Payload 3 Daily Flight Report

Date: 2023-06-05
Flight Campaign ID: P3C1
Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA
Aircraft: N934MU

Domain: 17 (Pacific Southwest)
Sites Flown: SOAP_P1 (Soaproot Saddle Priority 1)
Days left in Domain: 6

Report Author: John
Lidar Operators: John
Spectrometer Operators: Mike
Pilots: Paul, Jeff
Flight Hours: 02:40
Hours until maintenance: 43.15
GPS Instruments: 02 - KFAT, U-MUSB

Summary
The crew completed 16 lines under red conditions, as the rest of the week is forecast for cloudy and rainy weather. During the mission, the Twin Otter experienced a potential rudder problem, and the crew returned to Fresno for maintenance activity.

Concerns
None

Comments
Twin Otter is sending out a maintenance person to look at the potential rudder issue, expect to have this resolved by the end of the day tomorrow.
One Hotel Kit RAID slot is not working, Andrew is shipping back HK3 as a solution.

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>
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<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
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<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
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<td>Spectrometer</td>
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Total number of lines flown: 16
Flight Screenshots

Lidar screenshot

NIS screenshot

Pictures

Mike setting up GPS #02

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>Tue 6/6</th>
<th>Wed 6/7</th>
<th>Thu 6/8</th>
<th>Fri 6/9</th>
<th>Sat 6/10</th>
<th>Sun 6/11</th>
<th>Mon 6/12</th>
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</thead>
<tbody>
<tr>
<td>57°</td>
<td>56°</td>
<td>60°</td>
<td>60°</td>
<td>60°</td>
<td>60°</td>
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<td>Thunderstorms</td>
<td>Thunderstorms</td>
<td>Thunderstorms</td>
<td>PM</td>
<td>Showers</td>
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<td>Showers</td>
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<td>0.1 In</td>
<td>0.12 In</td>
<td>0.14 In</td>
<td>0.02 In</td>
<td>0.27 In</td>
<td>0.17 In</td>
<td>0.12 In</td>
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source: wunderground.com
Flight Collection Plan for June 6 2023

Maintenance

Flight Collection Plan for June 7 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: John (lidar), Mike (NIS)