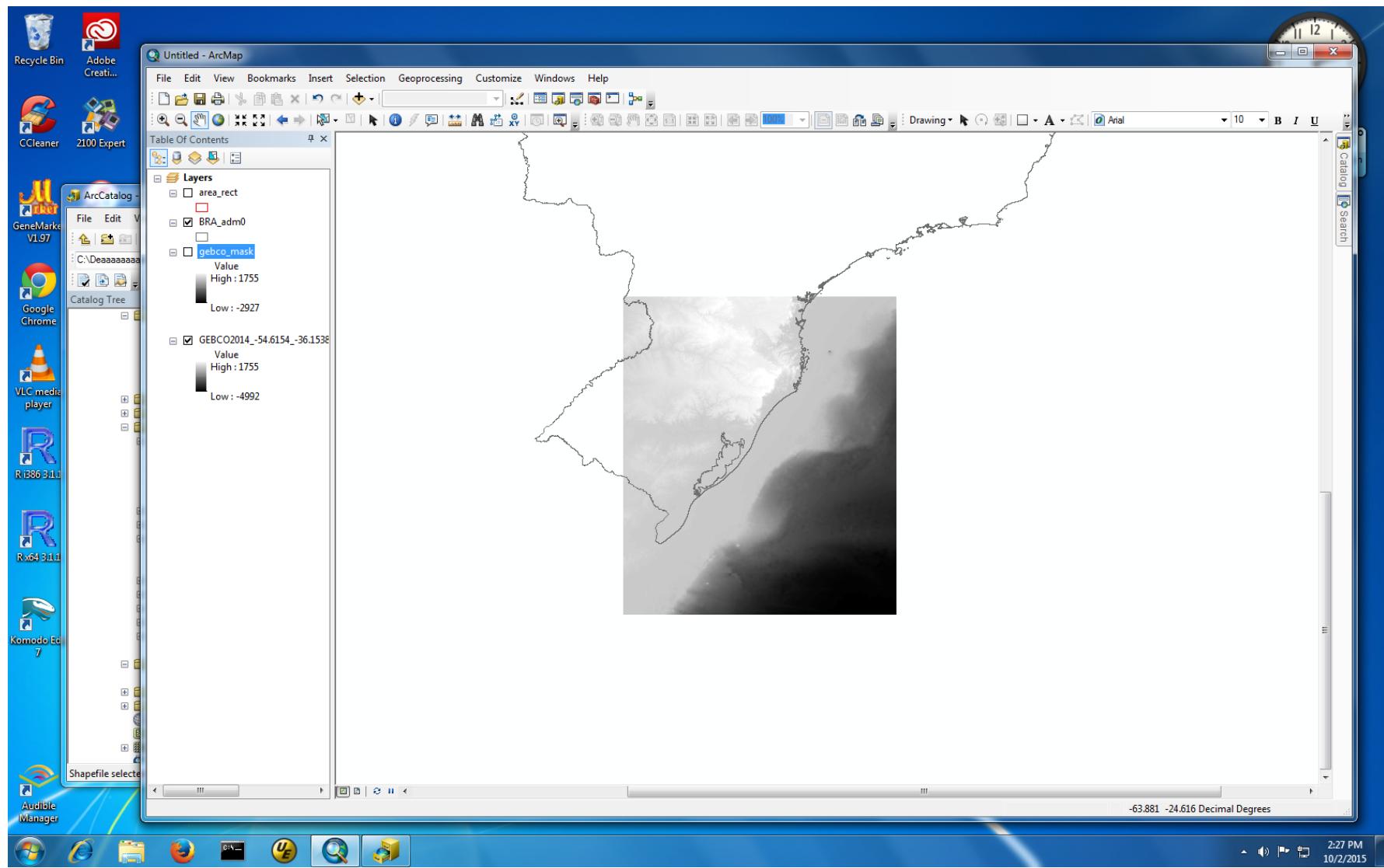


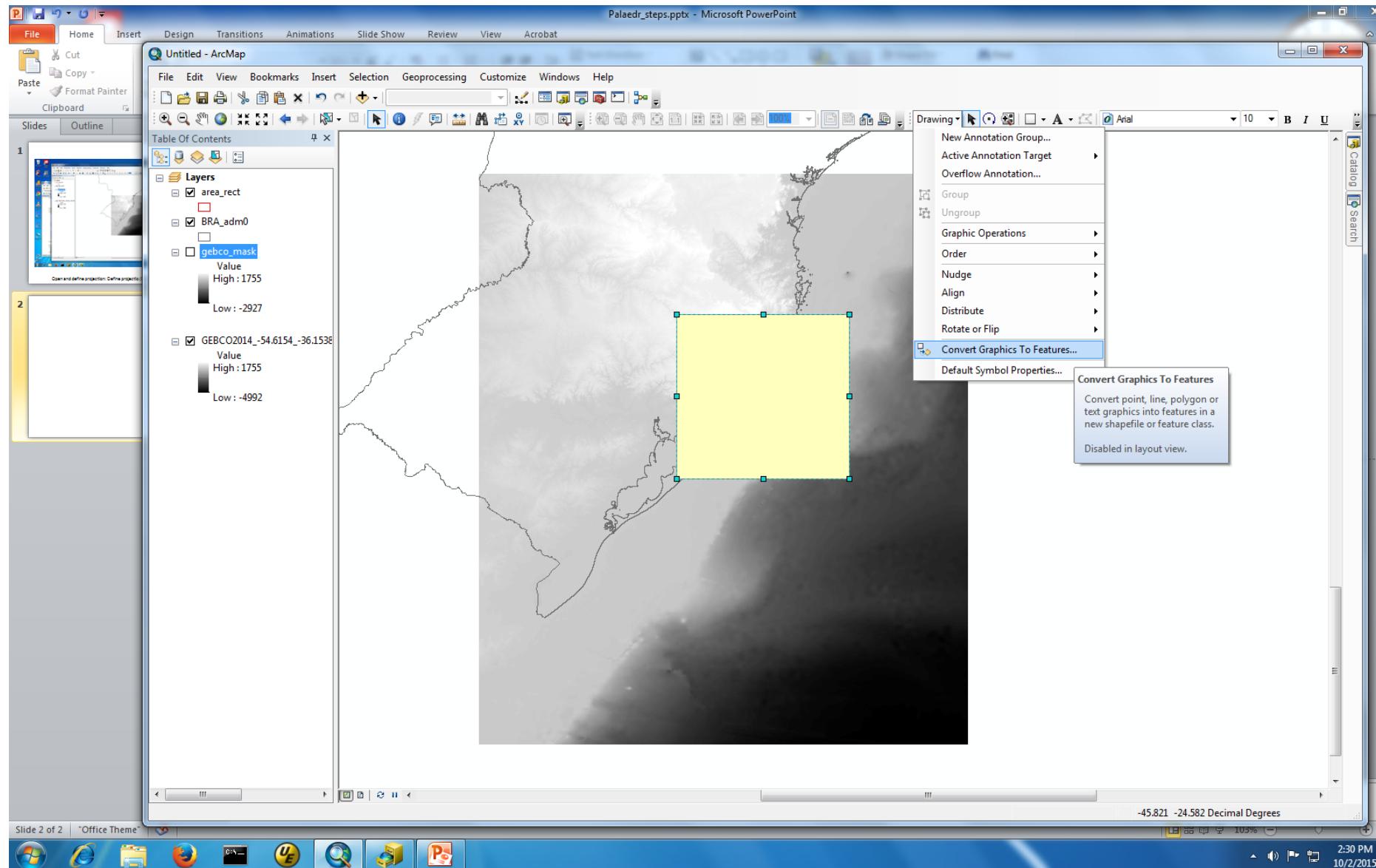
# **Palaeodrainages in ArcGIS**

Andréa Thomaz

Dec. 2015

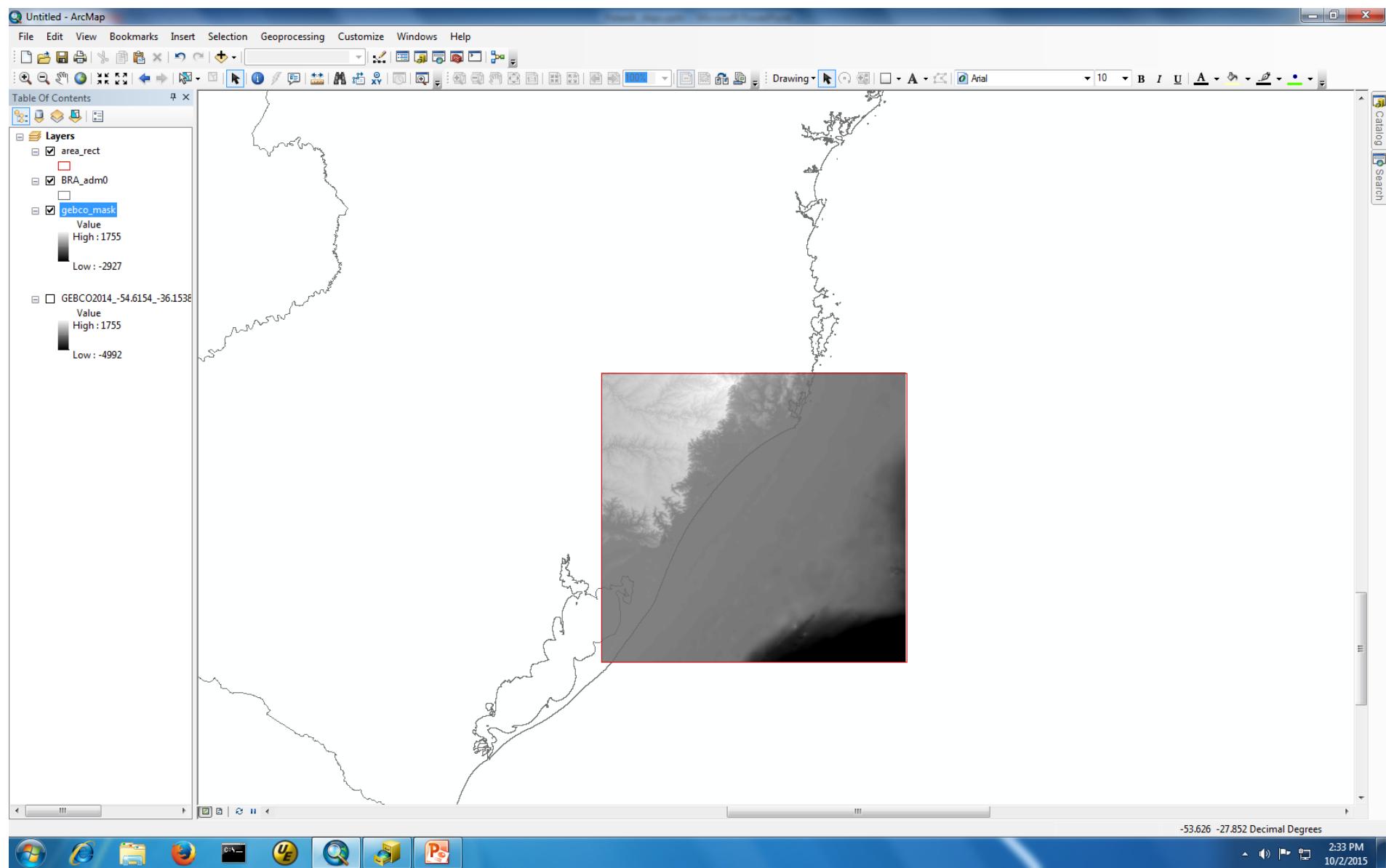


