



Payload 3 Daily Flight Report

Date: 2025-07-17

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: 4

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 03:45

Spectrometer Operators: Cameron

Hours until maintenance: 118.93

Pilots: Justin, Troy

GPS Instruments: U-MAWY, U-P048, U-P720

Summary

Clear skies over Yellowstone today with some haze present, but not enough to push collections over the non-green threshold. 30 lines were collected under green conditions.

Concerns

None

Comments

Elissa arrives in Bozeman today to replace Cameron. Welcome Elissa and thanks for the hard work, Cam!

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

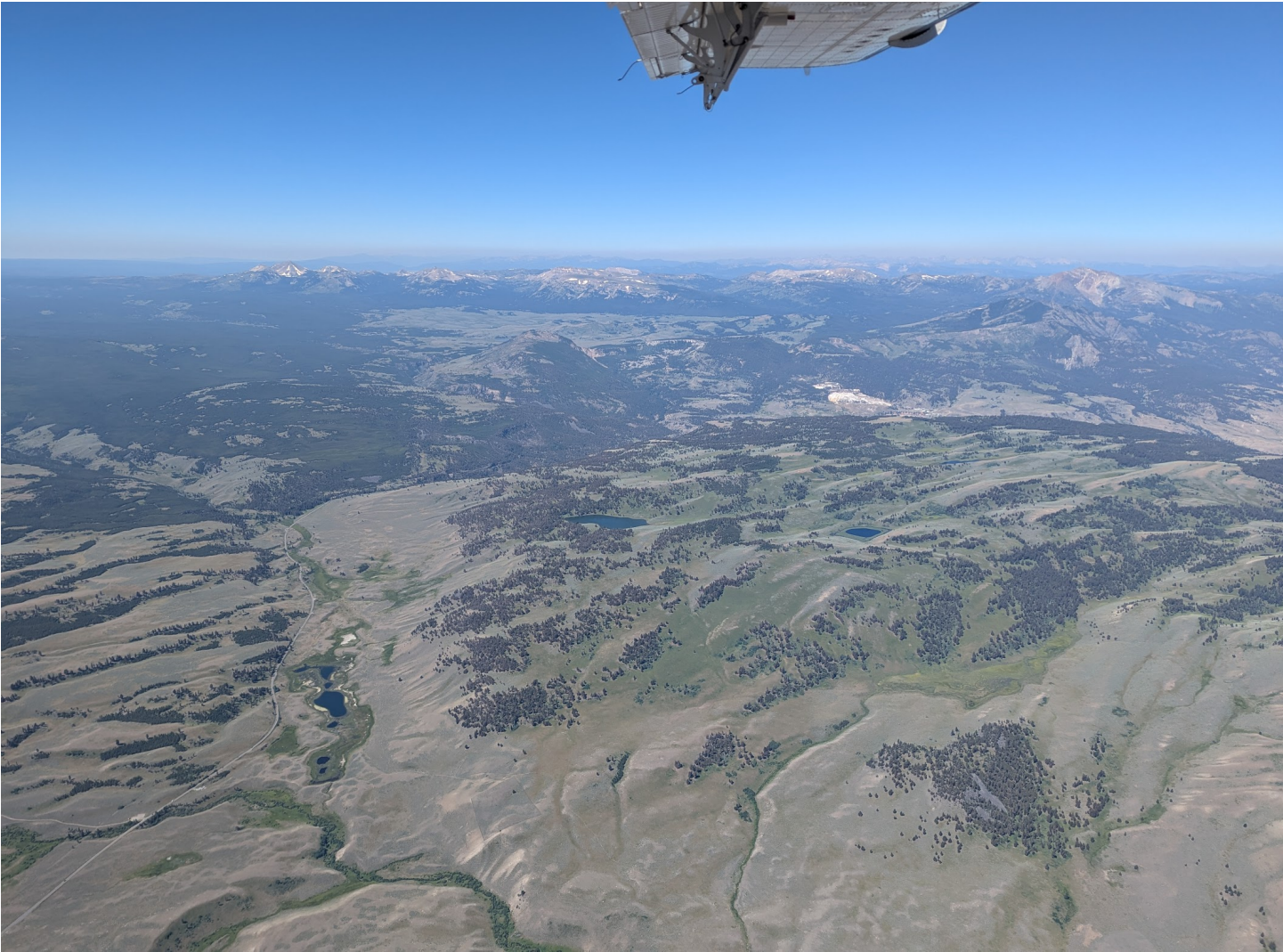
D12|YELL

Line #	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

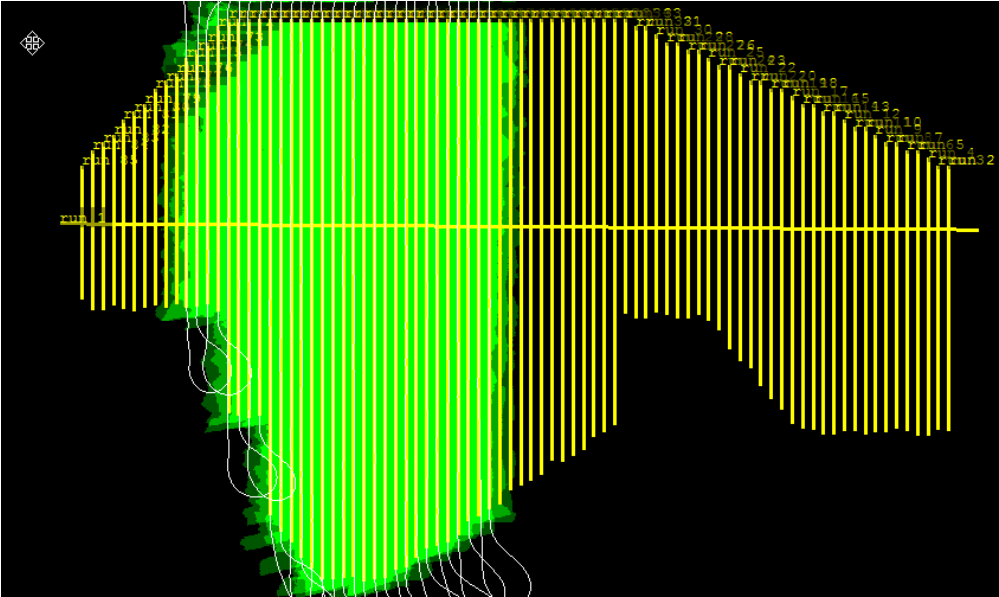
Line #	66	67	68	69	70	71	72	73	74	75
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

