



Payload 3 Daily Flight Report



Date: 2026-09-02

Flight Campaign ID: P3C1

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

Aircraft: N537AR

Domain: 14 (Desert Southwest)

Sites Flown: JORN_P2 (Jornada Priority 2)

Days left in Domain: 12

Report Author: John

Lidar Operators: John

Spectrometer Operators: Alyssa

Pilots: Jeff, Landon

Flight Hours: 03:50:00, 01:26:00

Hours until maintenance: 108.73

GPS Instruments: C-NMSU, C-PIMA

Summary

Due to poor weather in the Tucson area, and promising conditions at JORN, we decided to head to east. Our arrival found Yellow conditions, so we collected the lower priority area (Priority 2 with the longer lines). After refueling at Las Cruces, conditions in Tucson were getting worse, so we decided to head back before the option to come home was closed.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

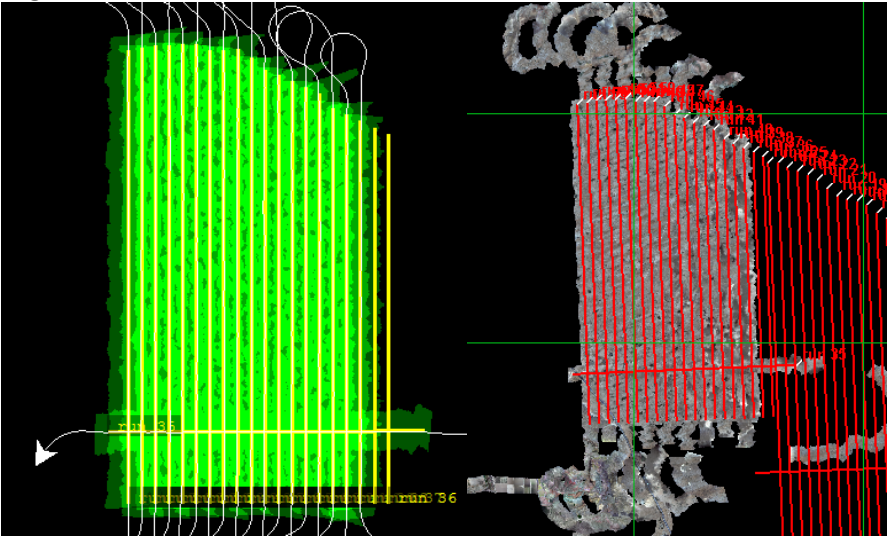
Solar Angle Less Than 40 degrees: (*)

D14|JORN_P2

Line #	35	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Lidar		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

Total number of lines flown: 19

Flight Screenshots



Lidar screenshot

NIS screenshot

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														

Flown: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 0% (0/26)

* Flown within 35deg solar angle

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: 90% (19/21)

Green: 0% (0/21)

Yellow: 67% (14/21)

Red: 24% (5/21)

* Flown within 35deg solar angle

D14|SRER_P1 (Santa Rita Experimental Range Priority 1, Lines 3-28 on Payload #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: 67% (26/39)

Green: 67% (26/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

* Flown within 35deg solar angle

D14|SRER_P2 (Santa Rita Experimental Range Priority 2)

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% (0/23)

Green: 0% (0/23)

Yellow: 0% (0/23)

Red: 0% (0/23)

* Flown within 35deg solar angle

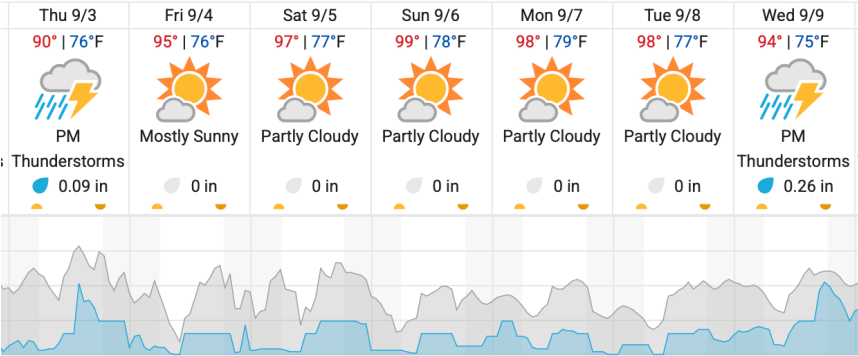
D14|SRER_P3 (Santa Rita Experimental Range Priority 3)

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															

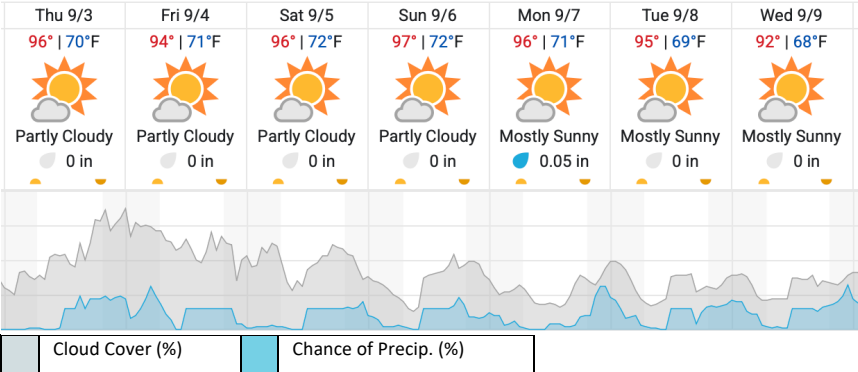
Flown: 0% (0/25)
Green: 0% (0/25)
Yellow: 0% (0/25)
Red: 0% (0/25)
* Flown within 35deg solar angle

Weather Forecast

Tucson, AZ (SRER)



Las Cruces, NM (JORN)



source: wunderground.com

Flight Collection Plan for 3 September 2026

Flyority 1

Site: Santa Rita Experimental Range (SRER) – Priority 1 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 9:20L/16:20UTC

Flyority 2

Site: Santa Rita Experimental Range (SRER) – Priority 2 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 9:20L/16:20UTC

Flyority 3

Site: Santa Rita Experimental Range (SRER) – Priority 3 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 9:20L/16:20UTC

Flyority 4

Site: Jornada (JORN) – Priority 1 Flight Box

Flight Plan Name: D14_JORN_C1_P1_P2_v5_PRM.xml

Solar Angle Time: 09:40L/15:40UTC

Flyority 5

Site: Jornada (JORN) – Priority 2 Flight Box

Flight Plan Name: D14_JORN_C1_P1_P2_v5/v6_PRM.xml

Solar Angle Time: 09:40L/15:40UTC

Crew: Alyssa (Lidar), John (NIS)