



Typology: Overnight Hiking Shelter

Location: Lake Clark National Park and Preserve, Alaska

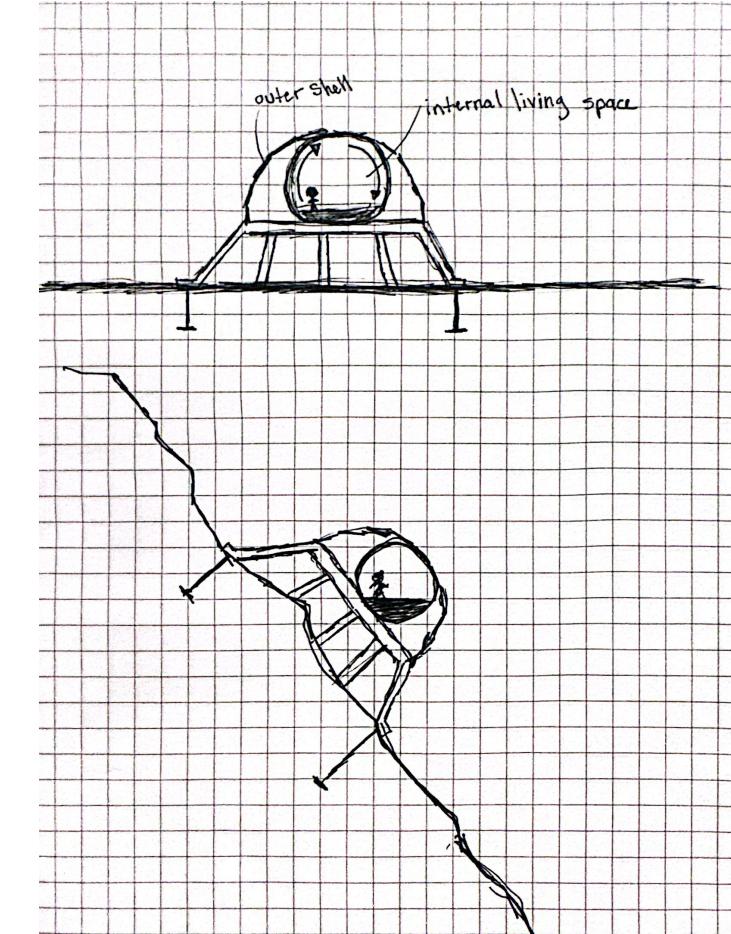
Site



Precedent



Sketches



For this project I want to design a “walking” shelter in Lake Clark National Park in Alaska. The structure would have motorized legs that would allow it to move throughout the park. The design itself would contain an outer and inner shell, the inner shell would be attached using gyroscope technology allowing the floor to stay parallel no matter the orientation of the outer shell.

LiDAR Site Analysis

To respond to growing needs for high-quality elevation data across the United States, the [U.S. Geological Survey 3D Elevation Program \(3DEP\)](#) is systematically completing acquisition of nationwide lidar (IfSAR in AK) by 2023 to provide the first-ever national baseline of consistent high-resolution elevation data – both bare earth and 3D point clouds – collected in a timeframe of less than a decade.

USGS is currently making 3DEP lidar point cloud data available via an Amazon Web Services (AWS) S3 Requester Pays Bucket, and as an AWS Public Dataset. To learn more about 3DEP and AWS see this USGS press release: [USGS 3DEP Lidar Point Cloud Now Available as Amazon Public Dataset](#).

Consistent with OpenTopography's mission of making high resolution topography data easier to discover and use, we are leveraging the USGS 3DEP move to AWS to provide a layer of value-added services that enable our users to subset, grid, download, and/or visualize any portion of the USGS 3DEP collection.

Total points: 14,054,081,536 pts

[Full Metadata](#) ↗

Survey Area: 11,521 km²

[Use Constraints](#) ↗

Point Density: 1.22 pts/m²

[Use License](#) ↗

Survey Date: 05/21/2008 - 09/22/2008

Publication Date: 09/23/2014

Other Available Data Products:

[3DEP 1 meter hydro-flattened DEMs](#)

[usgs.entwine.io](#) ↗

[Bulk Download](#) ↗

