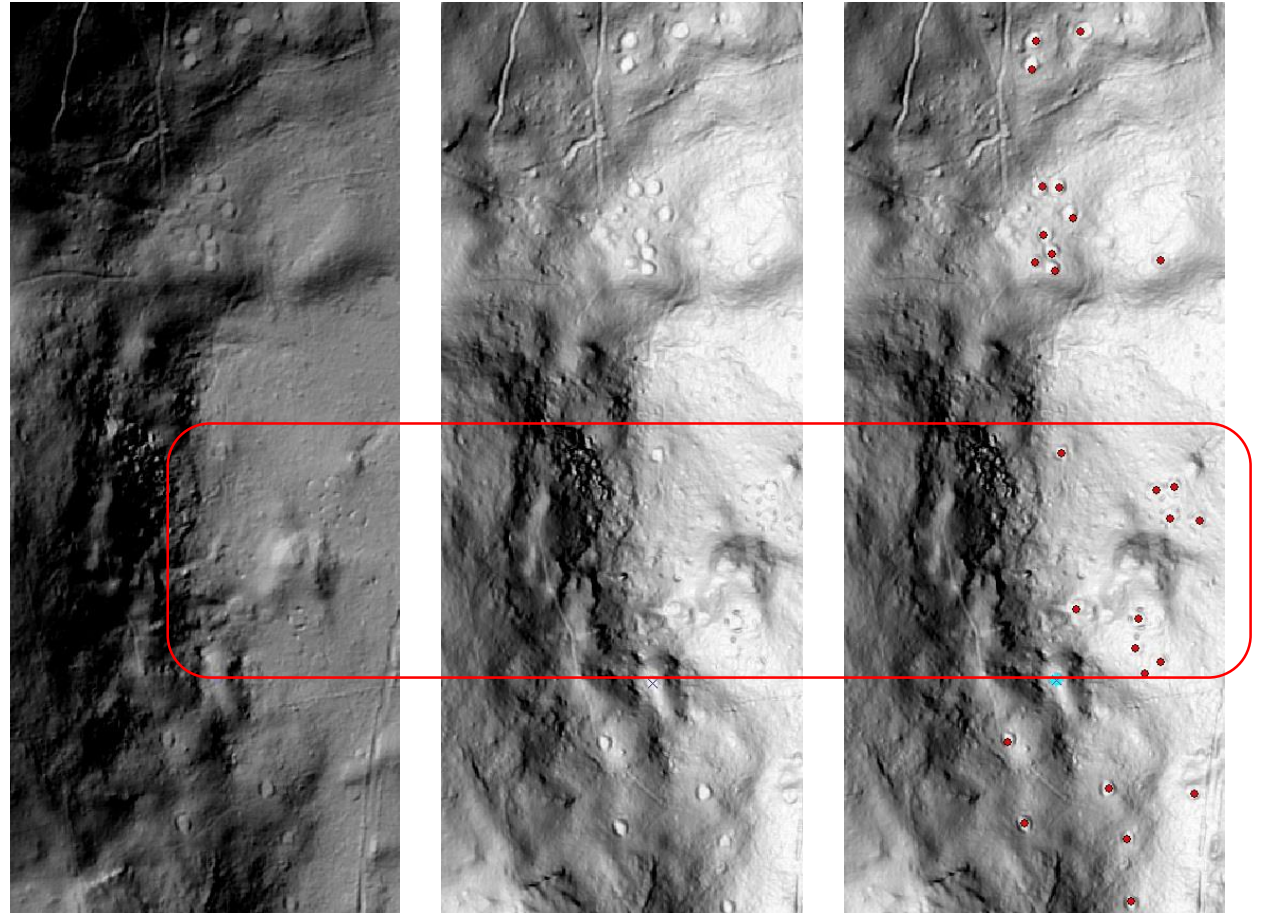


Zachary Raslan Final Report

Geomorphology and Earth Processes Research Team

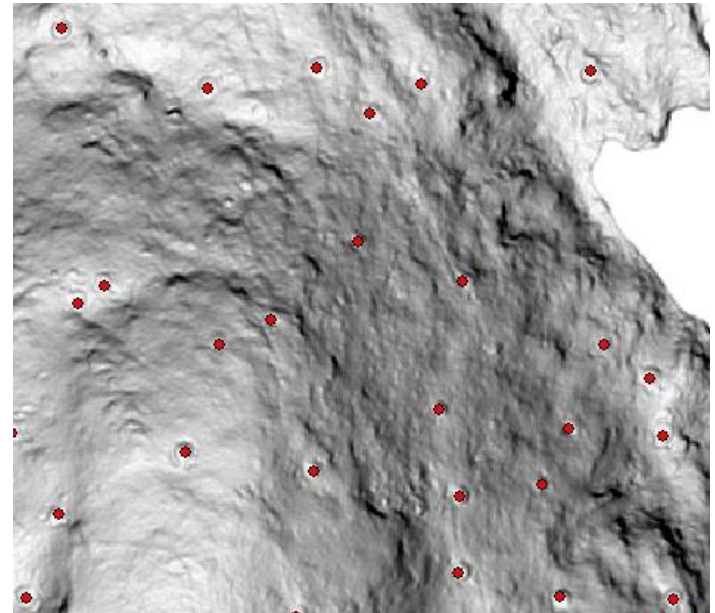
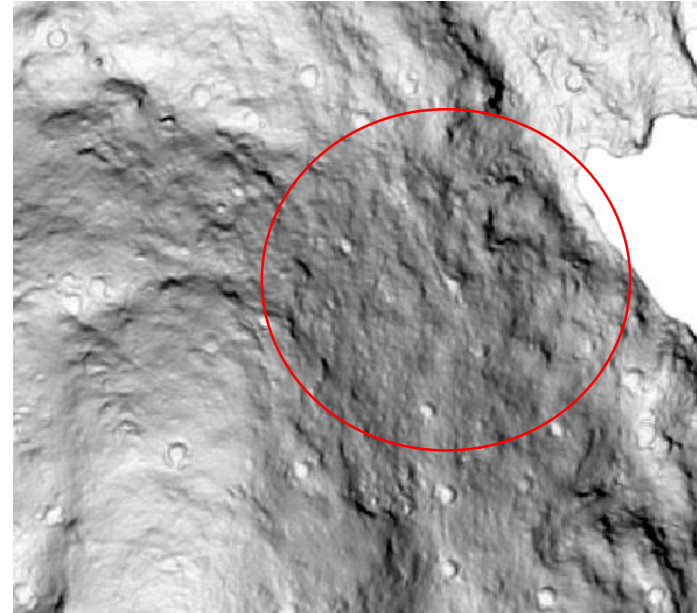
Hearth Border Varieties

- Variation in the outlines of charcoal hearths include solid circle, dotted circle, semi circle, small circle, large circle
- These three pictures outline the process of identifying the hearths
- First using the hillside raster, then the slope raster and finally the slope raster with the locations I decided were hearths
- Indicators that questionable circles are hearths include clustering, proximity to road or path ways, and location (hillside, valley, etc...)