Open and define projection: Define projectio (Data management) = GCS\_WGS\_1984

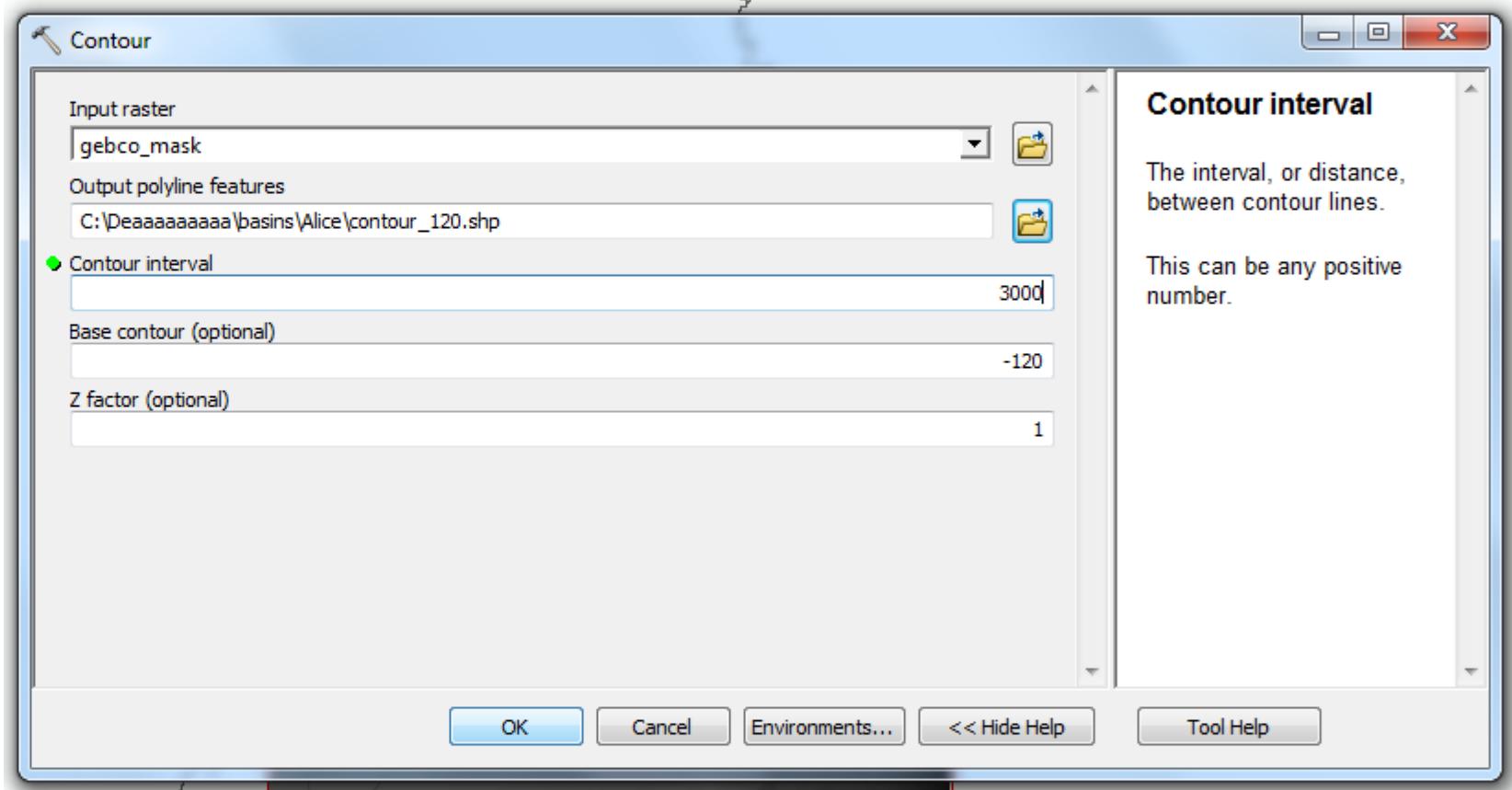


Make a rectangle in the area of interest using Drawing