Date: 2021-07-13
Flight Campaign ID: P1C2
Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA
Aircraft: N331AR

Domain: 17 (Pacific Southwest)
Sites Flown: SOAP_P1 (Soaproot Saddle Priority 1), TEAK_P1 (Teakettle Priority 1)
Days left in Domain: 2

Report Author: Abe Morrison
Lidar Operators: Abe Morrison
Spectrometer Operators: Mitch Haynes
Pilots: Justin Eddington, Nick Koukoutsakis
Flight Hours: 03:57
Hours until maintenance: 111.45
GPS Instruments: 05 - FBO_KFAT, AOP_TEAK, U-MUSB

Summary
Today turned out to be a fairly cloudy day and the smoke also seemed thicker in our flight box. With time winding down on this domain, the crew again decided to collect “red” data. The initial collect at the SOAP site was completed and collections began at TEAK.

Concerns
-The current fire situation probable will not allow for a smoke free collection the rest of our stay in D17.

Comments
-During yesterdays extraction the hotel lost power briefly and the extraction needed to be restarted. No adverse effects were noted, and that extraction completed earlier this morning.

Daily Coverage

Estimated Cloud Cover Key

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

D17|SOAP_P1

<table>
<thead>
<tr>
<th>Line #</th>
<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>37</th>
<th>38</th>
<th>39</th>
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<th>42</th>
<th>43</th>
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<th>45</th>
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<tbody>
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<tr>
<td>Spectrometer</td>
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<tr>
<td>Camera</td>
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</tbody>
</table>

Cloud Cover

Total number of lines flown: 18
D17|TEAK_P1

<table>
<thead>
<tr>
<th>Line #</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>36</th>
<th>37</th>
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<tr>
<td>Spectrometer</td>
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<tr>
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</tbody>
</table>

Total number of lines flown: 8

**Flight Screenshots**

**Lidar**

**NIS**

**SOAP**

**TEAK**
Cumulative Domain Coverage

**D17|N17A (D17 Nominal Runway)**

- Flown: 100% (1/1)
- Green: 0% (0/1)
- Yellow: 0% (0/1)
- Red: 100% (1/1)

**D17|SOAP_P1 (Soaproot Saddle Priority 1)**

- Flown: 100% (47/47)
- Green: 0% (0/47)
- Yellow: 0% (0/47)
- Red: 100% (47/47)

**D17|TEAK_P1 (Teakettle Priority 1)**

- Flown: 22% (9/40)
- Green: 0% (0/40)
- Yellow: 0% (0/40)
- Red: 22% (9/40)

Weather Forecast

Shaver Lake, CA

<table>
<thead>
<tr>
<th></th>
<th>Wed 7/14</th>
<th>Thu 7/15</th>
<th>Fri 7/16</th>
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</thead>
<tbody>
<tr>
<td>Clouds</td>
<td>Sunny</td>
<td>Sunny</td>
<td>Sunny</td>
</tr>
<tr>
<td>Cover (%)</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
<tr>
<td>Precip. (%)</td>
<td>83°</td>
<td>59°F</td>
<td>80°</td>
</tr>
</tbody>
</table>

Source: wunderground.com
Flight Collection Plan for July 14 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
Crew: Abe, Mitch