August 26, 2019 Payload 2 Daily Flight Report

Date: 2019-08-26
Flight Campaign ID: 2019_P2C1
Airport, FBO ID, City: El Paso International Airport (KELP) - El Paso, TX

Domain: 14
Sites Flown: JORN_P1 (Jornada Priority 1)
Days left in Domain: 17

Report Author: Mitch Haynes
Flight Crew: Mitch Haynes, Ivana Vu
Ground/GPS: Ivana Vu
Pilots: Paul Muth, Micah Hoogeveen
Additional Personnel:
GPS Instruments: 02 - FBO_KELP, U-P026, U-RG07, U-SG33

Flight Hours: 02:39
Hours until maintenance: 114.72

Summary
High cirrus layer over SRER forced attention once again back to JORN, finishing off the Priority 1 box before the same high cirrus layer forced collection into yellow conditions.

Concerns
- The SRER GPS is offline and not responding to attempts to connect to it. Unless the unit returns online on its own, no SRER flights will be attempted till D14 staff can investigate on Wednesday.

Comments
- Assuming the JORN P2 flight box is completed tomorrow, crew will look to relocate to an airport closer to the AZ sites. So far, Scottsdale is looking to be the frontrunner, as it's seemingly the only airport within the entire state of Arizona with hangar space available. Move would likely occur later in the week, and would allow the potential to fly Sycamore Creek if conditions presented themselves.

Daily Coverage

D14|JORN_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
	27				✓	✓	✓	NLC
	28				✓	✓	✓	NLC
	29				✓	✓	✓	NLC
	30				✓	✓	✓	NLC
	31				✓	✓	✓	NLC
	32				✓	✓	✓	NLC
	33				✓	✓	✓	NLC
	34				✓	✓	✓	NLC

Flown:	13							

Estimated Cloud Cover Key

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

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: 5% (1/21)
Green: 5% (1/21)
Yellow: 0% (0/21)
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: 0% (0/40)
Green: 0% (0/40)
Yellow: 0% (0/40)
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																

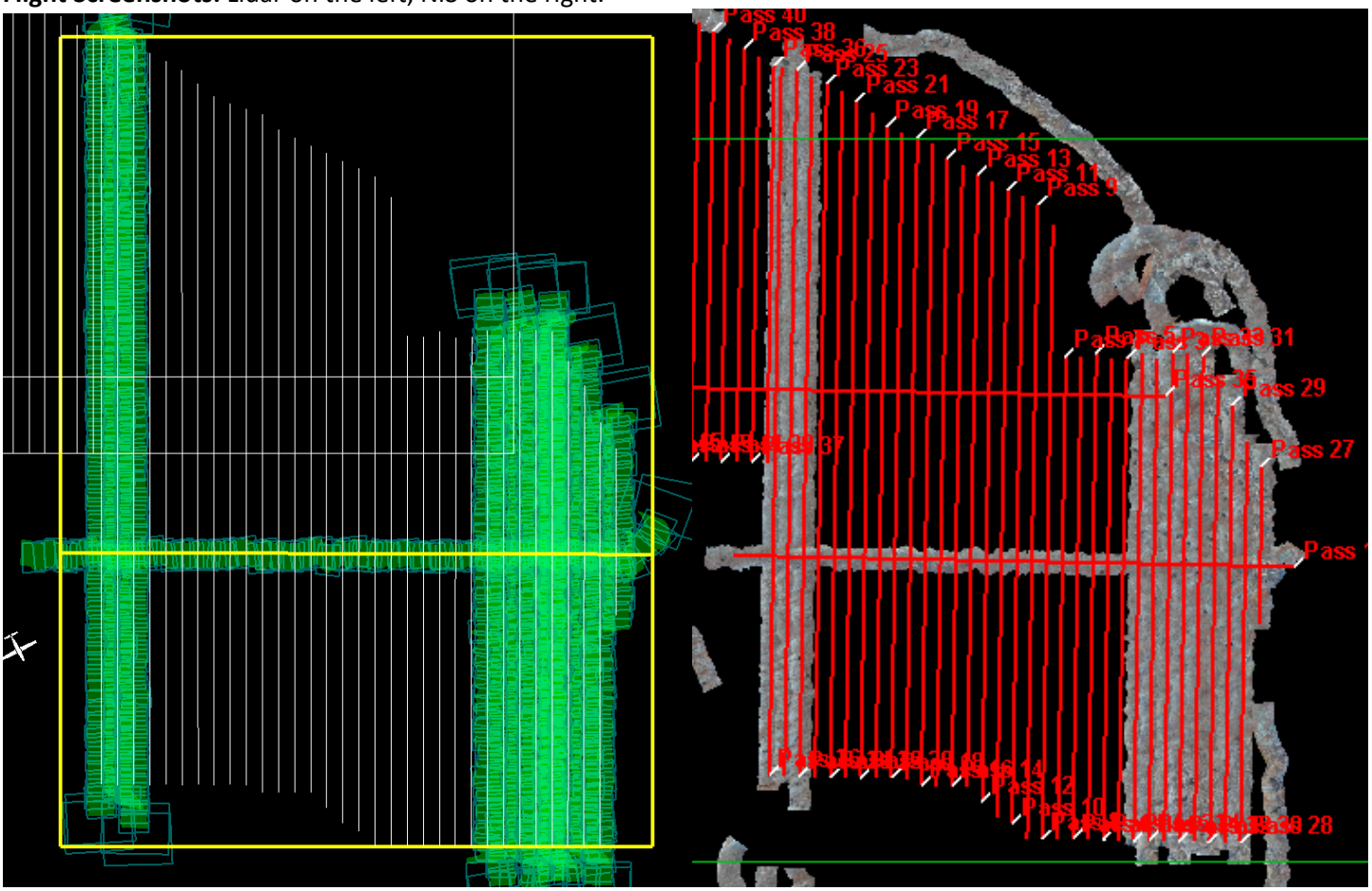
Flown: 0% (0/24)
Green: 0% (0/24)
Yellow: 0% (0/24)
Red: 0% (0/24)

