



## Payload 3 Daily Flight Report

**Date:** 2025-09-09

**Flight Campaign ID:** P3C1

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

**Aircraft:** N821AR

**Domain:** 14 (Desert Southwest)

**Sites Flown:** SRER\_P1 (Santa Rita Experimental Range Priority 1 ), SRER\_P2 (Santa Rita Experimental Range Priority 2)

**Days left in Domain:** 6

**Report Author:** Mitch

**Lidar Operators:** Mitch

**Spectrometer Operators:** Cameron

**Pilots:** Vince, Greg

**Flight Hours:** 01:11

**Hours until maintenance:** 68.43

**GPS Instruments:** AOP\_SRER, C-PIMA

### Summary

Crew mobilized to the airport early in hopes of a longer clear sky window this morning, however we were once again thwarted by cumulus clouds, only about to collect 7 lines and a cross strip before being forced to abandon collect.

### Concerns

None

### Comments

Matt arrived in D14 today. Welcome, Matt!

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

#### D14|SRER\_P1

| Line #       | 36 | 37 | 38 | 39 | 40 |
|--------------|----|----|----|----|----|
| Lidar        | ✓  | ✓  | ✓  | ✓  | ✓  |
| Spectrometer | ✓  | ✓  | ✓  | ✓  | ✓  |
| Camera       | ✓  | ✓  | ✓  | ✓  | ✓  |
| Cloud Cover  |    |    |    |    |    |

