



September 13, 2019 Payload 2 Daily Flight Report



Date: 2019-09-13

Flight Campaign ID: 2019\_P2C1

Airport, FBO ID, City: Scottsdale Airport (KSDL) - Scottsdale, AZ

Domain: 14

Sites Flown: SRER\_P2 (Santa Rita Experimental Range Priority 2), SRER\_P3 (Santa Rita Experimental Range Priority 3)

Days left in Domain: 1

Report Author: Mitch Haynes

Flight Crew: Mitch Haynes, Cameron Chapman

Flight Hours: 03:24 + 00:54

Ground/GPS: Robb Walker

Hours until maintenance: 83.55

Pilots: Micah Hooegeveen, Paul Muth

Additional Personnel:

GPS Instruments: 02 - FBO\_KSDL, 09 - FBO\_KTUS, AOP\_SRER, C-AZVA

Summary

Crew was able to finish off initial coverage of the SRER Priority 2 box plus 7 additional lines of the SRER Priority 3 box under red and yellow conditions before building storm clouds over the ridge forced us to stop collecting for the day.

Concerns

None

Comments

- GPS 09 was collected from the Tucson Airport after our fuel stop today.
- Tomorrow is the last day of collections in D14. If weather isn't favorable for collect, Payload will look to transit back to Boulder tomorrow afternoon. If a long collect does occur, transit will likely wait till Sunday.

Daily Coverage

D14 SRER_P2	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	41				✓	✓	✓	NLC
	42				✓	✓	✓	NLC
	43				✓	✓	✓	NLC
	44				✓	✓	✓	NLC
	45				✓	✓	✓	NLC
	46				✓	✓	✓	NLC
	47				✓	✓	✓	NLC
	48				✓	✓	✓	NLC
	49				✓	✓	✓	NLC
	50				✓	✓	✓	NLC
	51				✓	✓	✓	NLC
Flown:	11							
D14 SRER_P3	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	65				✓	✓	✓	NLC
	85				✓	✓	✓	NLC
	86				✓	✓	✓	NLC

	87				✓	✓	✓	NLC
	88				✓	✓	✓	NLC
	89				✓	✓	✓	NLC
	90				✓	✓	✓	NLC
Flown:	7							

**Cumulative Domain Coverage**

**JORN\_P1**

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						

Flown: 100% (34/34)

Green: 91% (31/34)

Yellow: 9% (3/34)

Red: 0% (0/34)

**JORN\_P2**

35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55																			

Flown: 100% (21/21)

Green: 5% (1/21)

Yellow: 100% (21/21)

Red: 0% (0/21)

**N14A**

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Flown: 100% (1/1)

Green: 100% (1/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

**SRER\_P1**

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

Flown: 100% (40/40)

Green: 88% (35/40)

Yellow: 28% (11/40)

Red: 0% (0/40)

**SRER\_P2**

41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64																

Flown: 100% (24/24)

Green: 0% (0/24)

Yellow: 88% (21/24)

Red: 17% (4/24)

**SRER\_P3**

65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90														

Flown: 62% (16/26)

Green: 38% (10/26)

Yellow: 0% (0/26)

Red: 27% (7/26)

**SYCA**

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								

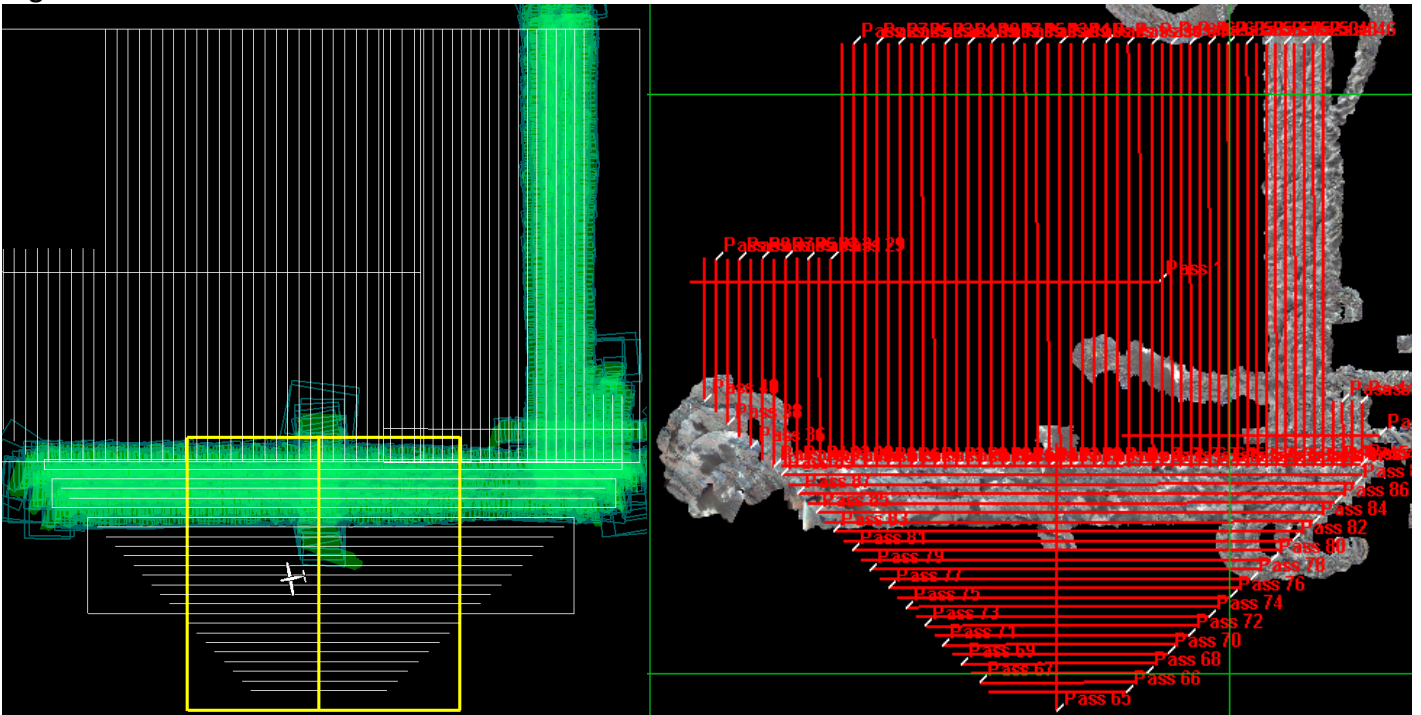
Flown: 69% (36/52)

