**Payload 1 Daily Flight Report**

**Date:** 2021-04-28  
**Flight Campaign ID:** P1C2  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO  
**Aircraft:** N331AR  

**Domain:** 00 (Training & Calibration)  
**Sites Flown:** None  
**Days left in Domain:** 0  

**Report Author:** Matt DeVoe  
**Lidar Operators:** Matt DeVoe  
**Flight Hours:** 00:00  
**Spectrometer Operators:** Robb Walker  
**Hours until maintenance:** 96.82  
**Pilots:** Justin Eddington, Will Mathews  
**GPS Instruments:** None  
**Ground Crew:** Elissa Barris

**Summary**  
No flights today as the crew prepares for MOAB flights beginning tomorrow.

**Concerns**  
None

**Comments**  
None

**Daily Coverage**  
*Estimated Cloud Cover Key*  
- **Green:** 0-10%  
- **Yellow:** 11-50%  
- **Red:** >50%

**Cumulative Domain Coverage**

| D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Flown: | 100% (20/20) | 0% (0/20) | 0% (0/20) |
| Green: | 100% (20/20) | 0% (0/20) | 0% (0/20) |
| Yellow: | 0% (0/20) | 0% (0/20) | 0% (0/20) |
| Red: | 0% (0/20) | 0% (0/20) | 0% (0/20) |

| D00|BLKF (Black Forest Waveform Range Test - Galaxy) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Flown: | 100% (21/21) | 0% (0/21) | 0% (0/21) |
| Green: | 0% (0/21) | 0% (0/21) | 0% (0/21) |
| Yellow: | 100% (21/21) | 0% (0/21) | 0% (0/21) |
| Red: | 0% (0/21) | 0% (0/21) | 0% (0/21) |
D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

- Flown: 100% (4/4)
- Green: 100% (4/4)
- Yellow: 0% (0/4)
- Red: 0% (0/4)

D00|N10F (Nominal Runway at KBDU - Galaxy)

- Flown: 100% (35/35)
- Green: 0% (0/35)
- Yellow: 0% (0/35)
- Red: 100% (35/35)

D00|O10C (NIS Offset - Galaxy)

- Flown: 100% (2/2)
- Green: 100% (2/2)
- Yellow: 0% (0/2)
- Red: 0% (0/2)

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

- Flown: 100% (5/5)
- Green: 100% (5/5)
- Yellow: 0% (0/5)
- Red: 0% (0/5)

D00|V10F (Boulder City Nominal - Galaxy)

- Flown: 38% (11/29)
- Green: 14% (4/29)
- Yellow: 0% (0/29)
- Red: 24% (7/29)

D00|W10D (Wiggle Timing Test - Galaxy)

- Flown: 100% (2/2)
- Green: 100% (2/2)
- Yellow: 0% (0/2)
- Red: 0% (0/2)
Weather Forecast

Boulder, CO (KBDU)

<table>
<thead>
<tr>
<th>Thu 4/29</th>
<th>Fri 4/30</th>
<th>Sat 5/1</th>
<th>Sun 5/2</th>
<th>Mon 5/3</th>
<th>Tue 5/4</th>
<th>Wed 5/5</th>
<th>Thu 5/6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunny 68°</td>
<td>Sunny 78°</td>
<td>Partly Cloudy 83°</td>
<td>Sunny 64°</td>
<td>Showers 47°</td>
<td>PM Showers 53°</td>
<td>Partly Cloudy 63°</td>
<td>Mostly Sunny 71°</td>
</tr>
<tr>
<td>Cloud Cover (%)</td>
<td>Chance of Precip. (%)</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.89 in</td>
<td>0.78 in</td>
<td>0.08 in</td>
</tr>
</tbody>
</table>

Source: wunderground.com

Flights Collection Plan for 29 April 2021

Flyority 1
Collection Area: Moab (MOAB)
Flight Plan Name: D13_MOAB_R1_P1_v3_PRM.xml
On-station Time: 16:00 UTC, 10:00 AM MST

Crew: Mike (Lidar), Robb (NIS), Elissa (Ground)