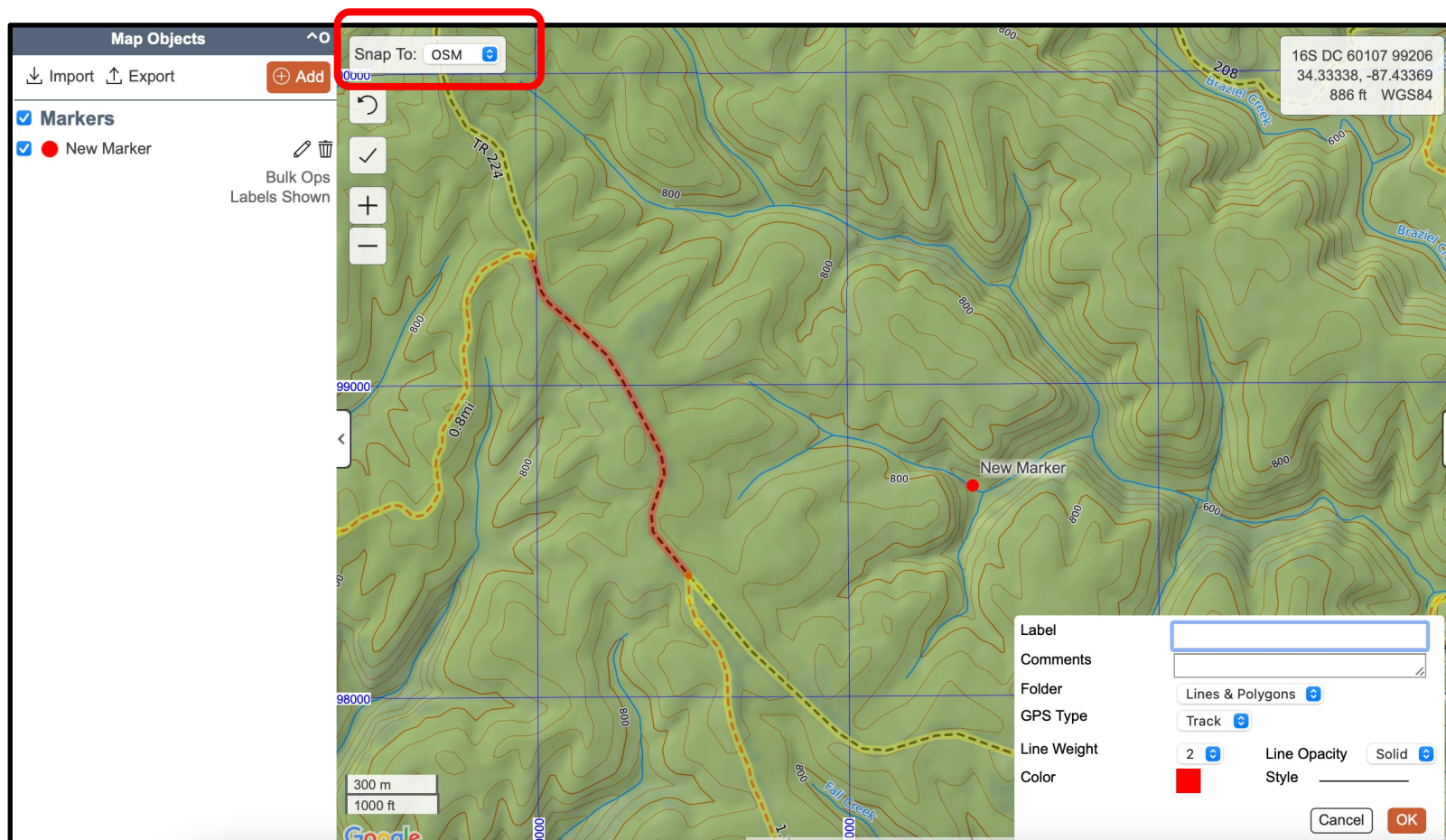
Part of this polygon was made using “snap to” hydro.



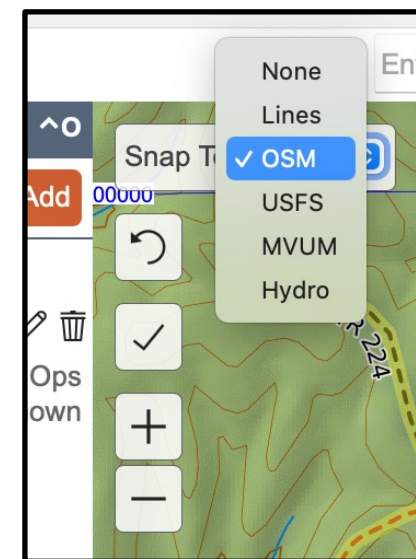


RAT-SAR

Using Snap To



Adding lines and other objects with snap-to.



As with adding markers, the style and color, as well as opacity and weight can be manipulated

