Date: 2021-07-05  
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: 12

Report Author: Cameron Chapman  
Lidar Operators: Cameron Chapman  
Flight Hours: 00:00  
Spectrometer Operators: Mitch Haynes  
Hours until maintenance: 35.02  
Pilots: Justin Eddington, Nick Koukoutsakis  
GPS Instruments: None

Summary
The Payload is almost at optimal operational temperature and pressure. We anticipate data collection could begin tomorrow.

Concerns
- SOAP tower camera still INOP but we have secondary sources to aid with decision making.

Comments
- Mitch arrived last night. Welcome Back!  
- The FBO has notified the airport authority of our intentions to deploy a mobile GPS on the airfield. We will deploy the unit before any potential flights tomorrow.

Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green:</th>
<th>Yellow:</th>
<th>Red:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10%</td>
<td>11-50%</td>
<td>&gt;50%</td>
</tr>
</tbody>
</table>

Flight Screenshots: None

Pictures: None

Cumulative Domain Coverage

<table>
<thead>
<tr>
<th>Flown:</th>
<th>Green:</th>
<th>Yellow:</th>
<th>Red:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% (0/37)</td>
<td>0% (0/37)</td>
<td>0% (0/37)</td>
<td>0% (0/37)</td>
</tr>
</tbody>
</table>

D17|SOAP_P1 (Soaproot Saddle Priority 1)  

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
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<tr>
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<td>35</td>
<td>36</td>
<td>37</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 |

- Flown: 0% (0/12)
- Green: 0% (0/12)
- Yellow: 0% (0/12)
- Red: 0% (0/12)

D17|TEAK_P1 (Teakettle 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)

D17|TEAK_P2 (Teakettle 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 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

- Flown: 0% (0/23)
- Green: 0% (0/23)
- Yellow: 0% (0/23)
- 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

**Shaver Lake, CA**

<table>
<thead>
<tr>
<th>Tue 7/6</th>
<th>Wed 7/7</th>
<th>Thu 7/8</th>
<th>Fri 7/9</th>
<th>Sat 7/10</th>
<th>Sun 7/11</th>
<th>Mon 7/12</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Sunny" /></td>
<td><img src="image" alt="Mostly Sunny" /></td>
<td><img src="image" alt="Sunny" /></td>
<td><img src="image" alt="Sunny" /></td>
<td><img src="image" alt="Sunny" /></td>
<td><img src="image" alt="Sunny" /></td>
<td><img src="image" alt="Sunny" /></td>
</tr>
<tr>
<td>84°F</td>
<td>61°F</td>
<td>86°F</td>
<td>61°F</td>
<td>92°F</td>
<td>63°F</td>
<td>94°F</td>
</tr>
</tbody>
</table>

- Sunny 0 in
- Mostly Sunny 0 in
- Sunny 0 in
- Sunny 0 in
- Sunny 0 in
- Sunny 0 in
- Sunny 0 in

Source: wunderground.com
Flight Collection Plan for July 06 2021

**Complete Cooling Then >**

**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_PRM  
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_PRM.xml  
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