

Map Printing using ExpertGPS

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The following tutorial shows how to print a map using GPX files and ExpertGPS.

ExpertGPS is available at: <http://www.expertgps.com/>.

This example uses a GPX file for the Eastern Half of Arizona's Superstition Wilderness available at: <http://web.utah.edu/thorne/superstitions.html>

A popular hike in the Superstition Wilderness is the hike to Reavis Falls. Although the trail to Reavis Falls is well marked, the trail itself is not an official USFS trail, and does not show up on any map. This example shows how to print a map of the trail using ExpertGPS.



Figure 1 – The Move Map Tool is the hand which allows one to scroll around the map space.

1. Open File Open up the GPX file of the Eastern Superstition Wilderness (Superstition_Wilderness_East_v1.0.gpx) with Expert GPS. Make sure that you have enabled map retrieval by clicking on **Map > Enable Internet Map Image Retrieval**. Also, be sure that the **View > Show Topo Map** option is selected. Alternatively, one could print out a map with an aerial photo displayed by selecting **View > Show Aerial Photo Map**, or just a simple map of the trails without topography or aerial photos by selecting **View > Show Quick Map**. In this example we will use the **Show Topo Map** option.

2. Center Map on Trail There are two ways to center the map on the Reavis Falls Trail. (a) You can use the **Move Map Tool** (See Figure 1) to scroll around the map until the trail is centered in the screen or, (b) you can select Tracks on the list panel to the left and simply double click

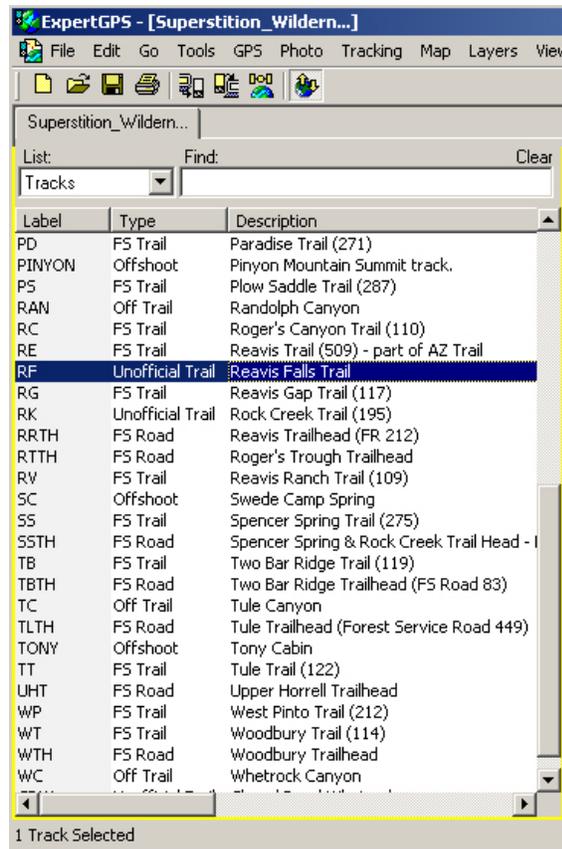


Figure 2 - Selecting a track in the List window.

on the track labeled **RF** (see Figure 2).

Your map window should look something like this:



Figure 3 – Map window view centered on the Reavis Falls Trail.

3. Open Print & Export Map Window

Select: **Map > Show Print Map Window**

The window shown in Figure 4 will pop up.

4. Select Print Scale The first thing to decide is what scale to print the map at. In the Map window a scale will show up displaying the current scale of the map image in your window. You can use this scale, or adjust it to something more common. A couple suggestions are:



Figure 4 - The Print & Export Map Window

- 1:39,000 – This is the scale used in the Beartooth Map of the Superstitions.
- 1:24,000 – This is the scale commonly used in the 7.5' topo quads.

To change the scale, type the number into the Print Scale Box. Here we will use the scale 1:24,000. Your Print Map Window will look as follows:

Note a yellow box appears on the map window that shows you the current boundary of the map that will be printed.

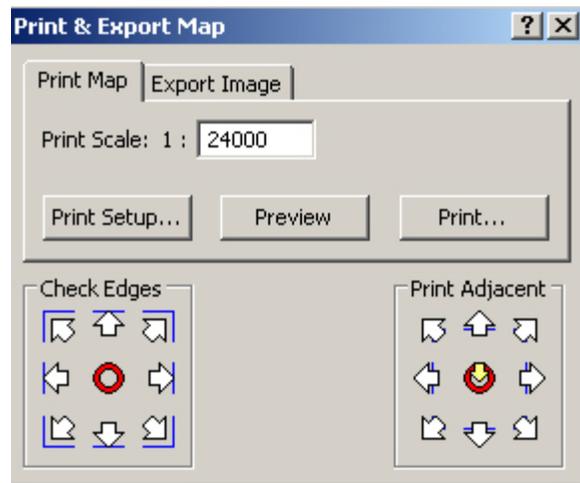


Figure 5– Changing the scale to 1:24000

5. Re-center Map Next we want to re-center the map to try and encompass all of the terrain we want our map to show. Using the **Move Map Tool** scroll around the map and then click on the **Center the printed page** button in the **Print & Export Map** window as shown below.