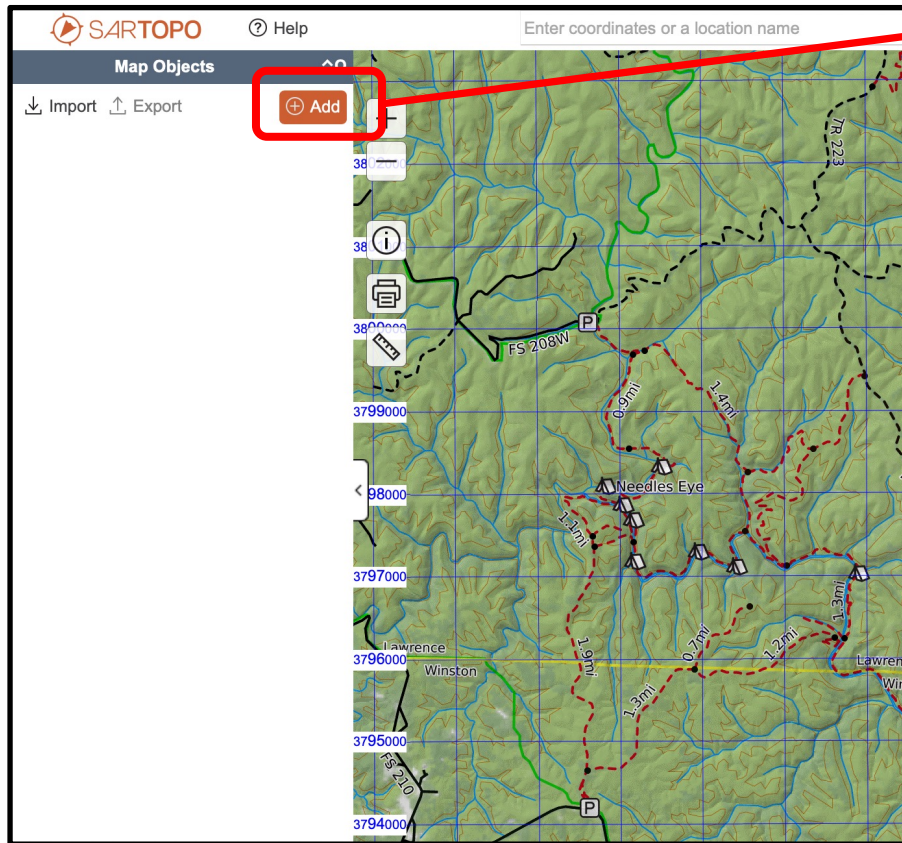




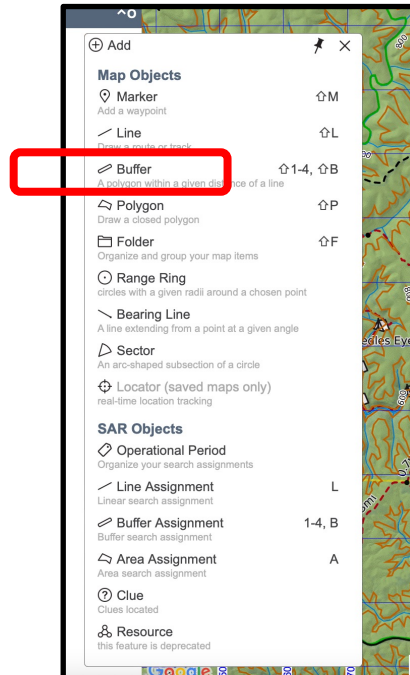
RAT-SAR

Creating Buffers

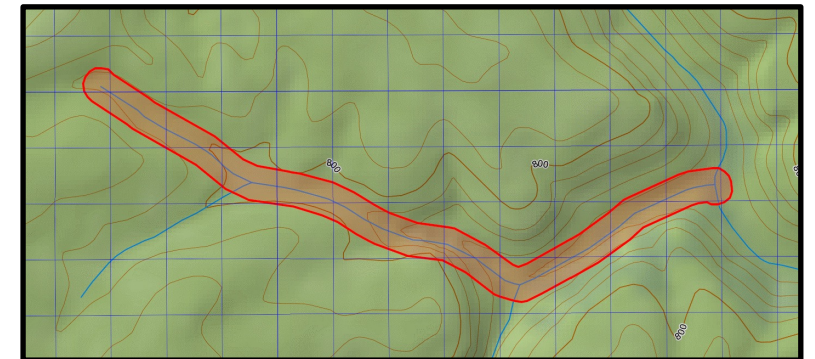
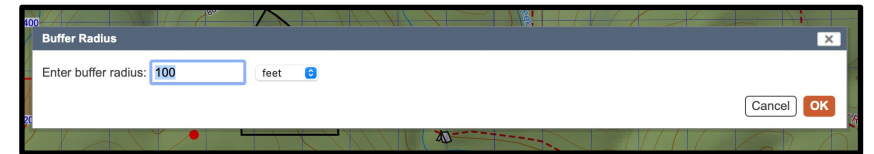
Step 1:



Add



Step 2: Define buffer width from centerline



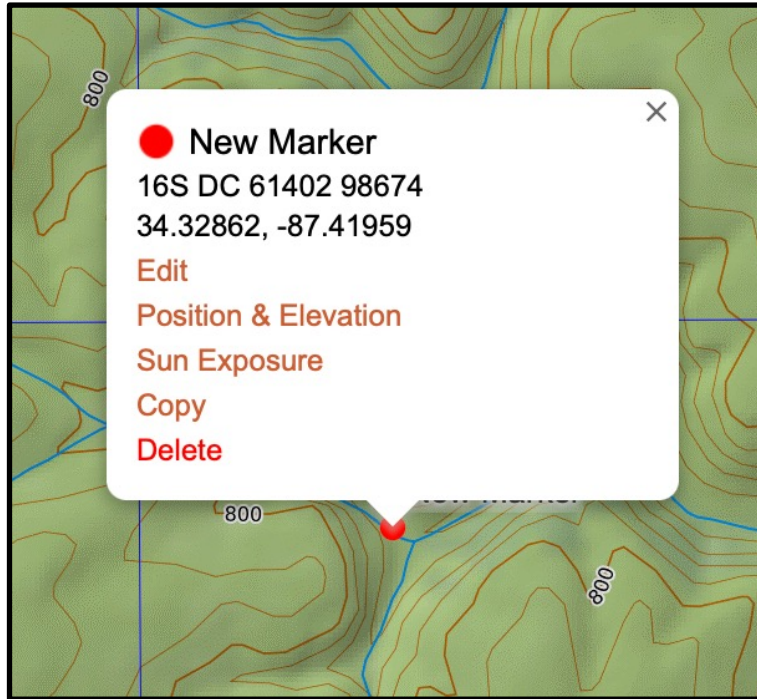
Buffers can be converted to assignments.