SRER_P3

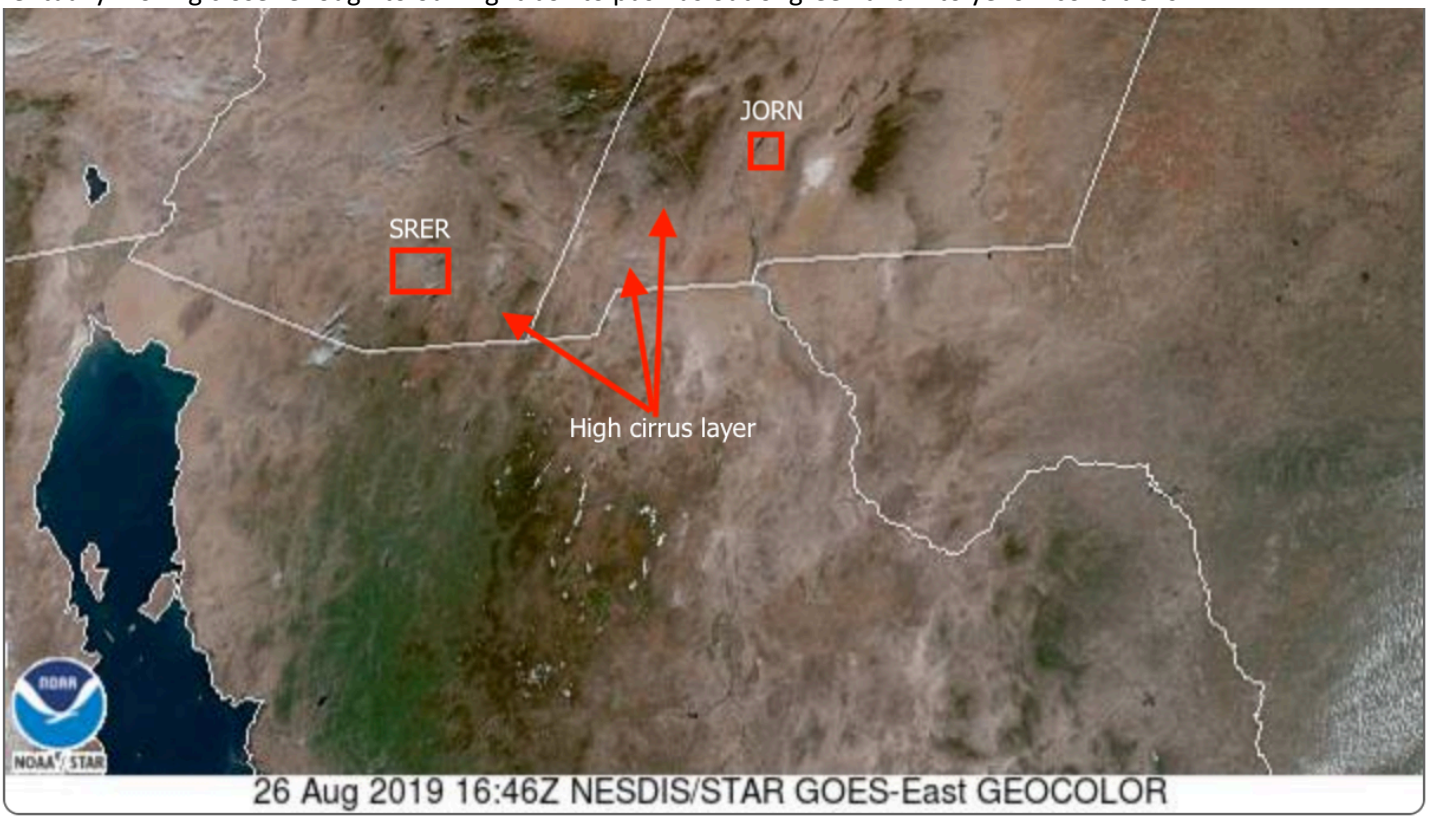
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90														