and convert it to a shapefile

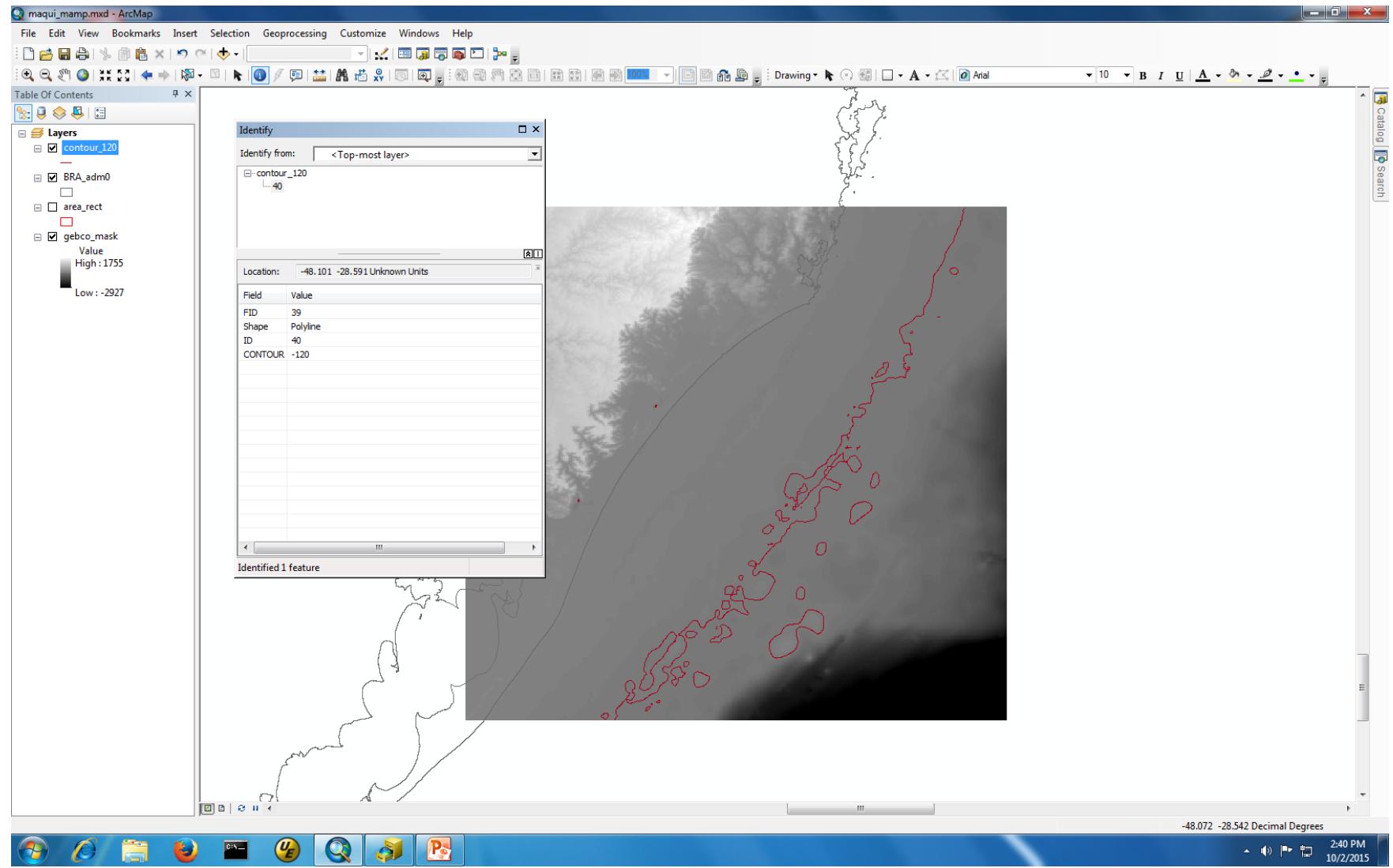
Extract by mask (Spatial Analyst): the gebco raster being masked by the rectangle that you just created