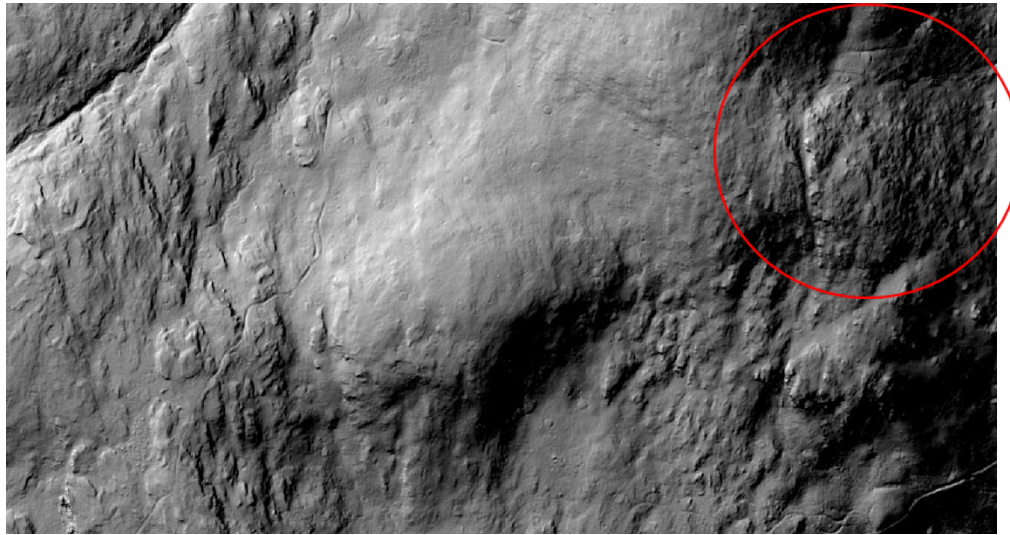


Hearth Borders

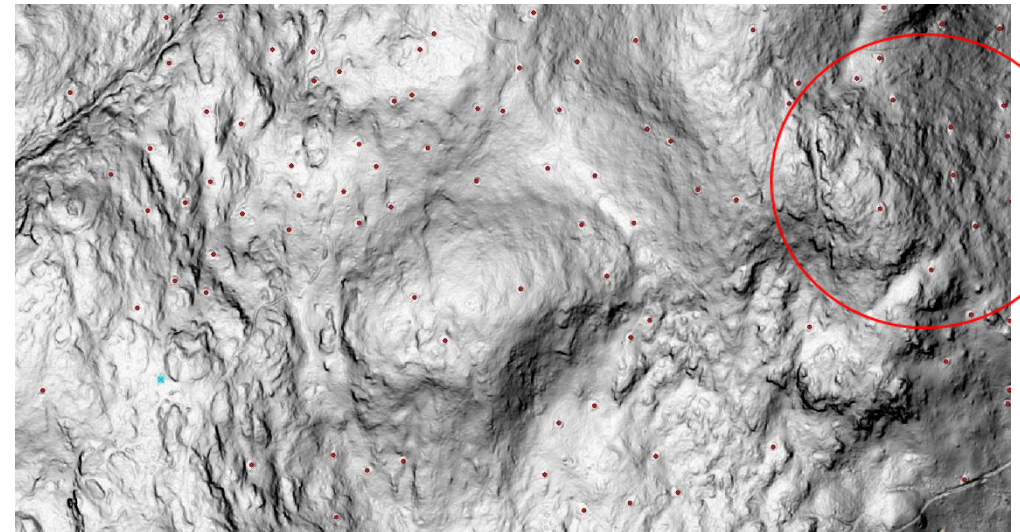
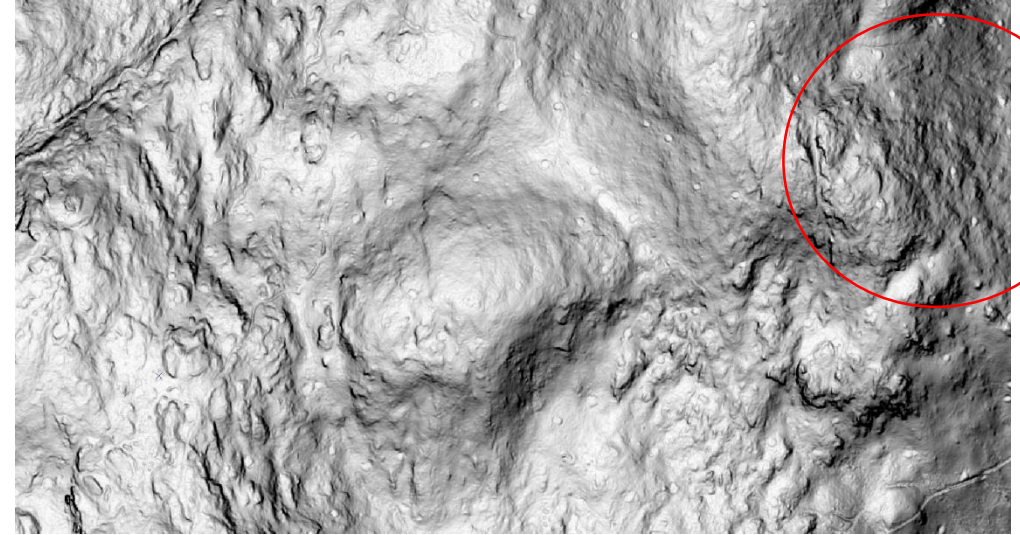
- This is an example of when context can be the difference between recognizing hearth or not
- The circled hearths, if not clustered like this, would not have stood out to me as hearths
- Due to terrain and context I was able to identify these hearths and digitize them



