



Loading Data from ArcMap to DNRGPS

Abstract

This guide outlines the steps to upload points from a shapefile or graphic in ArcMap to DNRGPS. When loading data, only the points that compose the data are obtained.

Note: This guide is also applicable for data in the Toolkit environment. If you need to upload data points from a [Toolkit Plan Layer](#) or [Toolkit Practice Layer](#), this procedure now works with DNRGPS.

Steps (ArcMap Graphic): In ArcMap select graphics – In DNRGPS click File → Load From → ArcMap – Selected Graphics

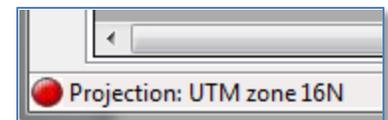
Steps (ArcMap Layer): In ArcMap select features from a layer – Highlight the name of the layer – In DNRGPS click File → Load From → ArcMap – Layer

Details

Setup

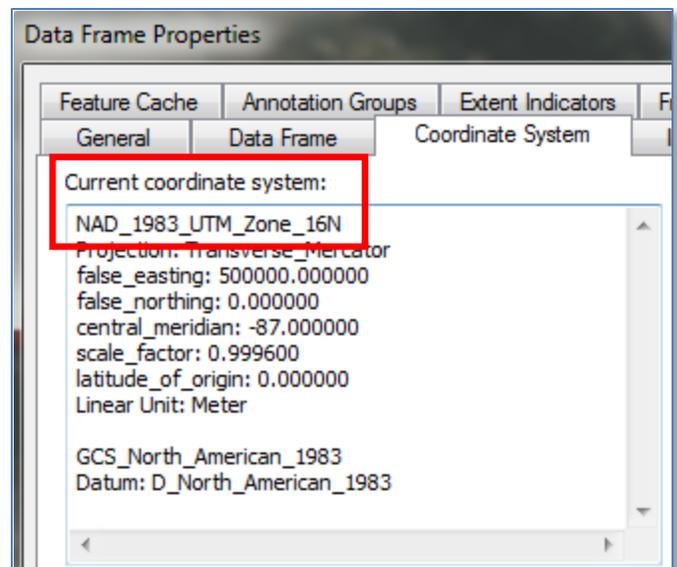
First check that the ArcMap data frame is using a projection that matches the DNRGPS projection setting.

1. In DNRGPS, look at the lower left corner of DNRGPS to see the projection. It should be **Projection: UTM Zone 16N**.



2. In ArcMap, click **View → Data Frame Properties**. Click the **Coordinate System** tab. Take note of the current data frame's coordinate system.
3. Compare the projections/coordinate systems from step #1 and #2. They must be the same for graphics to transfer the correct coordinates to DNRGPS.
4. If the coordinate systems do not match, then adjust the setting in DNRGPS to match ArcMap.

Note: If you are unsure of how to make these settings, contact your RMS or the State GIS Coordinator for assistance.



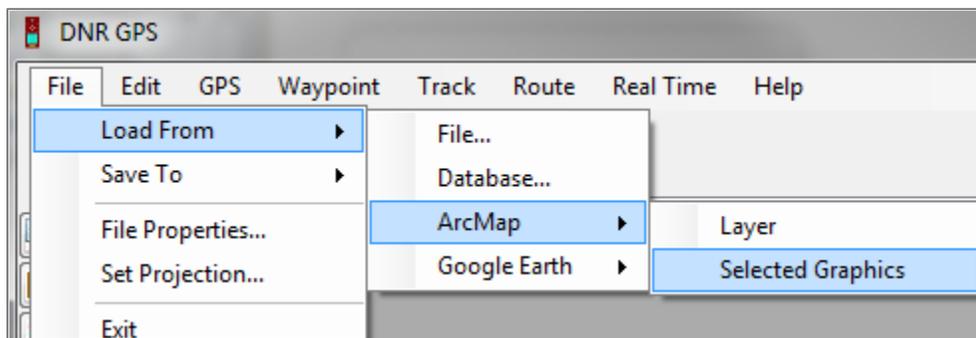


Load Data from ArcMap Graphics

1. If necessary, **draw** the graphic(s) in ArcMap. The graphic(s) can be point, line, or polygon, but you should only select one type of graphic per data transfer. The uploaded data will consist of the selected points or vertex points composing the shape of the line or polygon features.
2. Use the **Select Elements** tool to **select** a graphic in ArcMap. You may select multiple graphics by using the **Shift** key on your keyboard, and **left-clicking** once on each desired graphic. The coordinates will be loaded to DNRGPS in the order that you select the graphics.



