

Payload 1 Daily Flight Report



Date: 2022-09-05 Flight Campaign ID: P1C1 Airport, FBO ID, City: Tucson International Airport - Tucson, AZ, Las Cruces International Airport (KLRU) - Las Cruces, NM Aircraft: N331AR

Domain: 14 (Desert Southwest) Sites Flown: JORN P1 (Jornada Priority 1), JORN P2 (Jornada Priority 2) Days left in Domain: 6

Report Author: Abe Lidar Operators: Abe Spectrometer Operators: Elissa Hours until maintenance: 25.85 Pilots: Magnus, Steven

Flight Hours: 01:44:00, 04:46:00, 01:25:00 GPS Instruments: 04 - FBO_KTUS, AOP-JORN

Summary

The crew again took to the sky at the crack of down this morning to fly the JORN site. The sky was completely clear allowing the crew to finish the JORN P1 box in green, and begin to green up the P2 box. 24 lines were completed in the P1 Box and 8 in the P2 box.

Concerns

-The extraction of yesterday's flight was still extracting the first waveform disc more than 14 hours after starting. The extended extraction led to a error in troubleshooting and necessitated a restart of the extraction. This will put us several days behind in extractions.

-The UPDU during our last fuel stop in Las Cruces was at 49deg. The crew decided to end the POS to avoid losing it if the UPDU shut down at 50deg. There was a CORS station within 20km.

Comments

None

Daily Coverage

Estimated	l Cloud Co	ver Key
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D14|JORN_P1

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	24	25	26	27	28	29	30
Lidar	\checkmark																			
Spectrometer	\checkmark																			
Camera	\checkmark																			
Cloud Cover																				

Line #	31	32	33	34
Lidar	\checkmark	\checkmark	\checkmark	\checkmark
Spectrometer	\checkmark	\checkmark	\checkmark	\checkmark
Camera	\checkmark	\checkmark	\checkmark	\checkmark
Cloud Cover				

Total number of lines flown: 24

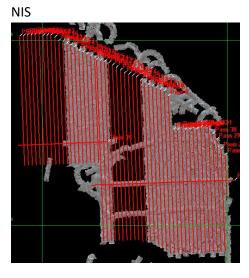
D14|JORN_P2

Line #	36	37	38	39	40	41	42	43
Lidar	\checkmark							
Spectrometer	\checkmark							
Camera	\checkmark							
Cloud Cover								

Total number of lines flown: 8

Flight Screenshots





Cumulative Domain Coverage

D14|JORN_P1 (Jornada Priority 1)

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%	6 (34/3	34)											_					
Green		•																	
Yellow	<i>ı</i> : 0%	(0/34)																
Red:	0% (0/	/34)																	

D14|JORN_P2 (Jornada Priority 2)

35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55																			
Flown	: 100%	5 (21/2	21)																
Green	: 43%	(9/21)																
Yellow	<i>ı</i> : 57%	5 (12/2	21)																
Red:	0% (0/	/21)																	

D14 | N14A (D14 Nominal Runway)

1 Flown: 0% (0/1) Green: 0% (0/1) Yellow: 0% (0/1) Red: 0% (0/1)

D14 | SRER_P1 (Santa Rita Experimental Range Priority 1)

																			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: 98% (39/40) Yellow: 2% (1/40) Red: 0% (0/40)

D14|SRER_P2 (Santa Rita Experimental Range Priority 2)

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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)																	

D14|SRER_P3 (Santa Rita Experimental Range Priority 3)

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	r: 0%	(0/26))																
Red:	0% (0/	/26)																	

Weather Forecast

Wed 9/7	Thu 9/8	Fri 9/9	Sat 9/10	Sun 9/11	Mon 9/12
102° 74°F	99° 75°F	93° 73°F	93° 73°F	95° 74°F	96° 73°F
Mostly Sunny	Cloudy	Cloudy	PM Thunderstorms	Partly Cloudy	Partly Cloudy
🔍 0 in	0 in	0 in	0.03 in	0 in	🖉 0 in
			M.		
	*	102° 74°F 99° 75°F Image: Second state of the	102° 74°F 99° 75°F 93° 73°F Image: Mostly Sunny Image: Cloudy Image: Cloudy	102° 74°F 99° 75°F 93° 73°F 93° 73°F Image: Mostly Sunny Cloudy Cloudy PM Thunderstorms Thunderstorms Thunderstorms	102° 74°F 99° 75°F 93° 73°F 93° 73°F 93° 73°F 95° 74°F Mostly Sunny Cloudy Cloudy PM Partly Cloudy

Hatch, NM

Tue 9/6	Wed 9/7	Thu 9/8	Fri 9/9	Sat 9/10	Sun 9/11	Mon 9/12
93° 62°F	95° 62°F	93° 65°F	94° 66°F	92° 66°F	88° 64°F	90° 65°F
XÖX						1Úx
Sunny	Mostly Sunny	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Cloudy	Sunny
🕖 0 in	🕖 0 in	🔍 0 in	🖉 0 in	🔵 0 in	🖉 0 in	🔵 0 in
-						-
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	Cloud Cover (%)		Chance of Precip. (%)
source:	wunderground.co	m	

### Flight Collection Plan for 6 September 2022

Flyority 1

Collection Area: Santa Rita Experimental Range (SRER) – Priority 2 Box Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml 40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 2

Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Box Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml 40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 3 (*if green*) Collection Area: Jornada (JORN) – Priority 2 Flight Box Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml 35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Flyority 4 Collection Area: Nominal Runway – D14 Flight Plan Name: D14_N14A_Nominal_Runway_Test_v1_PRM On-station Time: N/A

Crew: Elissa, Abe