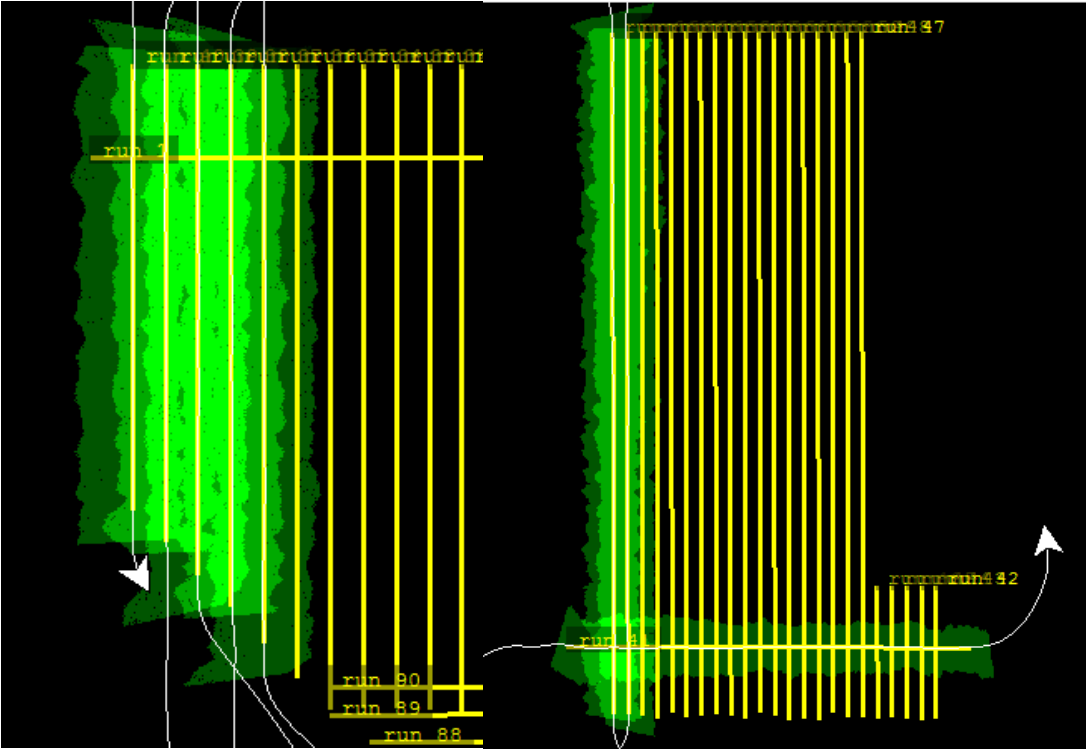
Total number of lines flown: 5

#### D14|SRER\_P2

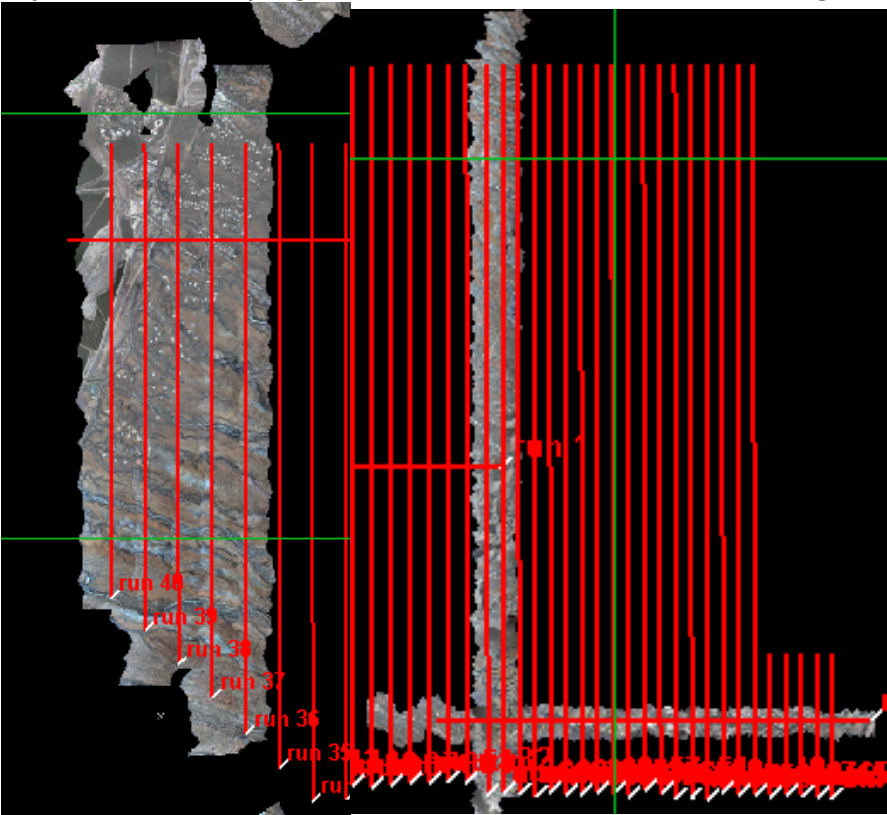
| Line #       | 63 | 64 |
|--------------|----|----|
| Lidar        | ✓  | ✓  |
| Spectrometer | ✓  | ✓  |
| Camera       | ✓  | ✓  |
| Cloud Cover  |    |    |

Total number of lines flown: 2

Flight Screenshots



Top Left: P1 Lidar Top Right: P2 Lidar Bottom Left: P1 NIS Bottom Right: P2 NIS



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: 0% (0/34)

Green: 0% (0/34)  
Yellow: 0% (0/34)  
Red: 0% (0/34)  
\* 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 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

Flown: 0% (0/20)  
Green: 0% (0/20)  
Yellow: 0% (0/20)  
Red: 0% (0/20)  
\* Flown within 35deg solar angle

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)  
\* 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: 9% (2/23)  
Green: 4% (1/23)  
Yellow: 4% (1/23)  
Red: 0% (0/23)  
\* Flown within 35deg solar angle

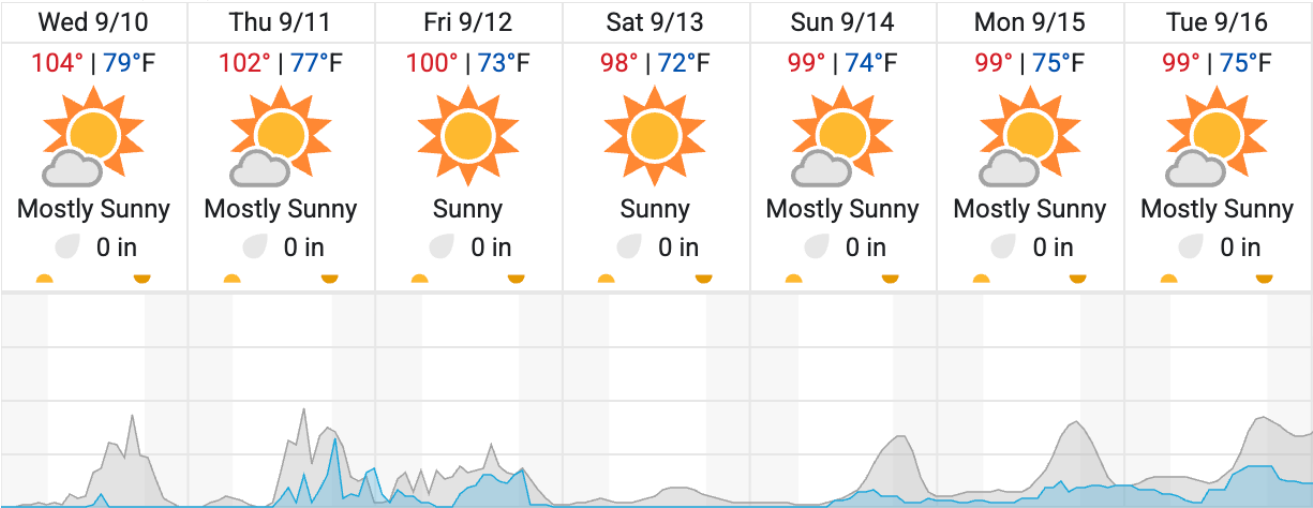
D14|SRER\_P3 (Santa Rita Experimental Range Priority 3 )

