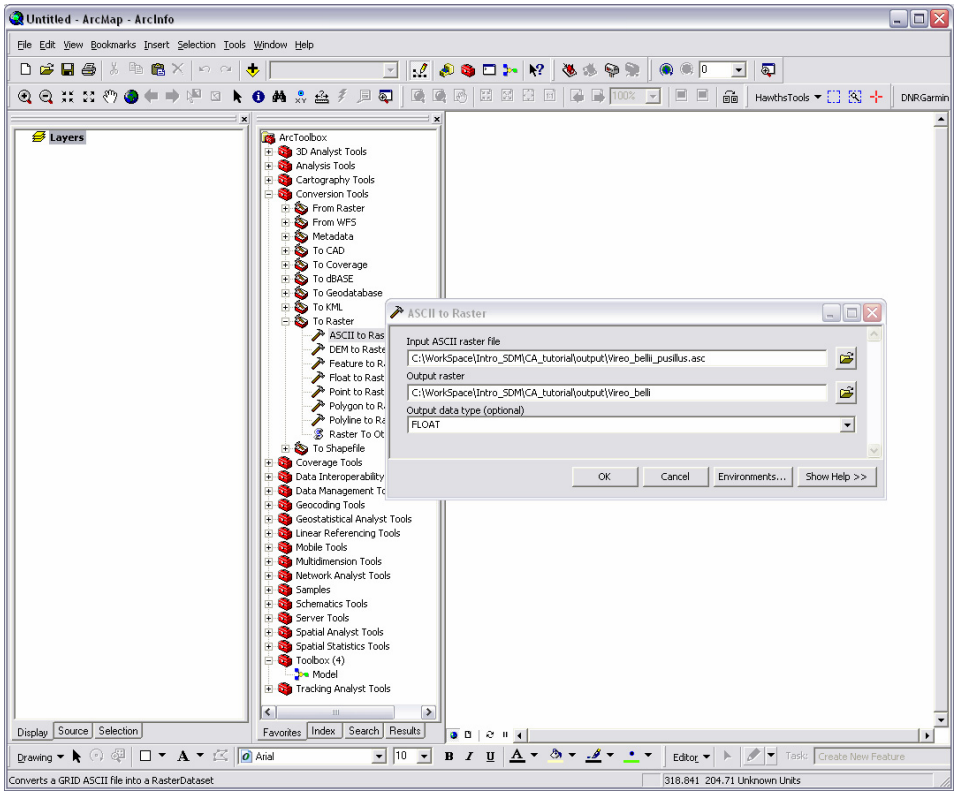
GEOSPATIAL INNOVATION FACILITY
Cutting-Edge Mapping Technology at UC Berkeley

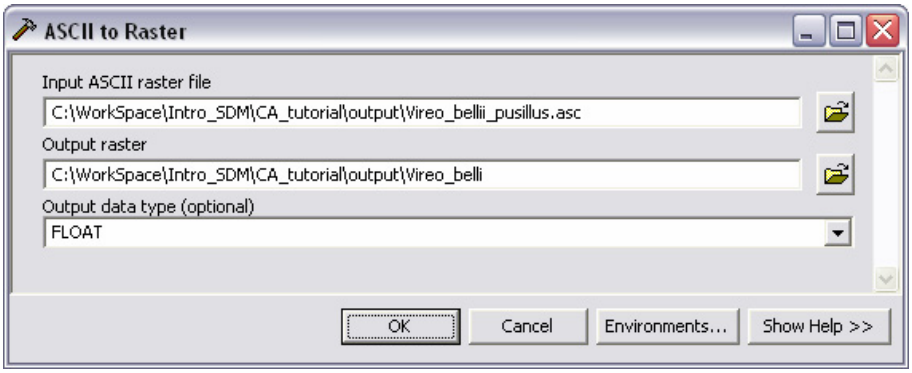
Displaying Modeling Results:
How to display and reclassify Maxent results in ArcMap

Though maxent results can be seen in a picture format, you can have much more control over the visualization using ArcMap.