Green: 69% (36/52)

Yellow: 0% (0/52)

Red: 0% (0/52)

## Flight Screenshots



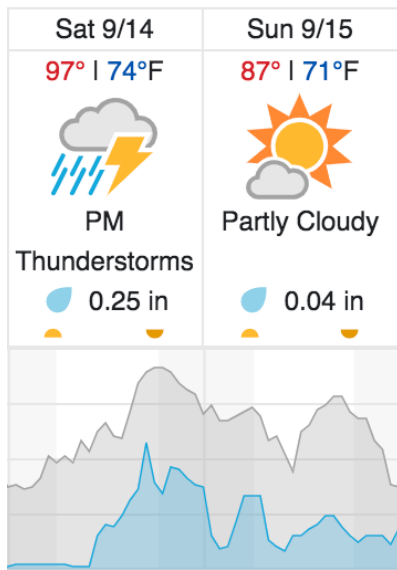
## Pictures



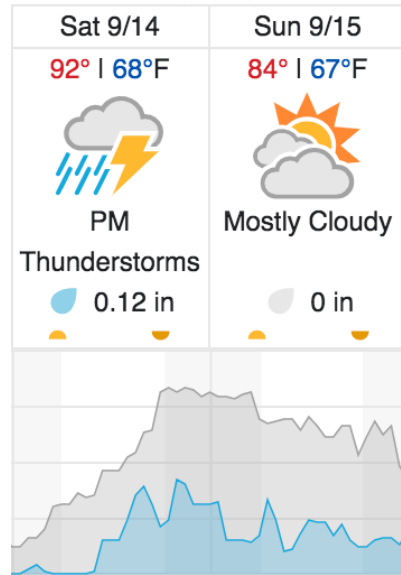
Above: After collections were aborted due to building storm clouds (see pilots pointing), crew stopped in Tucson for fuel, enjoying freshly baked cookies and cold fountain drinks before continuing back. No cookies were saved for Robb upon landing in Scottsdale.

## Weather Forecast

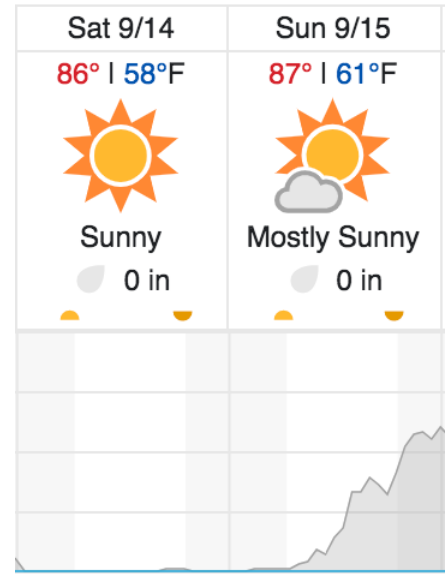
Tucson, AZ (SRER)



Rio Verde, AZ (SYCA)



Boulder, CO



## Flight Collection Plan for 14 September 2019

### Flyority 1:

Collection Area: Santa Rita Experimental Range – Priority 1 Flight Box (SRER\_P1), Re-fly lines 30-35 if Green

Flight Plan Name: D14\_SRER\_C1\_P1\_P2\_P3\_v5.pln

On-station Time: 1630 – 2210 UTC / 0930 – 1510 MST

### Flyority 2:

Collection Area: Santa Rita Experimental Range – Priority 2 Flight Box (SRER\_P2)

Flight Plan Name: D14\_SRER\_C1\_P1\_P2\_P3\_v5.pln

On-station Time: 1630 – 2210 UTC / 0930 – 1510 MST

### Flyority 3:

Collection Area: Santa Rita Experimental Range – Priority 3 Flight Box (SRER\_P3)

Flight Plan Name: D14\_SRER\_C1\_P1\_P2\_P3\_v5.pln

On-station Time: 1630 – 2210 UTC / 0930 – 1510 MST

### Flyority 4:

Collection Area: Sycamore Creek – Priority 1 Flight Box (SYCA)

Flight Plan Name: D14\_SYCA\_A1\_P1\_v5\_750\_max.pln

On-station Time: 1630 – 2210 UTC / 0930 – 1510 MST

### Flyority 5:

Transit Back to Boulder

**Crew:** Robb Walker (Lidar), Mitch Haynes (NIS), Cameron Chapman (Ground/GPS)