



September 1, 2019 Payload 2 Daily Flight Report



Date: 2019-09-01
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: 11

Report Author: Ivana Vu
Flight Crew: Ivana Vu, Mitch Haynes
Ground/GPS: Mitch Haynes
Pilots: Paul Muth, Micah Hoogeveen
Additional Personnel: None
GPS Instruments: 02 - FBO_KSDL, 09 - SRER
Flight Hours: 03:48, 00:49
Hours until maintenance: 104.42

Summary

Clear skies at Santa Rita allowed for “green” data collection until morning convection caused cumulus clouds to form over the site. Priority air-shed lines and a portion of the TOS boundary were completed before crew made a fuel stop at KTUS and returned to Scottsdale.

Concerns

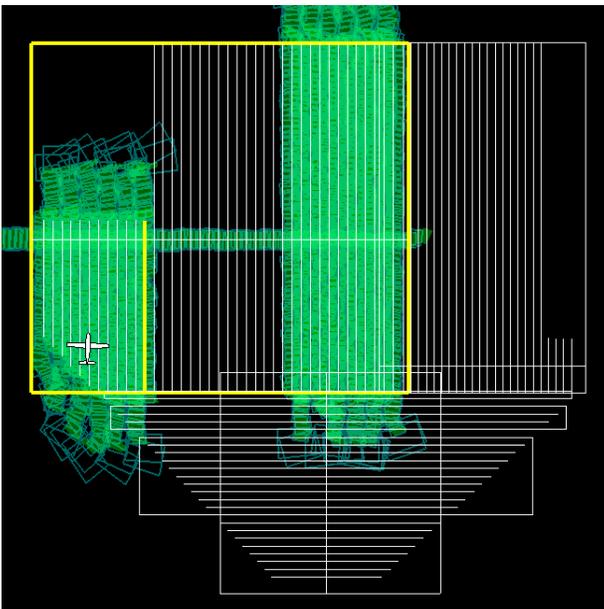
Aircraft cabin temperature reached 43°C this evening while parked inside the hangar despite extra cooling efforts. A 2nd air conditioning unit will be shipped from Boulder after the holiday.

Comments

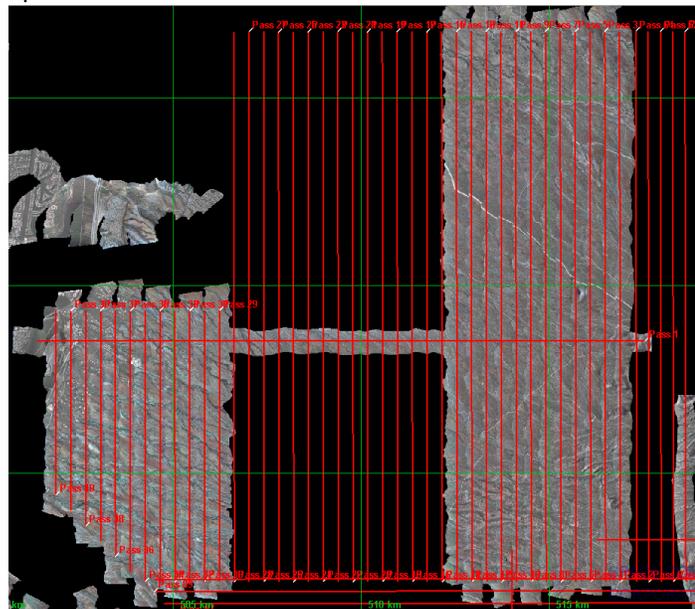
Search for a viable GPS location at SYCA is still in progress

Flight Screenshots

Lidar



Spectrometer



Pictures

Santa Rita Experimental Range



Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	10-50%	>50%

Daily Coverage

D14 SRER_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	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
Flown:	25							

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: 62% (25/40)
 Green: 45% (18/40)
 Yellow: 18% (7/40)
 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)

