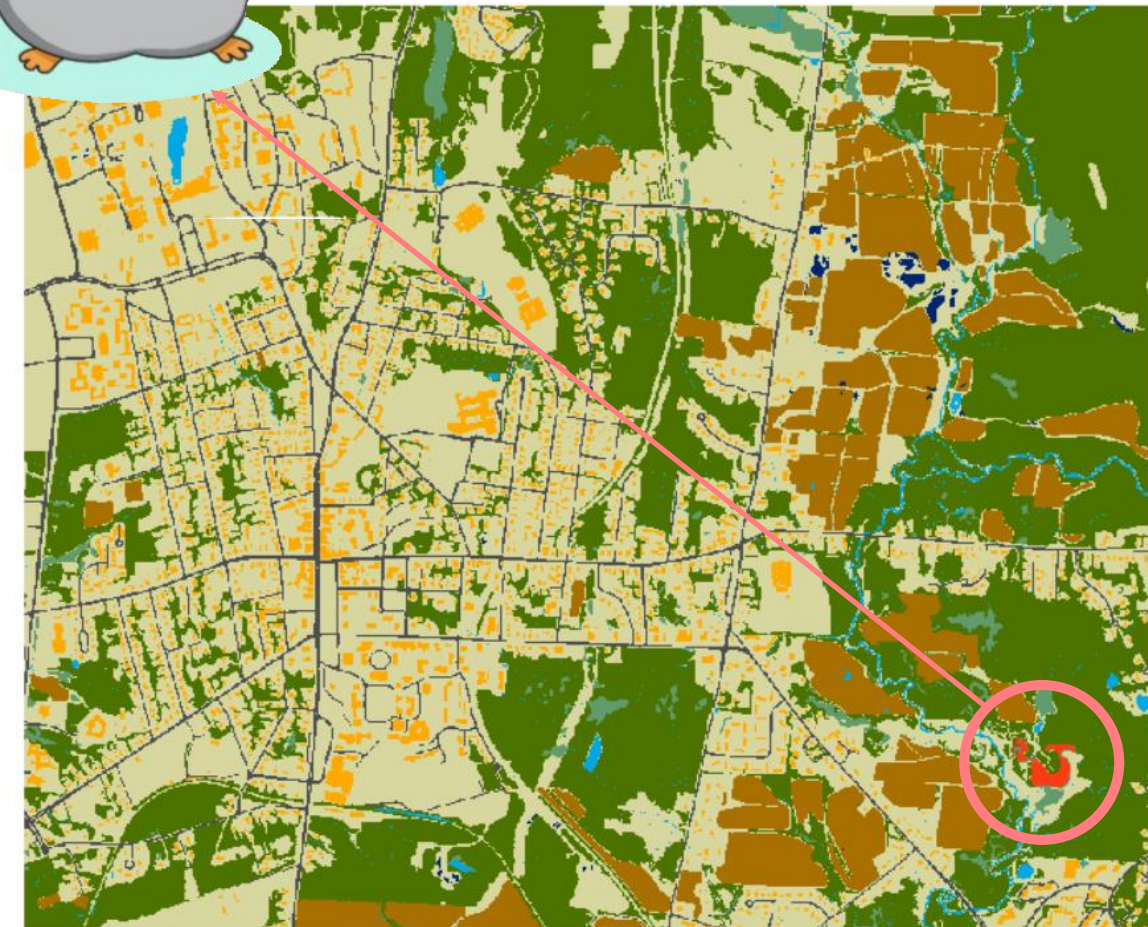


Where is my little penguin?

A letter from Aleah:



I am HERE!



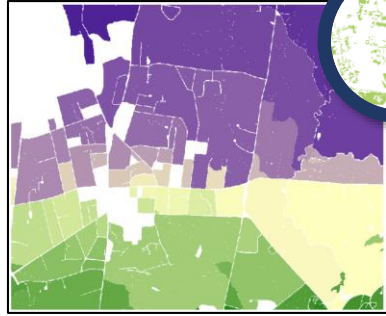
0 0.25 0.5 0.75 1 Miles



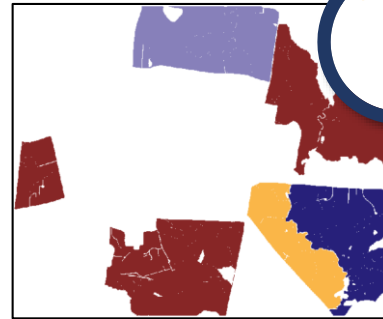
We make a Plan First



Get rid of roads and waters!



