TW 1386: Coordinate Systems and Datum Transformations in Action

Goals of the workshop

Understand coordinate systems and geographic/datum transformations.

Major topics covered

- Geographic versus projected coordinate systems
- Identifying an unknown coordinate system (also see related demonstration below)
- Picking a geographic/datum transformation

Demonstrations will include

- Comparing different coordinate systems with ArcMap
- Explaining how the 'prj' files are organized in ArcGIS Desktop
- Choosing an appropriate geographic transformation

Related sessions

NOTE: Some may occur before this session

Tuesday, 10:15AM – 11:30AM: Geodesy Tools in GIS. SDCC, Room 24A.

Wednesday, 9:00AM – 9:30PM: Lining up CAD data in ArcGIS. SDCC, Hall F, Room 1.

Reference Material

Flacke & Kraus. Coordinate Systems in ArcGIS.
Elithorp & Findorff. Geodesy for Geomatics and GIS Professionals.
Iliffe and Lott. Datums and Map Projections.
Maher. Lining Up Data in ArcGIS.
Meyer. Introduction to Geometrical and Physical Geodesy.

Knowledge Base articles at http://support.esri.com (enter the ID numbers as a search term)

23025, 29129, 24893, 29035, 17420


Database of coordinate systems and datums Guidance Notes