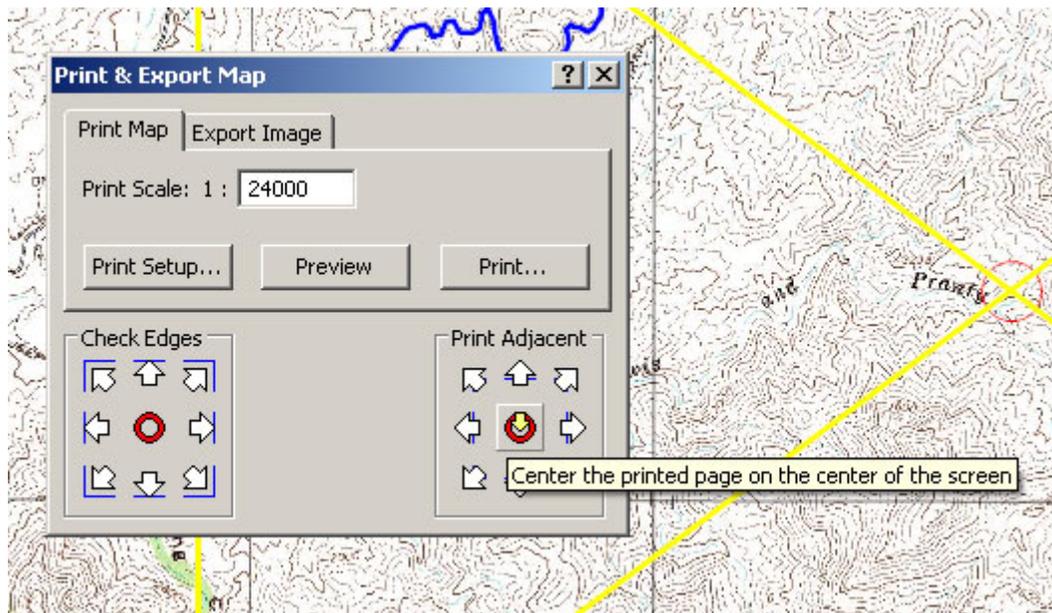


Figure 6 – Re-centering the printed map boundary.

The bounds of the print area will now be re-centered. This may take several tries to get the bounds of the map just where you want it.

6. Portrait or Landscape Depending on whether the map we want to print is better laid out as more East-West or North-South we may want to change from Portrait printing to

Landscape printing layout. Click **Print Setup** in the **Print & Export Map** window. The typical Print Setup Window will pop up.

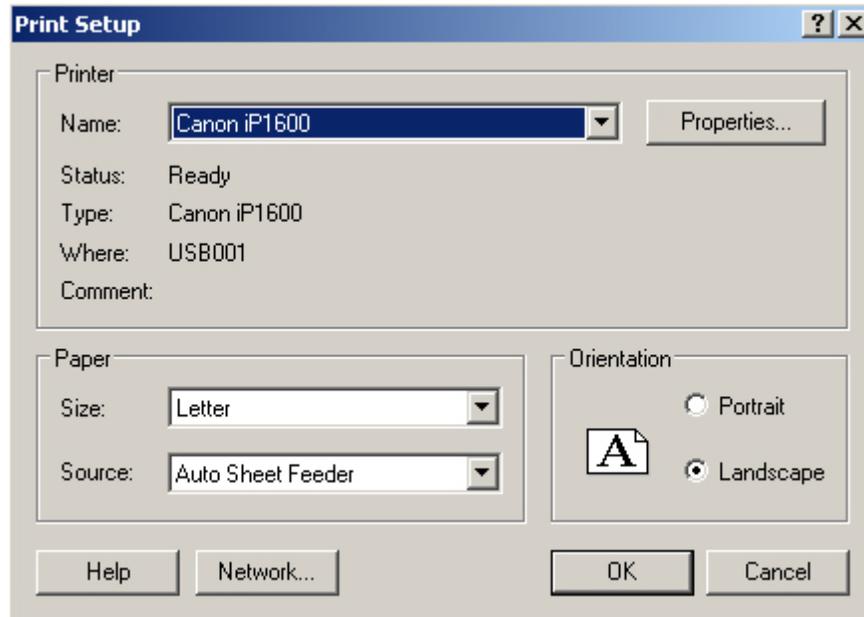


Figure 7 – Changing print orientation to Landscape

Here we changed the Orientation to Landscape. Now the bounds of the map should rotate.

7. Print the Map To double-check that the map is exactly as we want it, click the **Preview** button in the **Print & Export Map** window. The preview for the map should look something like as shown in Figure 8. Now just click on **Print** in the Preview window, and your map should start printing.

8. Printing Adjacent Areas In some cases the entire map may not fit into one print window. In the above example, I may also want to print out a map showing where the Reavis Ranch Trail continues to the south. To do this just click on the South facing arrow in the **Print Adjacent** section of the **Print & Export Map** window (Figure 9). The boundaries of the map will now shift due south (with some overlap of the previous map) and a new map can be printed.