Find blocks that have forests!



Find the blocks with forests that contains large wetlands!

To find where the penguin is, we need to focus on the area that fulfill the following 4 criteria:

1. The area should not be divided by roads or water inside.
2. The area should contain both forests and wetlands.
3. The area should contain at least 4 wetlands which are larger than an acre.
4. The penguin was left on the largest wetland in that area.

Let's go and find the penguin for Myah!



target block!



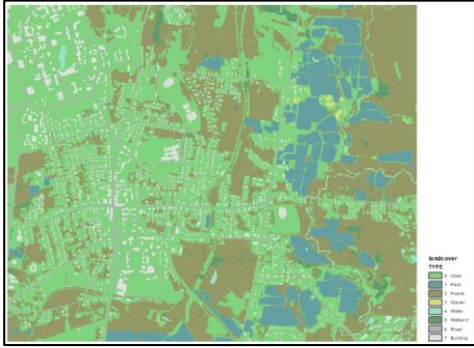
Find the largest wetland!



I'm here! lol

Step 1: Find blocks that not crosses by road and water, but contain forests!

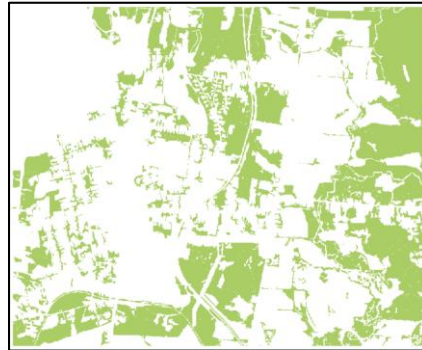
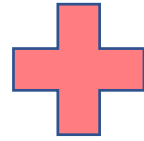
Land cover map



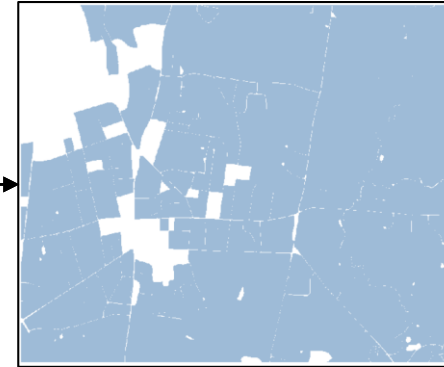
reclassify



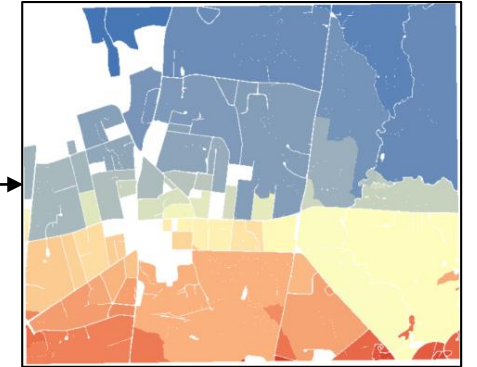
Blocks without water & roads



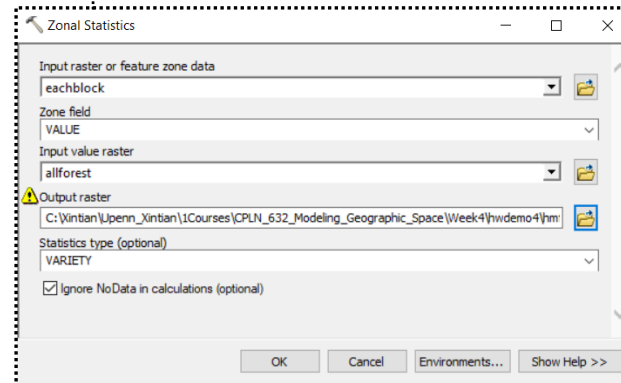
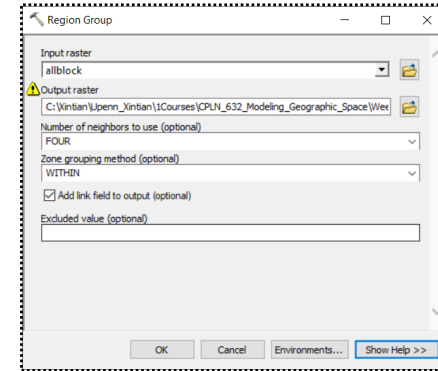
Zonal Statistics



