

Flight summary June 30th, 2022

Boise State University
Created by Anna Roser

Soda 2, Jordan Valley

Overview:

- This site is located approximately 1.5hrs from Boise off HWY 95.
- This is the 2nd set of flights for this site. We re-flew it because of poor weather conditions on the first trip. However, due to battery restrictions, the mavic flight polygon is smaller than the established AOI.
- Anna Roser was Pilot in Command; Andrii Zaiats was on site as visual observer.
- Mission objective was to collect UAS imagery with the goal of creating high spatial resolution point clouds for shrub height measurement, and collect multispectral imagery to assist with differentiating plant types.

Sensor	Above Ground Level	Ground Sampling Distance	Camera Angle	Software	Cross grid	Number of Images	Flight Speed	Forwardlap/Sidelap	Number of batteries	Start/End	Wind Max & Avg
Mavic RGB	44m	1cm	5degrees + off nadir	Map Pilot	Yes, 20degree offset	3.86	2m/s	73/80	X3	2:16pm-2:56pm	5.5m/s 2.3m/s
P4 Multispec	38m	2.0cm	90	DJI GS Pro	No	556	1.7m/s	80/75	2x	1:18pm-1:54pm	5.9m/s 2.1m/s

RTK TopCon Notes

Start	End	Vert hgt (m)	Number of GCP
NA. There are 9 nails that were RTK'd on June 16 th . Bucket lids placed on nails.			9

Notes:

- UAS: Mavic 2 Pro. RGB Hasselblad 20MP sensor and DJI Phantom 4 Multispectral (5 band)
- Weather: Clear skies, and constant light breeze with strong gusts.
- Mavic started mission but after a few minutes, I realized it wasn't taking pictures. I had to restart the mission and use a smaller footprint because of battery limitations.

Data location:

- Images are on owncloud and external drive