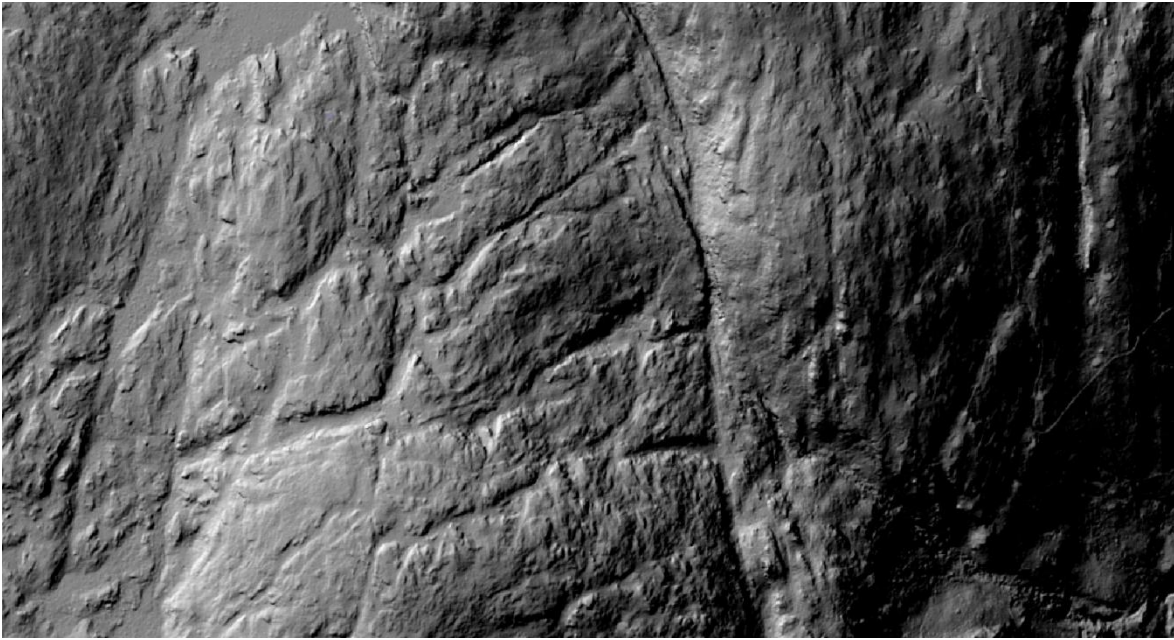
Terrain and Hearth Border



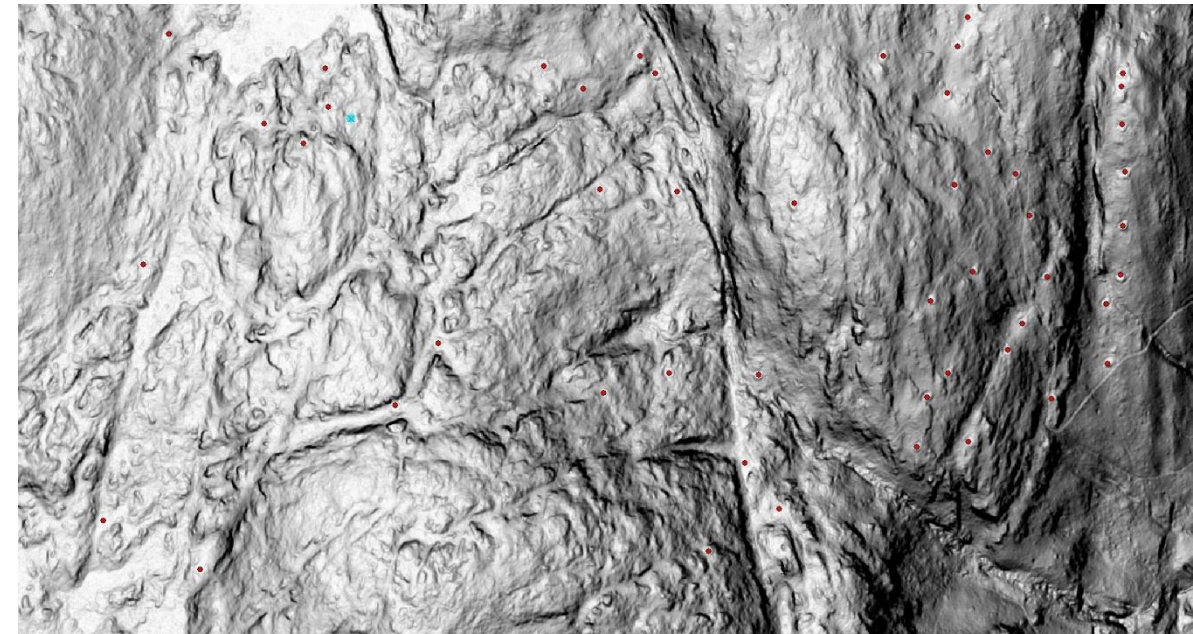
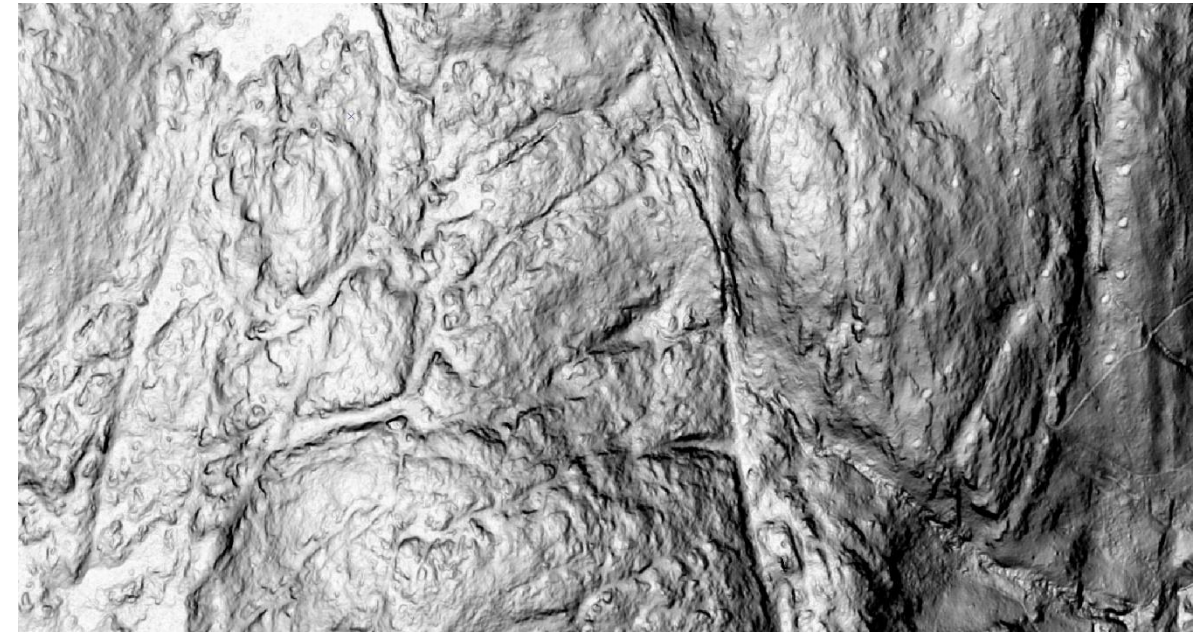
- This is another example of how terrain can hide these hearths and stresses the importance of having multiple rasters to compare and contrast
- The circled area are examples of hearths that are less pronounced but are consistent and usually on hillside



