Payload 3 Daily Flight Report

Date: 2024-03-22
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 6

Report Author: Mitch
Lidar Operators: Mitch
Flight Hours: 00:00
Spectrometer Operators: Cameron
Hours until maintenance: 123.90
Pilots: Justin, Will
Ground Crew: Matt, Elissa

Summary
System continued to pump and cool, eventually coming within spec late this afternoon. Crew will look to take to the skies tomorrow for a functional check flight.

Concerns
None

Comments
None

Cumulative Domain Coverage
D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/20)
Green: 0% (0/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

D00|N10D (Nominal Runway at KBDU - Riegl)

| 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 |
Flown: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)
### D00|O10B (NIS Offset - Riegl)

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

### D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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

### D00|R10D (Boulder Airport Radiometric Calibration)

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

### D00|V10C (Boulder City South)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

- **Flown:** 0% (0/29)
- **Green:** 0% (0/29)
- **Yellow:** 0% (0/29)
- **Red:** 0% (0/29)

### D00|W10C (Wiggle Timing Test - Riegl)

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

### Weather Forecast

**Boulder, CO**

<table>
<thead>
<tr>
<th>Date</th>
<th>Temp</th>
<th>Weather</th>
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<tbody>
<tr>
<td>Sat 3/23</td>
<td>64°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Sun 3/24</td>
<td>53°F</td>
<td>Thunderstorms</td>
</tr>
<tr>
<td>Mon 3/25</td>
<td>37°F</td>
<td>Cloudy</td>
</tr>
<tr>
<td>Tue 3/26</td>
<td>47°F</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Wed 3/27</td>
<td>55°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Thu 3/28</td>
<td>61°F</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Fri 3/29</td>
<td>56°F</td>
<td>Partly Cloudy</td>
</tr>
</tbody>
</table>

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|

- **Cloud Cover (%):**
- **Chance of Precip. (%):**

- **Cloud Cover:** 0% in 1.8 in
- **Chance of Precip.:** 0 in
Flight Collection Plan for March 23, 2024

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C.Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1730 UTC / 1130 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RiAcquire name: D10_B10E_Boresight_Apx_Q780)
30° On-station Time: 1550 UTC / 0950 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: Nominal Runway Survey Flight Plan
Name: D10_N10D_Nominal_Rnwy_v8_Q780
On-Station Time: Daylight – No solar angle restrictions.
Additional Considerations: Runway should not be wet or snow covered.

Flyority 4
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_val_v1_Q780
On-Station Time: Daylight – No solar angle restrictions.

Flyority 5
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780
40° On-station Time: 1650 UTC / 1050 L
Additional Considerations: Runway should not be wet, or snow covered.

Flyority 6
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1620 UTC / 1030 L

Flight Crew

Elissa (Lidar), Mitch (NIS), Cam (Ground), Matt (Ground)