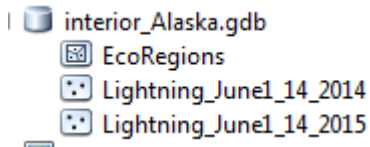


QUIZ#2: Lightning Density

Download and unzip the geodatabase *interior_Alaska.gdb* from http://dverbyla.net/nrm435/quiz_data_2018/



The point layers are June 1-14 lightning strike locations for 2014 and 2015. For each eco region polygon, compute the density of lightning strikes per 100 km².

In your geodatabase table with the following information: (density is number of strikes per 100 square kilometers)

EcoRegion_Name	Strikes_2014	Strikes_2015	Density_2014	Density_2015
Davidson Mountains	0	0	0	0
Kuskokwim Mountains	0	0	0	0
North Ogilvie Mountains	0	0	0	0
Ray Mountains	0	0	0	0
Tanana-Kuskokwim Lowlan*	0	0	0	0
Yukon-Old Crow Basin	0	0	0	0
Yukon-Tanana Uplands	0	0	0	0

Save all output in your geodatabase container *interior_Alaska.gdb*
Enter map document properties File→Map Document Properties..

Map Document Properties

General

File:

Title: NRM435 Quiz2

Summary: Lightning Density By Ecoregion Polygon

Description: Lightning density as strikes per 100KM2 by ecoregion polygon for the period of 1-14 June, 2014 and 1-14 June, 2015

Author: your name

Credits: your email

Tags: lightning

Save your work. Then create a map package: File→Share As→ Map Package...Save package to file (**do NOT check on Enterprise Geodatabase..that would be to store on a network**)

Include Enterprise Geodatabase data instead of referencing the data

Email me (dloverbyla@alaska.edu) your map package **mpk** file. (not your arcmap document .mxd file) as an attachment (extensions are hidden by default)

Grading:

All output to geodatabase container **interior_Alaska.gdb** 2pts

Lightning counts in each ecoregion 4pts

Correct area of each ecoregion in square KM 4 pts

Correct lightning density of each ecoregion in strikes per 100 square kilometers 3pts

Correct solution table 5 pts

Correct map package (mpk file) attached to email 2pts