All blocks without water
and roads, but have forests

Region
Group

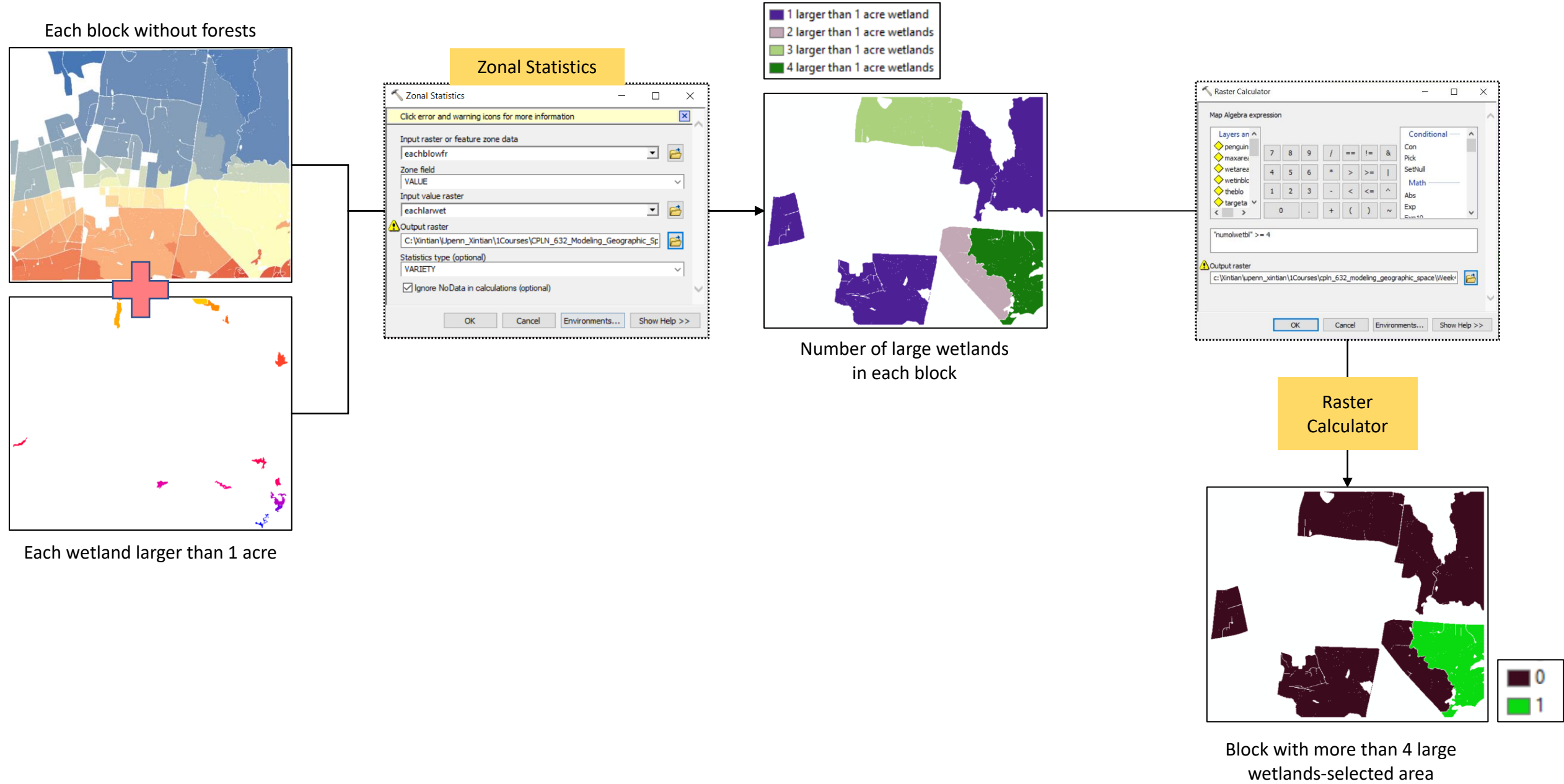
Each block without water & roads, but have forests



