



July 4, 2018 Payload 3 Daily Flight Report



Date: 2018-07-04

Flight Campaign ID: 2018_P3C1

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

Domain: 12

Sites Flown: YELL (Yellowstone Northern Range)

Days left in Domain: 2

Report Author: Mitch Haynes

Flight Crew: Cameron Chapman, Heather Rogers, Mitch Haynes

Ground/GPS:

Pilots: Mike Francis, Dylan Malfatti

Additional Personnel:

GPS Instruments: U-MAWY, U-P720, 05 - FBO_KBZN

Flight Hours: 03:49

Hours until maintenance: 78.53

Summary

Flight crew woke up disappointed to see high cirrus over Yellowstone after forecasts called for clear skies. However, with aircraft AND spectrometer both cooperating, the Otter took to the skies to collect under non-green conditions, with 23 lines flown over the Yellowstone study site.

Concerns

- Tracker/Snapshot GPS not properly connecting upon initial boot
- NIS Chamber pressure still displaying incorrect reading.

Comments

- Heather Rogers completed her Reigl Lidar training. Yay Heather!
- Mitch Haynes will fly to Portland tomorrow to begin deploying GPS units in preparation for D16 surveys
- Happy 4th of July 🇺🇸

Daily Coverage

D12 YELL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	46				✓	✓	✓	NLC
	47				✓	✓	✓	NLC
	48				✓	✓	✓	NLC
	49				✓	✓	✓	NLC
	50				✓	✓	✓	NLC
	51				✓	✓	✓	NLC
	52				✓	✓	✓	NLC
	53				✓	✓	✓	NLC
	54				✓	✓	✓	NLC
	55				✓	✓	✓	NLC
	56				✓	✓	✓	NLC
	57				✓	✓	✓	NLC
	58				✓	✓	✓	NLC
	59				✓	✓	✓	NLC

	60				✓	✓	✓	NLC
	61				✓	✓	✓	NLC
	62				✓	✓	✓	NLC
	63				✓	✓	✓	NLC
	64				✓	✓	✓	NLC
	65				✓	✓	✓	NLC
	66				✓	✓	✓	NLC
	67				✓	✓	✓	NLC
Flown:	23							

