



## May 10, 2019 Payload 3 Daily Flight Report



**Date:** 2019-05-10

**Flight Campaign ID:** 2019\_P3C1

**Airport, FBO ID, City:** Salt Lake City International Airport (KSLC) - Salt Lake City, UT

**Domain:** 15

**Sites Flown:** REDB (Red Butte)

**Days left in Domain:** 3

**Report Author:** Ivana Vu

**Flight Crew:** Ivana Vu, Mitch Haynes

**Ground/GPS:** Nick Marusich

**Pilots:** Stephen Brawders, Jeff Quintanilla

**Additional Personnel:** None

**GPS Instruments:** C-ZLC1

**Flight Hours:** 02:00

**Hours until maintenance:** 74.50

### **Summary**

This morning, the Onaqui-Ault tower camera showed cloudy conditions while the lower priority Red Butte site was potentially clear. However, high cirrus was present south of REDB and we stayed to obtain initial coverage before low cumulus clouds prevented further collections. All but 1 line at REDB was collected under "yellow" and "red" cloud conditions. Clear weather is forecasted for these next few days.

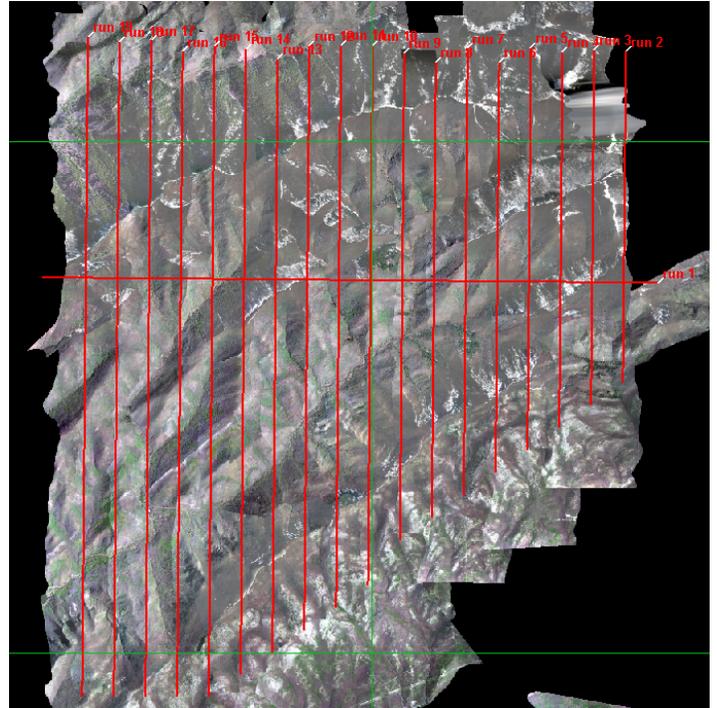
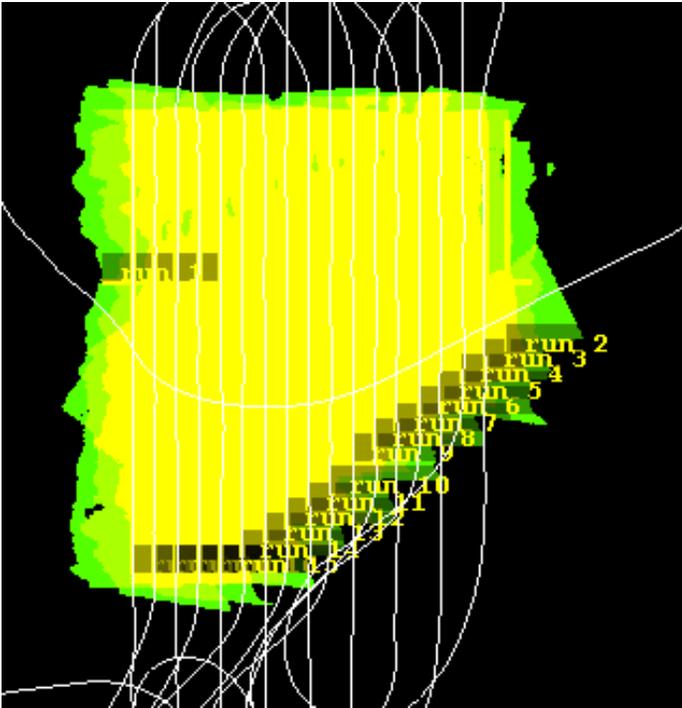
### **Concerns**

TacAir FBO will not allow us to deploy a GPS base station on their property this year without FAA approval, which will take at least 6 weeks. A request has been submitted for future years and in the meantime, CORS station ZLC1 will suffice as the REDB and airport GPS.

