Payload 3 Daily Flight Report

Date: 2024-03-26  
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: 3

Report Author: Elissa  
Lidar Operators: Elissa  
Flight Hours: 00:00  
Spectrometer Operators: Mitch  
Hours until maintenance: 122.10  
Pilots: Justin, Will  
Ground Crew: Cameron, Matt

Summary
Most of the ground remains covered in snow from the latest storm. Between that and low cumulus clouds being pushed off the mountains, the decision was made to wait for better flight opportunities later this week.

Concerns
None.

Comments
QA emails are now generating properly, thanks to Andrew's efforts!

Cumulative Domain Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green:</th>
<th>Yellow:</th>
<th>Red:</th>
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<tbody>
<tr>
<td>0-10%</td>
<td>11-50%</td>
<td>&gt;50%</td>
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Solar Angle Less Than 40 degrees

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<th>Line #</th>
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D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

<table>
<thead>
<tr>
<th>Flown:</th>
<th>0% (0/20)</th>
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<tbody>
<tr>
<td>Green:</td>
<td>0% (0/20)</td>
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<tr>
<td>Yellow:</td>
<td>0% (0/20)</td>
</tr>
<tr>
<td>Red:</td>
<td>0% (0/20)</td>
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D00|H10C (NEON Headquarters Lidar Test - Riegl)
1 2 3 4
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: 86% (24/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 86% (24/28)

D00|O10B (NIS Offset - Riegl)
1 2
Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)
1 2 3 4 5
Flown: 0% (0/5)
Green: 0% (0/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|R10D (Boulder Airport Radiometric Calibration)
1 2 3 4 5
Flown: 0% (0/5)
Green: 0% (0/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|V10C (Boulder City South)
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
Flown: 0% (0/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 0% (0/29)

D00|W10C (Wiggle Timing Test - Riegl)
1 2
Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
Weather Forecast

Boulder, CO (KBDU)

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<tbody>
<tr>
<td>Cloud Cover</td>
<td></td>
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<tr>
<td>Chance of Precip.</td>
<td>52°C</td>
<td>41°F</td>
<td>57°F</td>
<td>58°F</td>
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Flight Collection Plan for 27 March 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: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_val_v1_Q780
On-Station Time: Daylight – No solar angle restrictions.

**Flyority 4**
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 5
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1620 UTC / 1030 L

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