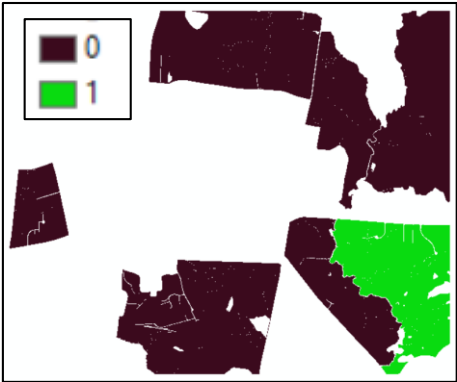
Step 2: Find wetlands larger than 1 acre!



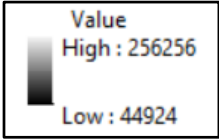
Step 3: Find the block that contains more than 4 large wetlands!



Step 4: Find the wetland!

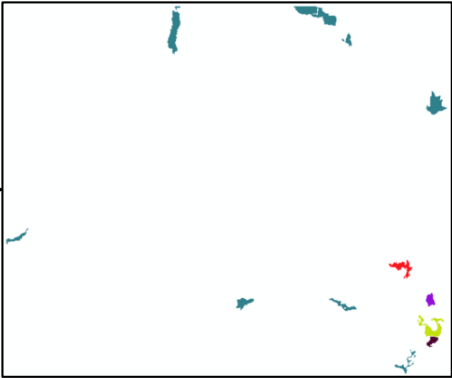
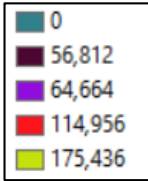
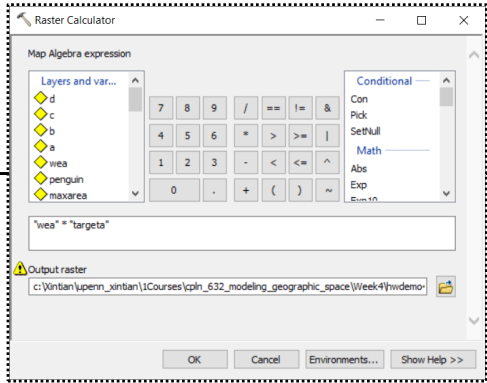


The selected block

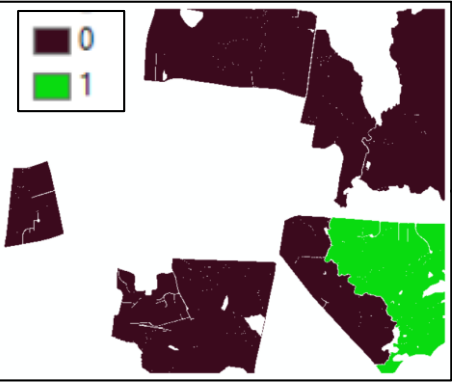


Area of Each Wetland
larger than 1 acre

Raster Calculator

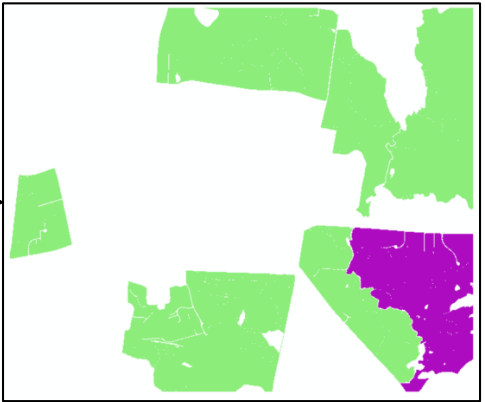
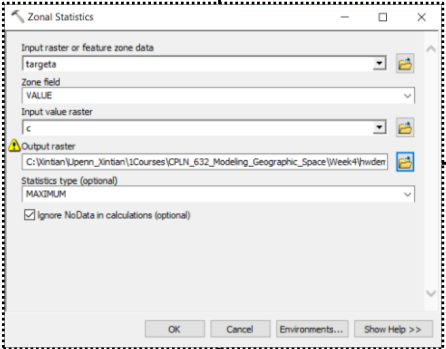


