



## Payload 3 Daily Flight Report



**Date:** 2023-07-15

**Flight Campaign ID:** P3C1

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

**Aircraft:** N934MU

**Domain:** 12 (Northern Rockies)

**Sites Flown:** YELL (Yellowstone Northern Range)

**Days left in Domain:** 5

**Report Author:** Mike

**Lidar Operators:** Mike

**Flight Hours:** 02:52

**Spectrometer Operators:** Mitch

**Hours until maintenance:** 102.98

**Pilots:** Will, Justin

**GPS Instruments:** 02 - KBZN, U-MAWY, U-P720

### Summary

An area of high pressure and somewhat drier conditions provided a window for a green collect today. Cumulus clouds did develop into shadow producers, so two hours into the survey the flight was ended. There is another promising window of clear weather forecast for this upcoming week.

### Concerns

None

### Comments

Elissa arrives to Bozeman today.

### Daily Coverage

Estimated Cloud Cover Key

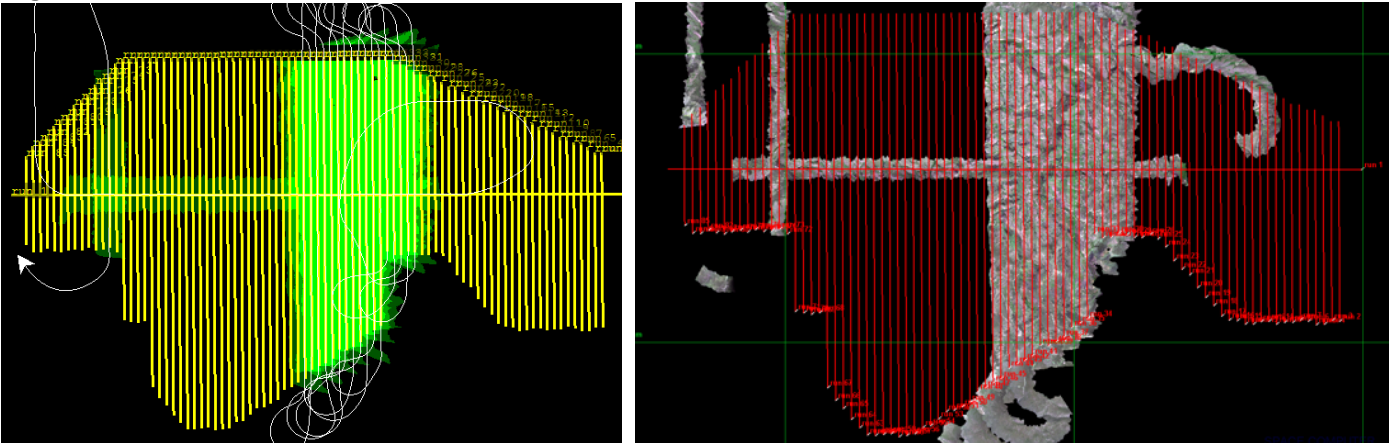
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D12|YELL

Line #	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	73
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																		

Total number of lines flown: 18

Flight Screenshots



Pictures



Looking to the NE where a ridge of smoke can be seen on the transit to the site. High pressure kept it out of our area.

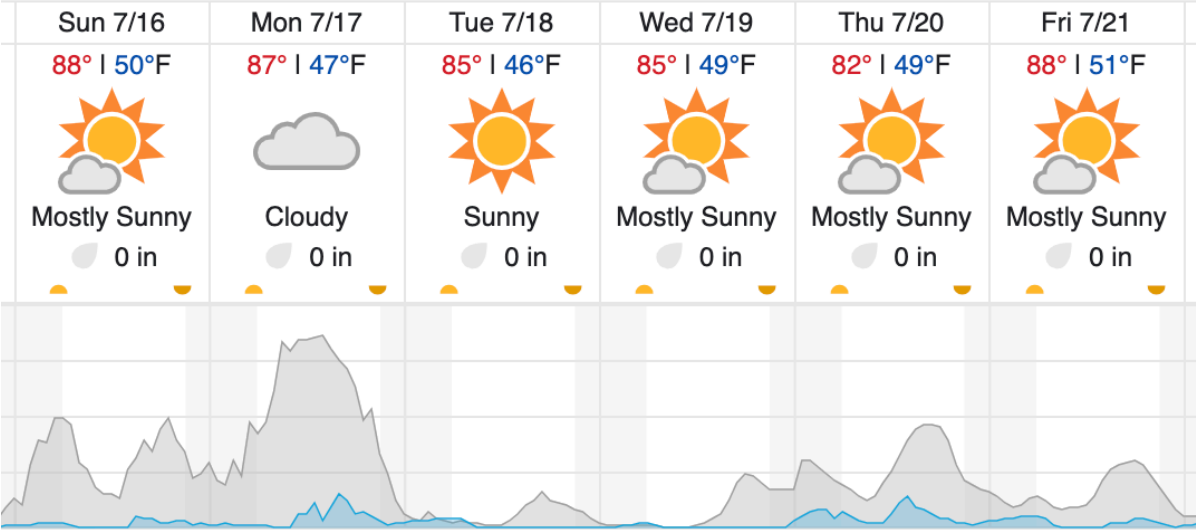
Cumulative Domain Coverage

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: 56% (48/85)  
Green: 53% (45/85)  
Yellow: 4% (3/85)  
Red: 0% (0/85)

Weather Forecast  
Gardiner, MT



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for July 16, 2023

Flyority 1

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12\_YELL\_C1\_P1\_v3\_Q780

On-Station Time: 16:00 UTC/ 10:00 L

Crew: Mitch (Lidar), Mike (NIS)