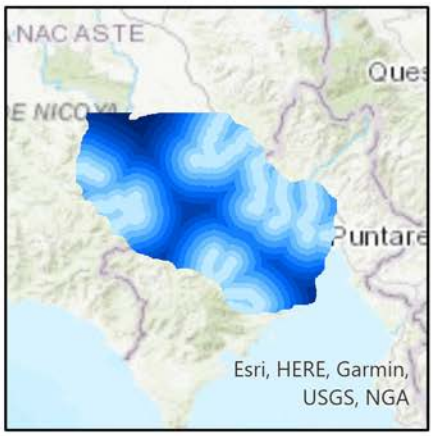
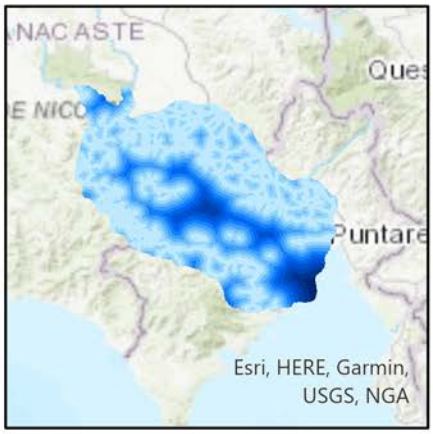
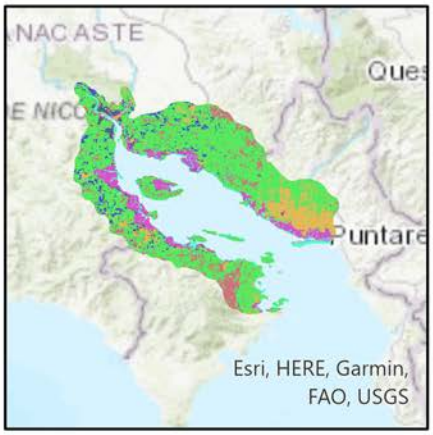
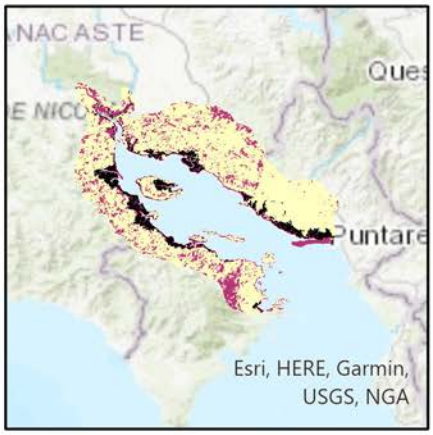
The Relative Site Suitability for a Sustainable Shrimp Farm in the Gulf of Nicoya, Costa Rica.

Homework Zile WU









Requirement 1.
Be in close proximity to salt water

Using the study area as the MASK. Distance Accumulation and Reclassify the bay area.

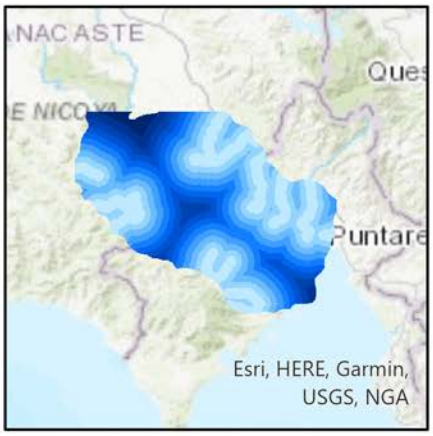
Requirement 2
Be located near rivers

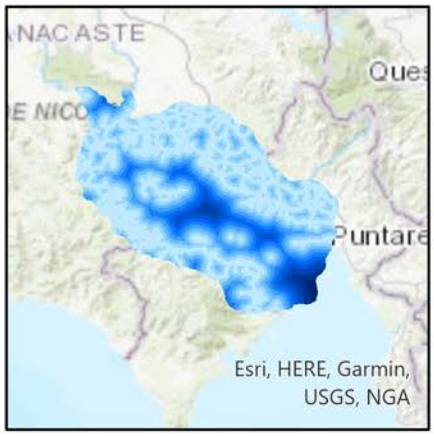
Using the study area as the MASK. Distance Accumulation and Reclassify the Rivers.

Requirement 3
Be located near roads

Using the study area as the MASK. Distance Accumulation and Reclassify the Roads.

