



Payload 2 Daily Flight Report



Date: 2020-07-06

Flight Campaign ID: P2C1

Airport, FBO ID, City: Bozeman Yellowstone International Airport (KBZN) - Belgrade, MT

Domain: 12 (Northern Rockies)

Sites Flown: YELL (Yellowstone Northern Range), N12A (D12 Nominal Runway)

Days left in Domain: 11

Report Author: Ivana Vu

Lidar Operators: Ivana Vu

Spectrometer Operators: John Adler

Pilots: Will Matthews, Chad Evans

Flight Hours: 02:08

Hours until maintenance: 61.62

GPS Instruments: 04 - AOP_KBZN, U-MAWY, U-P720

Summary

Crew started collecting data over the airshed priority lines at YELL until clouds began to form, then moved to the western side of the box until getting clouded out there as well. Seven lines were collected in "green" conditions.

Concerns

Hotel Kit is having connectivity issues and wifi card will be changed when the Payload returns to Boulder. MIFI Jetpack will be used as a backup if necessary.

Comments

- Nominal Runway completed for D12
- Flight 2020070214 extraction troubleshooting will continue tomorrow morning

Daily Coverage

Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	11-50%	>50%

D12|YELL

Line #	1	49	50	51	52	69	70	71
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Yellow	Green						

Total number of lines flown: 8

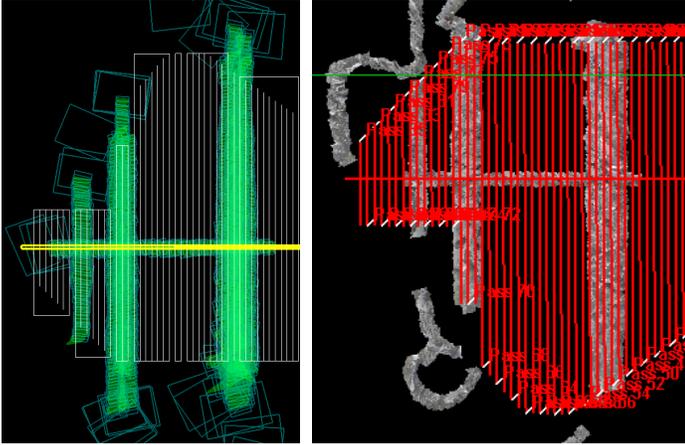
D12|N12A

Line #	1
Lidar	✓
Spectrometer	✓
Camera	✓
Cloud Cover	Green

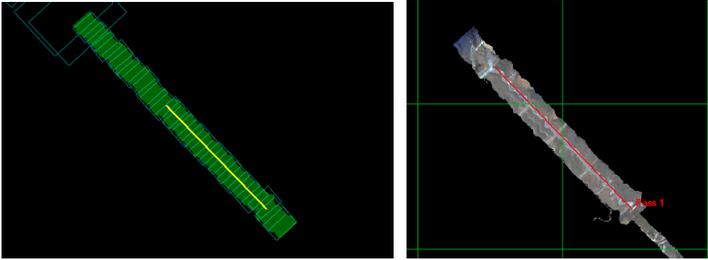
Total number of lines flown: 1

Flight Screenshots

YELL



N12A



Pictures

NEON's Yellowstone Northern Range site



Cumulative Domain Coverage

D12 | N12A (D12 Nominal Runway)

1

Flown: 100% (1/1)

Green: 100% (1/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

D12 | YELL (Yellowstone Northern Range)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85															

Flown: 28% (24/85)

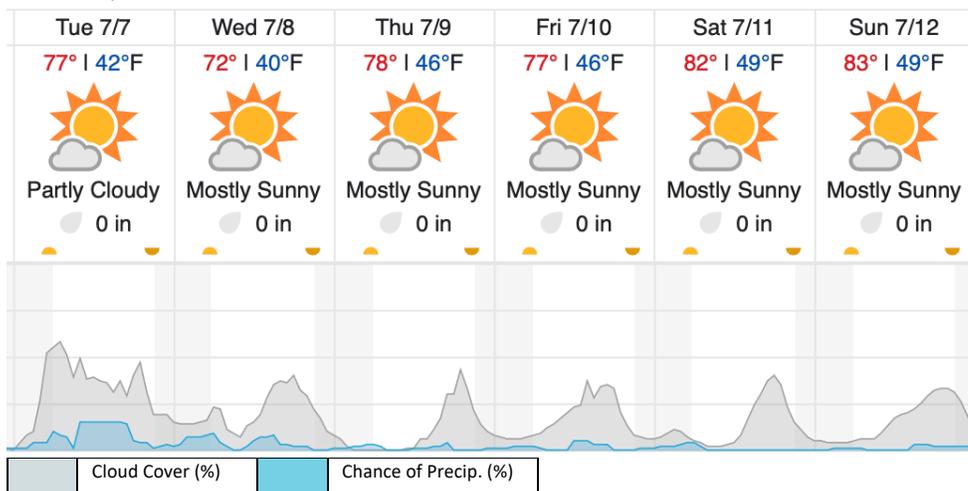
Green: 14% (12/85)

Yellow: 14% (12/85)

Red: 0% (0/85)

Weather Forecast

Gardiner, MT



Flight Collection Plan for 6-17 July 2020

Flyority 1

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12_YELL_C1_P1_v4_650AGL_Max.pln

On-station Time: 0950 – 1700 Local / 1550 – 2300 UTC

Crew: John Adler and Ivana Vu