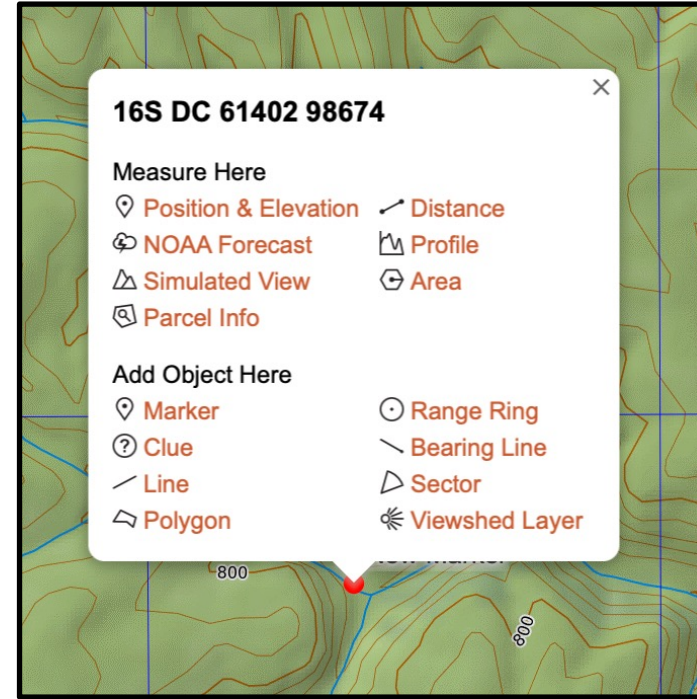


RAT-SAR

Editing / Adding Objects



Left click on object



Right click on object

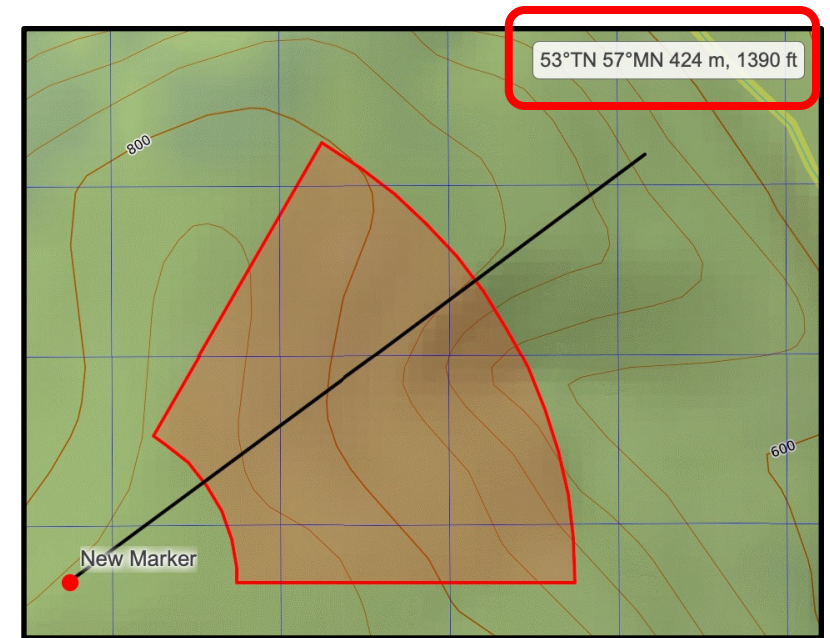
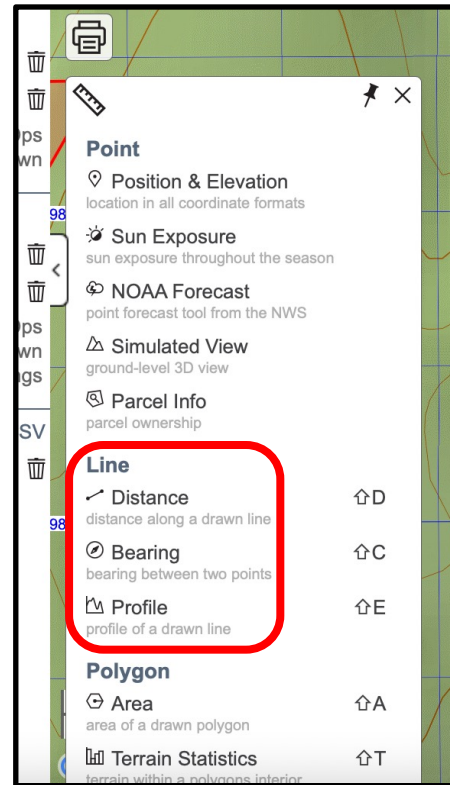
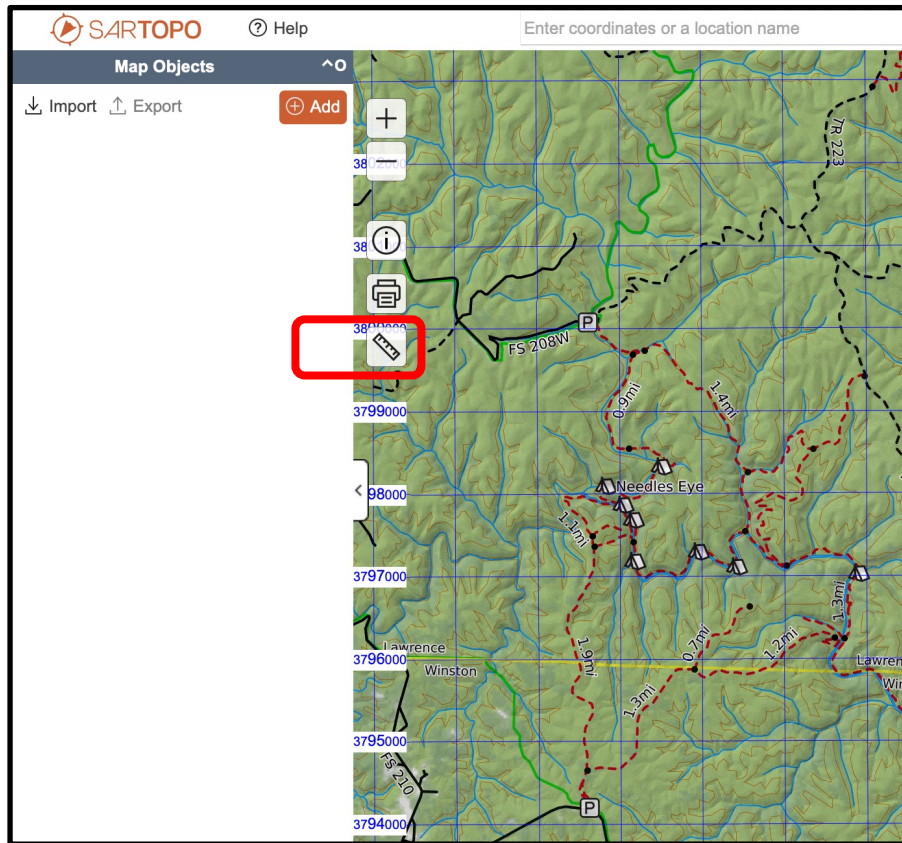




RAT-SAR

Measuring

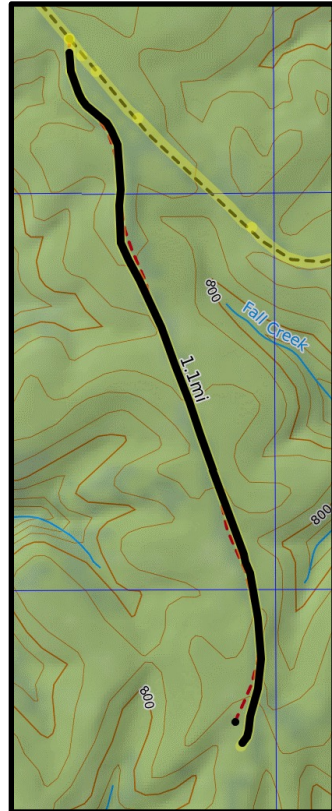
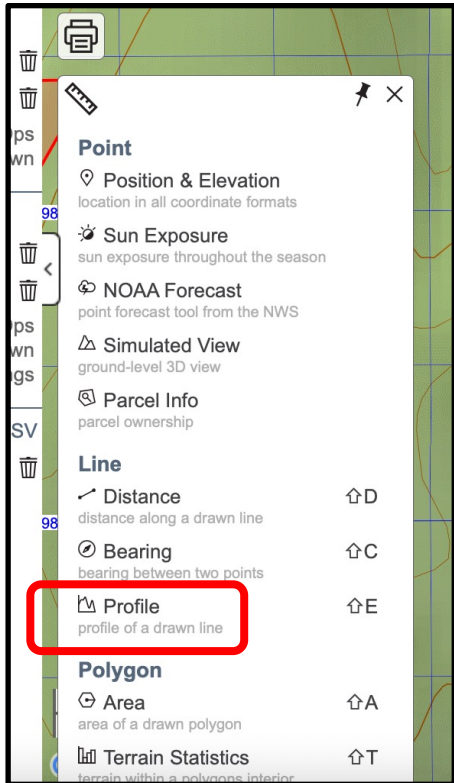
Measuring allows the measurement of distance, bearing and profile. Click where you want to start your measurement and double click where you want to end it.