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

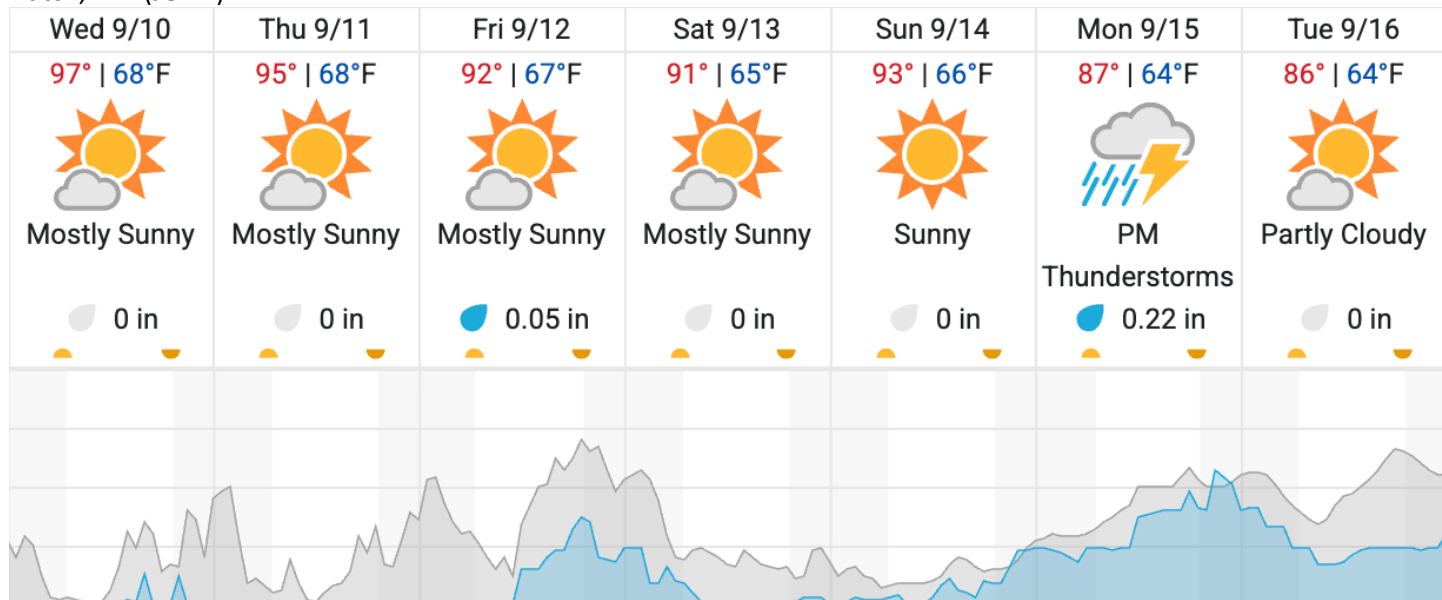
Flown: 0% (0/25)  
Green: 0% (0/25)  
Yellow: 0% (0/25)  
Red: 0% (0/25)  
\* Flown within 35deg solar angle

Weather Forecast

Tucson, AZ (SRER)



# Hatch, NM (JORN)



source: wunderground.com

## Flight Collection Plan for 10 September 2025

### Flyority 1

Collection Area: Santa Rita Experimental Range (SRER) P2

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

On-Station Time: 1620 UTC / 0920 L

### Flyority 3

Collection Area: Santa Rita Experimental Range (SRER) P3

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

On-Station Time: 1620 UTC / 0920 L

### Flyority 4

Collection Area: Jornada (JORN) – Priority 1 Flight Box

Flight Plan Name: D14\_JORN\_R1\_P1\_v4\_Q780

On-Station Time: 1540 UTC / 0820 L \*35 degree

### Flyority 5

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

Flight Plan Name: D14\_JORN\_R1\_P2\_v4\_Q780

On-Station Time: 1540 UTC / 0820 L \*35 degree

**Crew:** Cam (Lidar), Mitch (NIS), Matt (Ground)