



## July 5, 2018 Payload 3 Daily Flight Report



**Date:** 2018-07-05

**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:** 1

**Report Author:** Cameron Chapman

**Flight Crew:** Cameron Chapman, Heather Rogers

**Ground/GPS:** Mitch Haynes

**Pilots:** Mike Francis, Dylan Malfatti

**Additional Personnel:**

**GPS Instruments:** 05 - FBO\_KBZN, U-MAWY, U-P720

**Flight Hours:** 04:15, 01:10

**Hours until maintenance:** 74.28

**Summary:** The day started off promising with forecasted clear skies over Yellowstone however upon arriving at the survey area high cirrus clouds covered the area. The cirrus clouds dissipated after a while allowing for "green" collection of several lines before cumulus clouds began to build. We attempted a second flight in hopes of completing the survey area today however precipitation moved into the area forcing the crew to return to base. Tomorrows weather forecast should allow for the completion of initial coverage.

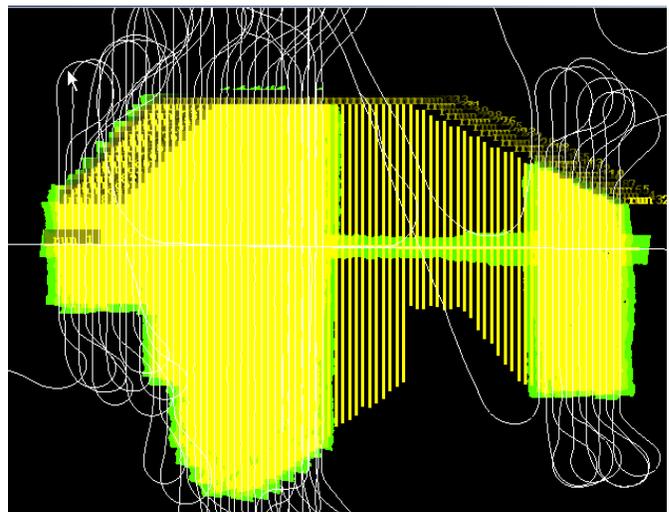
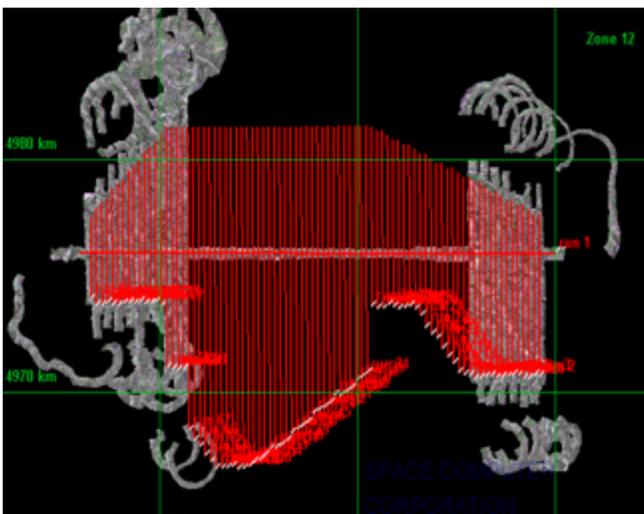
### Concerns:

- Multiple flight database crashes

### Comments

- Completed Lines 68-85 & 1-14 under mixed conditions
- Mitch departed for D16 today and will begin deploying GPS units tomorrow
- The flight crew in D12 is currently schedule to depart Saturday July 7<sup>th</sup>

### Flight Screenshots



## Pictures



Above: Transiting to the YELL site on 20180705

Bellow: The Sky cleared for a short period allowing for a few "Green" lines before cirrus and cumulus clouds returned





