

## Payload 3 Daily Flight Report

**Date**: 2025-07-14

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 12 (Northern Rockies)

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

Days left in Domain: 7

**Report Author**: Cameron

**Lidar Operators**: Cameron **Flight Hours**: 02:19

Spectrometer Operators: Mitch Hours until maintenance: 122.68

**Pilots**: Justin, Troy **GPS Instruments**: U-MAWY, U-P048, U-P720

### **Summary**

Despite an initial forecast of clearing morning skies, conditions at the site were deemed suboptimal primarily due to a dense presence of haze and smoke. As the afternoon progressed, cumulus clouds began to develop, leading to further deterioration. The crew adapted by focusing on lower-priority lines, managing to collect 17 before conditions worsened.

#### **Concerns**

- POS wouldn't copy directly to the MIDAS 1 disk, instead we copied them to a thumb drive and manually copied them to the disk.
- Aircraft generators may be displaying issues powering the payload pre and post flight. We will continue to monitor

#### **Comments**

None

### **Daily Coverage**

#### **Estimated Cloud Cover Key**

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

Solar Angle Less Than 40 degrees: (\*)

## D12|YELL

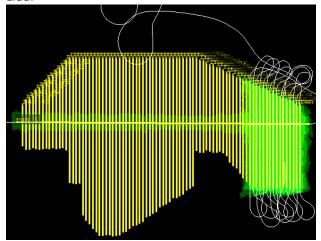
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Lidar	<b>\</b>	<b>√</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>/</b>	<b>/</b>	<b>^</b>	<b>\</b>	<b>✓</b>	<b>✓</b>	<b>\</b>	<	<	<b>✓</b>	✓
Spectrometer		✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	✓	✓	✓	<b>\</b>	<b>\</b>	✓	✓
Camera	<b>√</b>	✓	<b>√</b>	✓													
Cloud Cover																	

Total number of lines flown: 17

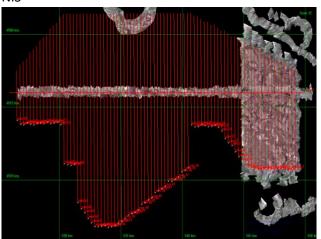


## **Flight Screenshots**

Lidar



NIS



Pictures: In transit to YELL this morning.



# **Cumulative Domain Coverage**

D12 | YELL (Yellowstone Northern Range)

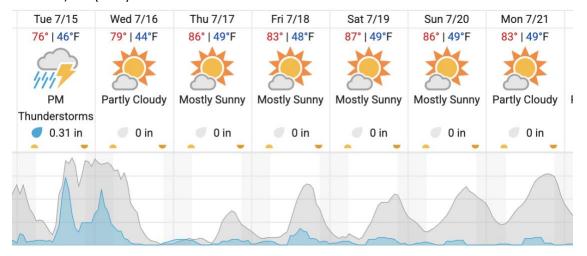
	2 = 1 : = = ( : e																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85															

Flown: 20% (17/85) Green: 0% (0/85) Yellow: 15% (13/85) Red: 5% (4/85)

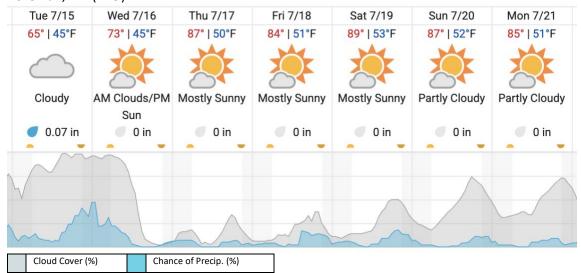
\* Flown within 35deg solar angle

### **Weather Forecast**

## Gardiner, MT (YELL)



## Bozeman, MT (FBO)



source: wunderground.com

Flight Collection Plan for July 15, 2025

# Flyority 1

Collection Area: Yellowstone Northern Range (YELL) Flight Plan Name: D12\_YELL\_C1\_P1\_v3\_Q780

On-Station Time: 15:50 UTC/ 09:50 L

Crew: Mitch (Lidar), Cameron (NIS)