



Uploading Data to a GPSMap 78 Unit

Abstract

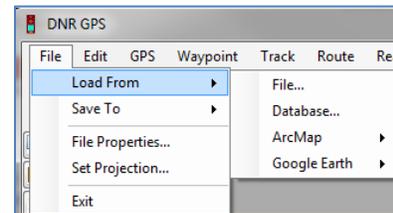
This guide outlines the steps to upload data to a GPSMAP 78 unit. The process is a three step process to prepare data, pass it through DNR Garmin into BaseCamp, and then upload to the unit from BaseCamp. This guide assumes the user has data available in ArcMap or in a file that the user wishes to transfer to the GPS unit. The screenshots in this guide show an Oregon 550 unit connected to the computer, but the procedure is the same for the GPSMap 78 units.

Steps: Set GPS Interface to Garmin Serial – Connect the GPS to the computer – Load Data into DNR Garmin from ArcMap or File > Save a temp GPX file of points from DNR Garmin – Import the temp GPX file into Base Camp – In Base Camp, Drag and Drop the list of points into the GPS unit's All Data folder

Details

1. Start DNR Garmin and Garmin Base Camp Programs. See their respective guides for setup instructions if you've never used the programs before.
2. Set the GPS unit to *Garmin Serial* mode under the *Setup > System* menu. For details on this setting, if necessary, see the *Setup of the GPSMap 78* guide.
3. If any points are already present on the GPS Unit, you may want to review and edit the existing waypoint names now to help you better organize and recognize your data. You could also download and save the data from the unit and then wipe the existing data from the unit under *Setup > Reset*.
4. **Connect** the GPS unit to your computer.

5. **Load data into DNR Garmin from ArcMap or from a file**, if not already done. Use the corresponding DNR Garmin guide to load data if you need details for this process. When done correctly, the DNR Garmin table is populated with point info.



6. If you still have points on the GPS Unit, you may want to renumber your data identifiers in the DNR Garmin table so that they will have unique names when you transfer the data to the unit. See the *Working with Data in DNRGarmin* guide for details.

7. Create a temporary GPX file using DNR Garmin. This file will be used later in BaseCamp so DO NOT save it to the GPS unit yet. **Left-click File > Save To > File...**

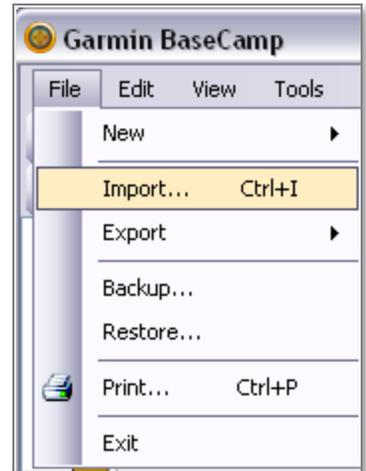
Note: To perform steps 7 through 11, DNR Garmin must have data already loaded in its table from an ArcMap project or from a file. See step 5 above and the related guides to load data. If you save without data, you will either get no results, or could overwrite existing data on the unit with blank information.



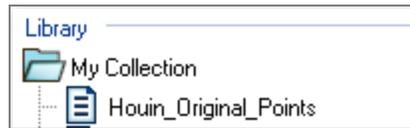
8. In the dialogue window that opens, **navigate** to a location on your computer to store the GPX file, such as the customer folder or your project's folder.
9. In the *Save as type* dropdown at the bottom of the window, change the file format to *GPS eXchange Format (*.gpx)*.
10. Enter a name for the file using underscores instead of spaces and following a naming convention that identifies the type of data and the project such as *Waypoints_Smith_WW* or *Track_Smith_Fence*.



11. **Click Save.** A GPX file will be created at the folder location you specified in step #8. If you entered the name of an existing GPX file, you will be prompted to overwrite or append data. Choose **No** to overwrite, **Yes** to append, or **Cancel** to return to DNR Garmin and enter a different file name.
12. After saving, **close** or **minimize** DNR Garmin and bring up the Garmin Base Camp window.
13. The first step in Base Camp will be to import the GPX file you just saved. **Click File > Import...**



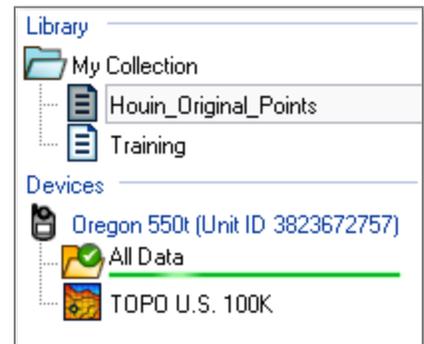
14. **Navigate** to the folder where you saved the GPX file in step #8. **Select** the GPX file that has your data and **click Open.**
15. The data will be added as a list that appears in Base Camp's *Library* under the *My Collection* folder. It will have the name of the GPX file you entered in step #10 and it will have an icon of a small piece of paper with three lines on it. If you click on this new list, your points (or track) will appear in the *Data View* list and will also be placed on the map.



16. Beneath the *Library* section, you should also see a section called *Devices* which should show your attached GPSMap 78 unit, its *All Data* folder, and its background maps, if any.



17. **Drag and drop** the *List* that has your file name from the *My Collection* folder to the *All Data* folder on the GPS unit. A green progress bar will appear by the *All Data* folder during transfer and then an icon with a check mark will appear on the *All Data* folder when transfer is complete.



Notes on data duplication –

- If your new data duplicated any existing point or track names on the unit which did not originate from the source *List* that you just dragged and dropped, a number will be appended to the name of each duplicate point or track on the unit. For example, if the unit had a point named 001 and if your *List* data had a different point named 001, then the new point you just uploaded would be named 0011 (or possibly 001(1) when viewed in Waypoint Manager on the Device).
- If you drag and drop the a list of data that you've already added to the unit previously, Base Camp will recognize you are trying to load the exact same data and not duplicate it on the unit.
- If you've deleted some points from the unit and drag and drop the same original source List of all points, only the missing points will be restored on the unit without duplicating all of the other points.

18. Your data will be saved to the GPS unit. When you disconnect your GPS unit and go to Waypoint Manager or Track Manager on the unit, the data you uploaded should now be present. If the data is not present, contact the NRCS State GIS Coordinator for support.