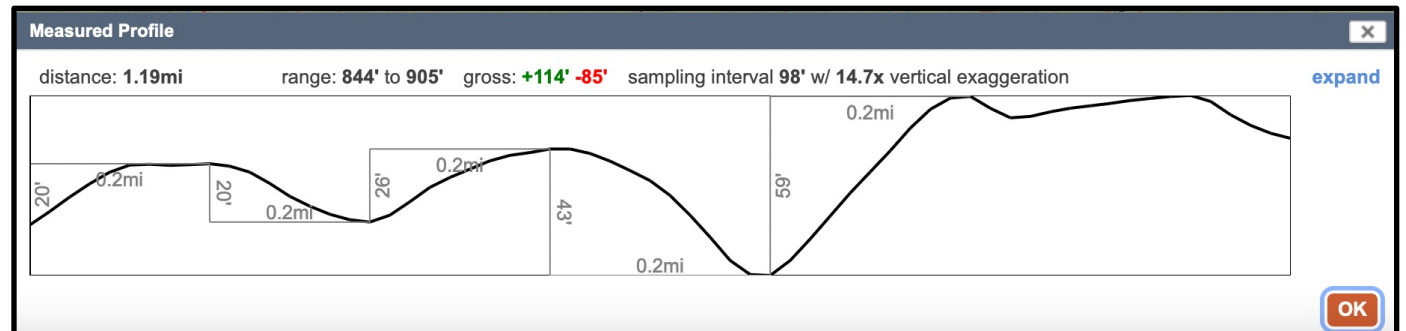


RAT-SAR

Terrain Profile Measurement



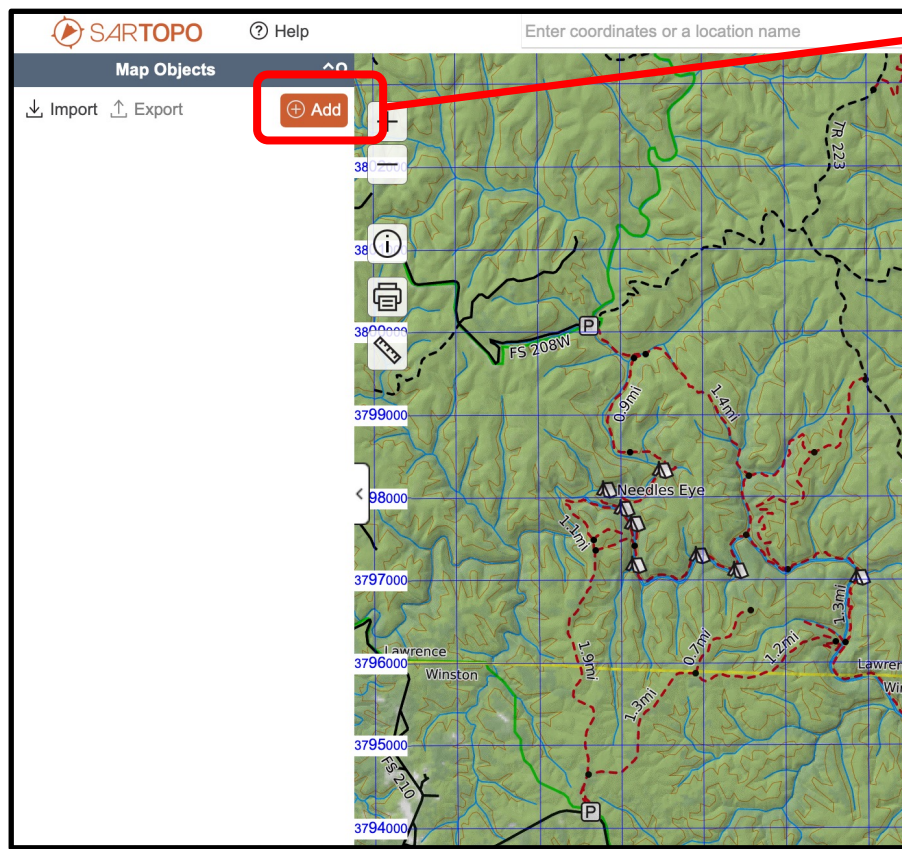
Terrain profile measurements help determine the difficulty of the terrain along a given path. Snap To can be used or a path can be drawn anywhere along the map. Click where you want to start your measurement and double click where you want to end it.



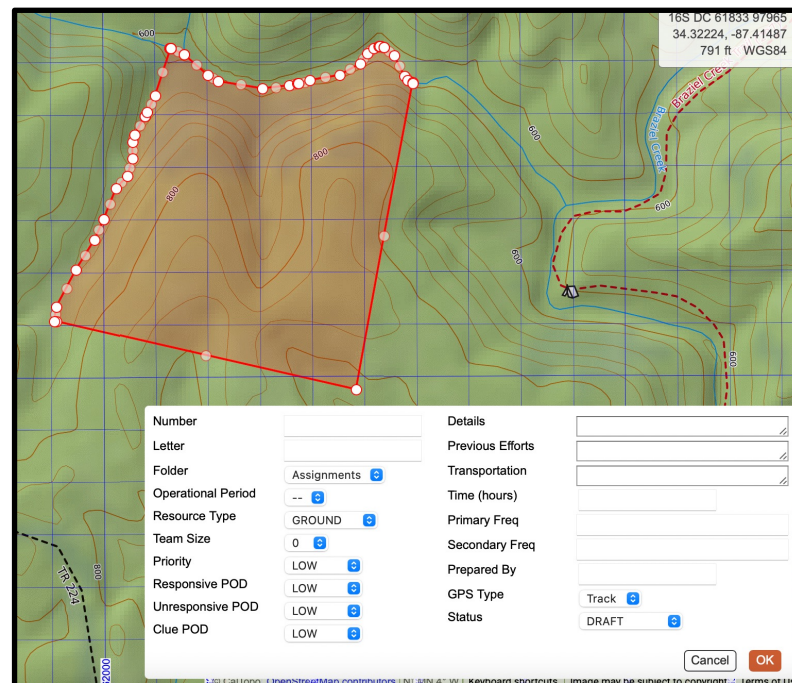
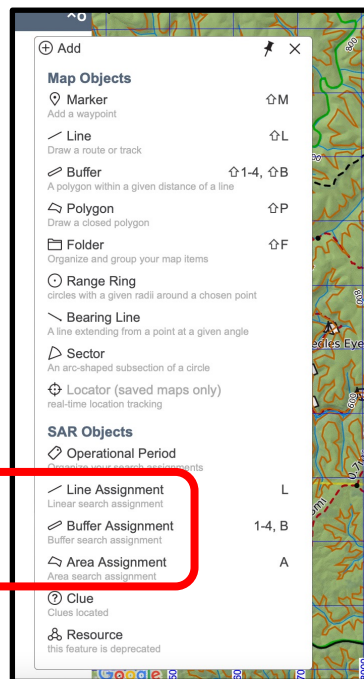


RAT-SAR

Creating / Adding Assignments



Add



Information added in this box shows up on the printed SAR 104 sheet.



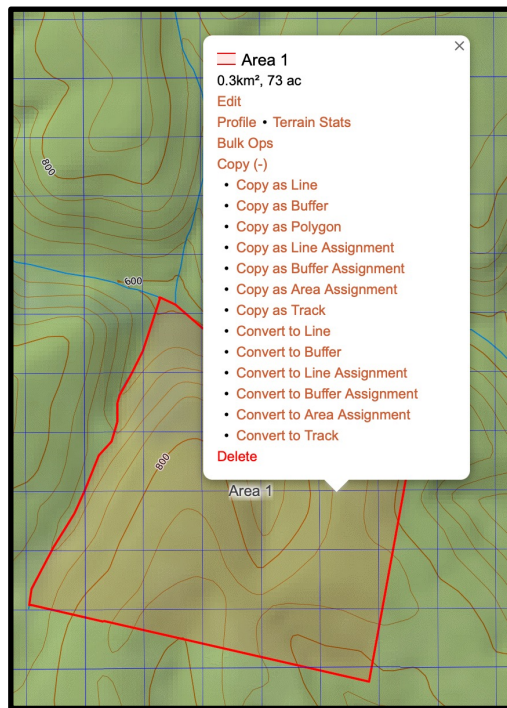


RAT-SAR

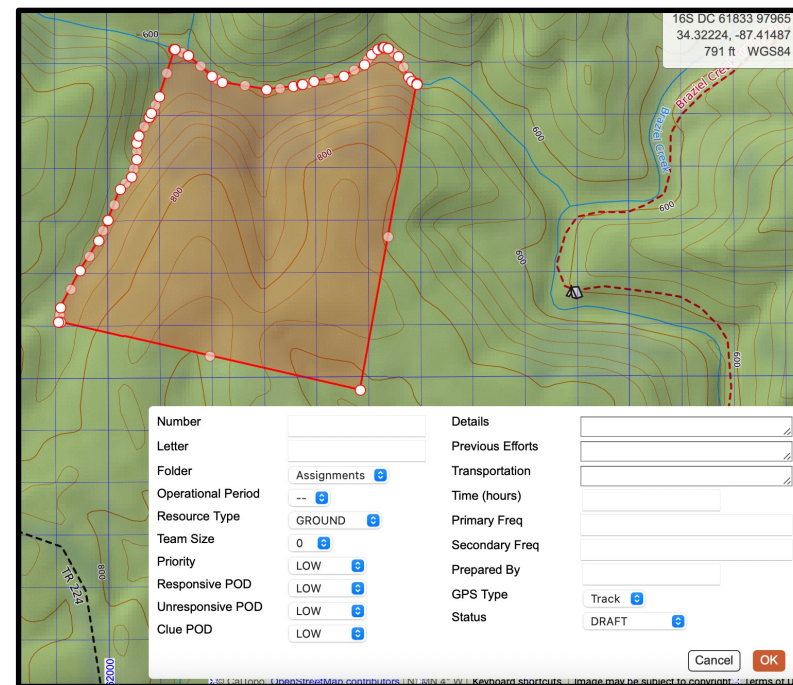
Converting To Assignments



Step 1
Left click on object
and choose Copy(+)



