Date: 2024-08-05
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 10 (Central Plains), 13 (Southern Rockies & Colorado Plateau), 15 (Great Basin)
Sites Flown: None
Days left in Domain: 21

Report Author: Elissa
Lidar Operators: Elissa
Flight Hours: 00:00

Spectrometer Operators: Hours until maintenance: 101.83
Pilots: Vince, Manning
Ground Crew: Matt

Summary
The TOIL mechanic arrived this afternoon to replace the aft fuel cap gasket. Thunderstorms prevented a test flight following the repair. A flight will be conducted early tomorrow morning instead.

Concerns
None.

Comments
None.

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>

Solar Angle Less Than 40 degrees

<table>
<thead>
<tr>
<th>Line #</th>
</tr>
</thead>
</table>

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

<table>
<thead>
<tr>
<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>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flown: 0% (0/33)
Green: 0% (0/33)
Yellow: 0% (0/33)
Red: 0% (0/33)
D10|RMNP (Rocky Mountain National Park)

Flown: 97% (38/39)
Green: 97% (38/39)
Yellow: 0% (0/39)
Red: 0% (0/39)

D10|STER (Sterling Agricultural Site)

Flown: 100% (25/25)
Green: 100% (25/25)
Yellow: 0% (0/25)
Red: 0% (0/25)

D13|NIWO (Niwot Ridge Mountain Research Station)

Flown: 100% (51/51)
Green: 100% (51/51)
Yellow: 0% (0/51)
Red: 0% (0/51)

D13|WLOU (West St. Louis Creek)

Flown: 92% (12/13)
Green: 92% (12/13)
Yellow: 0% (0/13)
Red: 0% (0/13)

Weather Forecast

Nederland CO (NIWO)

<table>
<thead>
<tr>
<th>Date</th>
<th>High/low</th>
<th>Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue 8/6</td>
<td>79°/61°F</td>
<td>PM</td>
</tr>
<tr>
<td>Wed 8/7</td>
<td>79°/53°F</td>
<td>PM</td>
</tr>
<tr>
<td>Fri 8/9</td>
<td>66°/53°F</td>
<td>PM</td>
</tr>
<tr>
<td>Sat 8/10</td>
<td>71°/55°F</td>
<td>PM</td>
</tr>
<tr>
<td>Sun 8/11</td>
<td>70°/55°F</td>
<td>PM</td>
</tr>
<tr>
<td>Mon 8/12</td>
<td>70°/53°F</td>
<td>PM</td>
</tr>
</tbody>
</table>

Thunderstorms

Rainfall:
- 0.08 in
- 0.15 in
- 0.27 in
- 0.31 in
- 0.19 in
- 0.11 in
- 0.16 in
Allenspark CO (RMNP)

<table>
<thead>
<tr>
<th></th>
<th>Tue 8/6</th>
<th>Wed 8/7</th>
<th>Thu 8/8</th>
<th>Fri 8/9</th>
<th>Sat 8/10</th>
<th>Sun 8/11</th>
<th>Mon 8/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>75°</td>
<td>58°F</td>
<td>63°</td>
<td>50°F</td>
<td>63°</td>
<td>50°F</td>
<td>69°</td>
</tr>
<tr>
<td>Thunderstorms</td>
<td>0.09 in</td>
<td>0.13 in</td>
<td>0.35 in</td>
<td>0.36 in</td>
<td>0.18 in</td>
<td>0.11 in</td>
<td>0.16 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Joes CO (ARIK)

<table>
<thead>
<tr>
<th></th>
<th>Tue 8/6</th>
<th>Wed 8/7</th>
<th>Thu 8/8</th>
<th>Fri 8/9</th>
<th>Sat 8/10</th>
<th>Sun 8/11</th>
<th>Mon 8/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Clouds/PM Sun</td>
<td>89°</td>
<td>63°F</td>
<td>97°</td>
<td>59°F</td>
<td>75°</td>
<td>54°F</td>
<td>68°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>0.13 in</td>
<td>0.31 in</td>
<td>0.26 in</td>
<td>0.06 in</td>
<td>0.09 in</td>
<td>0.1 in</td>
<td></td>
</tr>
</tbody>
</table>

source: wunderground.com

Ogden UT (CTWD)

<table>
<thead>
<tr>
<th></th>
<th>Tue 8/6</th>
<th>Wed 8/7</th>
<th>Thu 8/8</th>
<th>Fri 8/9</th>
<th>Sat 8/10</th>
<th>Sun 8/11</th>
<th>Mon 8/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunny</td>
<td>101°</td>
<td>73°F</td>
<td>99°</td>
<td>69°F</td>
<td>95°</td>
<td>69°F</td>
<td>97°</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com
Flight Collection Plan for 6 August 2024

Flyority 1
Collection Area: Niwot Ridge Mountain Research Station
Flight Plan Name: D13_NIWO_C1_P1_v5_Q780
On-station Time: 1540 UTC / 0940 L

Flyority 2
Collection Area: Rocky Mountain National Park (RMNP)
Flight Plan Name: D10_RMNP_R2_P1_v4_Q780
On-station Time: 1540 UTC / 0940 L

Flyority 3
Collection Area: Arikaree River (ARIK) – Priority 1 & 2 Flight Box
Flight Plan Name: D10_ARIK_A1_P2_v3_Q780
On-station Time: 1520 UTC / 0920 L

Flyority 4
Collection Area: Northern Utah Priority 1 Flight Plan
Flight Plan Name: D15_CTWD_S1_P1_v1
On-station Time: 1520 UTC / 0920 L

Flyority 5
Collection Area: Northern Utah Priority 2 Flight Plan
Flight Plan Name: D15_CTWD_S1_P2_v1
On-station Time: 1520 UTC / 0920 L

Crew: Matt (Lidar), Elissa (NIS), Nick (Ground)