



September 4, 2019 Payload 2 Daily Flight Report



Date: 2019-09-04

Flight Campaign ID: 2019_P2C1

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

Domain: 14

Sites Flown: SRER_P1 (Santa Rita Experimental Range Priority 1), SRER_P2 (Santa Rita Experimental Range Priority 2), SRER_P3 (Santa Rita Experimental Range Priority 3)

Days left in Domain: 8

Report Author: Cameron Chapman

Flight Crew: Cameron Chapman, Mitch Haynes

Ground/GPS: Ivana Vu

Pilots: Paul Muth, Micah Hoogeveen

Additional Personnel:

GPS Instruments: 02 - FBO_KSDL, 07 - SRER, C-AZVA

Flight Hours: 03:42

Hours until maintenance: 96.72

Summary

Clear skies over the P3 flight box this morning allowed for the collection of 10 lines in "green" conditions. The clouds over the P1 box dissipated by early afternoon and we were able re-collect 4 lines in green conditions before returning to Scottsdale.

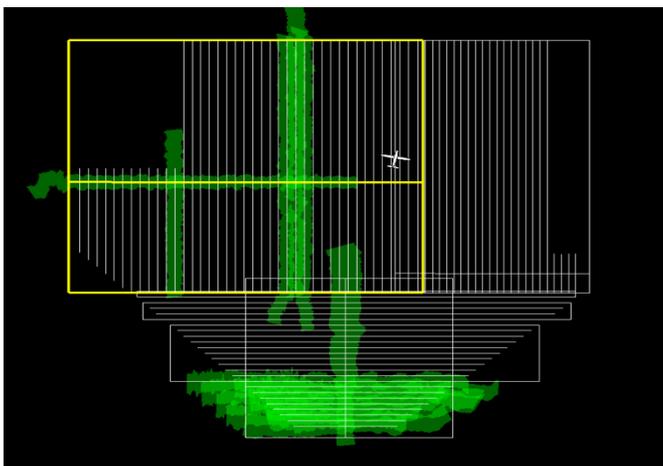
Concerns

- Severe winds this morning over the P3 flight box made flying challenging with high wind gusts and strong mountain waves.
- Payload AC carts are struggling to keep up with the extreme temperatures.

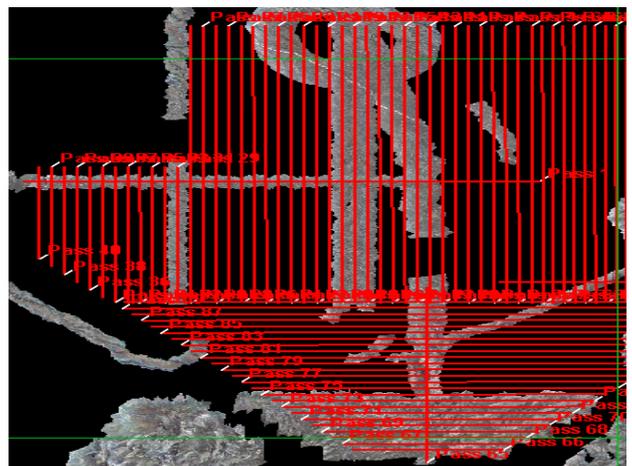
Comments

- Andrew arrived in D14 this afternoon to repair the camera computer memory issue.
- Crew received a second A/C cart from HQ today.
- Crew received GPS equipment today and Ivana repaired AOP_SRER and deployed a GPS unit at the FBO in Tucson.

