Payload 1 Daily Flight Report

Date: 2022-08-28
Flight Campaign ID: P1C1
Airport, FBO ID, City: Tucson International Airport - Tucson, AZ
Aircraft: N331AR

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

Report Author: Mitch
Lidar Operators: Mitch
Flight Hours: 00:00
Spectrometer Operators: Elissa
Hours until maintenance: 48.27
Pilots: Vince, Jeremy

Summary
First eligible day for flights here in D14. Potential looked promising this morning with clear skies over Santa Rita two hours before solar angle. Crew mobilized to the airport and towed the Otter out, however quickly building cumulus clouds kept the plane grounded and no flights occurred.

Concerns
- Replacement antenna connector cable for GPS 04 should arrive tomorrow. Plan is to use a nearby Smartnet station as a backup should a flight need to occur before the new cable is in place.
- Had some issues with one of the FBO’s gas GPUs today, but they were resolved by switching GPUs and using one of the white electric plug-in GPUs. We’ll be requesting the electric GPU from now on.

Comments
Pilot Jeremy departs later today and is being replaced by new pilot, Steven. Jeremy is getting some well deserved time off after a very long deployment, included 36 days spent in Deadhorse. Thanks for the hard work, Jeremy!

Cumulative Domain Coverage
D14 JORN_P1 (Jornada Priority 1)

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D14 JORN_P2 (Jornada Priority 2)

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D14 N14A (D14 Nominal Runway)
Flown: 0% (0/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 0% (0/1)

**D14|SRER_P1 (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 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

Flown: 0% (0/40)
Green: 0% (0/40)
Yellow: 0% (0/40)
Red: 0% (0/40)

**D14|SRER_P2 (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 |
| 61 | 62 | 63 | 64 |

Flown: 0% (0/24)
Green: 0% (0/24)
Yellow: 0% (0/24)
Red: 0% (0/24)

**D14|SRER_P3 (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 |
| 85 | 86 | 87 | 88 | 89 | 90 |

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

**Weather Forecast**

Tucson, AZ (FBO & SRER)

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<tr>
<th>Mon 8/29</th>
<th>Tue 8/30</th>
<th>Wed 8/31</th>
<th>Thu 9/1</th>
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<td>75°F</td>
<td>102°</td>
<td>76°F</td>
<td>98°</td>
<td>75°F</td>
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Sunny
Sunny
Mostly Sunny
Mostly Sunny
Sunny
Sunny
Sunny

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Temperature and weather conditions vary across the days.
Flight Collection Plan for 29 August 2022

Flyority 1
Collection Area: Jornada (JORN) – Priority 1 Flight Box – Priority 1 Box
Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml
35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Flyority 2
Collection Area: Santa Rita Experimental Range (SRER) – Priority 1 Box
Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml
40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 3
Collection Area: Santa Rita Experimental Range (SRER) – Priority 2 Box
Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml
40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 4
Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Box
Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml
40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 5
Collection Area: Jornada (JORN) – Priority 2 Flight Box
Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml
35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Flyority 6
Collection Area: Nominal Runway – D14
Flight Plan Name: D14_N14A_Nominal_Runway_Test_v1_PRM
On-station Time: N/A

Crew: Elissa, Mitch