Step 2
Choose copy as area assignment
or convert to area assignment



Step 3
Fill in all pertinent information

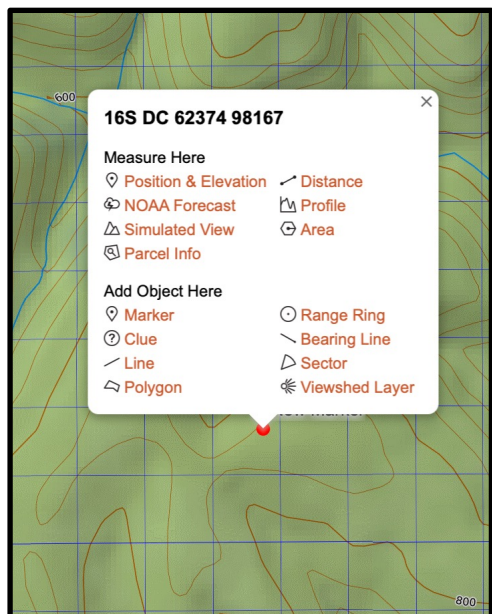




RAT-SAR

Range Rings

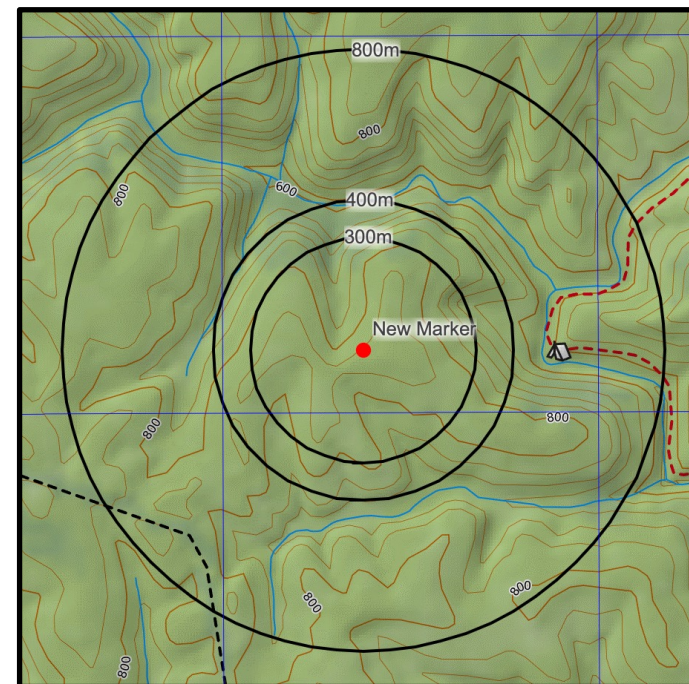
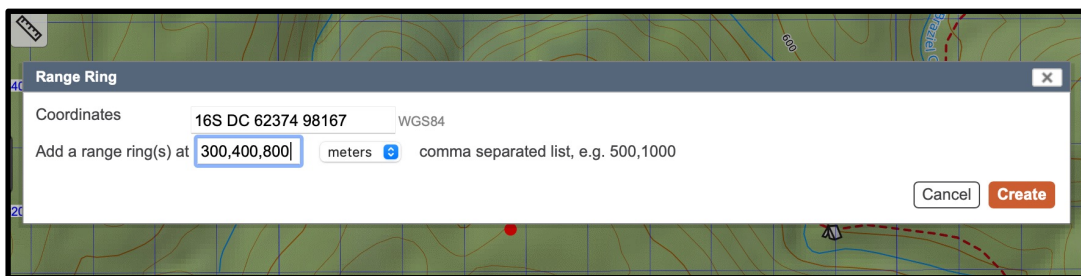
Step 1:
Right click on point,
marker, feature or
anywhere on the
map. Select Range
Ring.



Range rings are often added at the
PLS or LKP based on Lost Person
Behavior statistics.

Range rings, like other objects, can
be converted to assignments.

Step 2:
Add radius distance
of range rings.
Separate by a
comma for more
than one ring.



Result

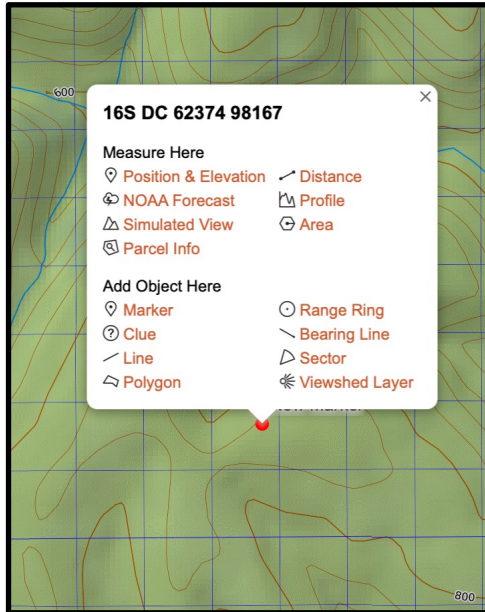




RAT-SAR

Adding Sectors

Step 1:
Right click on point,
marker, feature or
anywhere on the
map. Select Sector.



As with other objects, Sectors can be converted to assignments by left clicking on the sector and choosing "Copy(+)"



Step 2: Fill in the parameters of the sector



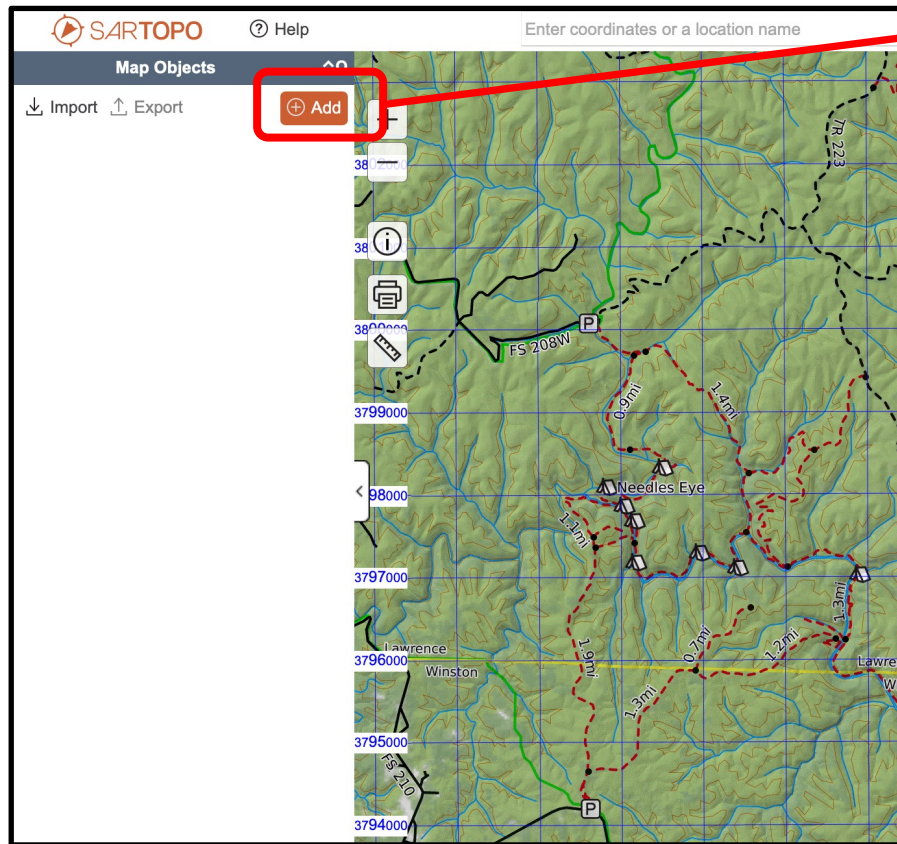
Resulting sector from 30 degrees to 90 degrees starting at 100 meters from starting point and going to 300 meters from starting point



