**NAME:**

**DATE:**

**ESRM 433 or SEFS 533:**

**QUESTION 1: There are two ways you can connect to Madrona from your personal computer, what are they? (This isn’t asking about the different server options (i.e. SEFS Spatial or Students) but rather making the initial connection)**

**QUESTION 2: On public computers and computers in different computer labs across campus, what is the web address of the HTML-based web client you can use to log onto Madrona?**

**QUESTION 3: If you need to work on an assignment that uses a program like Google Earth Pro or ArcGIS, what option should you pick when logging onto Madrona?**

**QUESTON 4: TRUE or FALSE. You can store unlimited data on Madrona no problem and you never need to delete anything.**

**QUESTION 5: How many points are in the river - Cloud?**

**QUESTION 6: When you import the image, it defaults to coloring the scan by the PointSourceId. This results in bands of color in the image. If a larger scale image, then these bands would almost appear as stripes. If you color the points by GPSTime, the colors may change, but the “stripes” are still present. What causes these stripes?**

**QUESTION 7: Submit a screenshot of one of the other point clouds (so don’t submit a screenshot of river.las) rendered in a cool way.**

**QUESTION 8: Submit a screenshot of a new point cloud (so don’t submit a screenshot of river.las or of the point cloud used in question 6) inside the tool window with an updated grid. Don’t submit the geotif, just a screen shot like the one here. Briefly justify your Grid step size, and what you did with the empty cells (i.e. min, max, average, interpolate). Make sure your Projection direction is set to Z.**

**QUESTION 9: Why does the point cloud colored by intensity resemble a black and white photo?**

**QUESTION 10: Include a ScreenShot of your final image. Include the name of the DataSet, how many points were in the original data set and how many points were in the cropped section.**

**GRADUATE STUDENT**

Download a point cloud of a different area and post a screen shot onto the lab discussion board on canvas. Perhaps a mountain top or hunk of primordial forest or an iconic building? Describe the area and location. Provide the coordinates of the area. (lat/long or utm or state plane are all fine, just specify which it is).

You can download the data from the WA Lidar portal or from one of the site listed here:

<https://gisgeography.com/top-6-free-lidar-data-sources/>

<https://prd-tnm.s3.amazonaws.com/LidarExplorer/index.html#/>