

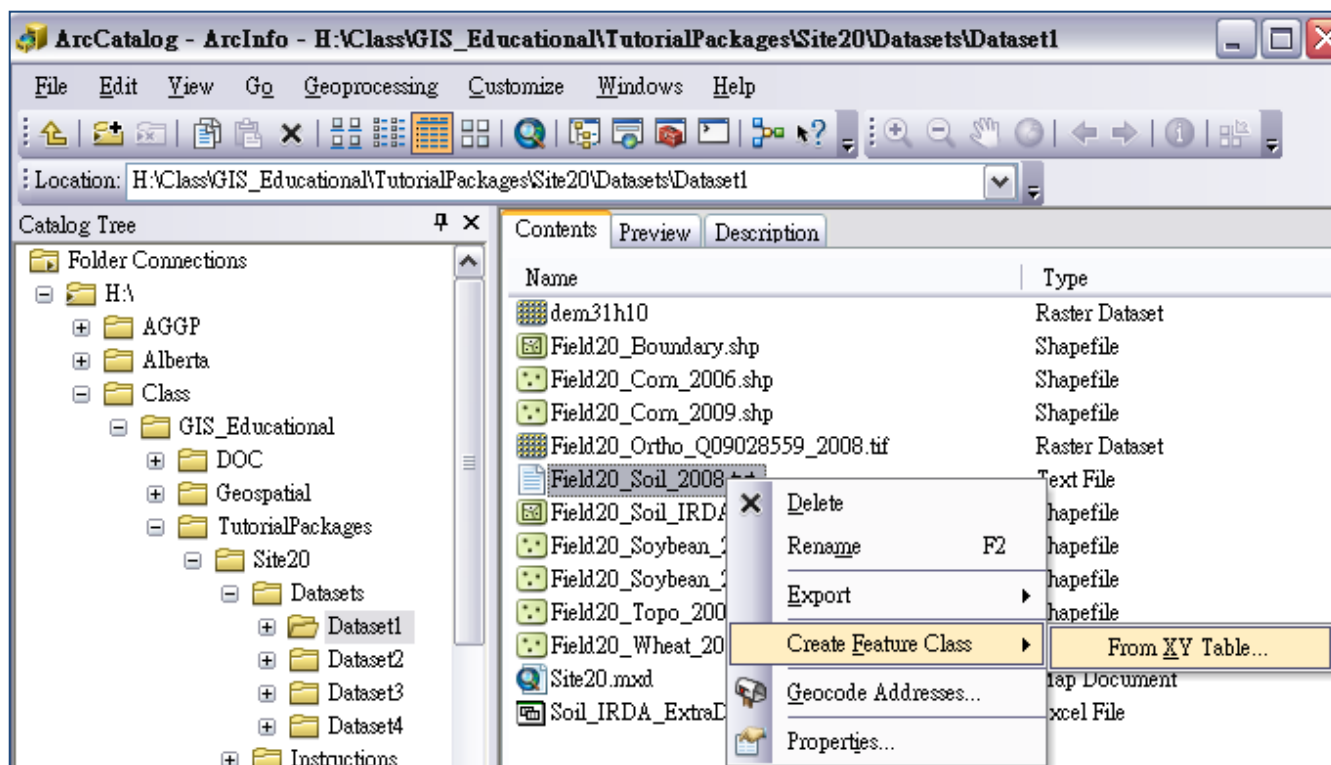
Tutorial Set 1: Working with ArcGIS

Exercise Site20_1-3 Creating soil sampling map

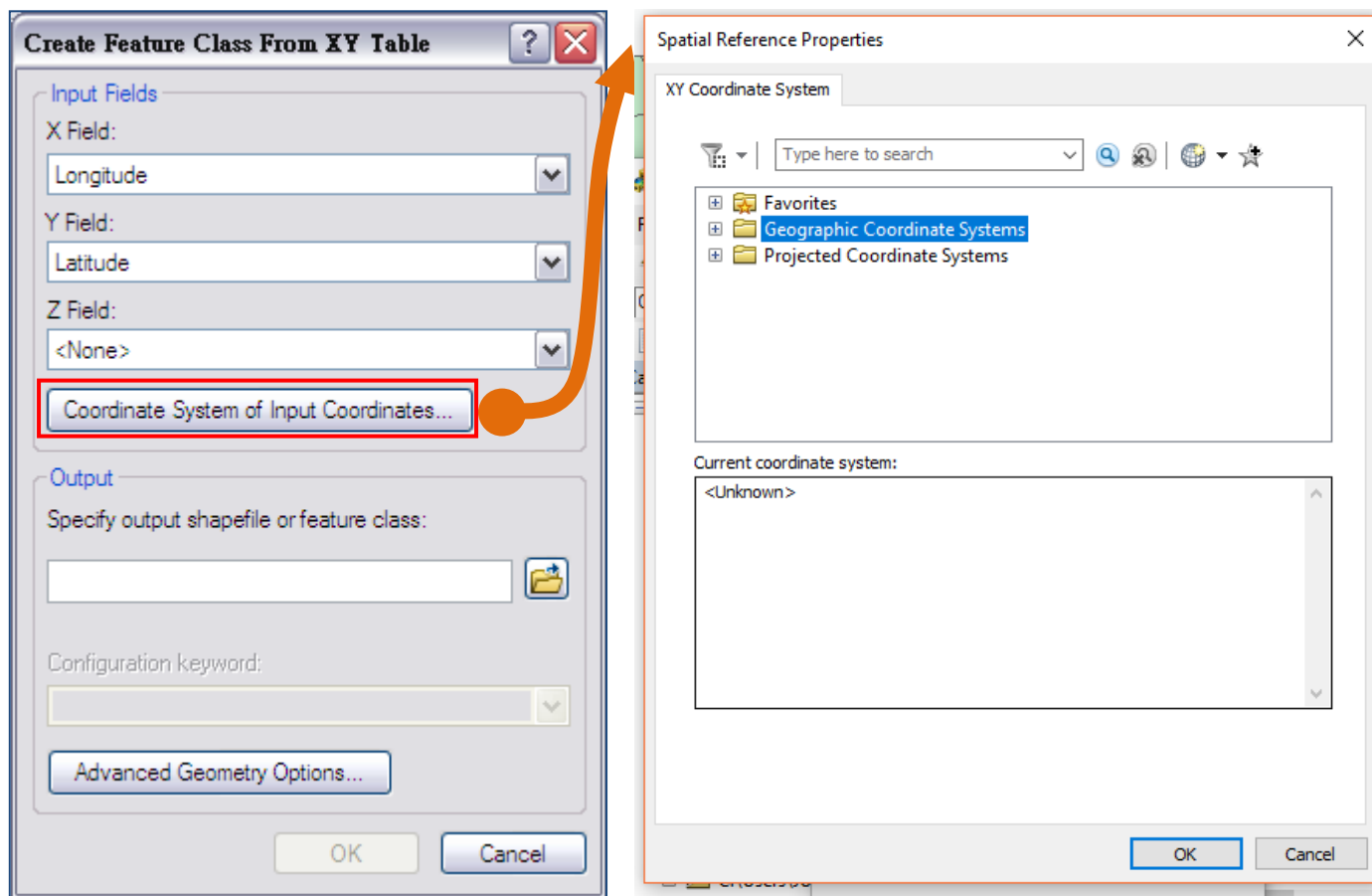
- Learning objective:** Creating a soil analysis point layer from a text file containing coordinates and soil properties for numerous sampling locations
- Techniques:** Create Feature Class from the XY Table
- Data Source:** Dataset1

Part 1: Creating a point shapefile from a text file

1. In **ArcCatalog**, locate **Field20_Soil_2008.txt** in the folder **Dataset1**
2. Right click on this file, select **Create Feature Class > From XY Table**.



3. In **Create Feature From XY Table** dialog window, set
 - a. X Field: **Longitude**
 - b. Y Field: **Latitude**
 - c. Z field: **(leave it empty)**
 - d. Click **Coordinate System of Input Coordinates** to launch the **Spatial Reference Properties** dialog window to define its coordinate system.



- e. In **Spatial Reference Properties** dialog window, click **Select** to choose the coordinate system in the folder **Geographic Coordinate Systems > World > WGS 1984**. Click **Ok**.

(Hint: since the point data is collected using a GPS device, the coordinate system should be WGS84)

- f. Specify output feature name:
Field20_Soil_2008_WGS84.shp in the folder of **Dataset1**
4. Click **Ok**.
5. Right click the on the **Contents** in ArcCatalog and click **Refresh** the data layers, the **Field20_Soil_2008_WGS84.shp** is appeared.
6. Open the shape file in a ArcMap document, if you want to see the map

Note: The shape has geographic coordinate system (Decimal degrees), need to convert project coordinate system for measurement and analysis in ArcGIS (next exercise - 1.4).