Flown: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

Flight Screenshots: Lidar on the left, NIS on the right.

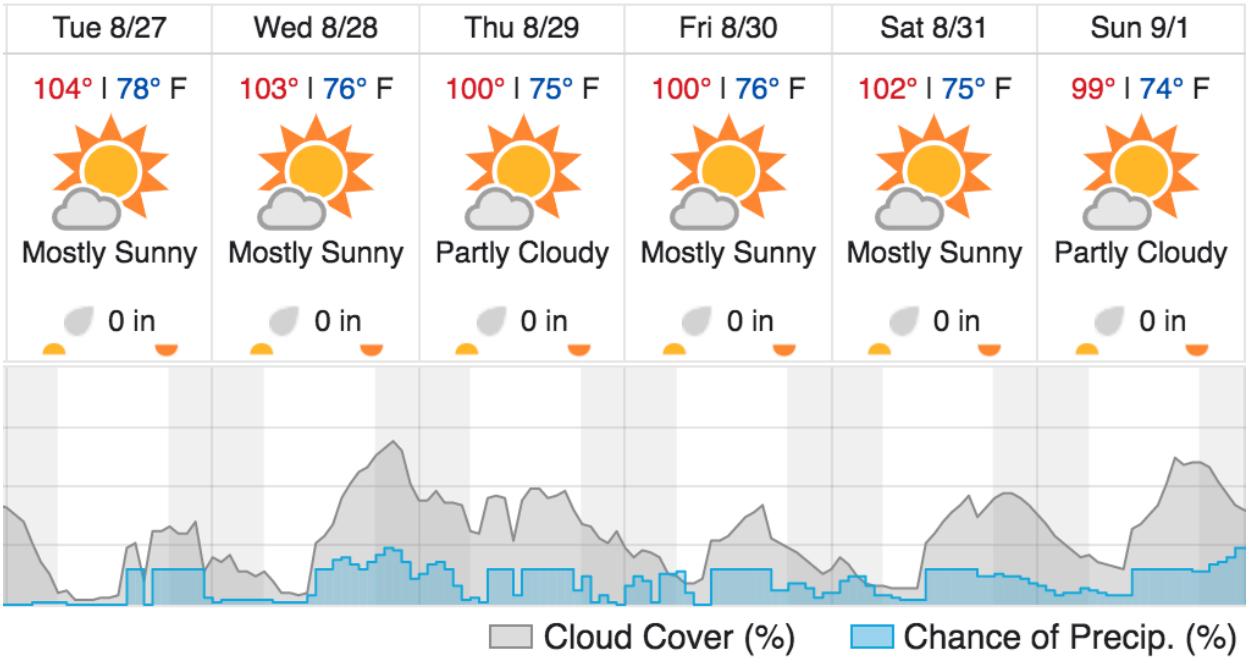


Pictures: Somewhat hard to till, but you can just barely make out the high cirrus layer plauging SRER today, and eventually moving closer enough to our flight box to push us out of green and into yellow conditions.