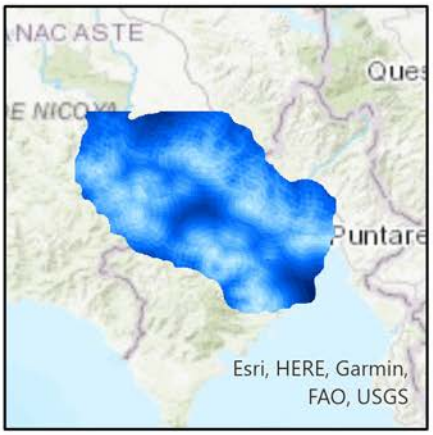
Requirement 4
Land Use Types
Most Suitable: shrub/scrub or used for agriculture purposes =2
Avoid: Mangrove forests =0
Others =1

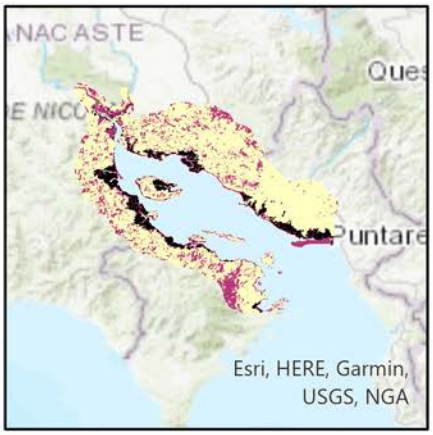




Raster Calculator
Sum Above
= Mapping below

Multiply by Land Use
and Reclassify
=Outcome

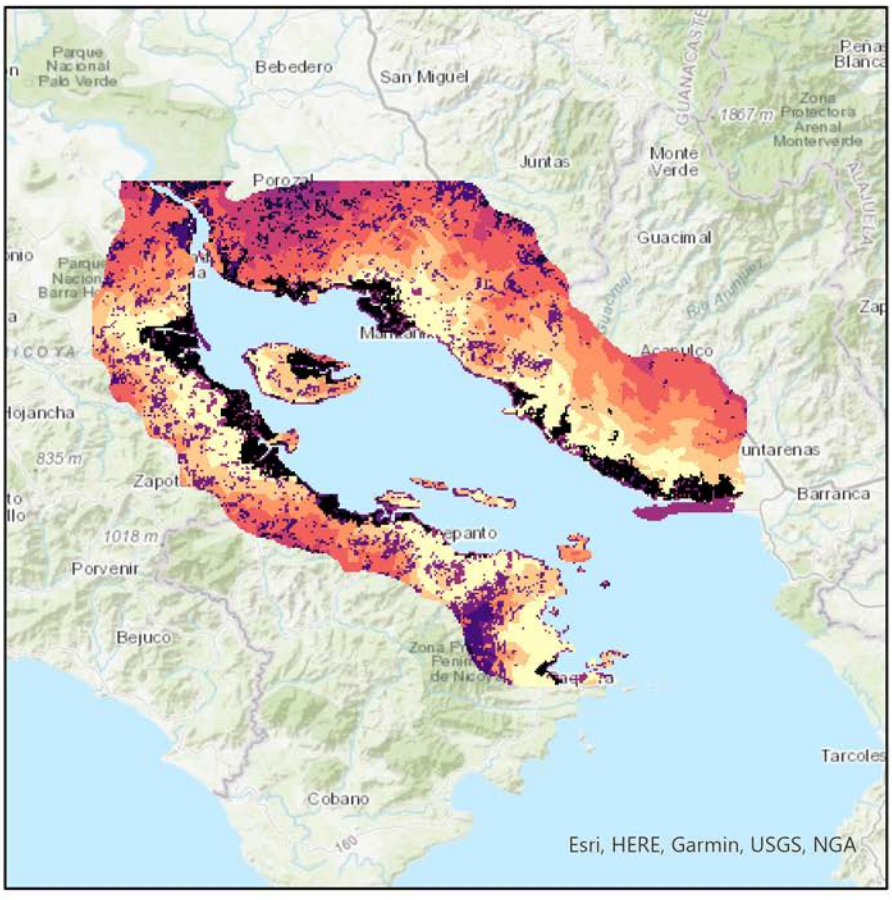




Outcome Explain:

Since the land use classification values are 0, 1, and 2, the summed distance index multiplied by these three values will result in a raster value representing the mangrove forest of 0.
The raster value of suitable land use will be doubled to ensure the reasonableness of the reclassify.

1_worst
10_best



Value
1
2
3
4
5
6
7
8
9
10

0 5 10 20 Miles