Exercise 7 - Final Projects (Teams)

At the conclusion of this session you will be able to:

- ❑ Demonstrate real world natural resource management applications of GPS
- ❑ Document GPS conditions using Trimble Mission Planning software
- ❑ Transfer data to and from your GPS device (upload and download) using DNRGarmin software
- ❑ Add GPS field data to a map document in ArcMap and/or Google Earth
- ❑ Create Metadata for a GIS layer using ArcCatalog
- ❑ Create a GPS project summary
- ❑ Present your findings to the class; share the trial and tribulations of a GPS master

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Software: DNRGPS 6.15, ArcGIS 10 SP5

Directory Path: C:\CSP710\Exercise7

Please read all the instructions before you start!

Project Guidelines

- ❑ **This is a team project (teams of 2),** so work together to get the project done in time.
- ❑ Use the example GPS project summary in the Exercise7 folder to help you design your own GPS project. You will be responsible for showing this to your instructor and having it approved before heading out into the field. You have a lot of time to complete this, so think big. Also, you don't have to do the project in the same park; you can go anywhere in town, go to the beach, find another park, whatever works for you.
- ❑ Use Trimble's GNSS planning software to document your GPS conditions.
- ❑ Use averaging when collecting all point data and document the logging rate.
- ❑ Save the GPS field data as shapefiles in the Exercise7 folder along with your PowerPoint presentation (see below)
- ❑ Create metadata for one shapefile ArcCatalog. Copy and paste the GPS project summary to the description if you run out of time.

Presentation Guidelines

Create a 5 -10 minute PowerPoint presentation to show us what you accomplished. This is a team effort, so work together on one computer.

Your presentation should include:

- ❑ Your project scenario and objectives; what were you trying to accomplish and why?
- ❑ Describe your data collection methodology.
- ❑ Show your mission planning results.
- ❑ Show us your data and map. Use screen shots in your PowerPoint to do this.
- ❑ Show your metadata for one layer.
- ❑ Discuss any problems you ran into and solutions you used to solve them.
- ❑ Would you do things differently next time and why?