Payload 3 Daily Flight Report

Date: 2023-06-09
Flight Campaign ID: P3C1
Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA
Aircraft: N934MU

Domain: 17 (Pacific Southwest)
Sites Flown: None
Days left in Domain: 2

Report Author: John
Lidar Operators: John
Spectrometer Operators: Mike
Pilots: Paul, Jeff
Flight Hours: 00:44
Hours until maintenance: 42.4
GPS Instruments: None

Summary
The SOAP mission area, while cloudy, appeared to have a cloud deck that would support data collection under Red conditions. However, once we arrived near the mission station, all clouds were actually just below our mission altitude, keeping us from gathering any type of data. Additionally, the inversion layer kept the entire area very obscured. Conditions worsened as the day progressed.

Concerns
None.

Comments
None.

Pictures
Clouds just below our flight altitude + inversion.
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 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 |

- Flown: 36% (17/47)
- Green: 0% (0/47)
- Yellow: 0% (0/47)
- Red: 36% (17/47)

Weather Forecast

Shaver Lake, CA (SOAP)

<table>
<thead>
<tr>
<th>Sat 6/10</th>
<th>Sun 6/11</th>
<th>Mon 6/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>61°F</td>
<td>64°F</td>
<td>61°F</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Cloudy</td>
</tr>
<tr>
<td>0.1 in</td>
<td>0.26 in</td>
<td>0.16 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for June 10 2023

Flyority 1
Collection Area: Soaproot Saddle – Var Alt
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v7_Q780_Var_Alt
On-Station Time: 16:20 UTC/ 09:20 L

Crew: Mike (lidar), John (NIS)