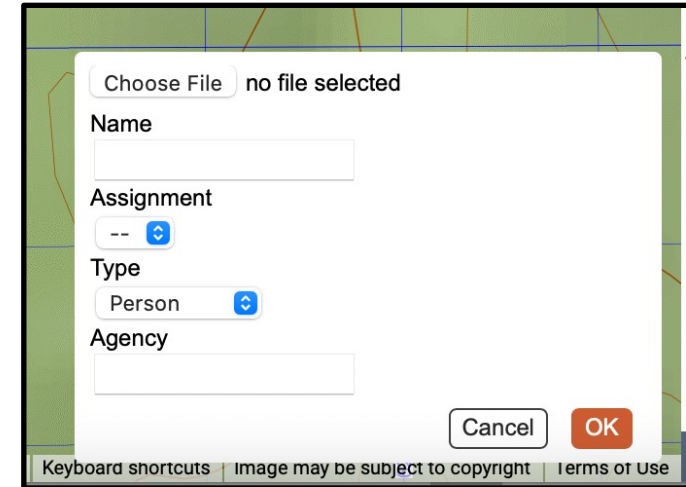
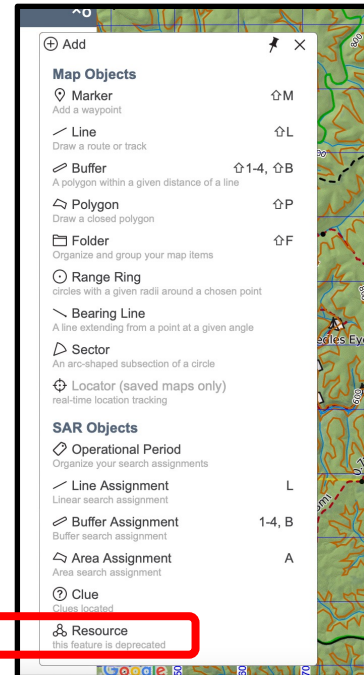


RAT-SAR

Adding Resources



Add



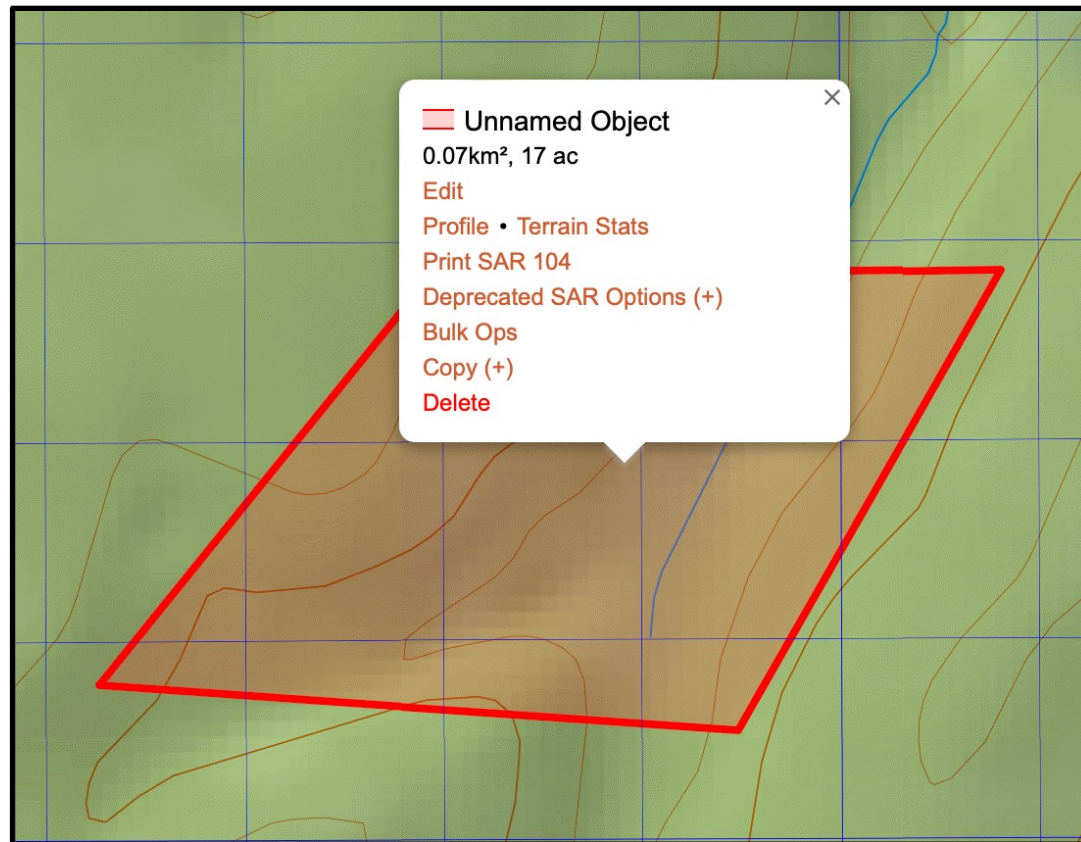
Resources can be added as they arrive on scene and assigned later, or immediately assigned to current assignments. Assignment must be created before resources can be added to an assignment. Created assignments will appear in the drop down tab.





RAT-SAR

Printing 104s



Left click on assignment.

Click "Print SAR 104"

PDF will come up in a separate window with all the information you created when you made the assignment, along with the resources assigned to that assignment.

PDF is fillable so extra information can be added.