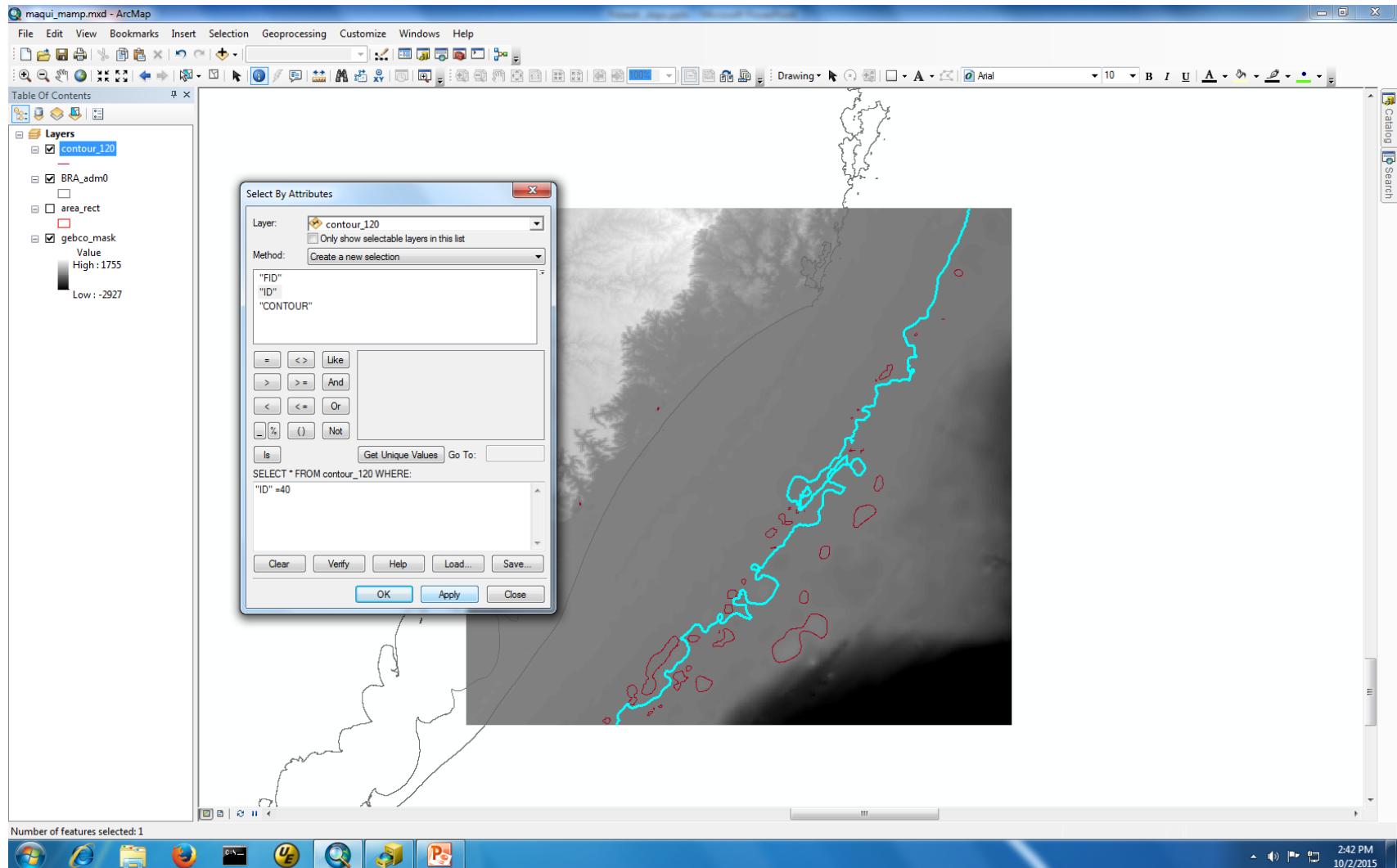
## Contour (spatial analyst): put the desired sea level



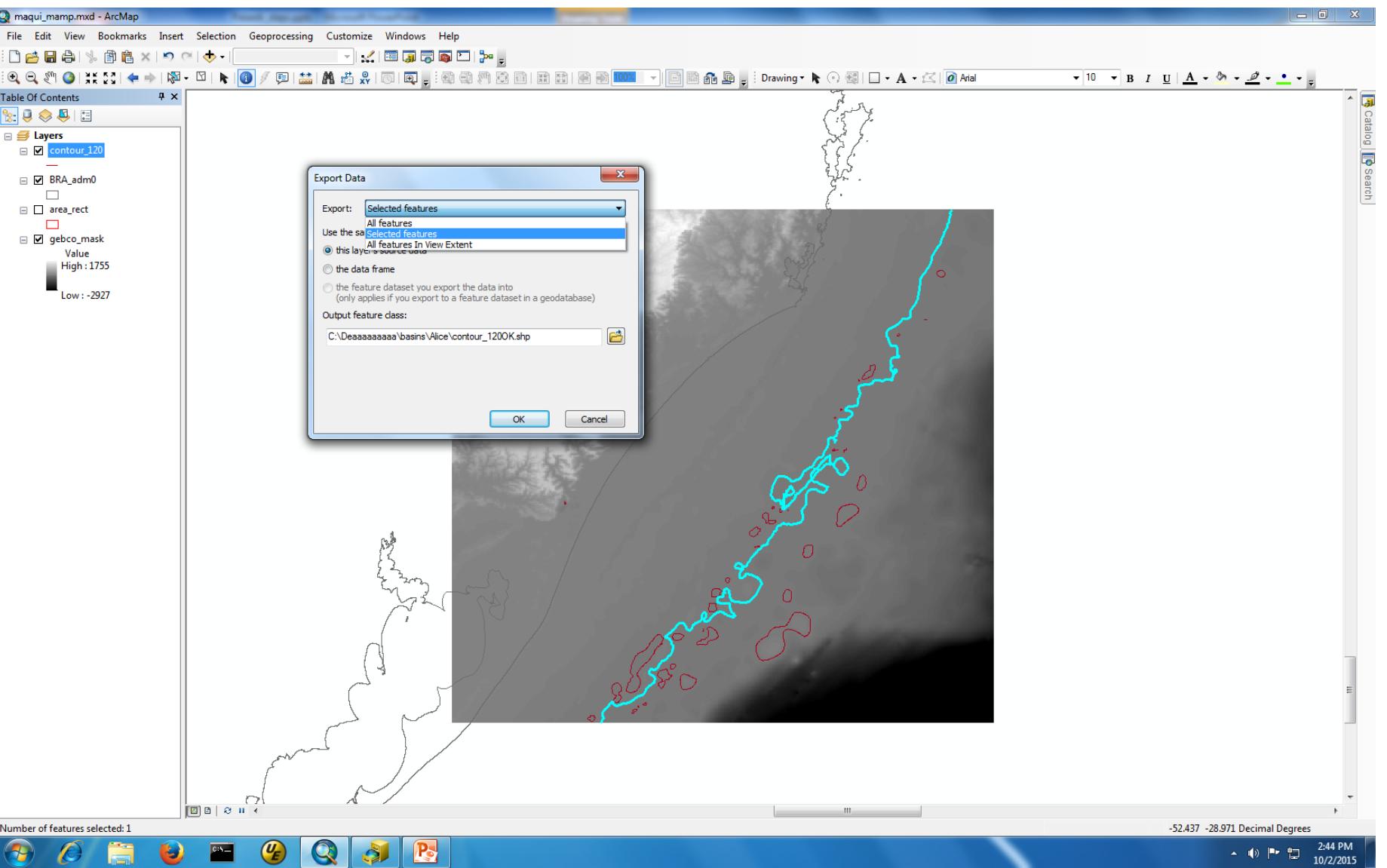
## Using the information button discover the ID of the main line



