

GIS Editing & Geodatabases Workshop Outline

Maribeth Price—Instructor

Lesson 1. Geodatabases overview

What is a geodatabase?
Functional applications
Creating and importing feature classes

Lesson 2A Coordinate systems

Review of the basics
Common coordinate systems

Lesson 2B Coordinate systems

Managing coordinate systems
Troubleshooting

Lesson 2C Raster Coordinate Systems

Georeferencing rasters
Rectifying raster data
Projecting raster data

Lesson 3A. Editing basics

Creating feature classes
Digitizing points and lines
Editing attributes
Working with snapping

Lesson 3B. More editing basics

Using sketch context menus
Digitizing polygons

Lesson 3C. More editing basics

Using templates for default attributes
Using the Feature Construction toolbar

Lesson 4A. Preventing topology errors

Editing complex polygon topology
Stream digitizing and section editing
Digitize by divide-and-conquer

Lesson 4B. Using map topology

Editing polygons
Editing lines

Lesson 4C. Planar topology

Creating topology
Finding and fixing errors

Lesson 5A. Feature datasets and attribute domains

About feature datasets
Spatial reference of datasets
Creating a feature dataset
Importing data

Lesson 5B. Subtypes

What are subtypes
Creating and using subtypes
Editing with subtypes

Lesson 5C. Annotation

Creating annotation
Editing annotation

Lesson 6A. Creating networks

How networks are stored
Types of networks
Network analysis functions

Lesson 6B. Creating networks

Creating networks
Exercise 7: Creating a network

Lesson 7. Metadata

Importance of metadata
Overview of metadata requirements
Using the metadata editor
Learning more about metadata

For information on upcoming workshops, or to register for a workshop, go to

<http://geology.sdsmt.edu/220750>