Payload 3 Daily Flight Report

Date: 2021-08-29
Flight Campaign ID: P3C1
Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ
Aircraft: N615AR

Domain: 14 (Desert Southwest)
Sites Flown: None
Days left in Domain: 10

Report Author: Elissa Barris
Lidar Operators: Elissa Barris
Spectrometer Operators: Abe Morrison
Pilots: Stephen Brawders, Will Mathews

Flight Hours: 00:00
Hours until maintenance: 40.83

Summary
Low clouds persisted today at the SRER and JORN areas still needing to be collected, and eventually developed into thunderstorms again. No flights were collected.

Concerns
None.

Comments
This morning we got creative with the plane’s air conditioning unit, modifying the ductwork to ventilate both the cabin and unit itself simultaneously. So far it appears to be helping to keep the unit below its shut-off threshold and to regulate temperatures in the cabin.

Cumulative Domain Coverage

Estimated Cloud Cover Key

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<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
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D14|JORN_P1 (Jornada Priority 1 )

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Flown: 100% (34/34)
Green: 100% (34/34)
Yellow: 0% (0/34)
Red: 0% (0/34)
### 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:** 14% (3/21)
- **Green:** 10% (2/21)
- **Yellow:** 5% (1/21)
- **Red:** 0% (0/21)

### Santa Rita Experimental Range Priority 1

|  1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

- **Flown:** 100% (40/40)
- **Green:** 100% (40/40)
- **Yellow:** 0% (0/40)
- **Red:** 0% (0/40)

### Santa Rita Experimental Range Priority 2

|  41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |

- **Flown:** 79% (19/24)
- **Green:** 79% (19/24)
- **Yellow:** 0% (0/24)
- **Red:** 0% (0/24)

### 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 |

- **Flown:** 0% (0/26)
- **Green:** 0% (0/26)
- **Yellow:** 0% (0/26)
- **Red:** 0% (0/26)

### Weather Forecast

**Vail, AZ (SRER)**

![Weather Forecast Diagram](image)

- **Monday 8/30:** Partly Cloudy, High 96°, Low 71°F
- **Tuesday 8/31:** PM Thunderstorms, High 91°, Low 71°F
- **Wednesday 9/1:** AM Thunderstorms, High 77°, Low 68°F
- **Thursday 9/2:** AM Thunderstorms, High 84°, Low 68°F
- **Friday 9/3:** Scattered, High 85°, Low 70°F
- **Saturday 9/4:** Scattered, High 88°, Low 70°F
- **Sunday 9/5:** Scattered, High 86°, Low 69°F

**Average Precipitation:**
- 0.32 in
- 0.51 in
- 0.11 in
- 0.08 in
- 0.18 in
- 0.19 in
Flight Collection Plan for 30 August 2021

Flyority 1
Collection Area: Santa Rita Experimental Range (SRER) – Priority 2 Flight Box
Lines 42-46
Flight Plan Name: D14_SRER_C1_P2_v5_Q780
On-station Time: 16:10 UTC / 09:10 L

Flyority 2
Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Flight Box
Flight Plan Name: D14_SRER_C1_P3_v5_Q780
On-station Time: 16:10 UTC / 09:10 L

Flyority 3
Collection Area: Jornada (JORN) – Priority 2 Flight Box
Lines 38-55
Flight Plan Name: D14_JORN_R1_P2_v4_Q780
On-station Time: 16:00 UTC / 09:00 L

Crew: Abe and Elissa