### **Comments**

Bridget and Dave will depart tomorrow morning for Nevada in preparation for potential calibration flights over Railroad Valley and Lunar Lake, scheduled for May 12-13

## Flight Screenshots



## Pictures

Red Butte site before low cumulus clouds moved in



## Daily Coverage

D15   REDB	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✗	✓	✓	LC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
Flown:	19							

## Cumulative Domain Coverage

### ONAQ

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																		

Flown: 21% (9/42)

Green: 14% (6/42)

Yellow: 7% (3/42)

Red: 0% (0/42)

### REDB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Flown: 95% (18/19)

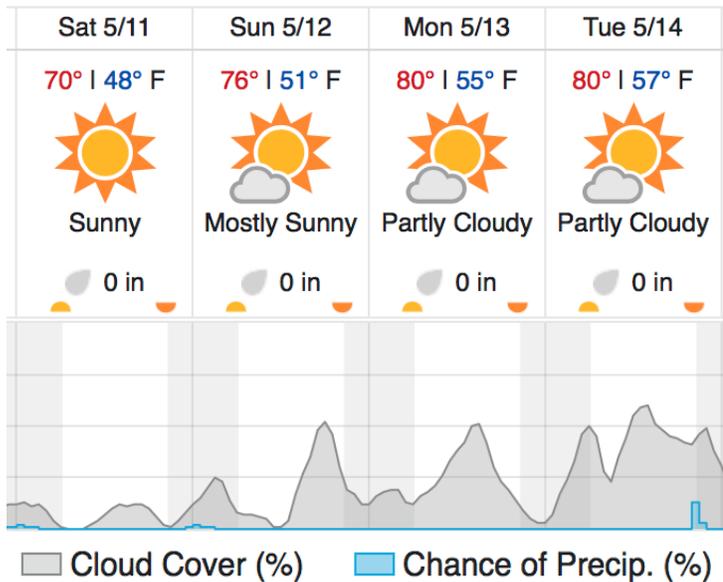
Green: 0% (0/19)

Yellow: 53% (10/19)

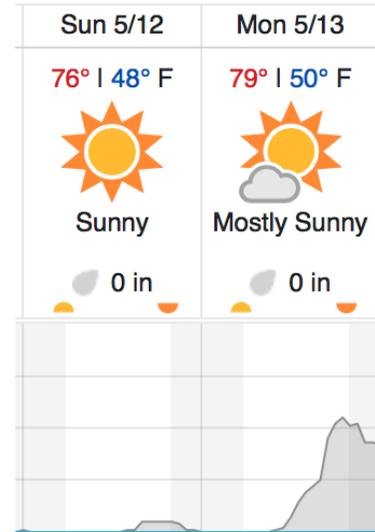
Red: 42% (8/19)

## Weather Forecast

Salt Lake City, UT (FBO, ONAQ, REDB)



Tonopah, NV (RRVY, LNLK)



## Flight Collection Plan for 11 May 2019

### Flyority 1

Collection Area: Onaqui-Ault (ONAQ)

Flight Plan Name: D15\_ONAQ\_C1\_P1\_v3\_Q780

On-station Time: 1600 UTC / 1000 L

### Flyority 2

Collection Area: Red Butte (REDB)

Flight Plan Name: D15\_REDB\_A1\_P1\_v2\_Q780

On-station Time: 1600 UTC / 1000 L

Crew: Nick Marusich (Lidar), Mitch Haynes (NIS/GPS)

## Flight Collection Plan for 12 May 2019

### Flyority 1

Collection Area: Onaqui-Ault (ONAQ)

Flight Plan Name: D15\_ONAQ\_C1\_P1\_v3\_Q780

On-station Time: 1600 UTC / 1000 L

### Flyority 2

Collection Area: Radiometric Calibration at Railroad Valley (RRVY)

Flight Plan Name: D15\_R15B\_Radiometric\_Calibration\_RRVY\_v3\_Q780

On-station Time: 1640 UTC / 0940 L

and

Collection Area: Lidar Uncertainty Test at Lunar Lake (LNLK)

Flight Plan Name: D15\_LNLK\_Lidar\_Unc\_Tst\_v2\_Q780

### Flyority 3

Collection Area: Red Butte (REDB)

Flight Plan Name: D15\_REDB\_A1\_P1\_v2\_Q780

On-station Time: 1600 UTC / 1000 L

Crew: Mitch Haynes (Lidar), Nick Marusich (NIS/GPS), John Adler (Ground/GPS)

Field Science Team at RRVY and LNLK: Bridget Hass, David Huslander