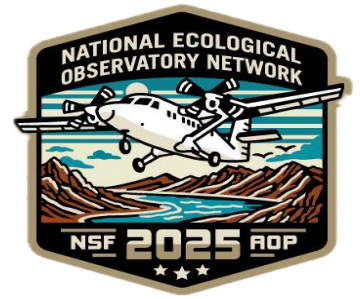




Payload 3 Daily Flight Report



Date: 2025-07-19

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: 2

Report Author: Elissa

Lidar Operators: Elissa

Flight Hours: 02:04

Spectrometer Operators: Mitch

Hours until maintenance: 114.13

Pilots: Justin, Troy

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

Summary

Skies were slightly less hazy today, but clouds that began forming shortly before solar angle prevented green collection. The remaining lines at Yellowstone were completed in yellow conditions.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

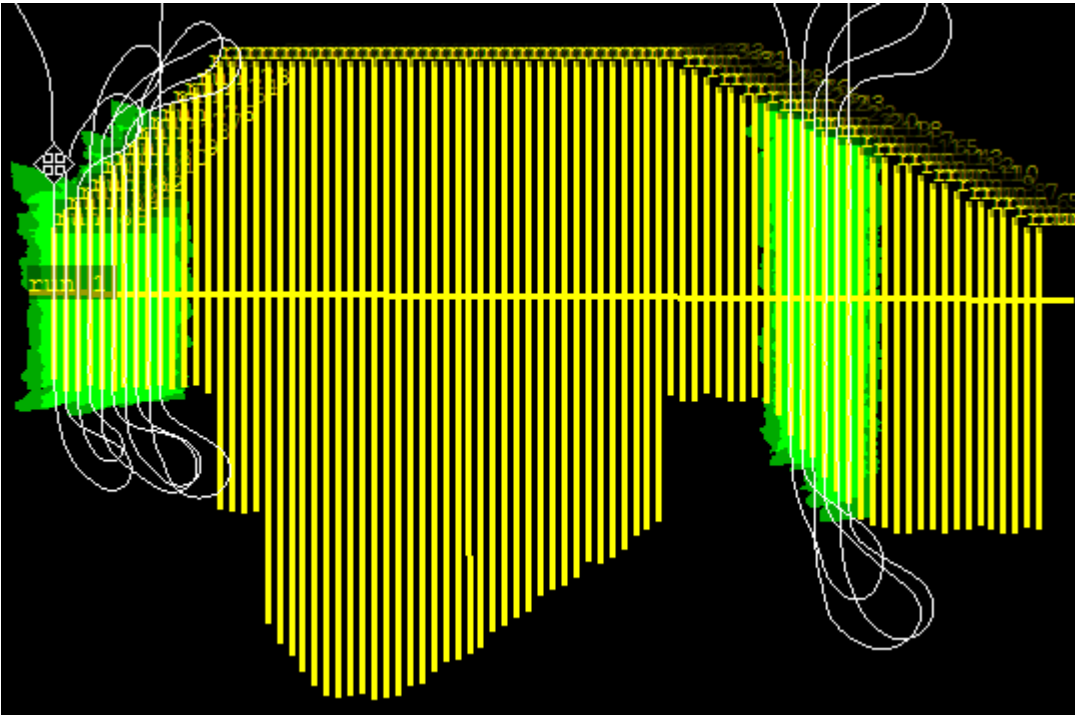
D12|YELL

Line #	18	19	20	21	22	23	76	77	78	79	80	81	82	83	84	85
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																

