



September 3, 2019 Payload 2 Daily Flight Report



Date: 2019-09-03

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)

Days left in Domain: 9

Report Author: Mitch Haynes

Flight Crew: Mitch Haynes, Cameron Chapman

Flight Hours: 04:00

Ground/GPS: Ivana Vu

Hours until maintenance: 100.42

Pilots: Micah Hoogeveen, Paul Muth

Additional Personnel:

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

Summary

Clear morning once again over the Santa Rita Range allowed crew to collect 12 green lines before rising cumulus clouds shifted collections into yellow coverage. 3 additional lines were collected to complete initial coverage of the P1 box before returning to Scottsdale. All lines were collected without camera data.

Concerns

- No camera data was collected today as PhaseOne software crashed continuously on opening; believed to be a camera computer memory issue, or corrupted files because of a memory issue. Andrew is currently troubleshooting remotely, but an in-person repair may be necessary.
- GPS 09 problems at SRER thought to be steaming from bad cabling going into the receiver. GPS 07 was set up in it's place. New GPS receiver for Permanent station should arrive and be installed tomorrow. Thanks to Ivana for making the early morning trip down to Tucson!
- Cabin heat continues to be a concern. Reinforcements should arrive tomorrow in the form of a second AC Cart.

Comments

- Heard back from ADOT and our request to turn up the frequency of CORS Station AZVA (located nearby to SRER) to 1-sec was approved. This should provide some much-needed relief to the Bermuda Triangle of GPS troubles that Santa Rita has proven to be this year.

Daily Coverage

D14 SRER_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1	Green			✓	✓	✗	NL
	14		Yellow		✓	✓	✗	NL
	15		Yellow		✓	✓	✗	NL
	16		Yellow		✓	✓	✗	NL
	17	Green			✓	✓	✗	NL
	18	Green			✓	✓	✗	NL
	19	Green			✓	✓	✗	NL
	20	Green			✓	✓	✗	NL
	21	Green			✓	✓	✗	NL

	22				✓	✓	×	NL
	23				✓	✓	×	NL
	24				✓	✓	×	NL
	25				✓	✓	×	NL
	26				✓	✓	×	NL
	27				✓	✓	×	NL
	28				✓	✓	×	NL
Flown:	16							

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: 78% (31/40)

Yellow: 25% (10/40)

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: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

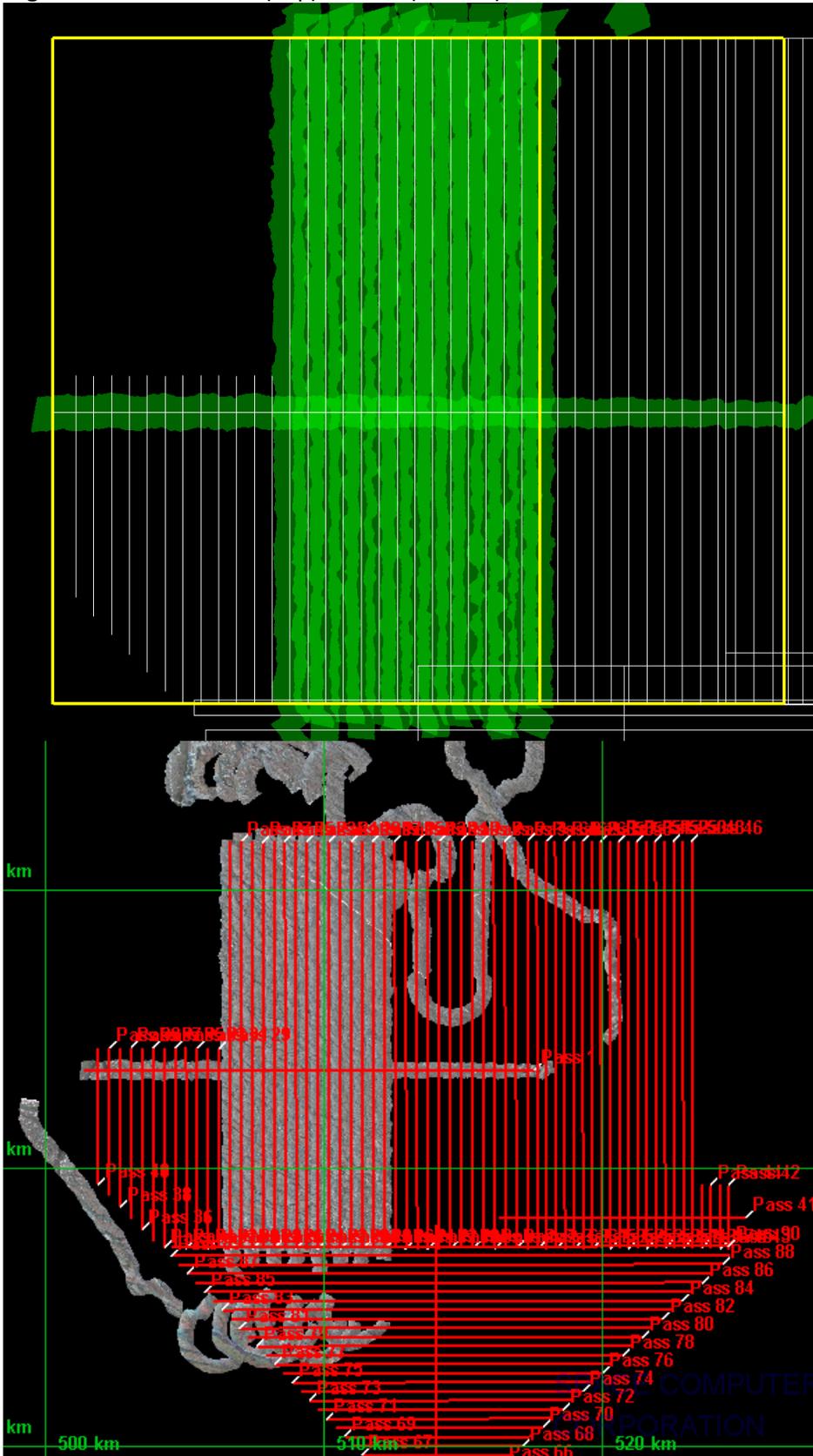
Red: 0% (0/26)