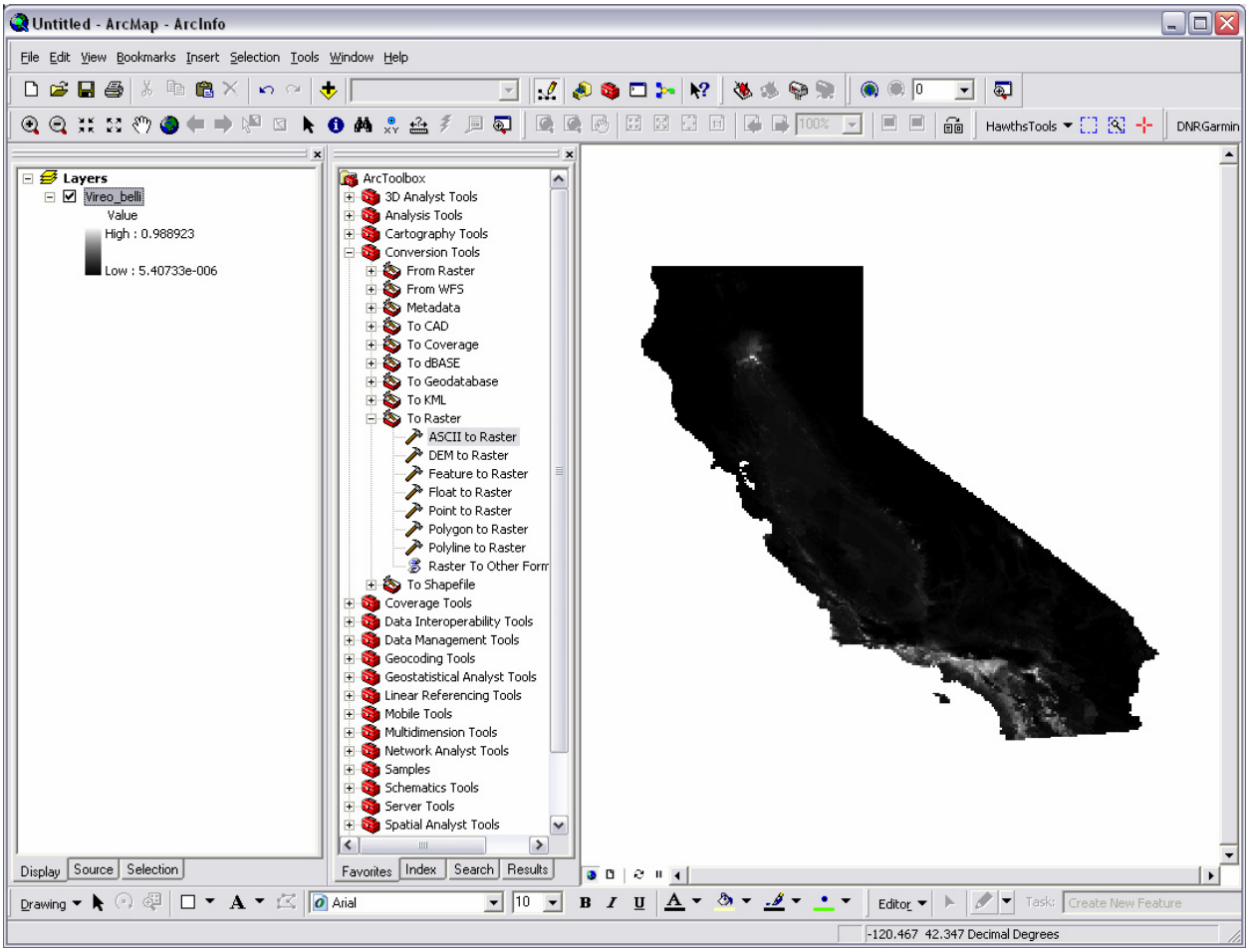
1. To access the model output file, open ArcMap, and Arc Toolbox. In the toolbox, go to **Conversion Tools** > **To Raster** > **ASCII to Raster**.



