Date: 2021-04-27
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: 1

Report Author: Michael Wussow
Lidar Operators: Michael Wussow
Flight Hours: 00:00
Spectrometer Operators: Matt Devoe
Hours until maintenance: 96.82
Pilots: Justin Eddington, Will Mathews
GPS Instruments: None
Ground Crew: Robb Walker

Summary
With all calibration complete for Payload 1, final tasks were completed to wrap up this year’s Payload-1 pre-season calibration campaign. All calibration flights have been extracted. Preparations were also started for surveying D13 MOAB which will begin Thursday, April 29.

Concerns
Pony Verification using WinMerge caught that the discrete lidar folders had not been copied to the RAID for two flights on 2021_P1C2_01. They were manually copied. These occurrences will be investigated further and are a good reminder to use WinMerge.

Comments
• Pony Verification was completed for RAID 2021_P1C2_01
• RAID 2021_P1C2_01 was shipped
• RAID 2021_P1C2_02 was formatted
• 2021042614 BLKF was extracted
• Pony Verification and RAID Formatting checklists have been updated

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)
Green: 100% (20/20)
Yellow: 0% (0/20)
Red: 0% (0/20)
D00|BLKF (Black Forest Waveform Range Test - Galaxy)

Flown: 100% (21/21)
Green: 0% (0/21)
Yellow: 100% (21/21)
Red: 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></th>
<th>Wed 4/28</th>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Cloud Cover (%)</td>
<td>AM Rain/Snow</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
<td>PM Thunderstorms</td>
<td>Showers</td>
<td>PM Showers</td>
</tr>
<tr>
<td>Chance of Precip. (%)</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.69 in</td>
<td>0.54 in</td>
<td>0.07 in</td>
</tr>
</tbody>
</table>

Source: wunderground.com

**Moab, UT (MOAB)**

<table>
<thead>
<tr>
<th></th>
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<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>

Flight Collection Plan for 28 April 2021

No flights planned; only if needed for reflying.

Flight 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), Elissa (NIS), Robb (Ground)