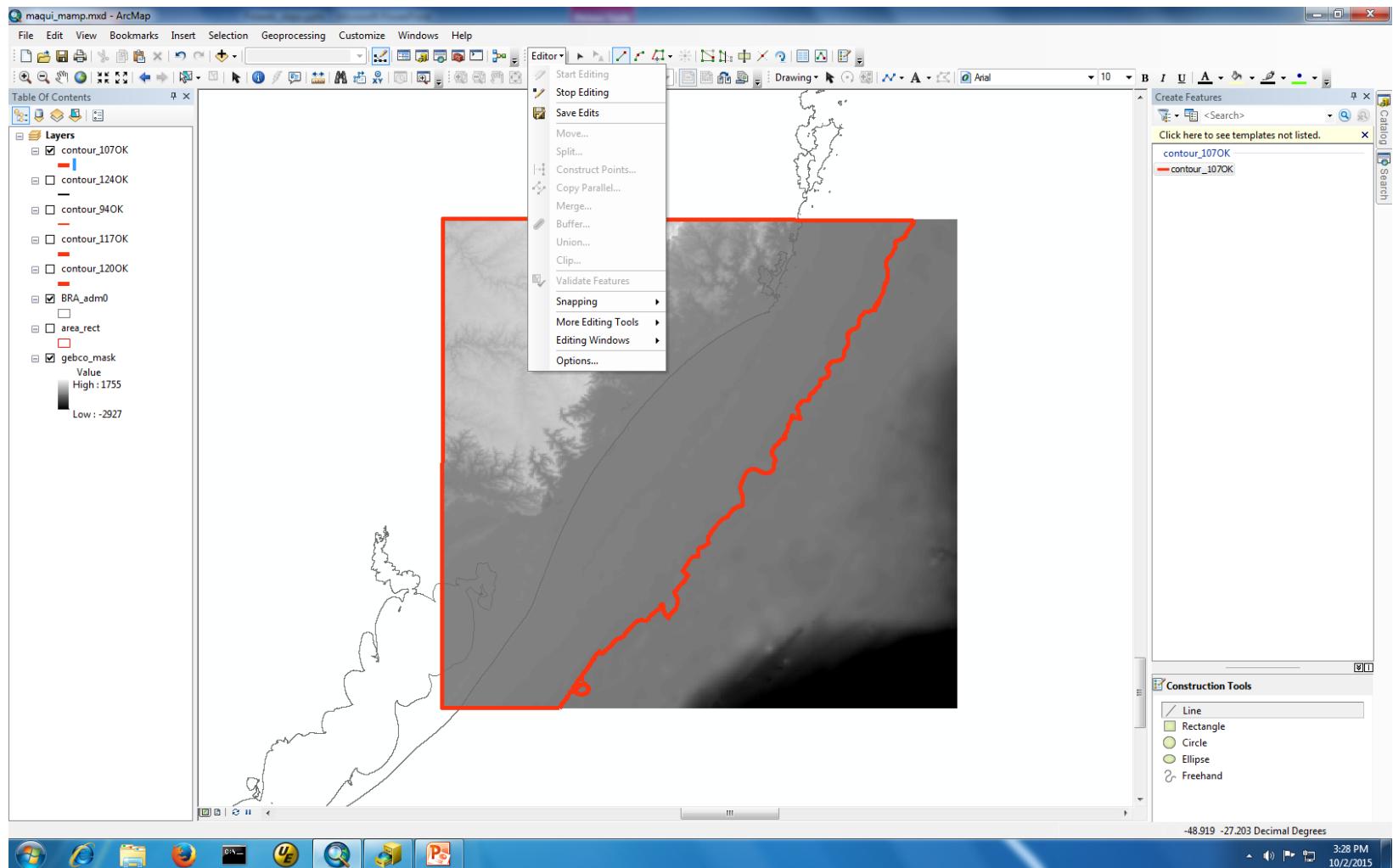
## Using the section by attribute select the main line