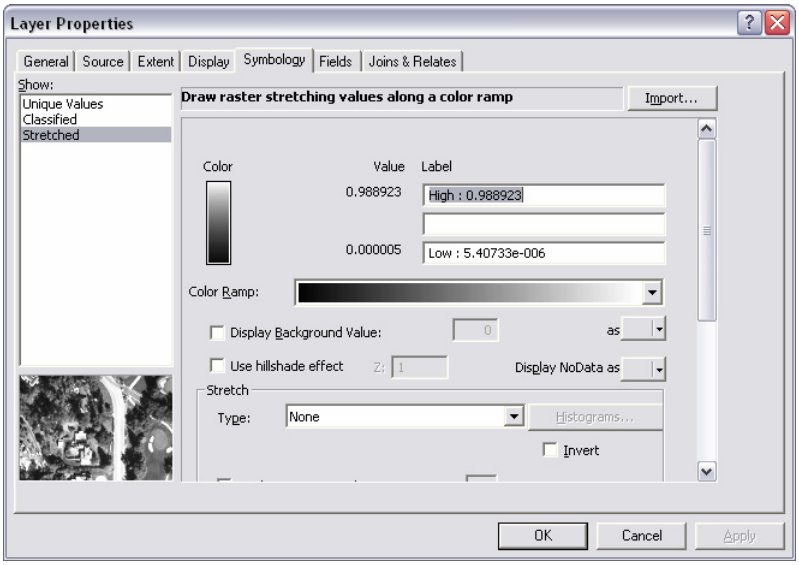
2. Select the maxent output ASCII file (be sure the files of type is set to .asc) for the input file, and choose a directory and name for your output (ersi grid file). Choose "float" so that the decimals are maintained and click OK.



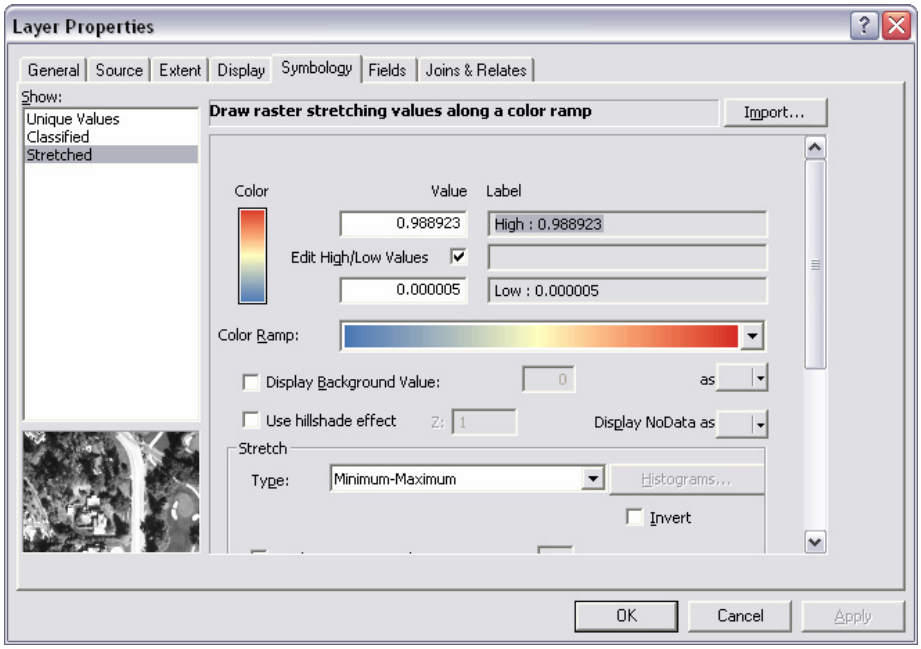
3. Once completed, you will see a greyscale image of the results.