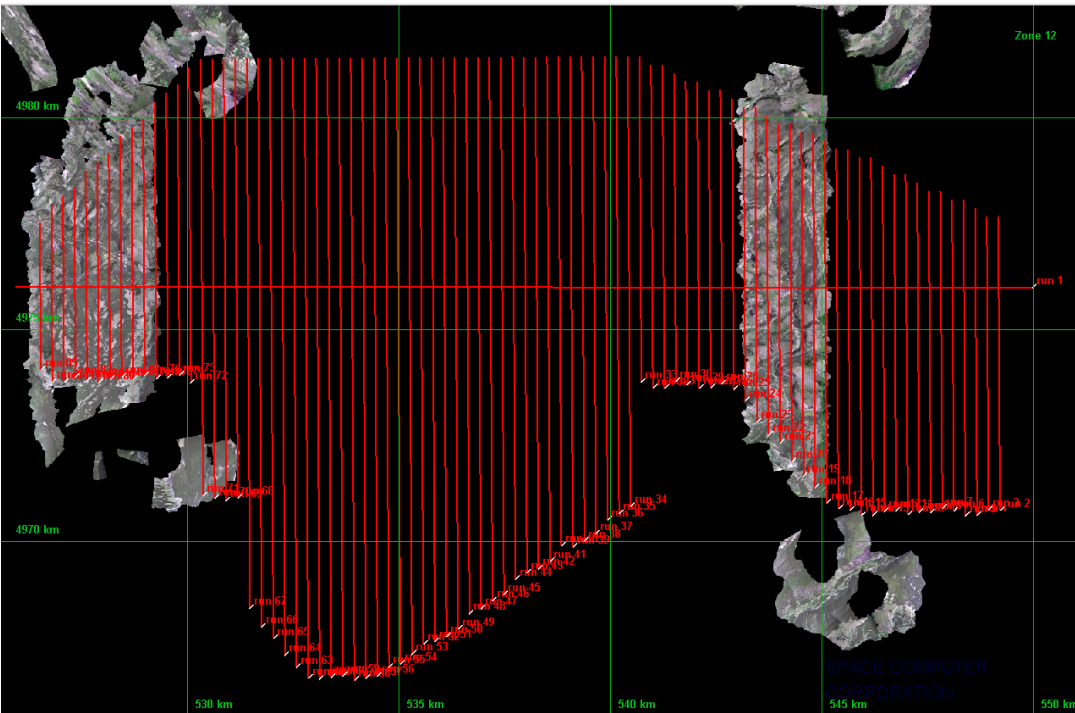
Total number of lines flown: 16

Flight Screenshots

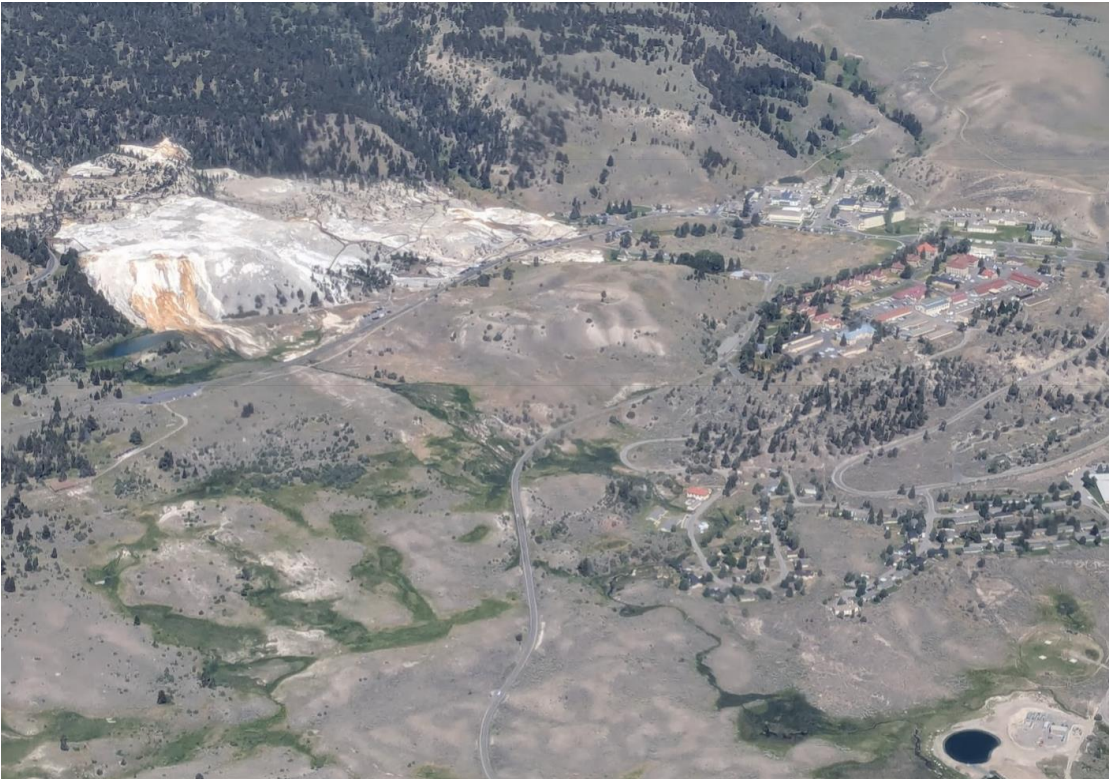
Lidar



NIS



Pictures



The impressive Mammoth Hot Springs terraces in Yellowstone National Park.

Cumulative Domain Coverage

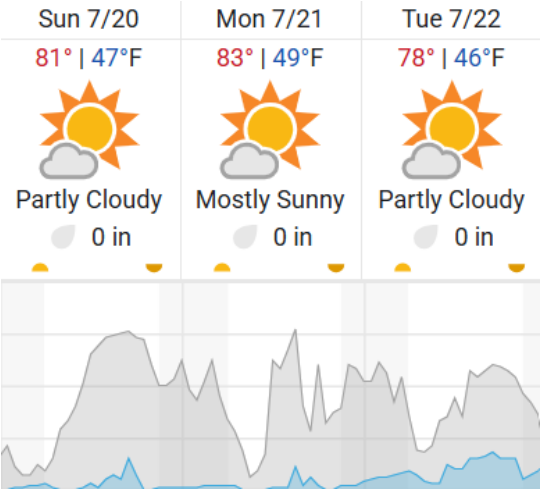
D12 | YELL (Yellowstone Northern Range)

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: 100% (85/85)
Green: 35% (30/85)
Yellow: 40% (34/85)
Red: 25% (21/85)
* Flown within 35deg solar angle

Weather Forecast

Gardiner, MT (YELL)



source: wunderground.com

Flight Collection Plan for 20 July 2025

Flyority 1

Collection Area: Yellowstone Northern Range (YELL); *lines 2-45, 76-85 – only if green*

Flight Plan Name: D12_YELL_C1_P1_v3_Q780

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

Crew: Mitch (Lidar), Elissa (NIS)