Area of each large wetland
inside selected block



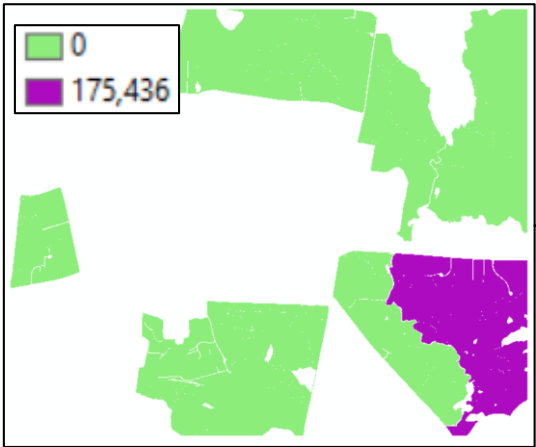
The selected block

Zonal Statistics

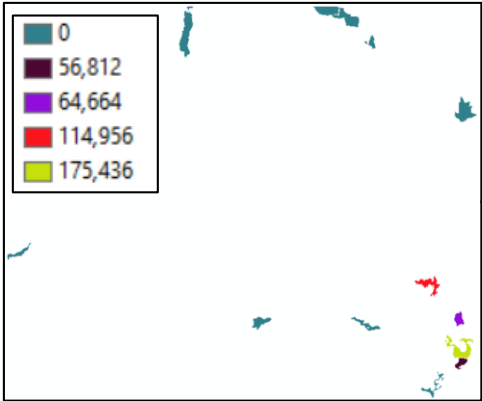


Set each pixel in the selected
block to the maximum **area** value
found to occur in any wetland
within that block.

Step 4: Find the wetland!

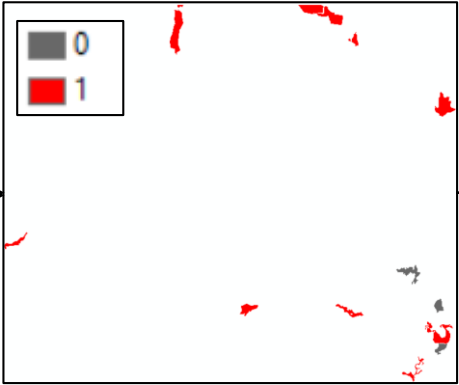
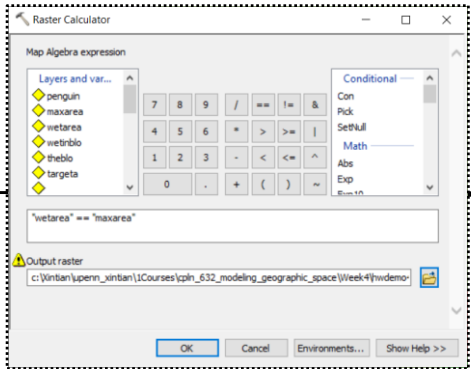


The selected block with the area value of the largest wetland in it

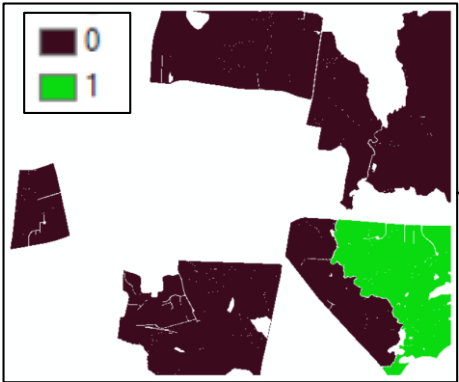


Area of each large wetland inside selected block

Raster Calculator

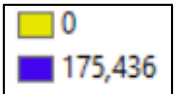
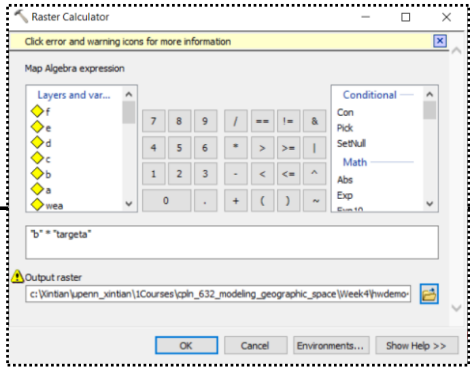


Wetlands that areas are equal to the assigned values of the blocks which it fall into



Block with more than 4 large wetlands-selected area

Raster Calculator



The largest wetland(selected)

Little Penguin is here!



Hi, Aleah and Myah.
Please be friends with
me.

