

### QUIZ#13: Lake Depths

Download and unzip **ArcticLakes.zip** from the website:  
[http://dverbyla.net/nrm435/quiz\\_data\\_2018/](http://dverbyla.net/nrm435/quiz_data_2018/)

The geodatabase contains the following GIS layers:

- ArcticLakes.mdb
  - Lake\_Polygons
  - PointZ\_Bathymetry

The PointZ\_Bathymetry are 7,295 locations within lakes where the Z property represents depth from the water surface to bottom in meters.



The Z property is like the M property with linear referencing of measured lines. You can extract the Z property to your point attribute table using the Add Z Information geoprocessing tool.

The Lake\_Polygons represent the 28 lakes that were sampled in 2015 for bathymetry.

**All geoprocessing output needs to be stored in *ArcticLakes geodatabase container.***

Create a geodatabase table listing the LakeID, number of depth samples, deepest measured depth, and mean sampled depth within the lake for these 28 arctic lakes.

LakeID	LakeHa	Count	Deepest_Sample	MeanDepth
0	0	0	-6.3	0
0	0	0	-6.1	0
0	0	0	-5.5	0
0	0	0	-4.6	0
0	0	0	-4.6	0

Email me your .mpk map package file.

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

Include Enterprise Geodatabase data instead of referencing the data

Also share your map package to a folder location.

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