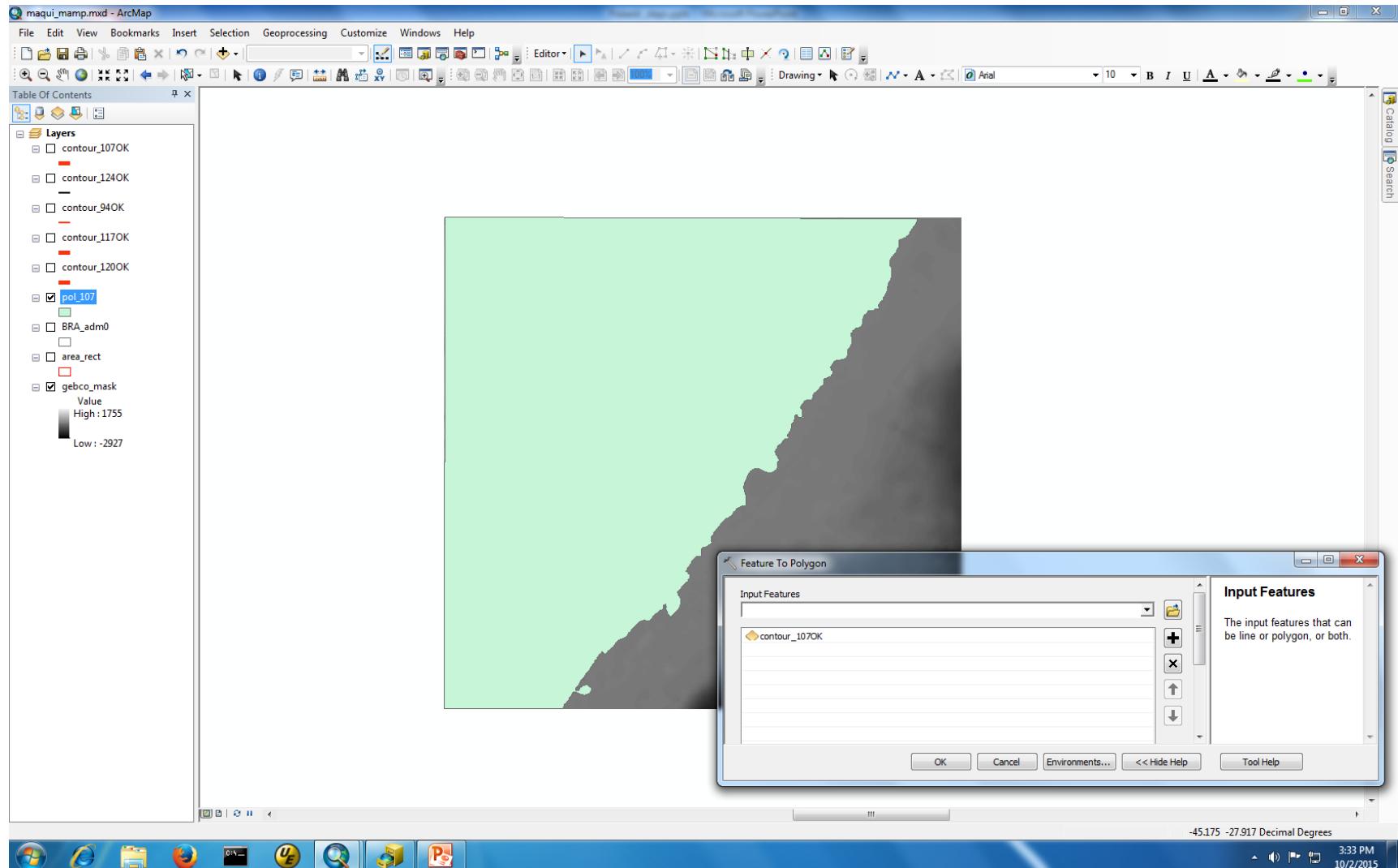
Click with the right button > Data > Export Data



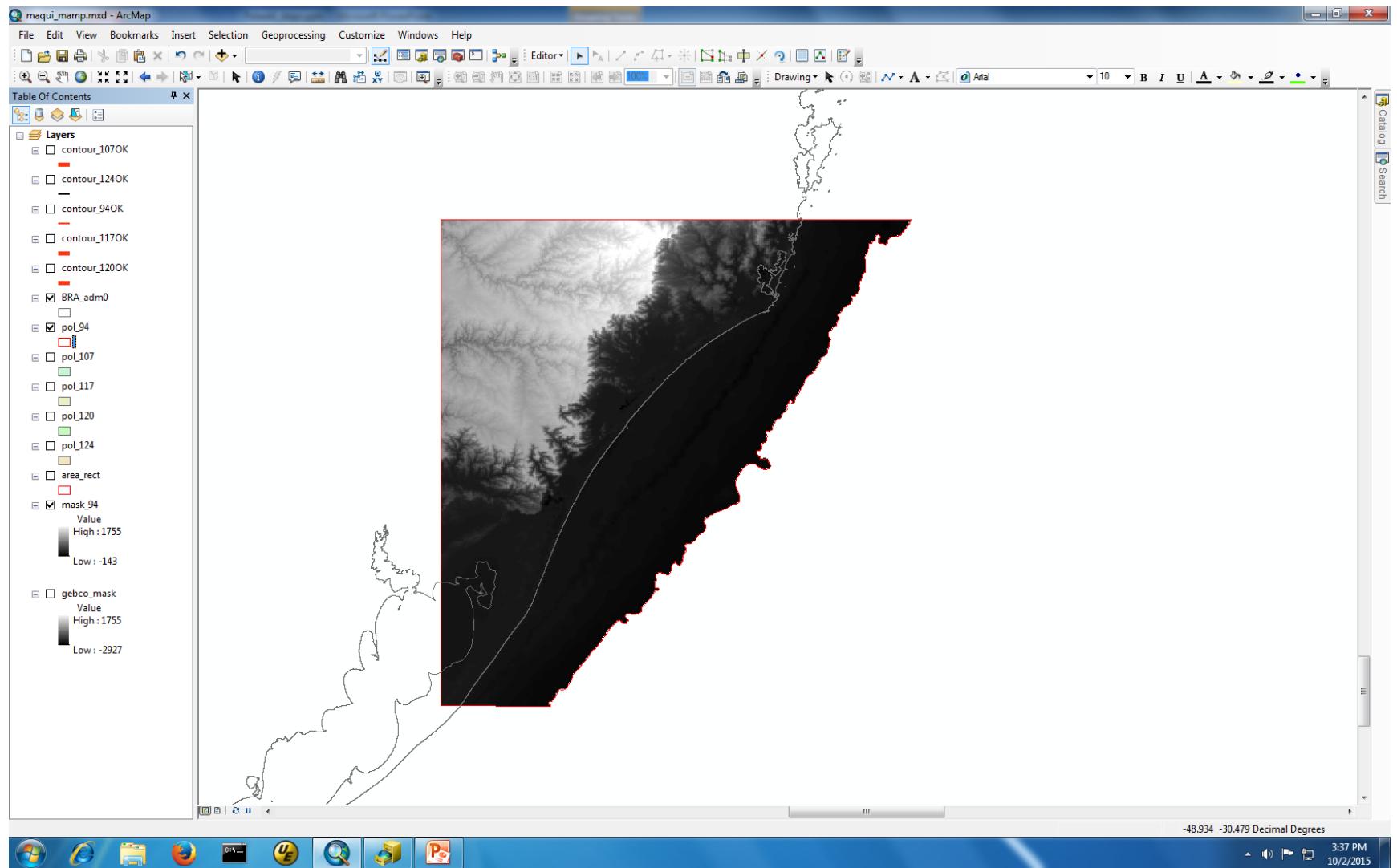
We need to transform the contour line into a polygon, for that go to Editor bar and click on start editing. Select the layer to edit and in Create Features, select the layer and line. Close the rectangle with the line and save changes.



