Flight summary June 10th, 2022

Boise State University Created by Anna Roser

Near Glenns Ferry, ID

Overview:

- This site is located approximately 1 hour from Boise off East I-84.
- Anna Roser was Pilot in Command for all flights.
- Anna, Cayden, Lena on site.
- 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.

Site	Sensor	Above	Ground	Camera	Software	Cross	Number	Flight	Forwardlap/	Number	Start/End	Wind
		Ground	Sampling	Angle		grid	of	Speed	Sidelap	of		Max &
		Level	Distance				Images			batteries		Avg
Cold – burn	Mavic	44m	1cm	5degrees	Мар	Yes,		2m/s	72/80	HP6,	11:35am-	5.2m/s
boundary	RGB			+ off	Pilot	20degree				HP8, C2,	1:34pm	2.0m/s
				nadir		offset	814			C3, C1,		
										Hp, 4		
Cold – burn	P4	38m	2.0cm	90	DJI GS	No		1.7m/s	80/75	2x	10:53am-	4.4m/s
boundary	Multispec				Pro		543				11:23AM	2.0m/s

RTK TopCon Notes

Start	End	Vert hgt (m)	Number of GCP
9:25am	2:00pm	1.7615	9 bucket lids

Notes:

- UAS: Mavic 2 Pro. RGB Hasselblad 20MP sensor and DJI Phantom 4 Multispectral (5 band)
- Weather: lots of clouds. Difficult to avoid changing light conditions. Became more windy as time goes on.

- Mavic flights include a crossgrid and 20degree diagonal flight. SD card filled during the diagonal flight so I restarted with a new SD card.

Data location:

- Images are on owncloud and external drive