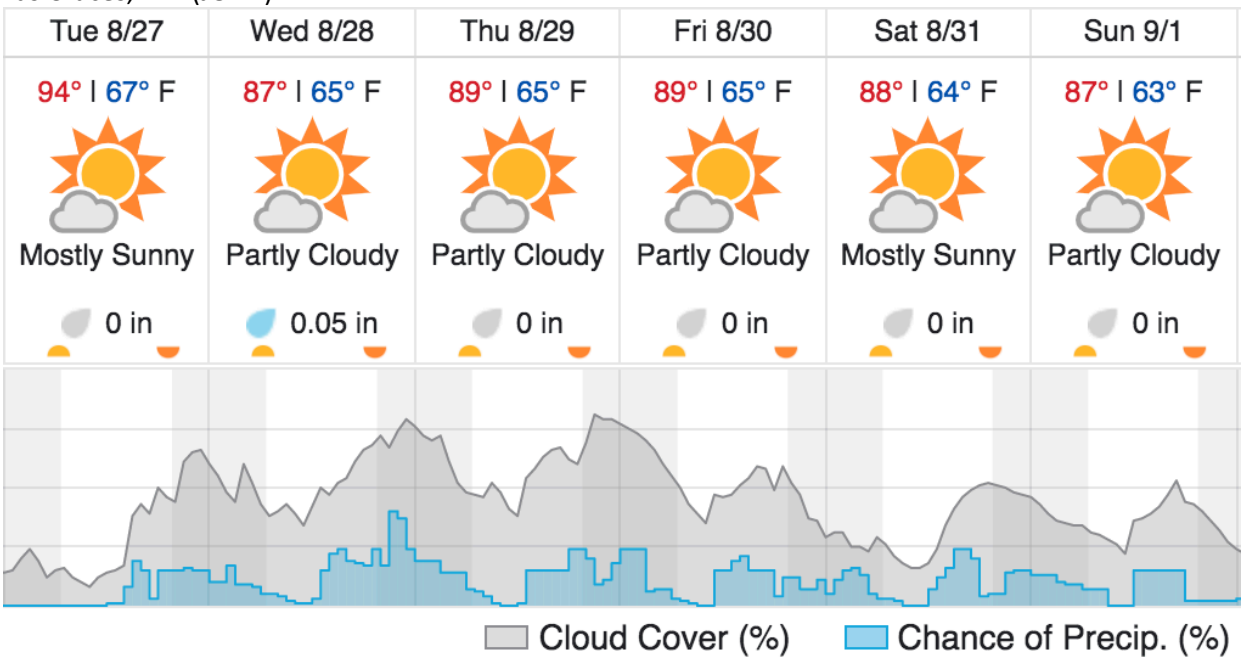


Weather Forecast

Tucson, AZ (SRER)



Las Cruces, NM (JORN)



Flight Collection Plan for 27 August 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: 1610 – 2240 UTC / 0910 – 1540 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: 1610 – 2240 UTC / 0910 – 1540 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: 1610 – 2240 UTC / 0910 – 1540 MST
Flyority 4:
Collection Area: Jornada – Priority 2 Flight Box (JORN_P2)
Flight Plan Name: D14_JORN_R1_P1_P2_v5.pln
On-staton Time: 1600 – 2220 UTC / 1000 – 1620 MDT
Crew: Ivana Vu (Lidar), Mitch Haynes (NIS/GPS)

Flight Collection Plan for 28 August 2019
Flyority 1-4: Same as previous day
Crew: Mitch Haynes (Lidar), Ivana Vu (NIS/GPS)