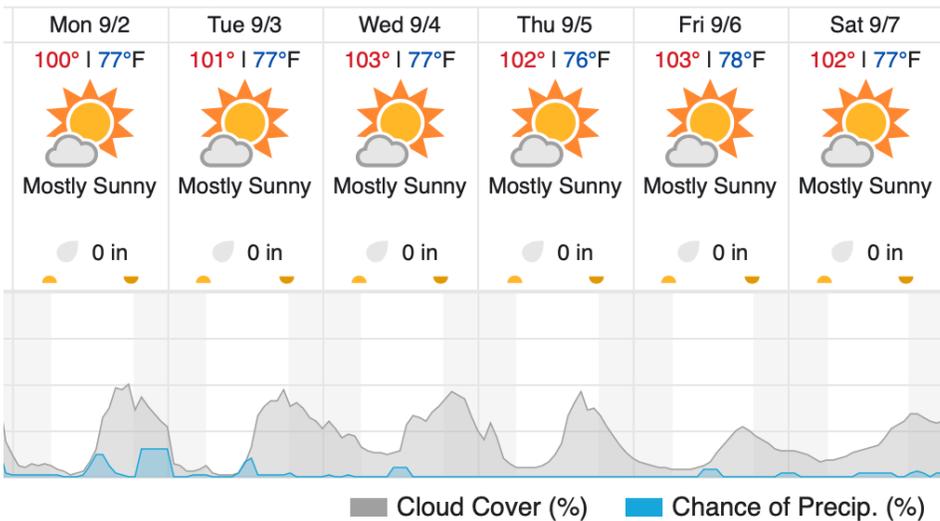
SYCA

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									

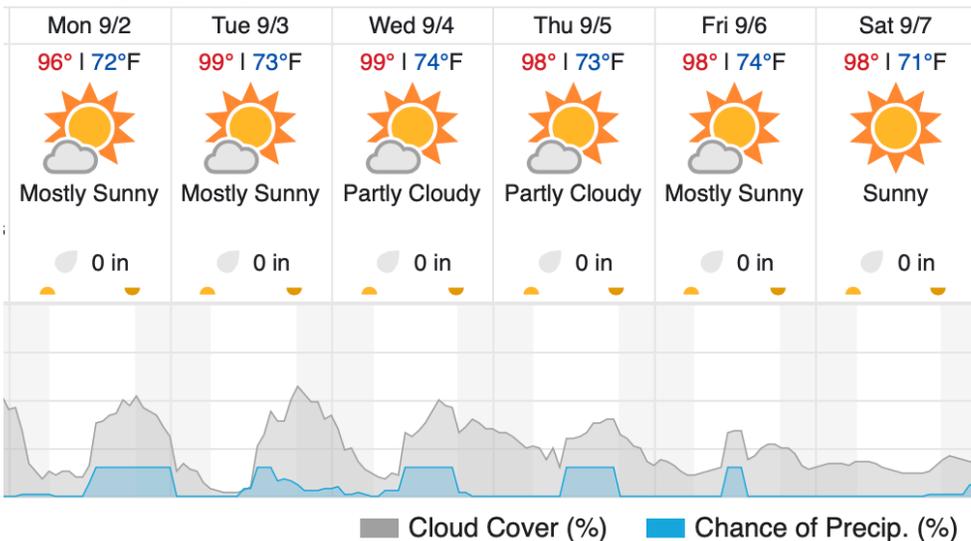
Flown: 0% (0/52)
 Green: 0% (0/52)
 Yellow: 0% (0/52)
 Red: 0% (0/52)

Weather Forecast

Tucson, AZ (SRER)



Rio Verde, AZ (SYCA)



Flight Collection Plan for 2 September 2019

Flyority 1:

Collection Area: Santa Rita Experimental Range – Priority 1 Flight Box (SRER_P1)

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)

Will not be attempted until sufficient GPS Coverage is available

Flight Plan Name: D14_SYCA_A1_P1_v5_750_max.pln

On-station Time: 1620 – 2230 UTC / 0920 – 1530 MST

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

Flight Collection Plan for 3 September 2019

Flyority: Same as previous day

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