

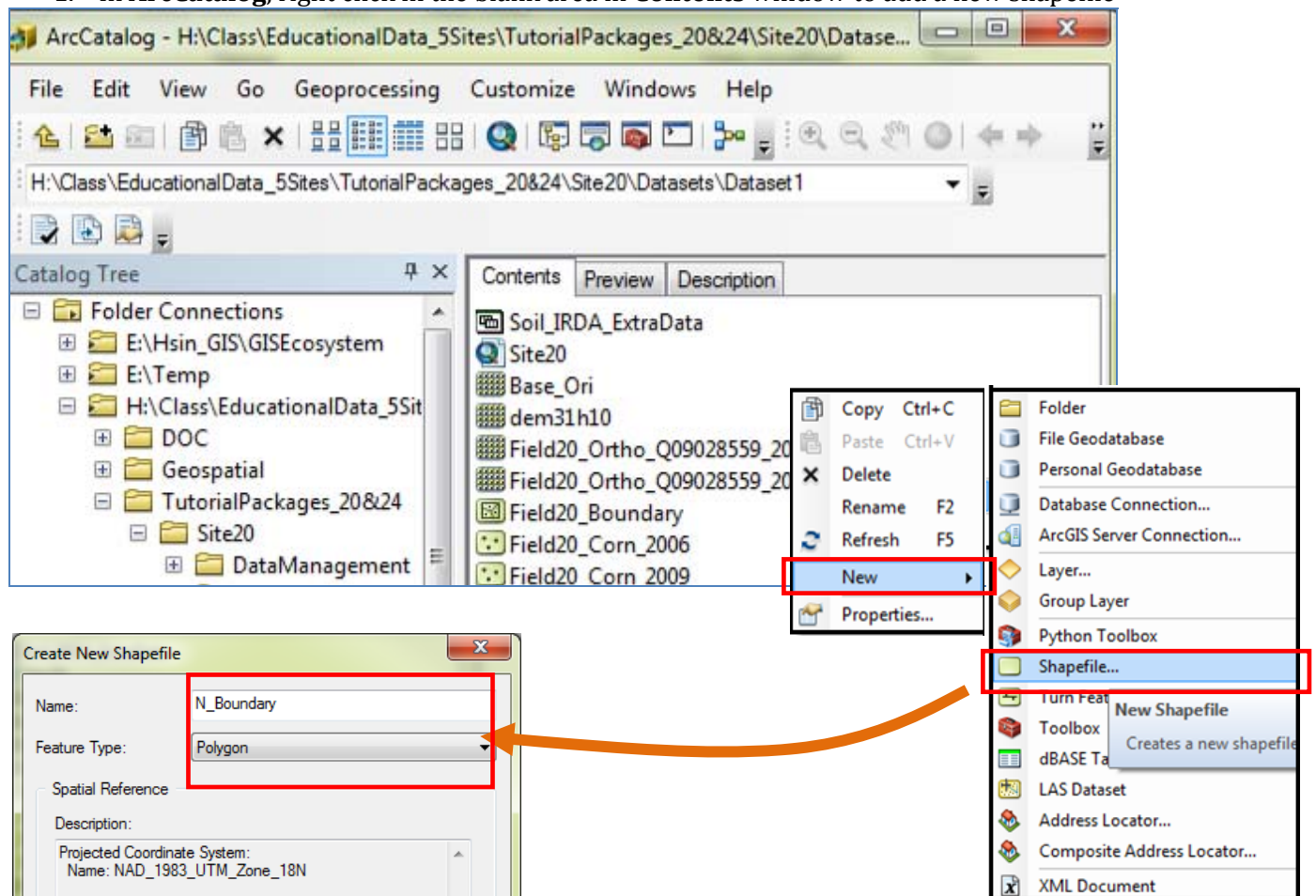
## Tutorial Set 1: Working with ArcGIS

### Exercise Site20\_1-6 Digitizing a new field boundary

**Learning objective:** Creating any new boundary/polygon by digitizing on the image  
**Techniques:** Editor Tool  
**Data Source:** Dataset1