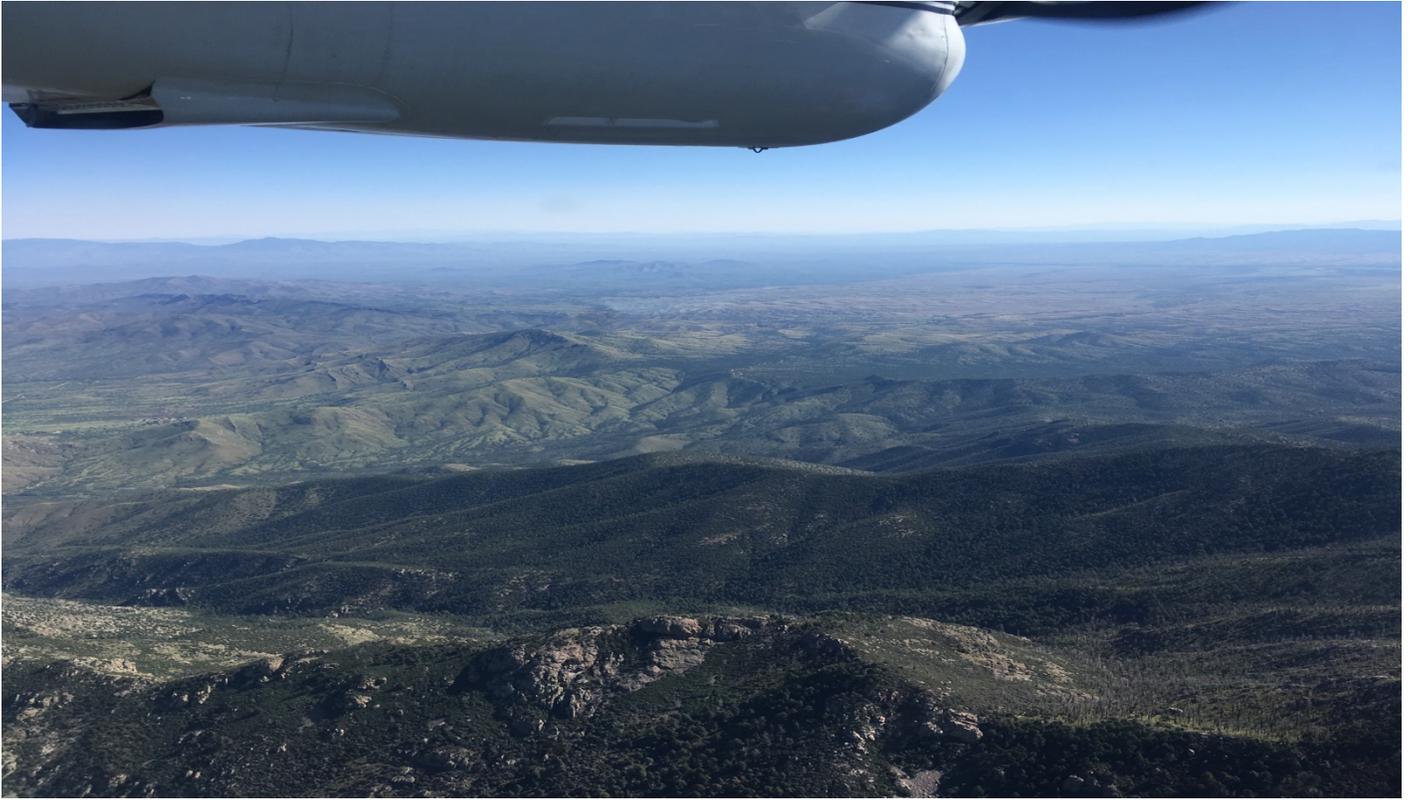
Flight Screenshots: Lidar



NIS



Pictures



Above & Below are pictures taken while flying the Santa Rita Experimental Range P3 flight box





AOP's IT guru Andrew flew in to D14 to repair a payload computer issue. Thanks Andrew!

Daily Coverage

D14 SRER_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	×	NL
	14				✓	✓	×	NL
	15				✓	✓	×	NL
	16				✓	✓	×	NL
	29				✓	✓	×	NL
Flown:	5							
D14 SRER_P3	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	65				✓	✓	×	NL
	66				✓	✓	×	NL
	67				✓	✓	×	NL
	68				✓	✓	×	NL
	69				✓	✓	×	NL
	70				✓	✓	×	NL
	71				✓	✓	×	NL
	72				✓	✓	×	NL
	73				✓	✓	×	NL
	74				✓	✓	×	NL
Flown:	10							

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

1

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: 0% (0/24)
 Green: 0% (0/24)
 Yellow: 0% (0/24)
 Red: 0% (0/24)

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: 38% (10/26)
 Green: 38% (10/26)
 Yellow: 0% (0/26)
 Red: 0% (0/26)