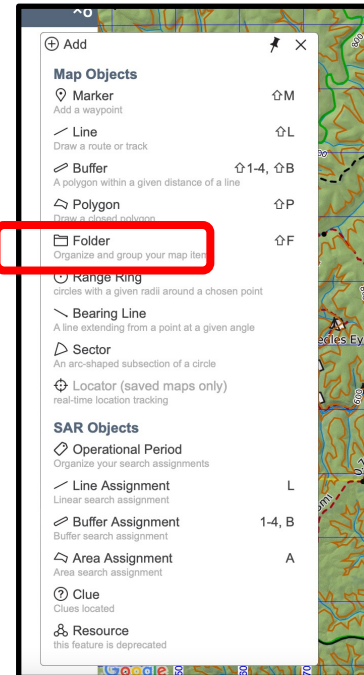
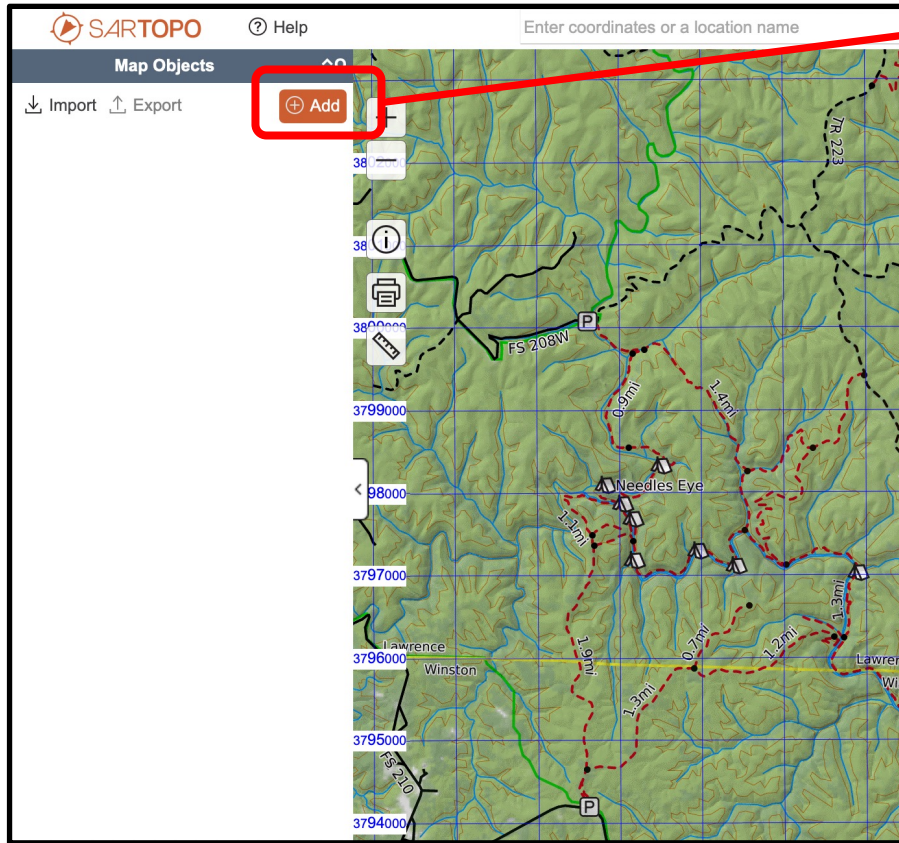




RAT-SAR

Adding folders

Add



Use folders to organize the objects you create. This makes it quick to declutter a map without deleting anything from the map.

Objects can be added to or moved to other folders by left clicking on the object, then edit, then editing the folder location.

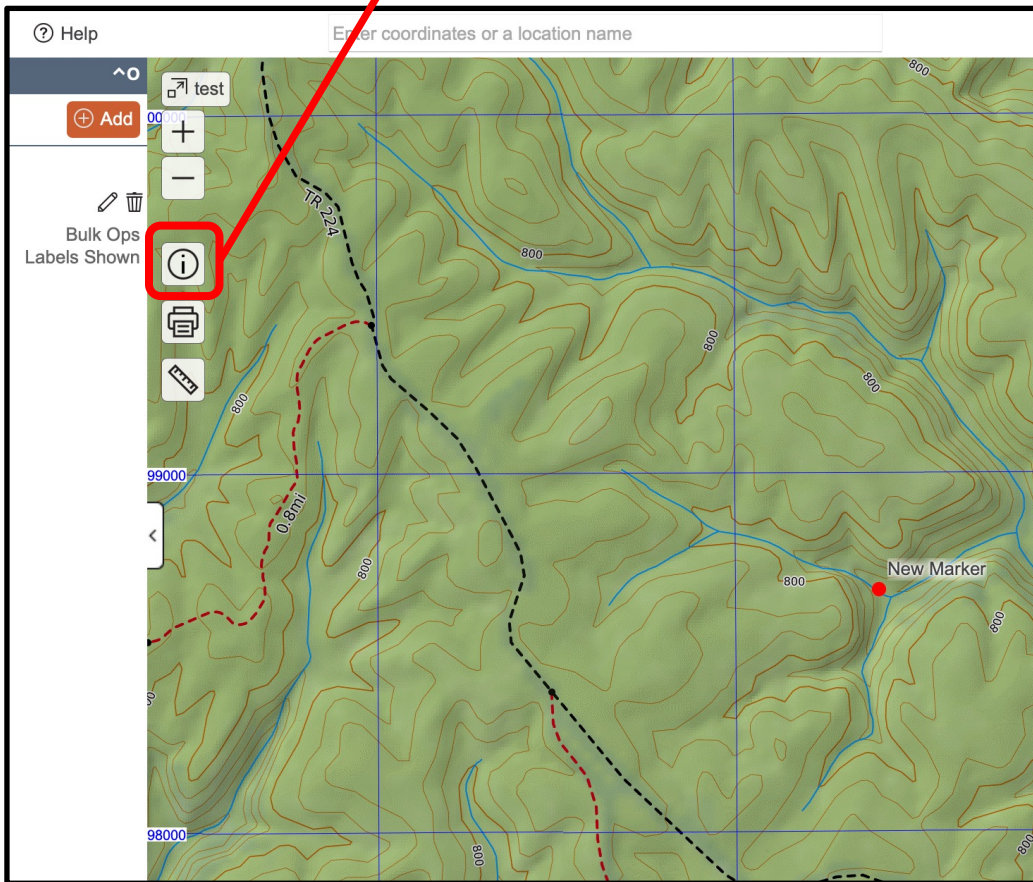




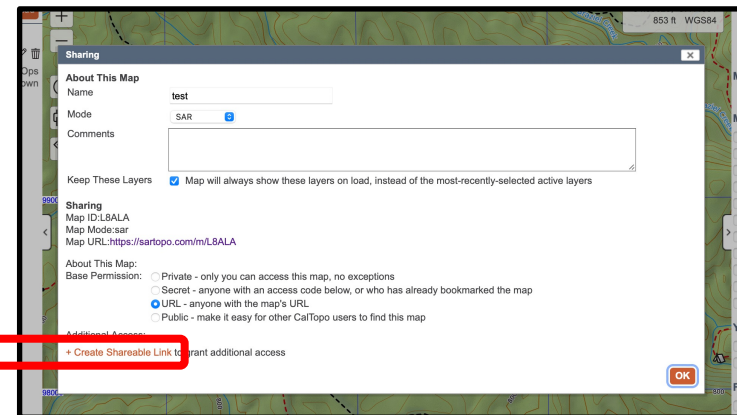
RAT-SAR

Sharing The Map (map must be saved to share)

Step 1:



Step 2:



Step 3:



Step 4:



