Payload 1 Daily Flight Report

Date: 2022-04-28  
Flight Campaign ID: P1C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N331AR  

Domain: 00 (Training & Calibration)  
Sites Flown: V10F (Boulder City Nominal Science Flight)  
Days left in Domain: 3  

Report Author: Nick  
Lidar Operators: Matt  
Spectrometer Operators: Murph  
Pilots: Magnus, Justin  
Add’tl Flight Crew: Matt  
Ground Crew: Elissa  

Flight Hours: 01:00  
Hours until maintenance: 111.92  
GPS Instruments: AOP_KBDU  

Summary  
Crew conducted a training flight for Nick over Boulder City and a fam flight for Murph.  

Daily Coverage  

Estimated Cloud Cover Key  

Green: 0-10%  
Yellow: 11-50%  
Red: >50%  

D00|V10F  

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Cloud Cover  

Total number of lines flown: 5
Flight Screenshots

Cumulative Domain Coverage

**D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)**

<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>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
</table>
Flown: 100% (20/20)
Green: 100% (20/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

**D00|H10D (NEON Headquarters Lidar Validation - Galaxy)**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
</table>
Flown: 100% (4/4)
Green: 0% (0/4)
Yellow: 100% (4/4)
Red: 0% (0/4)

**D00|N10F (Nominal Runway at KBDU - Galaxy)**

| 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 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
Flown: 100% (37/37)
Green: 0% (0/37)
Yellow: 0% (0/37)
Red: 100% (37/37)
Weather Forecast

<table>
<thead>
<tr>
<th>Thu 4/28</th>
<th>Fri 4/29</th>
<th>Sat 4/30</th>
<th>Sun 5/1</th>
<th>Mon 5/2</th>
<th>Tue 5/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>48°F</td>
<td>50°/39°F</td>
<td>66°/37°F</td>
<td>63°/40°F</td>
<td>50°/38°F</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy/Wind</td>
<td>Sunny</td>
<td>PM Showers</td>
<td>Showers</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.26 in</td>
<td>0.12 in</td>
<td>0.27 in</td>
</tr>
</tbody>
</table>

Cloud Cover (%) | Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for April 29th 2022
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM.xml
35° On-station Time: 1520 UTC / 0920 L
Weather considerations: No clouds below aircraft and no clouds obscuring the sun.

Flight Crew: Matt (Lidar), John (NIS), Elissa (Ground)
Optech Galaxy Recerts Remaining: None