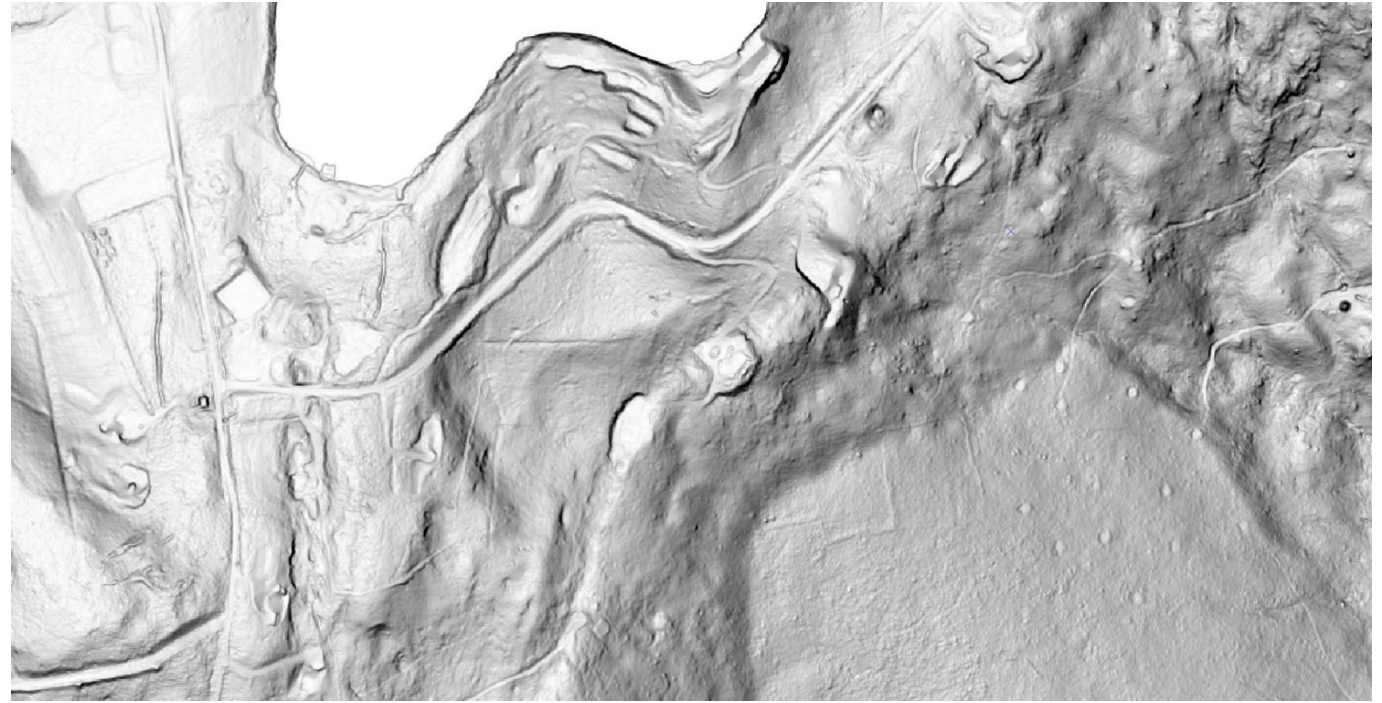
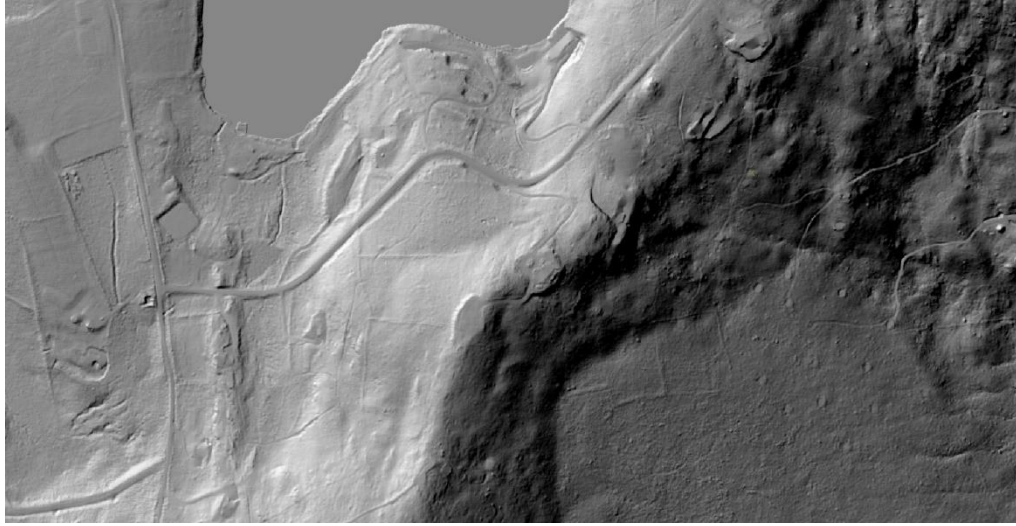
Terrain



