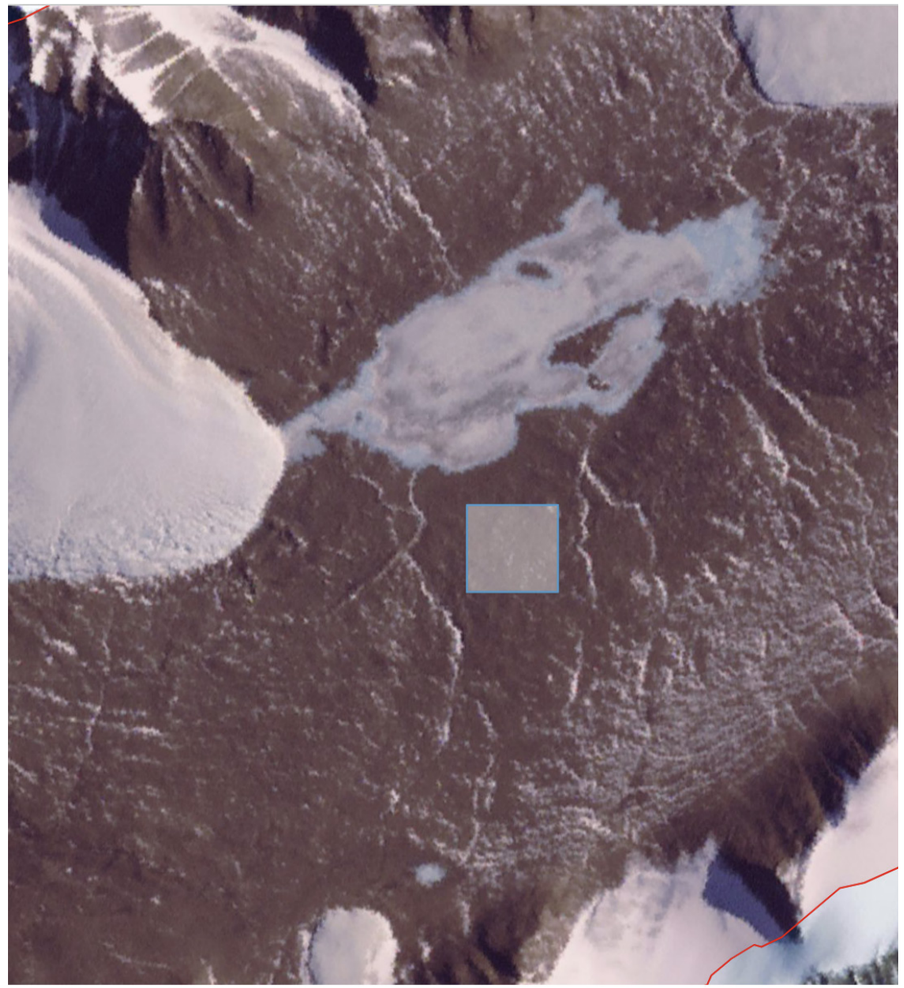
Journal 3

2/7/25

Megan Dalton

The site I had selected was Mars, which ended up being a difficult Topology to find public access to. I was able to find a site through the University of Arizona that had DTM of Mars. Unfortunately I was unable to figure out how to convert a DEM for free. I then decided to shift my focus to finning a location on Earth that could simulate the terrain of Mars. One of those areas was the McMurdo Dry Valleys located in Antarctica. Thankfully OpenTopography had a very in depth scan of this area with lidar. To the right you can see the full extent of the McMurdo Dry Valleys. I ended up taking the point clod data from the East due to the more flat and crater like conditions.



Journal 3

2/7/25

Megan Dalton

The McMurdo Dry Valleys offer a lot of unique terrain to chose from. For the sake of this project I ended up selecting a spot to the East. I had tried a few different locations to play with the scale and the amount of slope. The area I selected has a relatively flat area, especial when compared to the rest of the terrain. The goal with this would be to mimic the center of a crater located on Mars.

While I was unable to gain the actually topography of Mars, the solution of the McMurdo Dry Valleys allows for a greater understanding of how to get topology for future projects.