Exercise 6: Vector & Raster Data Analysis

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Lab Section #03

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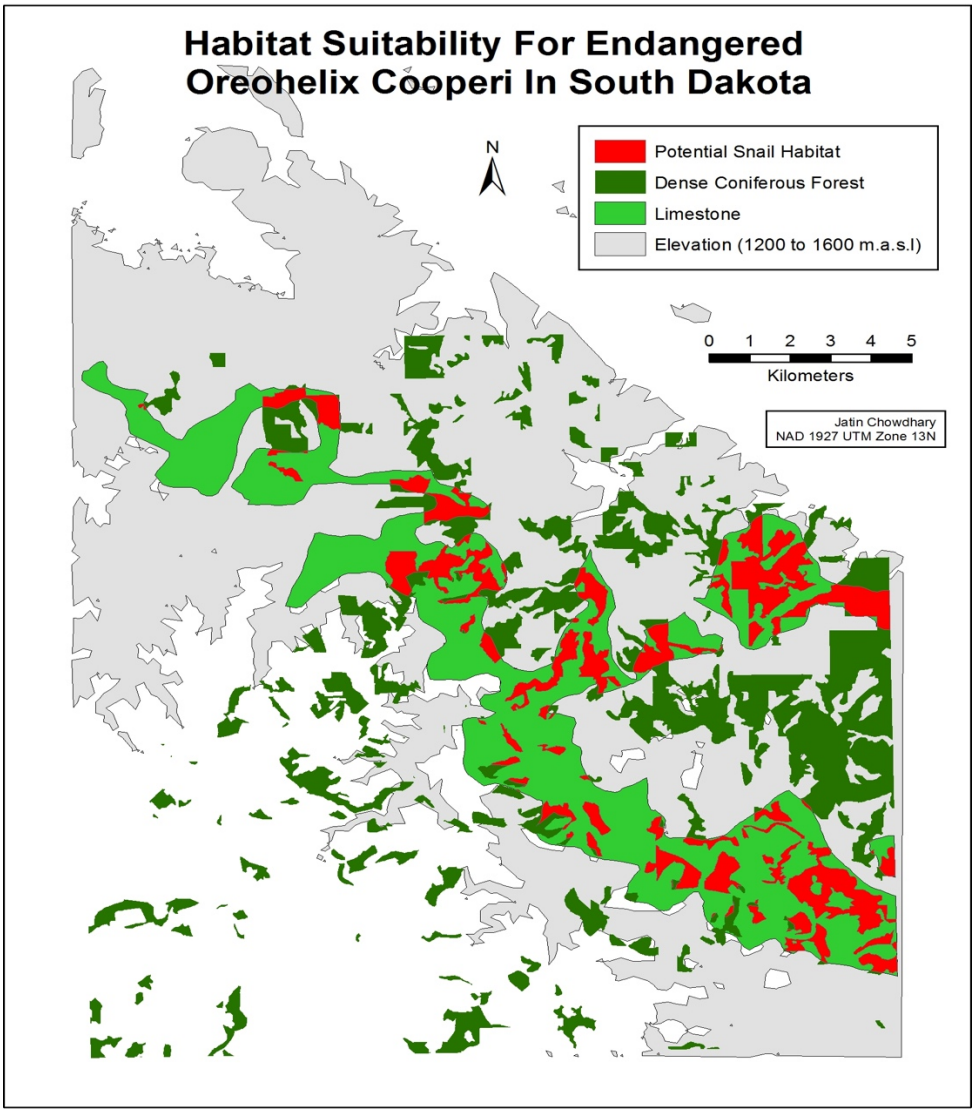
1. The coordinate system of all three layers is: NAD_1927_UTM_Zone_13N.
2. For my query I used "NAME" = "Madison Limestone".
3. For my query, I used "COV_TYPE" = 'TPP' OR "COV_TYPE" = 'TWS'.
4. 1750 features are selected from Vegetation.
5. For my query, I used "DENSITY96" = 'C'.
6. 555 features are selected from Vegetation.
7. I chose "DENSITY96" as a dissolve field because it is the defining attribute in this project, and because it is constant. By dissolving this field, a uniform and fluid shape file is created, which can now be used to perform the overlay and identify common areas.
8. 3 features comprise SnailHabitat.
9. More than one feature comprises SnailHabitat, because these 3 areas differ in length and area.
10. The area of potential snail habitat is 19.83304 km^2.
11.



12. 3.563548 km^2 of snail habitat will be lost by cutting down dense coniferous forests within 100m of roads.

13. The resolution of MSnailHabitat is 50m x 50m.

14. The potential snail habitat area is 19.6375km^2 (2500 x 7855 = 19637500m^2).

15. 4.1925km^2 of snail habitat will be lost by cutting down dense coniferous forests within 100 meters of roads.

16.