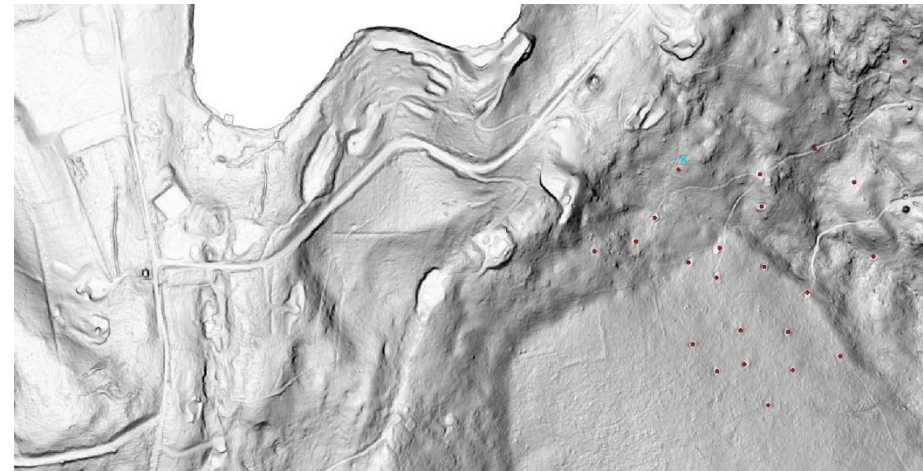
- Variety of terrain can pose interesting challenges in identifying and digitizing charcoal Hearths
- In this case, it would not have been possible for me to locate and digitize a large amount of hearths without the different rasters to compare and contrast the landscape



Terrain



- I found that it was unusual for hearths to be located in areas like this
- Most often, the hearths were located on hills – most likely because it is easier to drag trees downhill than it is to drag them up or horizontally



Proximity to Roads

- During this project, I realized that many of these hearths are located near what look like some kind of road ways or paths
- In this case, it seems that there are several hearths directly in the road
- The fact that they are clustered so close together is an indication that they are hearths
- It also makes sense to me that the hearths are located near or on roads because of the access to things like machinery or horse carriages