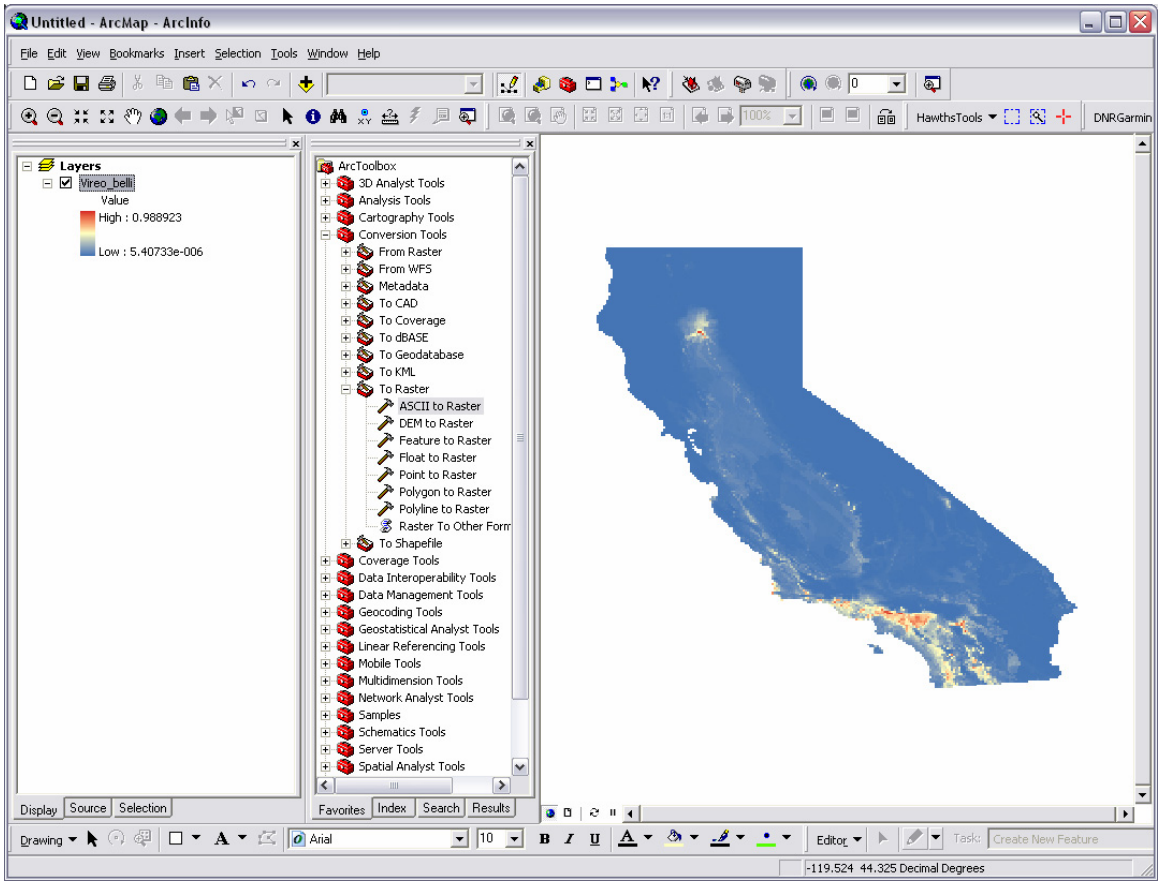


4. There are many tools available in the layer properties which can be accessed by double clicking the layer name in the table of contents, and choose the **Symbology** tab.

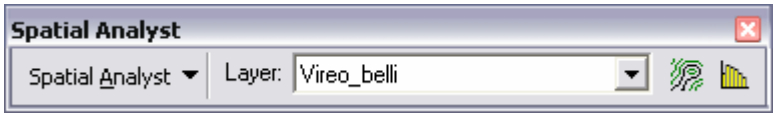


5. For example, choose “Minimum-Maximum” as the Stretch Type, and a color ramp of your choice. You can click apply to see the results, or check the Edit High/Low Values box to change these values.