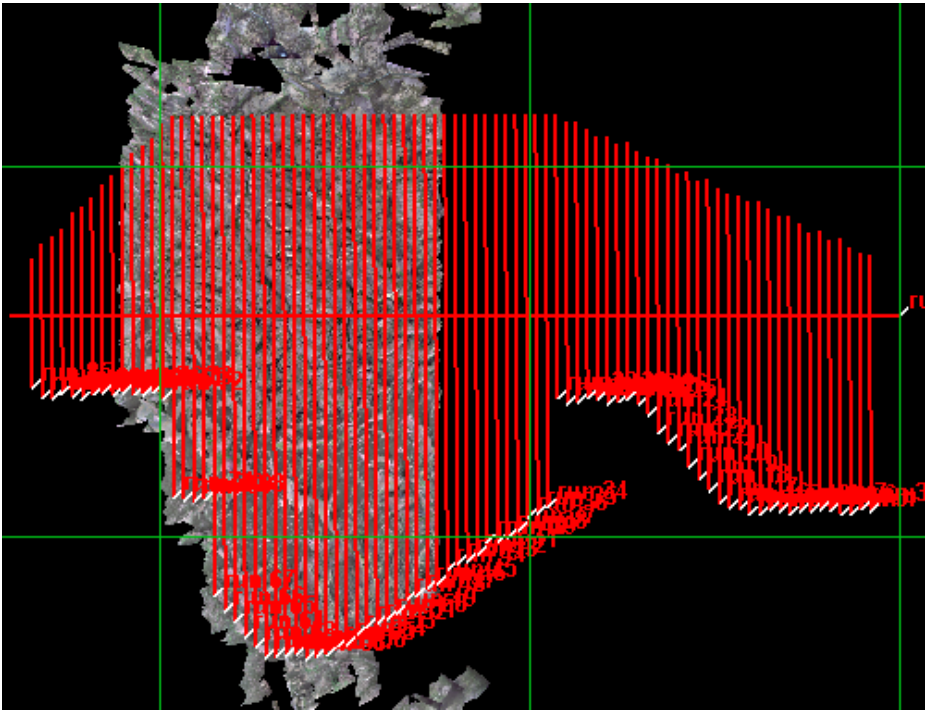
Total number of lines flown: 30

Pictures



Flight Screenshots





Cumulative Domain Coverage

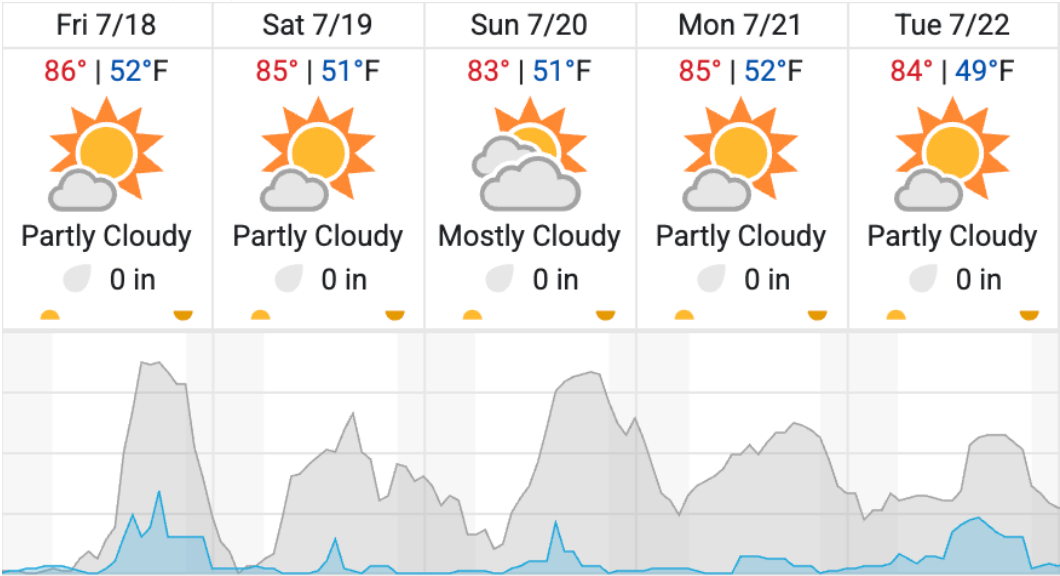
D12|YELL (Yellowstone Northern Range)

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: 55% (47/85)
Green: 35% (30/85)
Yellow: 15% (13/85)
Red: 5% (4/85)
* Flown within 35deg solar angle

Weather Forecast

Gardiner, MT (YELL)



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

Flight Collection Plan for July 18, 2025

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), Elissa (NIS)