Above Image captured on 20180706 while collecting at YELL

Below Image captured while departing YELL



### Daily Coverage

D12 YELL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1	Green			✓	✓	✓	NLC
	2	Green			✓	✓	✓	NLC
	3	Green			✓	✓	✓	NLC
	4		Yellow		✓	✓	✓	NLC
	5		Yellow		✓	✓	✓	NLC
	6		Yellow		✓	✓	✓	NLC
	7		Yellow		✓	✓	✓	NLC
	8		Yellow		✓	✓	✓	NLC
	9		Yellow		✓	✓	✓	NLC
	10		Yellow		✓	✓	✓	NLC
	11		Yellow		✓	✓	✓	NLC
	12		Yellow		✓	✓	✓	NLC
	13		Yellow		✓	✓	✓	NLC
	14		Yellow		✓	✓	✓	NLC
	68		Yellow		✓	✓	✓	NLC
	69		Yellow		✓	✓	✓	NLC
	70		Yellow		✓	✓	✓	NLC
	71		Yellow		✓	✓	✓	NLC
	72	Green			✓	✓	✓	NLC
	73	Green			✓	✓	✓	NLC
	74	Green			✓	✓	✓	NLC
	75	Green			✓	✓	✓	NLC
	76	Green			✓	✓	✓	NLC
	77	Green			✓	✓	✓	NLC
	78	Green			✓	✓	✓	NLC
	79	Green			✓	✓	✓	NLC
	80	Green			✓	✓	✓	NLC
	81	Green			✓	✓	✓	NLC
	82	Green			✓	✓	✓	NLC
	83		Yellow		✓	✓	✓	NLC
	84		Yellow		✓	✓	✓	NLC
	85		Yellow		✓	✓	✓	NLC
Flown:	32							

### 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															

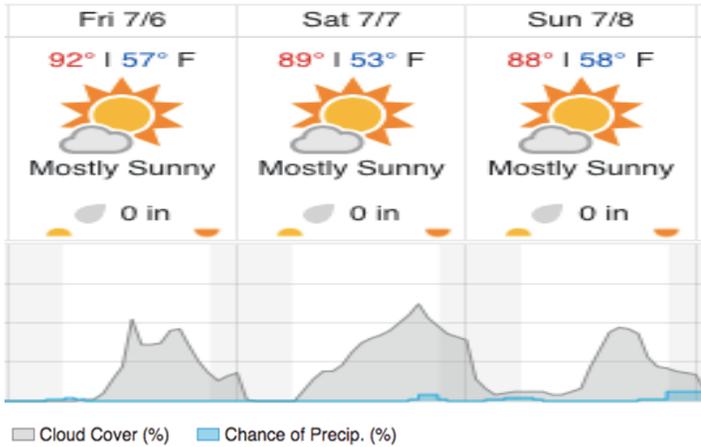
Flown: 64% (54/85)

Green: 16% (14/85)

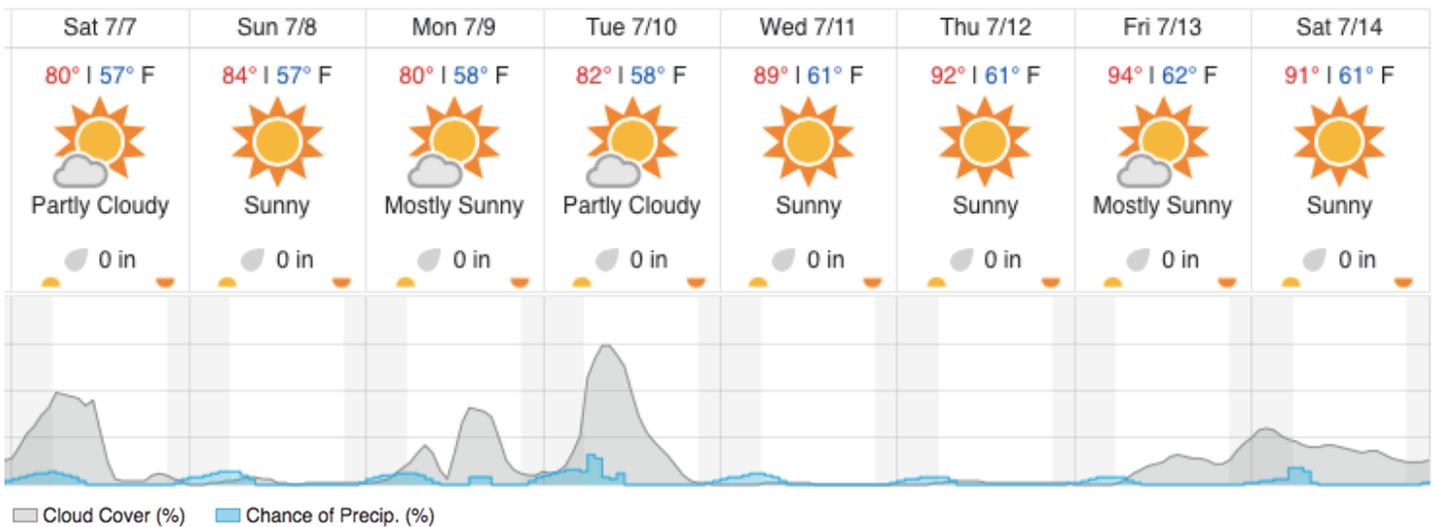
Yellow: 36% (31/85)

Red: 12% (10/85)

**Weather Forecast**  
**Gardiner, MT**



**Vancouver, WA**



**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)