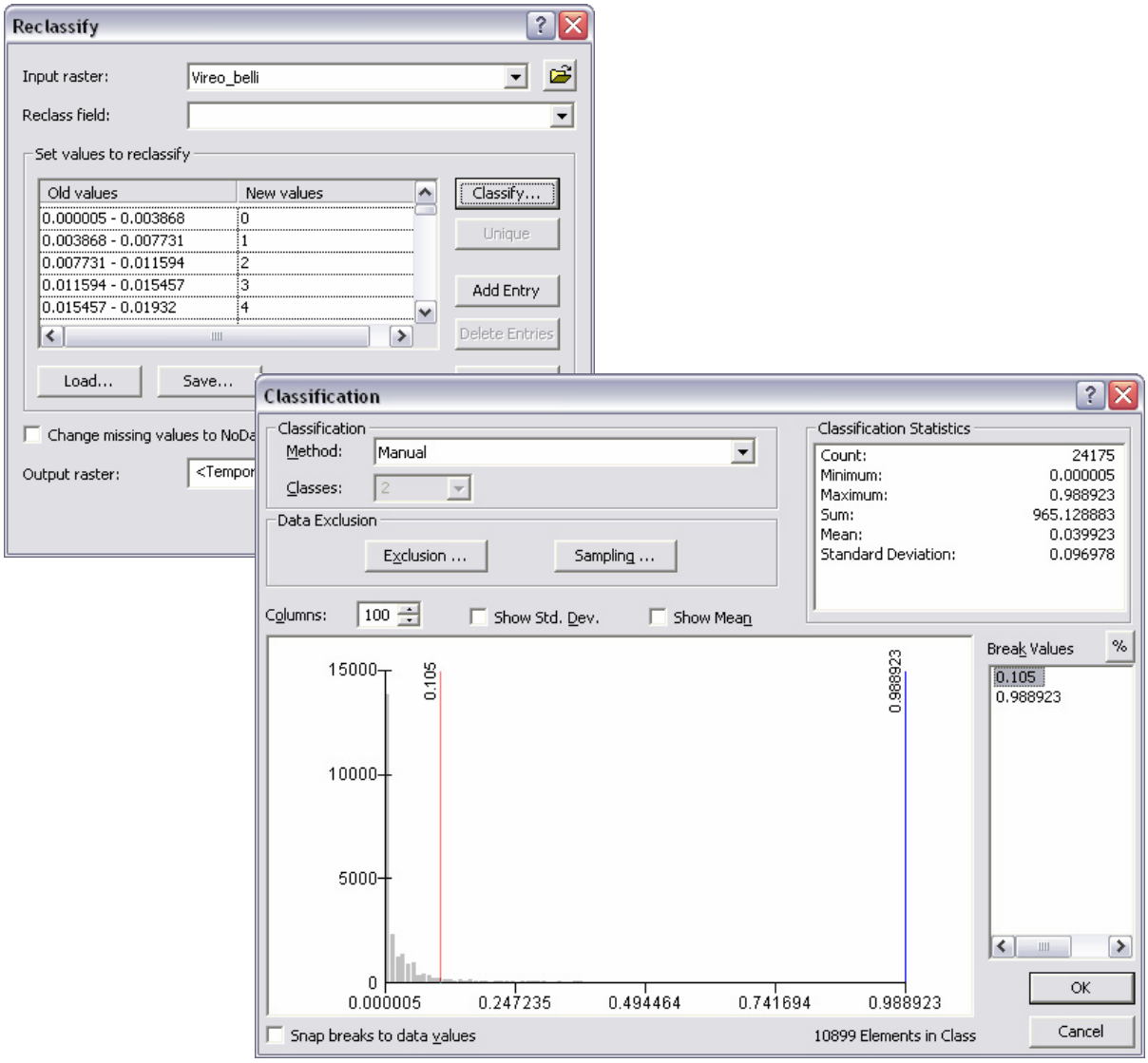




6. Next, we can reclassify the image in order to delimit a binary result. Make sure that the Spatial Analyst Extension is checked on: **Tools** > **Extensions**, and access the Spatial Analyst toolbar through **View** > **Toolbars** > **Spatial Analyst**.

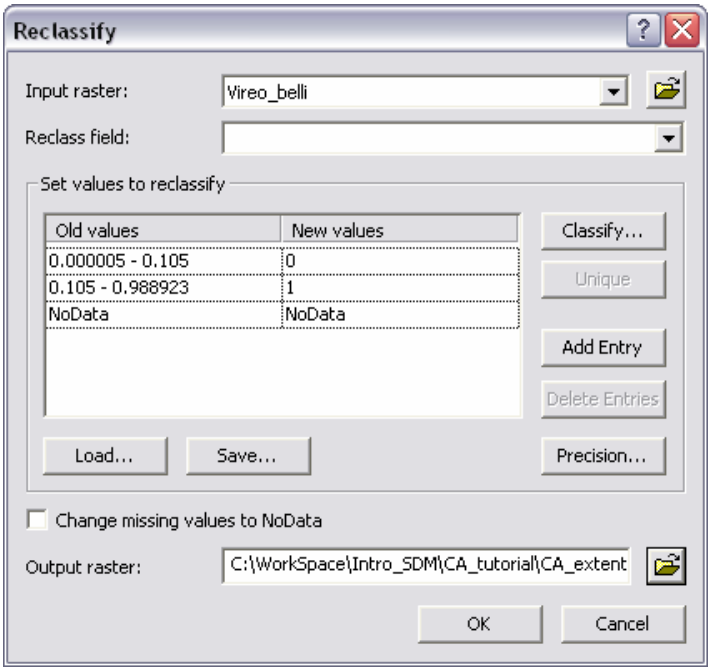


7. Go to Reclassify in the Spatial Analyst drop down menu. And click on the "Classify" button to access the Classification menu.



8. In the classification menu, choose "2" for the number of classes, and enter the desired threshold in the **Break Values**. You can consult the maxent html output for a table of suggested thresholds. Click OK.

9. Back in the Classify menu, change the new value for the lower range “NoData” and change the range for the positive values as “1”. Choose an output directory and file name, and click **OK**.



9. You should see the resulting file in the map, where all of the positive areas equal “1” and the negative areas equal “0”.