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								

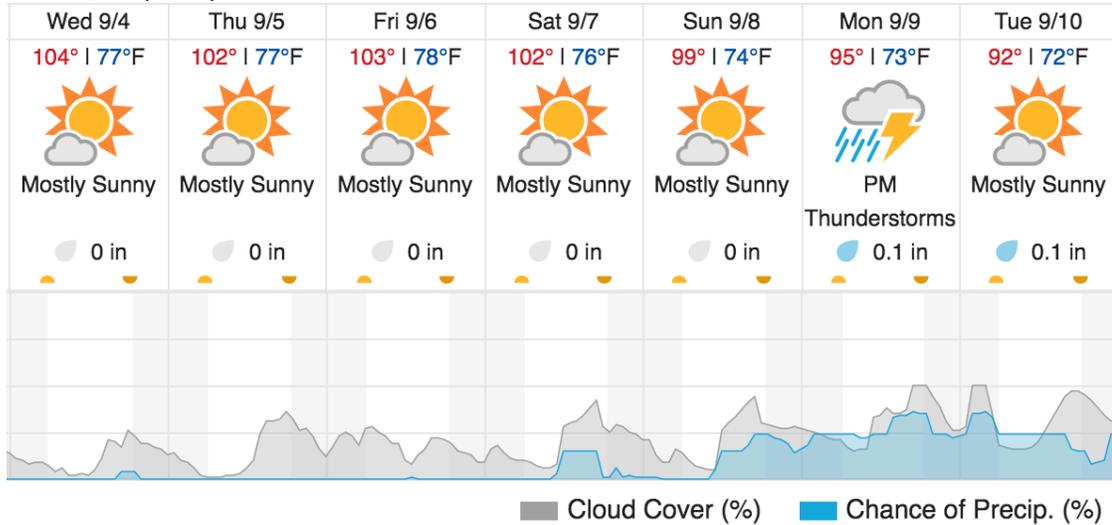
Flown: 0% (0/52)
Green: 0% (0/52)
Yellow: 0% (0/52)
Red: 0% (0/52)

Flight Screenshots: Lidar (Top) and NIS (Bottom)

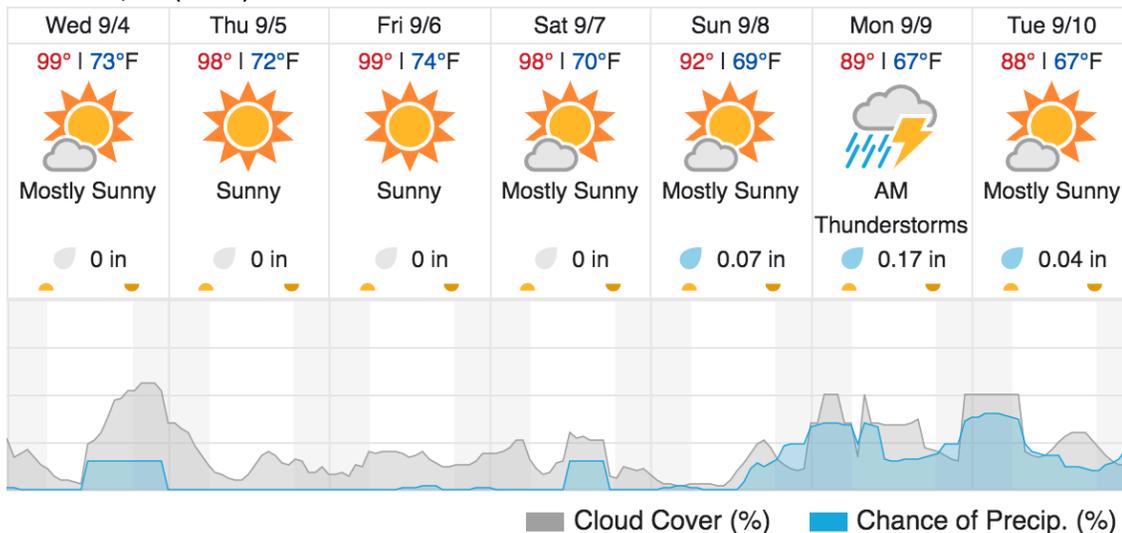


Weather Forecast

Tucson, AZ (SRER)



Rio Verde, AZ (SYCA)



Flight Collection Plan for 3 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: Cameron Chapman (Lidar), Mitch Haynes (NIS), Ivana Vu (Ground/GPS)