



Payload 3 Daily Flight Report

Date: 2026-09-04

Flight Campaign ID: P3C1

Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ

Aircraft: N537AR

Domain: 14 (Desert Southwest)

Sites Flown: SRER_P2 (Santa Rita Experimental Range Priority 2)

Days left in Domain: 10

Report Author: John

Lidar Operators: John

Spectrometer Operators: Alyssa

Pilots: Jeff, Landon

Flight Hours: 00:26

Hours until maintenance: 108.30

GPS Instruments: AOP_SRER, C-PIMA

Summary

The cloud conditions appeared high enough to collect lidar data, but upon arriving at the Priority 2 site, we found them to be -500 feet too low for any data collection. We returned to base.

Concerns

The initial inflight lidar test had a 'too hot to write data' error appear on the Riegl system. The second inflight lidar test did not have the error. We did have considerable heat and ground time while troubleshooting the NIS.

Comments

After consulting with the NEON Lab team, we were able to get the NIS image capture system to work properly.

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)

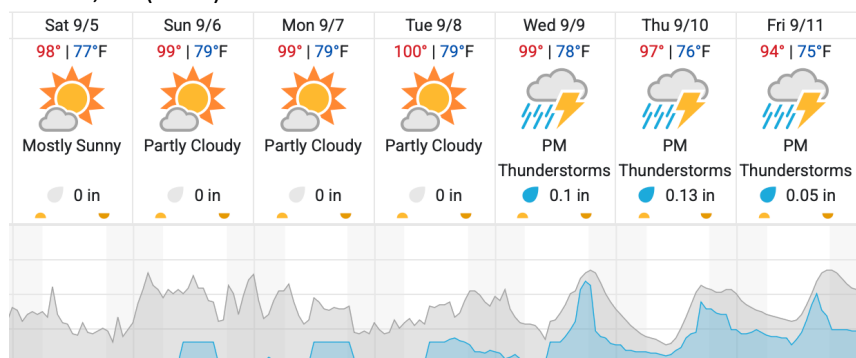
Yellow: 0% (0/25)

Red: 0% (0/25)

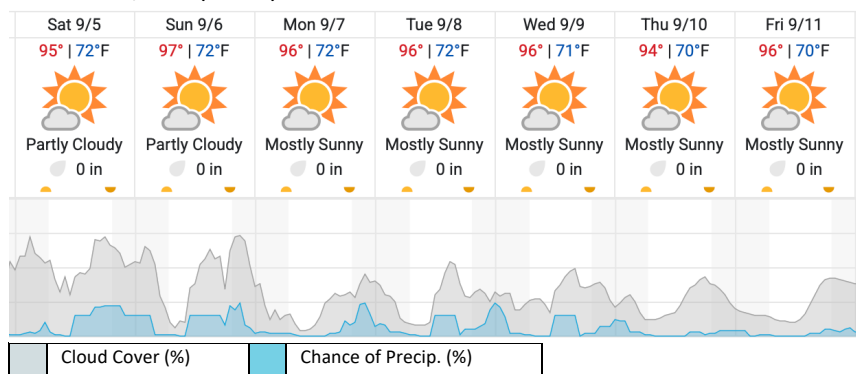
* Flown within 35deg solar angle

Weather Forecast

Tucson, AZ (SRER)



Las Cruces, NM (JORN)



source: wunderground.com

Flight Collection Plan for 5 September 2026

Flyority 1

Site: Santa Rita Experimental Range (SRER) – Priority 1 Flight Box – *lines 29-40*

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

Flyority 6

Site: Santa Rita Experimental Range (SRER) – Priority 1 Flight Box – *lines 2-28*

Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml

Solar Angle Time: 9:20L/16:20UTC

Crew: Alyssa (Lidar), John (NIS)