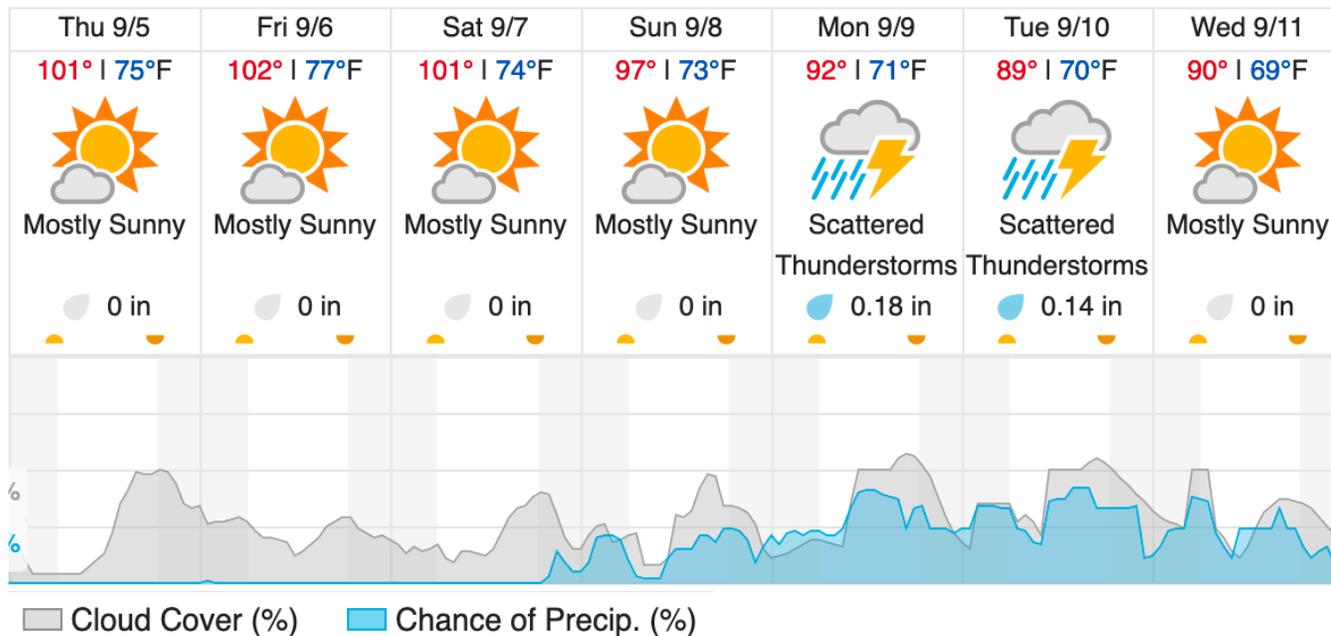
SYCA

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								

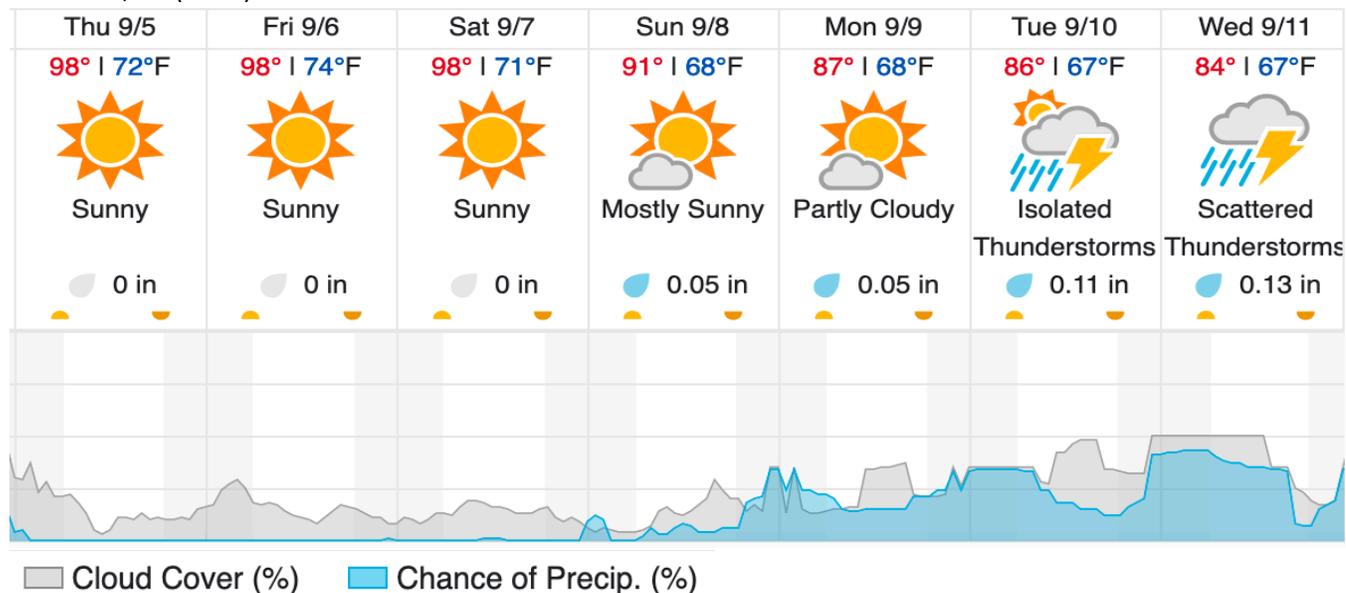
Flown: 0% (0/52)
 Green: 0% (0/52)
 Yellow: 0% (0/52)
 Red: 0% (0/52)

Weather Forecast

Tucson, AZ (SRER)



Rio Verde, AZ (SYCA)



Flight Collection Plan for 5 September 2019

Flyority 1:

Collection Area: Santa Rita Experimental Range – Priority 1 Flight Box (SRER_P1), Re-fly lines 14-16 & 29-35 if Green
 Flight Plan Name: D14_SRER_C1_P1_P2_P3_v5.pln
 On-station Time: 1620 – 2230 UTC / 0920 – 1530 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: 1620 – 2230 UTC / 0920 – 1530 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: 1620 – 2230 UTC / 0920 – 1530 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: 1620 – 2230 UTC / 0920 – 1530 MST

Crew: Mitch Haynes (Lidar), Cameron Chapman (NIS), Ivana Vu (Ground/GPS)