**Payload 1 Daily Flight Report**

**Date:** 2021-07-03  
**Flight Campaign ID:** P1C2  
**Airport, FBO ID, City:** Grand Junction Regional Airport (KGJT) - Grand Junction, CO, Cedar City Regional Airport (KCDC) - Cedar City, UT, Fresno CA (KFAT)  
**Aircraft:** N331AR  
**Domain:** 17 (Pacific Southwest)  
**Sites flown:** Transit ()  
**Days left in Domain:** 14

**Report Author:** Cameron Chapman  
**Lidar Operators:** Cameron Chapman  
**Spectrometer Operators:** None  
**Pilots:** Nick Koukoutsakis, Paul Nunemann  
**Flight Hours:** 01:50:00, 02:21:00  
**Hours until maintenance:** 35.02

**Summary**

Aircraft maintenance finished last night and the crew completed the transited to D17 Fresno this afternoon. Modifications need to be made to the GPU extension adapter before the system can be restarted. Matt D shipped an existing cable from the PIF but won’t arrive until Tuesday. In the meantime, I will work with Abe M remotely to modify an existing cable tomorrow morning and start the payload pumping and cooling process.

**Concerns**

- Smoke in the region, from nearby wildfires, was observed on the transit into D17. We will continue to monitor.

**Comments**

- Paul Nunemann departed tonight and was replaced by Pilot Justin Eddington. Thanks for the hard work Paul!! Welcome back Justin.
- Mitch will arrive in D17 tomorrow.

**Daily Coverage**

**Estimated Cloud Cover Key**

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

**Flight Screenshots:** None
Smoke observed as the crew descended into Fresno

Cumulative Domain Coverage

D17|SOAP_P1 (Soaproot Saddle 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  |    |    |    |

Flown: 0% (0/37)
Green: 0% (0/37)
Yellow: 0% (0/37)
Red: 0% (0/37)

D17|SOAP_P2 (Soaproot Saddle Priority 2)

| 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |

Flown: 0% (0/10)
Green: 0% (0/10)
Yellow: 0% (0/10)
Red: 0% (0/10)

D17|SOAP_P3 (Soaproot Saddle Priority 3)

| 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |

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Red: 0% (0/12)
D17|TEAK_P1 (Teakettle Priority 1)

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D17|TEAK_P2 (Teakettle Priority 2)

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Green: 0% (0/23)
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Red: 0% (0/23)

D17|TEAK_P3 (Teakettle Priority 3)

| 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|

Flown: 0% (0/19)
Green: 0% (0/19)
Yellow: 0% (0/19)
Red: 0% (0/19)

Weather Forecast
Fresno, CA

Flight Collection Plan for July 04 - 05 2021
Pumping and cooling

Flight Collection Plan for July 06 2021
Flyority 1
Collection Area: Soaproot Saddle (SOAP) – Variable Altitude Plan
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v7_PRM_Var_Alt.xml
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L
Flyority 2
Collection Teakettle (TEAK) – Priority 1 Flight Box – Variable Altitude Plan
Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v6_PRM_Var_Alt.xml
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 3
Collection Area: Soaproot Saddle (SOAP) – Priority 1 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v5_PRM
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 4
Collection Area: Soaproot Saddle (SOAP) – Priority 2 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v5.PRMaxml
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 5
Collection Area: Soaproot Saddle (SOAP) – Priority 3 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v5.pln
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 6
Collection Area: Teakettle (TEAK) – Priority 1 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4_PRM.xml
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 7
Collection Area: Teakettle (TEAK) – Priority 2 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4.PRMaxml
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 8
Collection Area: Teakettle (TEAK) – Priority 3 Flight Box – Fixed Altitude Plan
Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4.pln
On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 9
Collection Area: To test LiDAR range accuracies and noise levels at 400 kHz PRF.
Flight Plan Name: D17_N17A_Nominal_Runway_Test_v2_PRM.xml
On-Station Time: N/A

Crew: Cam Mitch