Payload 1 Daily Flight Report

Date: 2021-07-09
Flight Campaign ID: P1C2
Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA
Aircraft: N331AR

Domain: 17 (Pacific Southwest)
Sites Flown: None
Days left in Domain: 8

Report Author: Cameron Chapman
Lidar Operators: Cameron Chapman
Spectrometer Operators: Mitch Haynes
Pilots: Justin Eddington, Nick Koukoutsakis

Flight Hours: 00:00
Hours until maintenance: 119.62
GPS: N/A

Summary
Scattered clouds throughout the region, no flights were attempted. An excessive heat warning in the Central Valley caused the crew to take preventive measures and utilize an industrial grade air conditioner to keep the payload’s temperatures within specifications. The weather forecast calls for temperatures to reach 114°F in Fresno this weekend.

Concerns
- Excessive heat in the region.

Comments
- Abe will arrive in D17 tomorrow.

Daily Coverage

Estimated Cloud Cover Key

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

Flight Screenshots: None

Pictures: None
Cumulative Domain Coverage

D17|N17A (D17 Nominal Runway)

Flown: 0% (0/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 0% (0/1)

D17|SOAP_P1 (Soaproot Saddle Priority 1)

Flown: 0% (0/47)
Green: 0% (0/47)
Yellow: 0% (0/47)
Red: 0% (0/47)

D17|TEAK_P1 (Teakettle Priority 1)

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

Weather Forecast
Shaver Lake, CA

<table>
<thead>
<tr>
<th>Date</th>
<th>High</th>
<th>Low</th>
<th>Condition</th>
<th>Precip.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat 7/10</td>
<td>93°</td>
<td>71°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Sun 7/11</td>
<td>94°</td>
<td>67°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Mon 7/12</td>
<td>92°</td>
<td>65°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Tue 7/13</td>
<td>89°</td>
<td>60°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Wed 7/14</td>
<td>86°</td>
<td>57°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Thu 7/15</td>
<td>83°</td>
<td>55°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Fri 7/16</td>
<td>82°</td>
<td>58°F</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
</tbody>
</table>

Flight Collection Plan for July 10 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: 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: Mitch, Cam