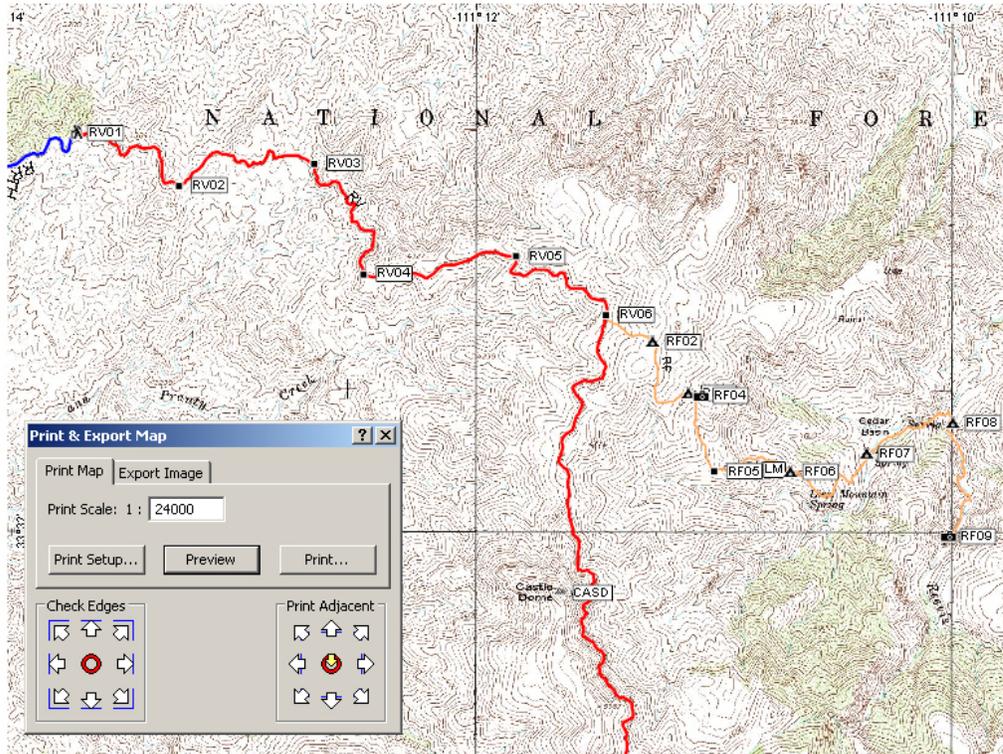


Figure 8 – Preview of map to be printed out.

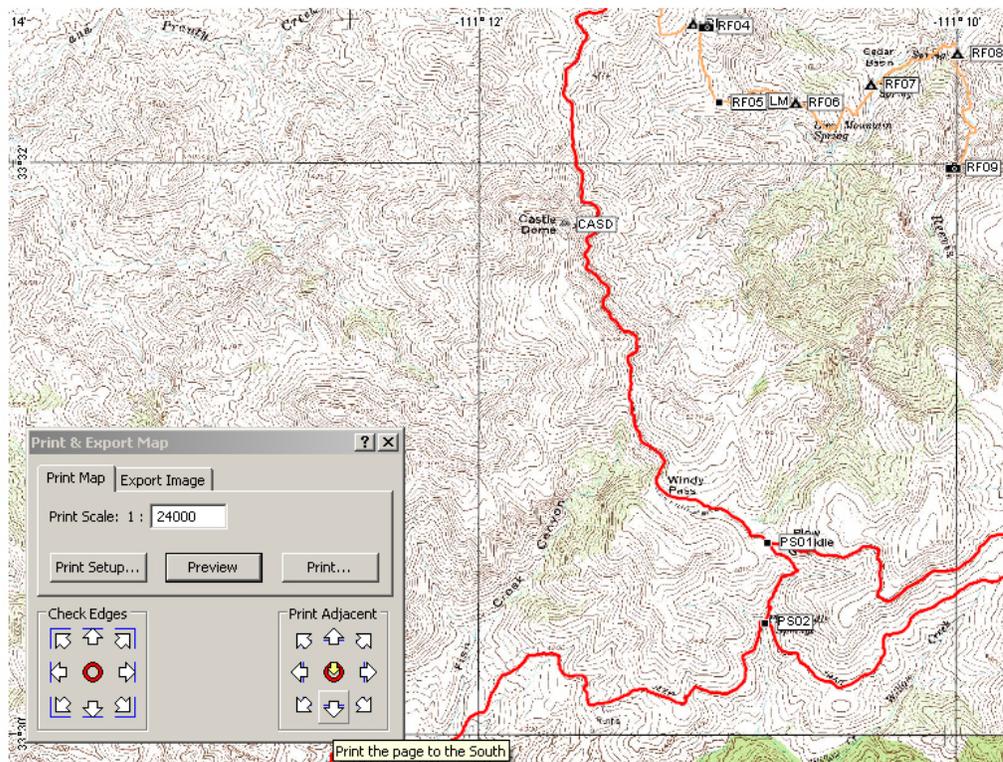


Figure 9 – Printing the southward continuation of the Reavis Ranch Trail.