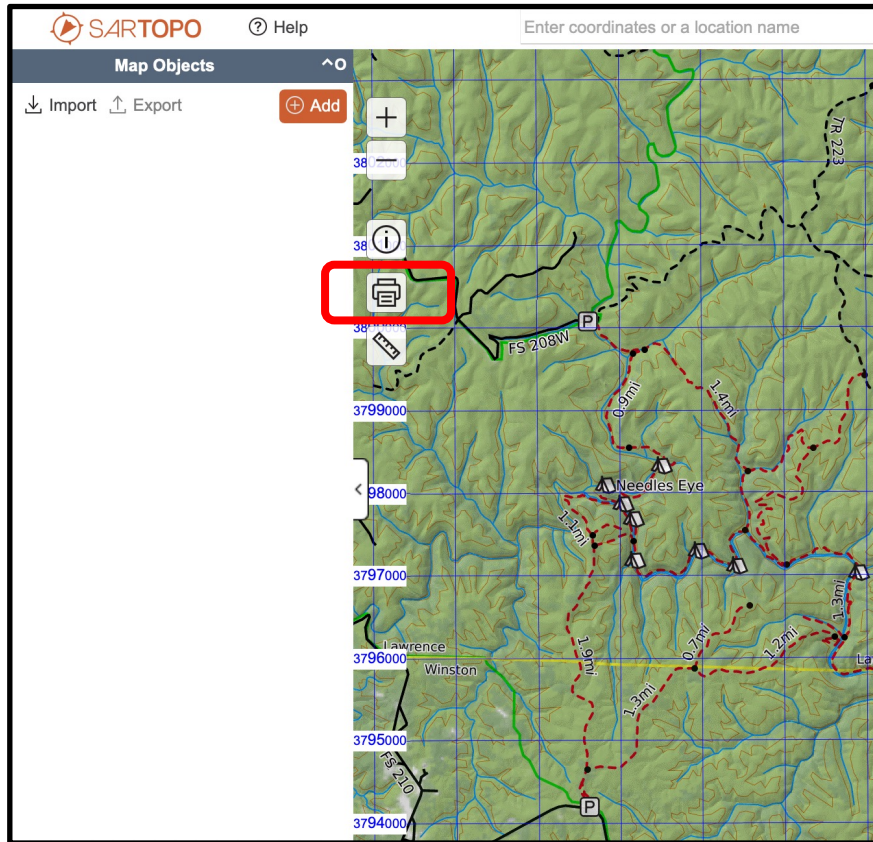
Share by link or QR code.





RAT-SAR

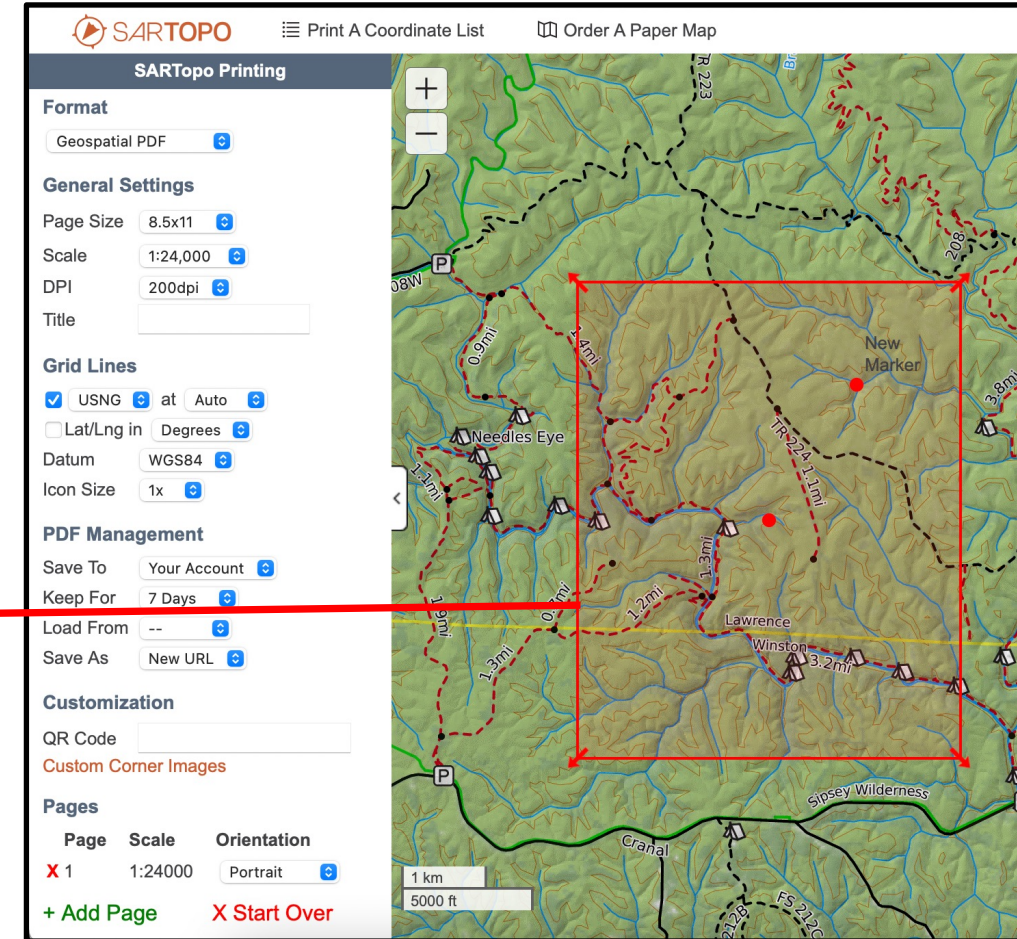
Printing A Map



Configure your print general settings.

Red border is print area. Red dot in center is map center. Move the printed area by dragging the red dot.

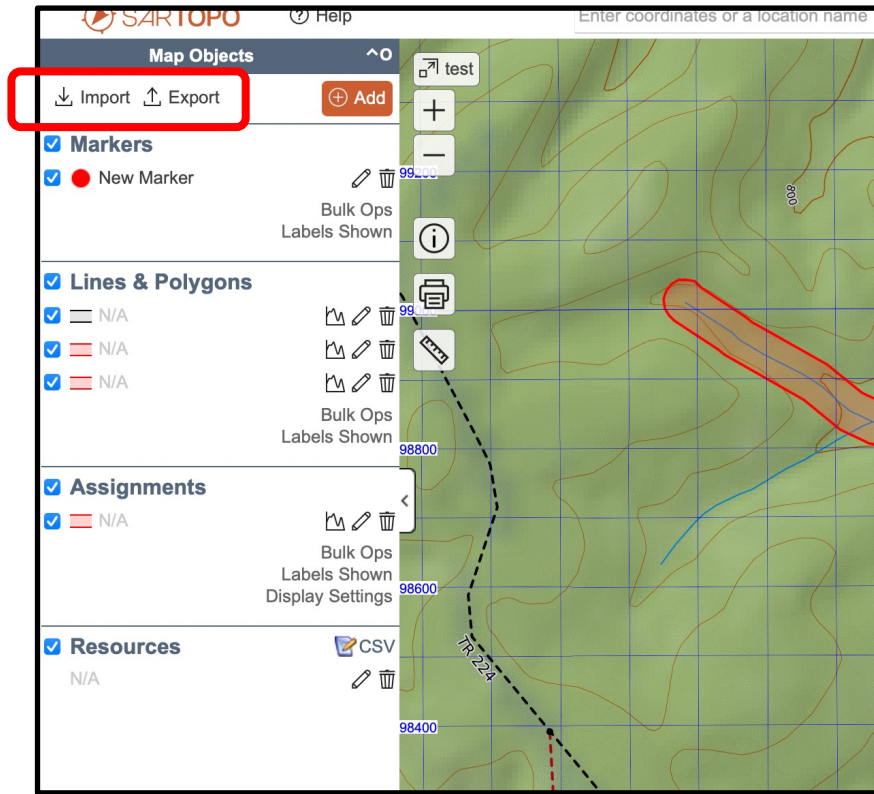
PDF will open in a new window ready for print.





RAT-SAR

Import / Export



Choose file to import. Check or uncheck data to be transferred.

Choose file type to export. Check or uncheck data to be transferred.





RAT-SAR



Mission Management Training Video



SarTopo for Incident Response Course

