

## Payload 3 Daily Flight Report



Date: 2025-09-11

Flight Campaign ID: P3C1

Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ; Las Cruces International Airport (KLRU) - Las

Cruces, NM Aircraft: N821AR

Domain: 14 (Desert Southwest)

Sites Flown: JORN\_P1 (Jornada Priority 1)

Days left in Domain: 4

Report Author: Mitch

Lidar Operators: Mitch Flight Hours: 01:26, 04:12, 01:43

Spectrometer Operators: Matt Hours until maintenance: 61.08

Pilots: Vince, Greg GPS Instruments: AOP\_JORN, C-NMSU

#### **Summary**

Early morning as the flight crew made the long transit to Las Cruces in order to fly Jornada. Most of the P1 box was collected under green conditions.

#### Concerns

GPU in Las Cruces performed nominal during the pre-collect fuel stop this morning. However, upon landing post-collect for fuel in the afternoon, it began showing concerning amperage spikes, some of which approached our max switch ratings. It's hypothesized that the poor afternoon performance is related to the much higher outside temperatures at that time. Crew will attempt to avoid GPU usage in the afternoon at KLRU on the next JORN flight.

#### **Comments**

Cam departed D14 today. Thanks for the hard work, Cam!

#### **Daily Coverage**

**Estimated Cloud Cover Key** 

Green: Yellow: Red: 0-10% 11-50% >50%

Solar Angle Less Than 40 degrees: (\*)

# D14|JORN\_P1

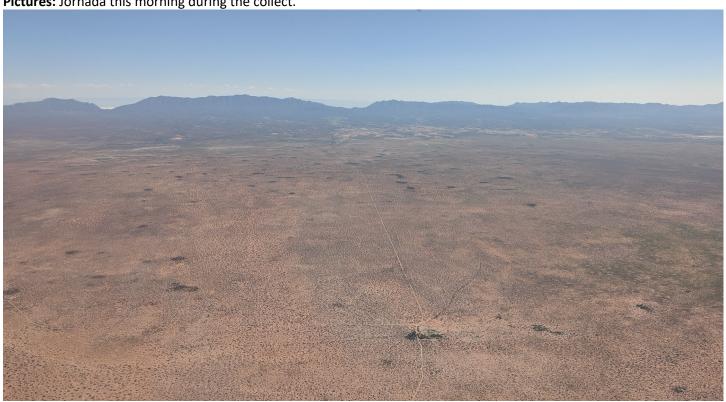
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	<b>√</b>	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<b>✓</b>
Spectrometer	✓	✓	<b>√</b>	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<b>✓</b>
Camera	✓	✓	<b>√</b>	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<b>✓</b>
Cloud Cover																				

Line #	22	23	27	28	29	30	31	32	33	34
Lidar	✓	✓	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>\</b>	<b>✓</b>
Spectrometer	<b>√</b>	✓	<b>√</b>	<b>√</b>	>	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>✓</b>
Camera	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	>	>	>	>	>	<b>✓</b>

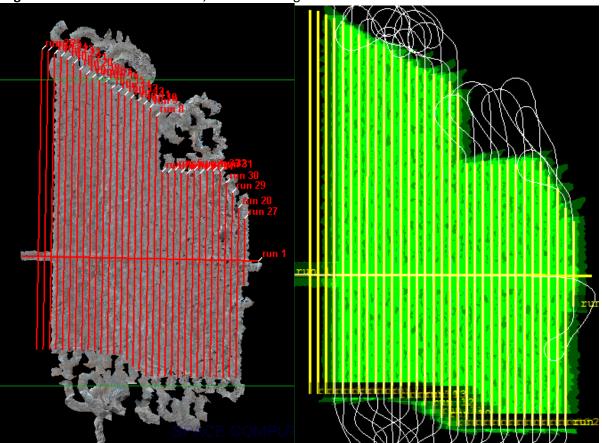
Cloud Cover

Total number of lines flown: 30

**Pictures:** Jornada this morning during the collect.



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



### **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: 91% (31/34) Green: 79% (27/34) Yellow: 12% (4/34) Red: 0% (0/34)

#### D14|JORN P2 (Jornada Priority 2)

<u> </u>	30111	<u>'-' -</u>	(30111	aaa i	11011	· , - ,													
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54

Flown: 0% (0/20) Green: 0% (0/20) Yellow: 0% (0/20) Red: 0% (0/20)

#### D14|SRER P1 (Santa Rita Experimental Range Priority 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% (39/39) Green: 100% (39/39) Yellow: 0% (0/39) Red: 0% (0/39)

#### D14|SRER P2 (Santa Rita Experimental Range Priority 2)

-				١																
	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
ſ	62	63	64			•	•	•	•		•	•		•	•	•	•			

Flown: 9% (2/23) Green: 4% (1/23) Yellow: 4% (1/23) Red: 0% (0/23)

### D14|SRER\_P3 (Santa Rita Experimental Range Priority 3)

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% (0/25) Green: 0% (0/25) Yellow: 0% (0/25) Red: 0% (0/25)

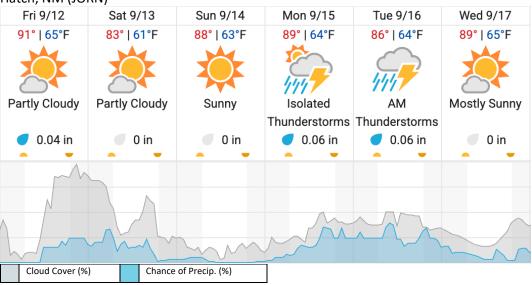
<sup>\*</sup> Flown within 35deg solar angle

#### **Weather Forecast**

Tucson, AZ (SRER)

1463011, 712 (311	L11/				
Fri 9/12	Sat 9/13	Sun 9/14	Mon 9/15	Tue 9/16	Wed 9/17
97°   74°F	96°   71°F	97°   73°F	100°   75°F	100°   76°F	100°   76°F
Mostly Sunny	Partly Cloudy	Mostly Sunny	Sunny	Mostly Sunny	Mostly Sunny
0 in	0 in	0 in	0 in	0 in	0 in
•	•	•	•	•	•
		M A			
2001 //r	LAM!				

Hatch, NM (JORN)



source: wunderground.com

### Flight Collection Plan for 12 September 2025

Flyority 1

Collection Area: Santa Rita Experimental Range (SRER) P2

Flight Plan Name: D14\_SRER\_C1\_P2\_v8\_Q780

On-Station Time: 1630 UTC / 0930 L

Flyority 2

Collection Area: Santa Rita Experimental Range (SRER) P3

Flight Plan Name: D14\_SRER\_C1\_P3\_v8\_Q780

On-Station Time: 1630 UTC / 0930 L

Flyority 3

Collection Area: Jornada (JORN) – Priority 2A Flight Box

Flight Plan Name: D14\_JORN\_R1\_P2\_v4\_Q780 On-Station Time: 1550 UTC / 0850 MST \*35 degree

Crew: Matt (Lidar), Mitch (NIS)