Cumulative Domain Coverage

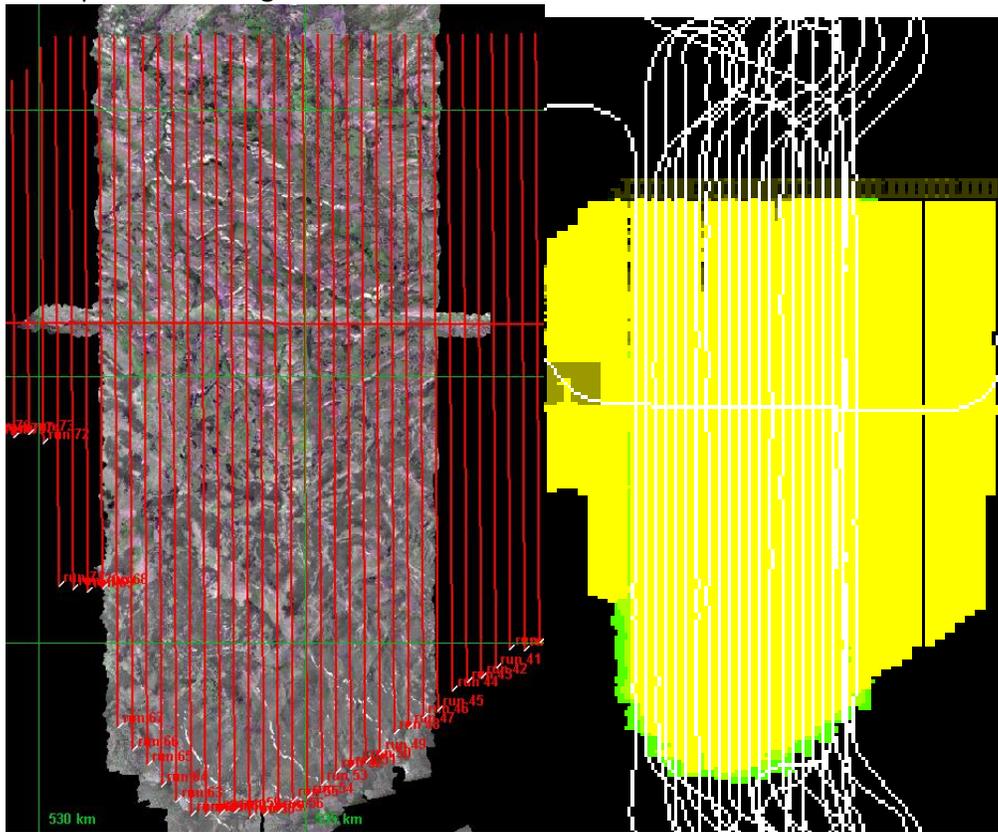
YELL

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: 27% (23/85)
 Green: 0% (0/85)
 Yellow: 15% (13/85)
 Red: 12% (10/85)

Flight Screenshots

Left- Spectrometer Right- Lidar



Pictures



Above: Blacktail Deer Creek Watershed and Plateau, future home of NEON aquatic site.

Below: In construction, the NEON tower plot location at Frog Rock, just off Grand Loop Road.



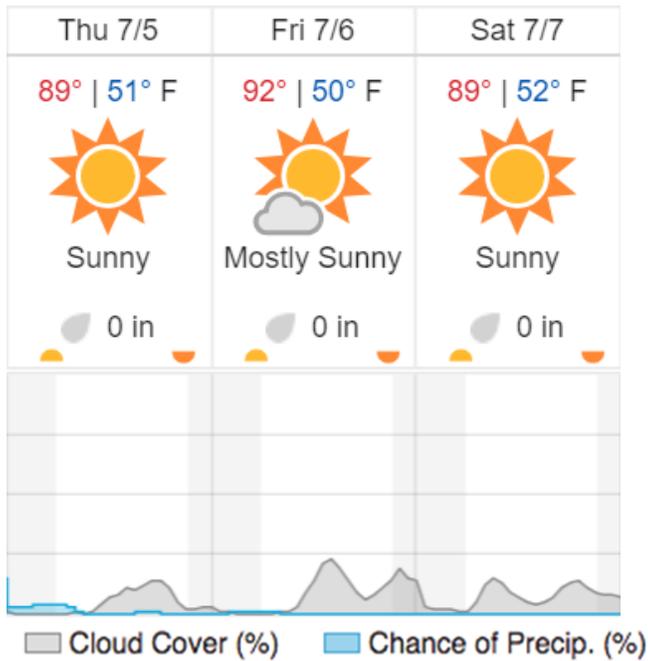


Above: Electric Peak (10967 ft) just outside of the NW quarter of Yellowstone National Park.
Below: Mammoth Hot Springs and Visitor Center, Yellowstone National Park.



Weather Forecast

Gardiner, MT



Flight Collection Plan for 5 July 2018

Flyority 1 (Flight Priority 1):

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12_YELL_C1_P1_v2_Q780

On-Station Time: 15:50 UTC / 0950 L:

Crew: Cameron Chapman (Lidar), Heather Rogers (NIS), Mitch Haynes (Ground)

Flight Collection Plan for 6 July 2018

Flyority 1 (Flight Priority 1):

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12_YELL_C1_P1_v2_Q780

On-Station Time: 15:50 UTC / 0950 L:

Crew: Heather Rogers (Lidar), Cameron Chapman (NIS)

On-Going Issues

Fault: Lidar	Open Date: 7/4/2018
It's been noticed several flights in a row now that Tracker/Snapshot GPS (which is used for the navigation) does not connect on first bootup. So far, restarting of the system has resolved the problem.	