

Using ArcGIS to Visualize Floodplain Land Use Change Map

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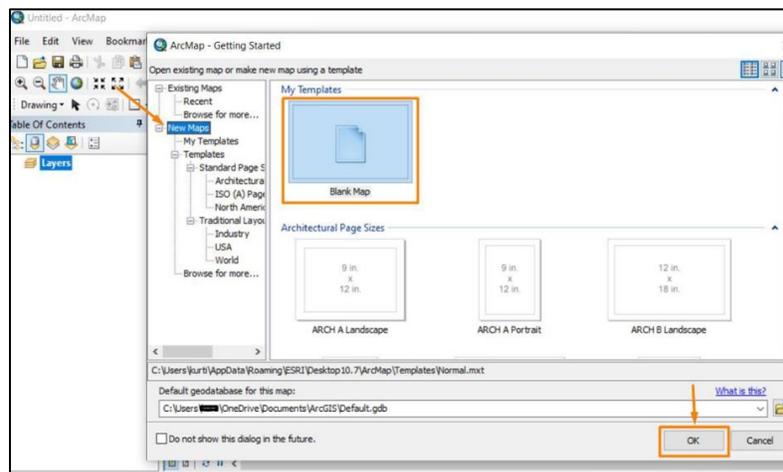
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Add data into ArcMap

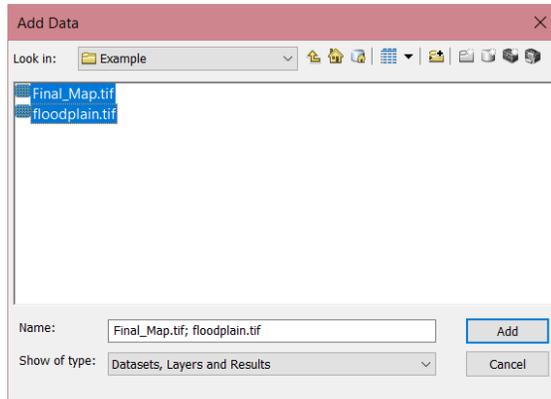
1. Open the ArcMap Program: Select **“New Maps”** on the right side. You will then click on **“Blank Map”** and click **“OK”**.



2. Adding the data to ArcMap: Click on **“Add data”** icon (), which opens the drop-down menu. In the dropdown menu, select to import the data.



3. Importing the final map into ArcMap: Browse to the location of the data you want to add. Select the Final_Map and floodplain .tif files and click **“Add.”**



Visualization of the map

4. When you added a dataset, you might have noticed that it was automatically assigned a color. This initial color choice for the data is random. You can change the color of your dataset in a few simple steps.
 - i. The symbols used to represent features in a layer can be modified in that layer's Properties window. In the Table of Contents **right-click the data layer** and select **"Properties"**.

Value "2" indicated that a target grid-cell had two non-unique values and hence a "change" of land use between two points in time.

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Value "0" represent where floodplain was defined.

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Layers

- Final_Map.tif
 - Value High : 2
 - Low : 2
- floodplain.tif
 - Value High : 0
 - Low : 0

- ii. In the Layer Properties dialog, click the **"Symbology"** tab. Then select the applicable symbology for the selected dataset layer.

2

1

3

Allow user to change the way data is represented by symbolizing the layer, and ArcGIS provides many symbolization methods. Here we select the unique values.

Layer Properties

General Source Key Metadata Extent Display Symbology Time

Show:

- Vector Field
- Unique Values
- Classified
- Stretched
- Discrete Color

Draw raster assigning a color to each value

Value Field

Color Scheme

Sym... <VALUE> Label Count

Sym...	<VALUE>	Label	Count
<input type="checkbox"/>	<all other values>	<all other values>	
<input checked="" type="checkbox"/>	2	Land use change	31699

Allow user to change the color and label for the layer

Add All Values Add Values... Remove

Default Colors Colormap

Display NoData as

OK Cancel Apply

5. Add a Basemap: Click on “Add data” icon and then select “Add Basemap” option. Note that You can pick any basemap then select “Add.” This example is utilizing the “Topographic” basemap

Add Basemap

Imagery Imagery with Labels Streets

Topographic Dark Gray Canvas Light Gray Canvas

National Geographic Terrain with Labels Oceans

Add Cancel

1:150,000

Add Data...

Add Basemap...

Add Data From ArcGIS Online...

6. To clearly show the floodplain land use change, zoom into a selected area through the “zoom-in” icon ().

