

GPS Support Instructions for ArcMap (ArcGIS 9.1)

1. Garmin GPS Settings



- Interface = NMEA (This needs to be changed back to Garmin if you want to download points in MapSource or DNR Garmin.)
- Position Format = Decimal Degrees (Since it comes into ArcMap in that format)
- Map Datum = Same as project

2. Turn on Laptop. If you turn on the laptop with the GPS connected, WindowsXP may consider the serial device (the GPS unit) to be a mouse. Not good.

3. Change the battery options (Control Panel/Power Options) to “always on” and under the power schemes change all of the options to “never”.

4. Connect the GPS Unit to the laptop and turn the GPS unit on.

Open up your ArcMap project.

- Activate the GPS toolbar: View/Toolbars/GPS
- From the GPS drop-down menu select “GPS Connection Setup”.
 - Note: Datum used on GPS receiver is set to WGS84. Set this to the datum that the GPS receiver is using. The default is WGS 1984. The GPS satellites use WGS 1984. You can use data frame properties to transform to a different datum (geographic coordinate system) or to project to a new projected coordinate system.
 - Select “Detect GPS Port” to make sure that the GPS is communicating with ArcMap/OK
- From the GPS drop-down menu select “Log Setup”.
- Select “New”, Output shapefile” in your student_folder/OK.
 - If you are appending to an existing log select “open”, navigate to shapefile/OK.
- Enter a Sampling Rate and check Log estimated position if signal is lost./OK
 - Note: Use a lower sampling rate for long-term use and a higher rate for short-term use. Save often by “stop streaming to log” . Begin streaming again by selecting “start streaming to log” .
- From the GPS drop-down menu select “Display Options”.
- Select the color and size for the “current” symbol and the “lost signal” symbol./OK
- From the GPS drop-down menu select “auto pan”.
- Select the Open Connection Icon located on the GPS tool bar.
- Select the Start Streaming Icon located on the GPS tool bar.
- Navigate to your approximate location in ArcMap. It may take a moment for the “current” symbol to display.
- To stop the streaming data: Select Stop Streaming to Log located on the GPS tool bar.
- Select Close Connection located on the GPS tool bar.
- Disconnect GPS unit from the laptop.
- Turn off laptop.

Please see the GPS_Support_ArcGIS_9_1_Help_Files located in your documentation folder for more detailed information.