OpenTopography

Metadata Report

<u>Project Name</u>   Survey of Gloss Mountain State Park, Oklahoma,
November 7 2021

Summary

This Unoccupied Aerial Vehicle (UAV) survey was flown as part of a graduate class exercise at the Boone Pickens School of Geology at Oklahoma State University. The purpose was to provide students experience in producing with a high-resolution orthomosaic, Digital Elevation Model (DEM), and Point Cloud of an area. Moreover, the purpose was to provide high-resolution data of the state park, which is frequently visited in Oklahoma. The geological formation outcrops as a mesa defined by sub-horizontal strata of shale capped by a more resistant layer of gypsum.

Personnel

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Site Information

- Site description: The area shows a mesa defined by sub-horizontal strata of shale capped by a more resistant layer of gypsum.
- Site objective: To capture high-resolution orthomosaic, Digital Elevation Model (DEM), and Point Cloud of the State Park.
- Site conditions: The survey was conducted during a sunny and windy day.

Survey Results

- Equipment used: We used a DJI Phantom Pro 4 with a camera

Products

- Date of dataset collection: November 7 31 2021
- Coordinate system of datasets: WGS84
- Spatial resolution: 3.84 cm/pix
- Data processing methods: Agisoft Metashape Professional