#### Part 1: Creating a new shapefile in the ArcCatalog

1. In **ArcCatalog**, right click in the blank area in **Contents** window to add a new shapefile



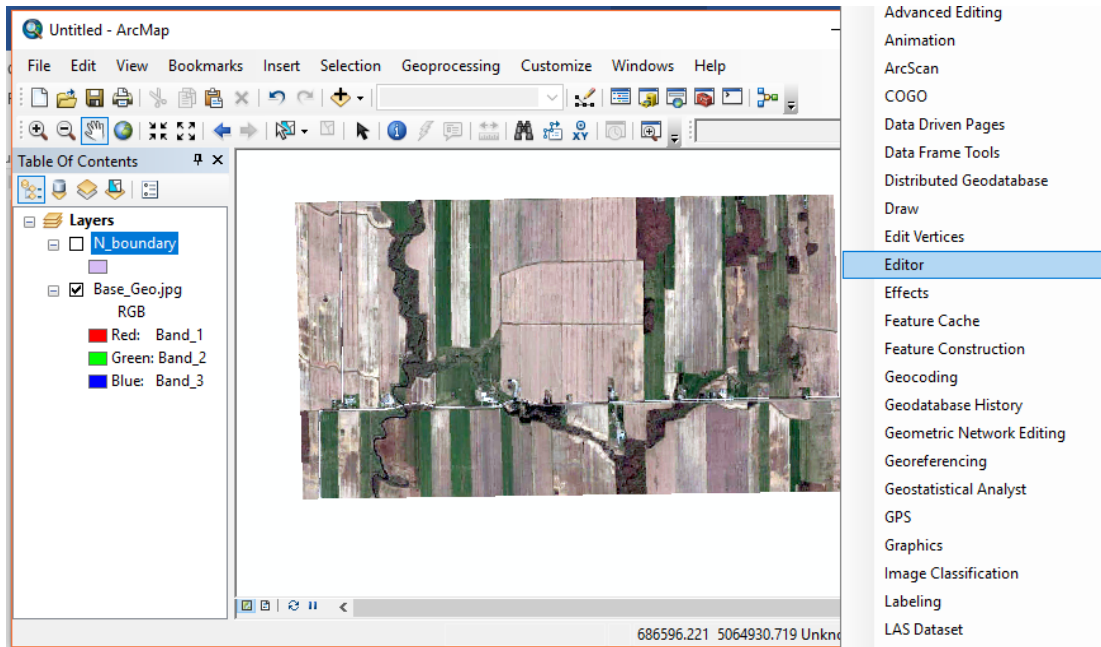
2. In **Create New Shapefile** window, set parameters as:

**Name** = N\_Boundary

**Feature Type** = Polygon

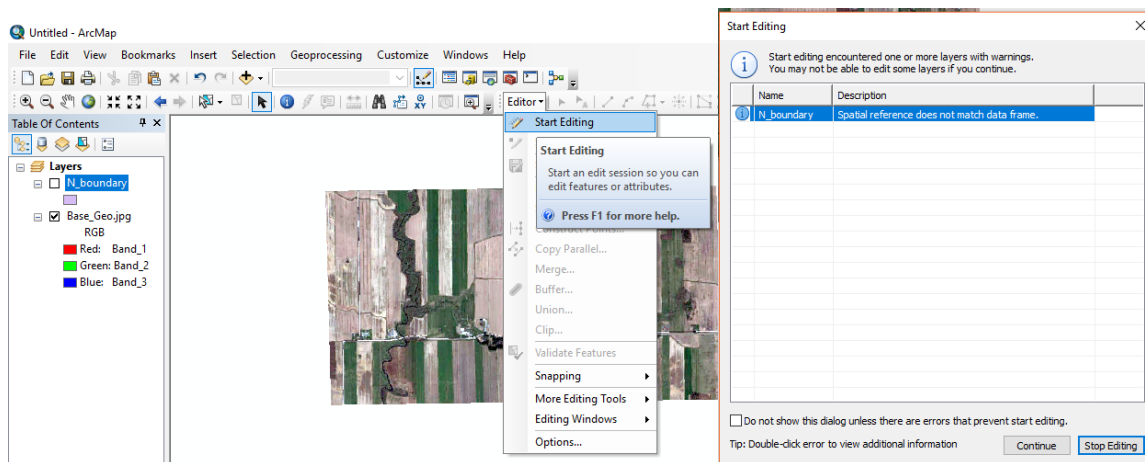
**Spatial Reference** = NAD\_1983\_UTM\_Zone\_18N

Click OK **Base\_Geo.jpg** into ArcMap from the ArcCatalog.