3. In DNRGPS, with the graphic(s) still selected in ArcMap, **click File → Load From → ArcMap → Selected Graphics.**



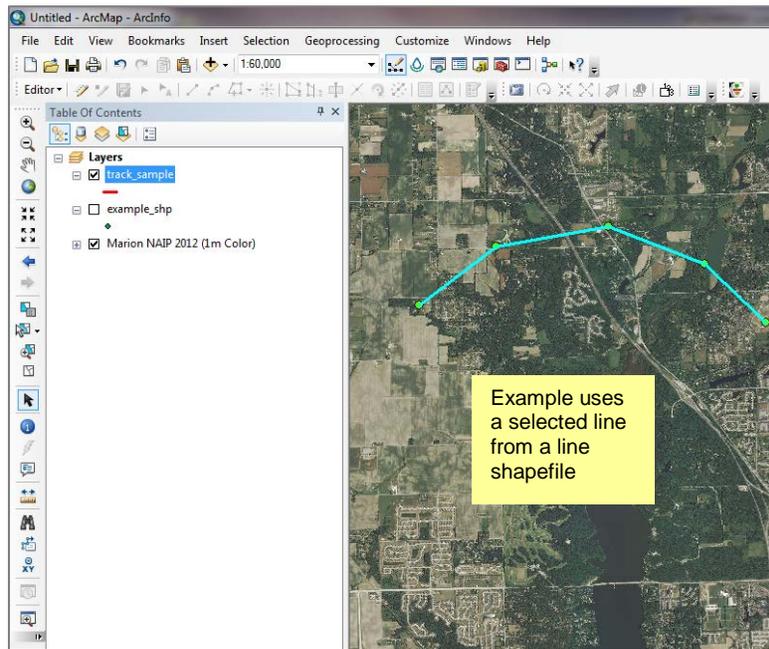
4. The data points that define the graphic(s) will be loaded into the DNRGPS table.
5. If you loaded point graphics, they should appear in the Waypoint table in DNRGPS. If you loaded line or polygon graphics, they should appear as a list of points in the Track table in DNRGPS.
6. The data is now ready for upload to a GPS unit.



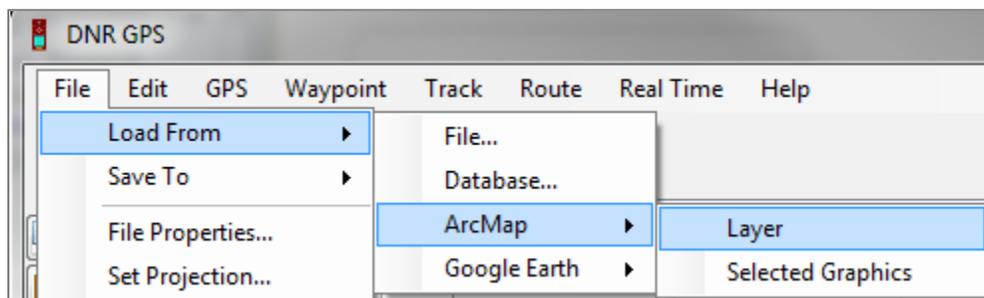
Loading Data from an ArcMap Layer

Note: Layer refers to a point, line, or polygon shapefile or feature class.

1. (Optional) In ArcMap, use the **Select Features**  tool to select individual data features within the layer for data transfer. If you do not do this, then **ALL** data in the layer will transfer. Not selecting features can be counterproductive or cause a crash with large datasets, so be sure to select only features of interest if working with large datasets. Only selected features will transfer.



2. In the ArcMap table of contents window, click once on the name of the layer that contains the data you want to transfer. This will highlight the name of the layer. This layer should correspond to the layer from which you selected features, if you performed that step.
3. In DNRGPS, click **File → Load From → ArcMap → Layer**.



4. The data points from the layer will now be loaded in the DNRGPS table.
5. If you loaded a point layer, the points should appear in the Waypoint table in DNRGPS. If you loaded line or polygon data, they should appear as a list of points in the Track table in DNRGPS
6. The data is now ready for upload to a GPS unit.