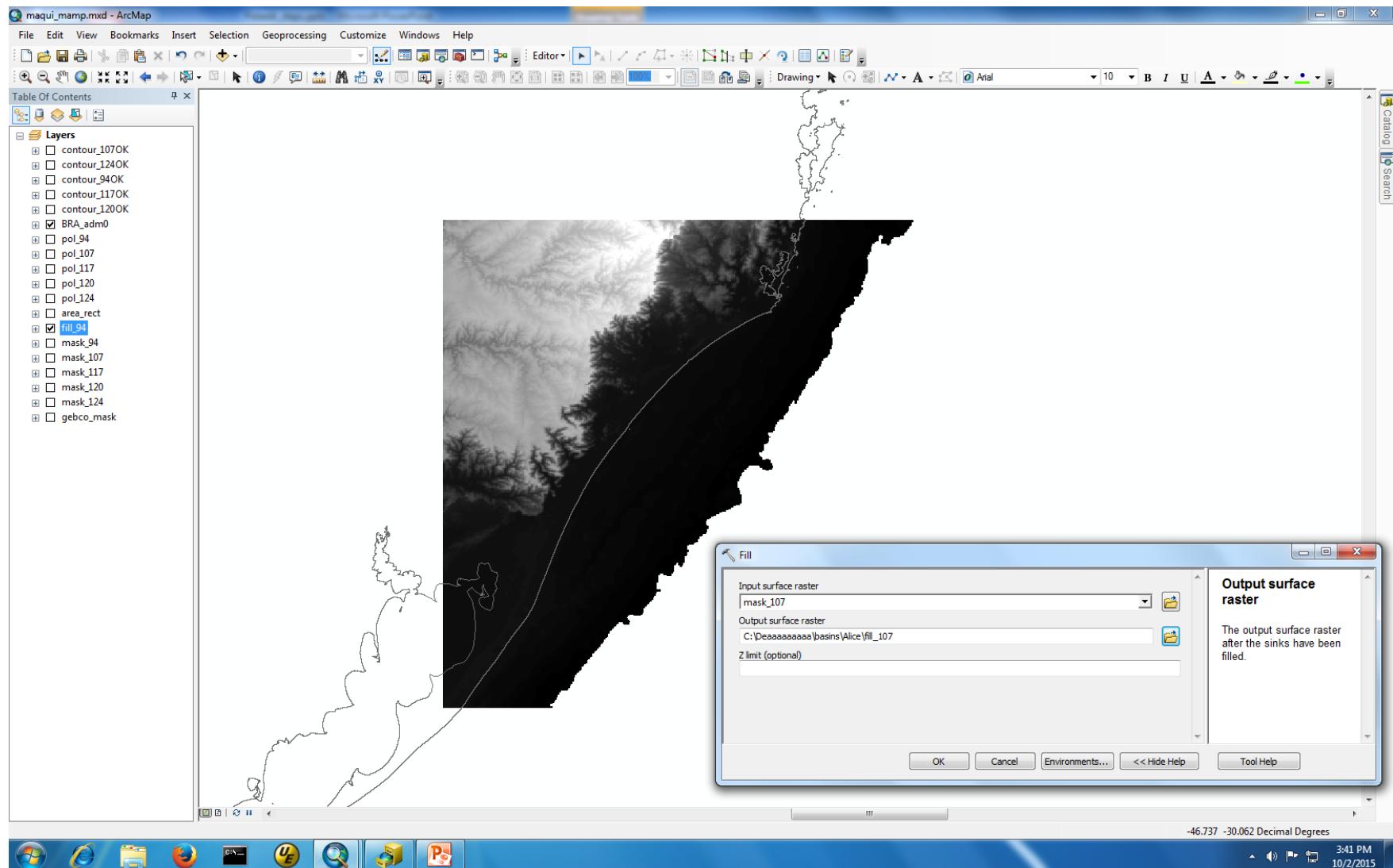
## Feature to polygon transform the contour lines into polygons