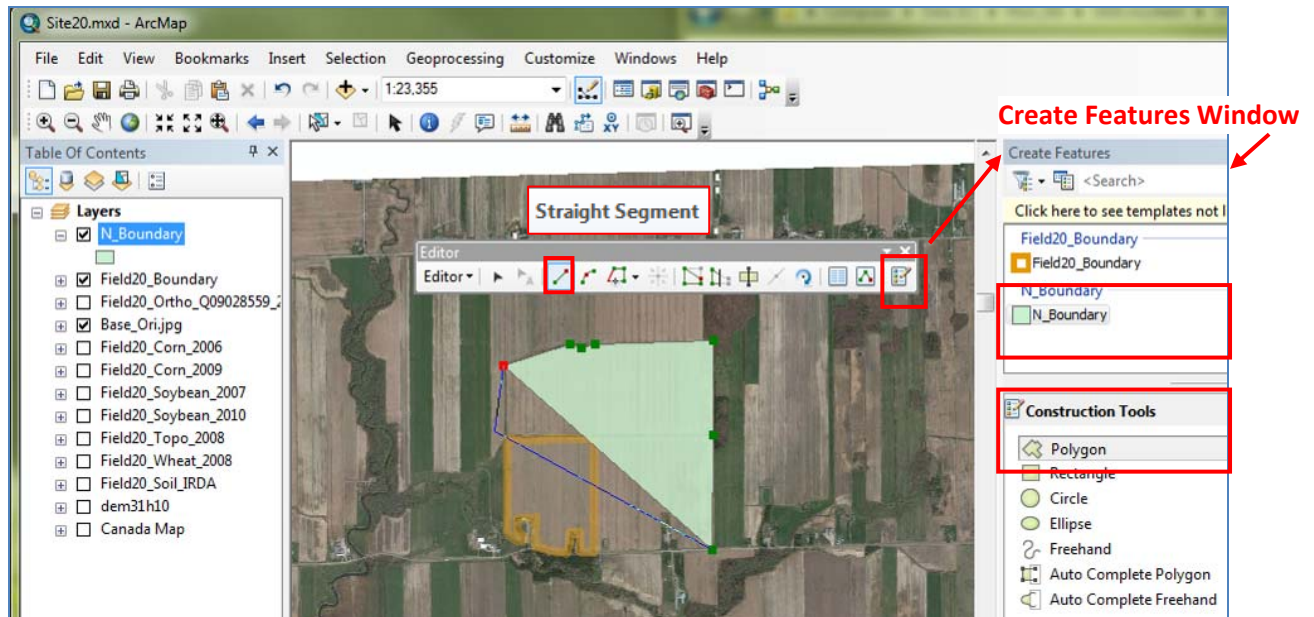
**Part 2: Digitizing a new boundary using the Editor Tool**

1. Add **Editor Tool** to the Tool Bar by right clicking on the Tool Bar. When **Editor** is added to the Tool Bar, go to **Editor > Start Editing**. Choose **N\_Boundary** as the target editing layer, and click **Continue**.



2. In **Create Features** window, select **N\_Boundary**
  - Select **Construction Tools** as a free shape **Polygon**.
  - **Straight Segment** function is automatically activated.
  - Start to digitize the ground features (move the cursor to the View window and click on the image to add multiple vertices following the boundary of a field).
  - Once finish, simply double click at the latest point to finish editing this polygon.

- Go to **Editor > Save Edits** and **Editor > Stop Editing** to save and close the editing mode.



3. More advanced editing functions can be found in **Editor Tool** bar. By simply activating the **Editor**, choose the target layer and click on the desired functions, such as **Cut Polygon Tool** (to split), **Editing Vertices** (to adjust shapes). Remember to save any new editing before exiting the editing mode.