



July 6, 2018 Payload 3 Daily Flight Report



Date: 2018-07-06

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: 0

Report Author: Heather Rogers

Flight Crew: Heather Rogers, Cameron Chapman

Ground/GPS: Mitch Haynes

Pilots: Dylan Malfatti, Mike Francis

Additional Personnel:

GPS Instruments: 05 - FBO_KBZN, U-MAWY

Flight Hours: 04:25

Hours until maintenance: 68.70

Summary

The plane arrived on station to find cirrus and cumulus clouds over the collection site. Today was our last scheduled day for collections. The flight box was completed in >10% cloud cover conditions. Clouds continued to build throughout the day.

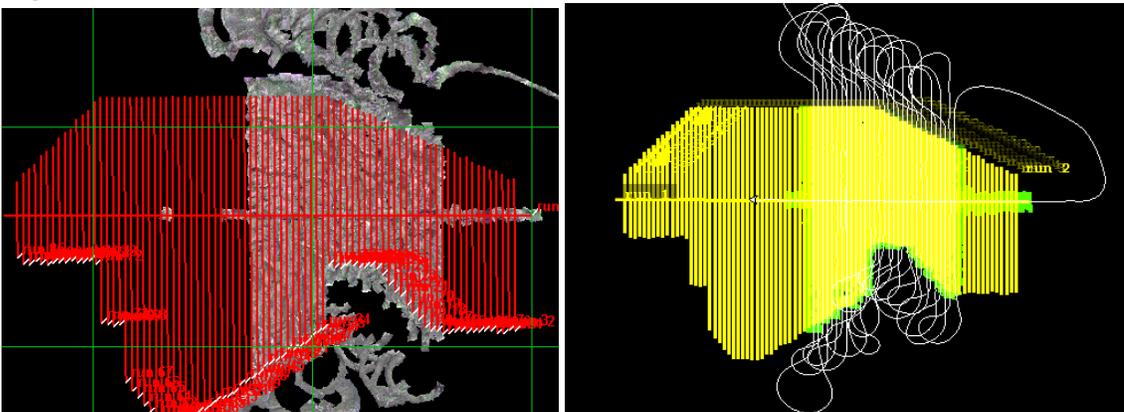
Concerns

- The Riegl experienced laser safety shutoffs due to terrain at the planned flight altitudes for lines 38 and 39.
- The flight was bumpy with significant updrafts for the last third of the flight, which affected the pilots ability to maintain a steady altitude.

Comments

- Pony express 2018_P3C1_12 was shipped.
- FBO GPS 05 was taken down and shipped back to Boulder.
- The crew transits to D16 tomorrow.
- If green conditions are present tomorrow morning, the crew will collect data before transiting to D16.

Flight Screenshots



Pictures



Cirrus clouds and haze on the transit to the collection site gave way to increased cloud cover and increased wind as the flight progressed.

Daily Coverage

D12 YELL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✗	✓	NC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
	21				✓	✓	✓	NLC
	22				✓	✓	✓	NLC
	23				✓	✓	✓	NLC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
	27				✓	✓	✓	NLC
	28				✓	✓	✓	NLC

	29				✓	✓	✓	NLC
	30				✓	✓	✓	NLC
	31				✓	✓	✓	NLC
	32				✓	✓	✓	NLC
	33				✓	✓	✓	NLC
	34				✓	✓	✓	NLC
	35				✓	✓	✓	NLC
	36				✓	✓	✓	NLC
	37				✓	✓	✓	NLC
	38				✓	✓	✓	NLC
	39				✓	✓	✓	NLC
	40				✓	✓	✓	NLC
	41				✓	✓	✓	NLC
	42				✓	✓	✓	NLC
	43				✓	✓	✓	NLC
	44				✓	✓	✓	NLC
	45				✓	✓	✓	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: 100% (85/85)

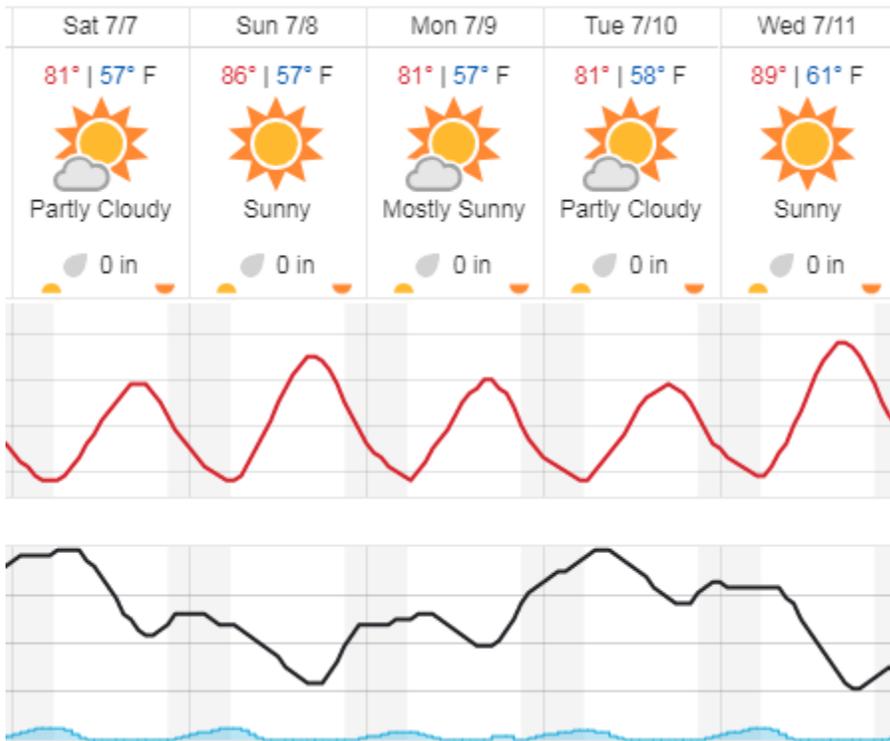
Green: 16% (14/85)

Yellow: 44% (37/85)

Red: 44% (37/85)

Weather Forecast

Portland, OR



Flight plan for July 7, 2018: Transit the Otter from Bozeman, MT to Hillsboro, OR.