Then, extract by mask the gebco using the polygon that you just generated

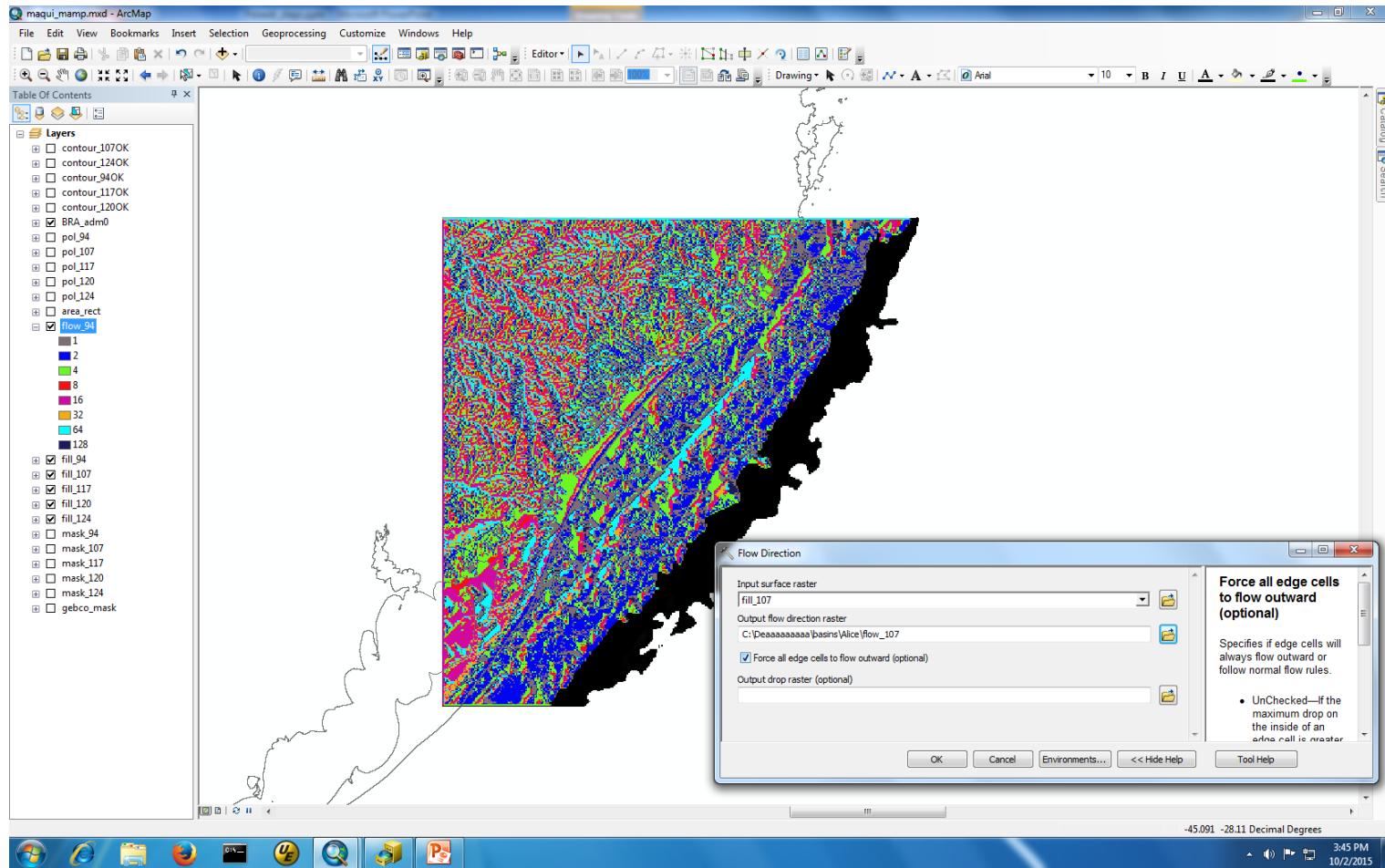


## Fill (Spatial analyst): nothing will really happen that you can check by eye

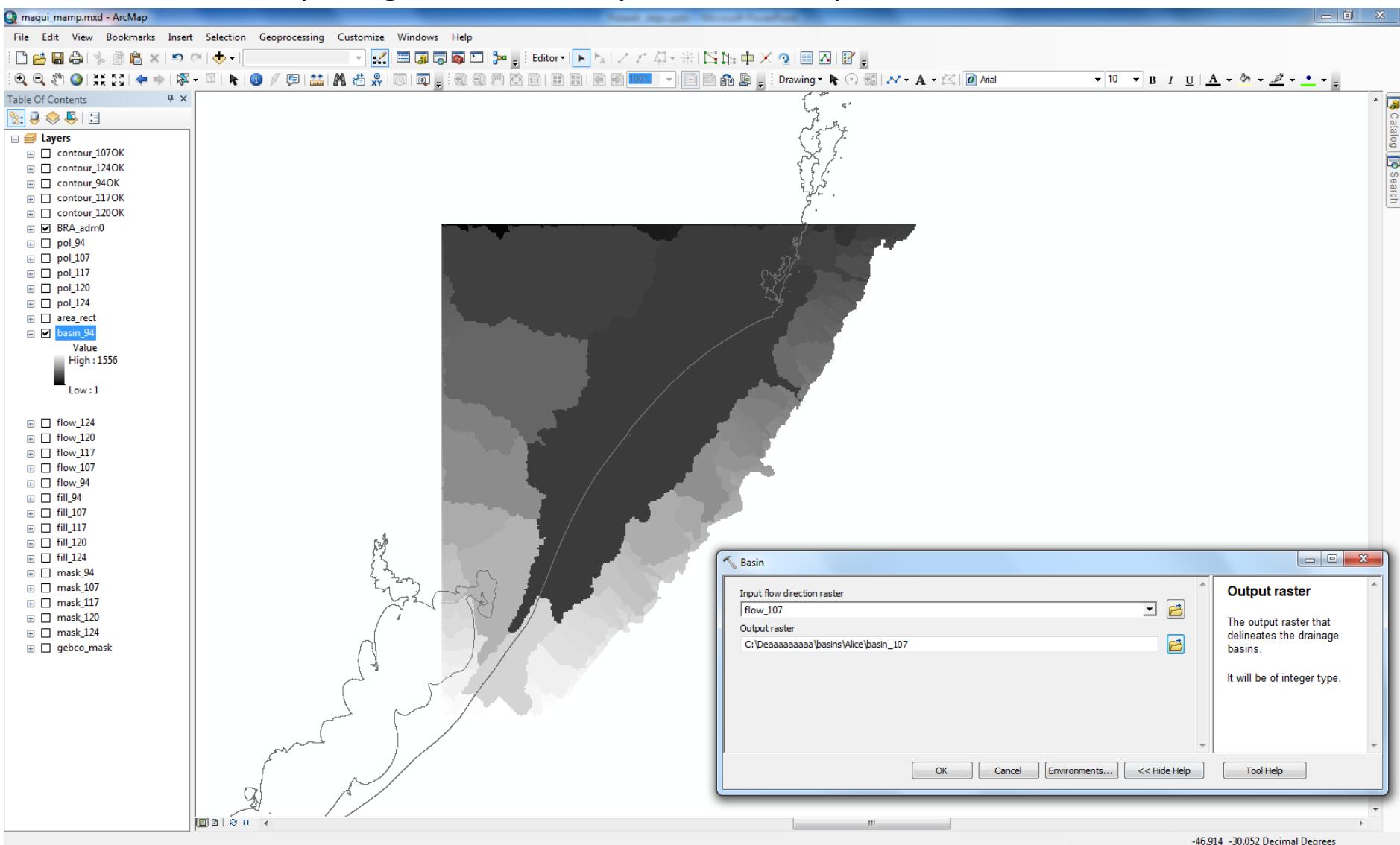


Almost there!

Using flow direction (Spatial Analyst) we will identify where the water is flowing.



And then finally using the Basin tool you can identify the basins ☺



## Changing color to visualize better going to the layer Properties

