Payload 3 Daily Flight Report

Date: 2022-04-14
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N70AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 11

Report Author: Elissa
Lidar Operators: Abe  Flight Hours: 00:00
Spectrometer Operators: Elissa  Hours until maintenance: 0.00
Pilots: Nick, Magnus
Ground Crew: Cameron

Summary
High winds continued today, with gusts exceeding the opening threshold of the hangar door. No flights were attempted.

Concerns
None.

Comments
Ian set up new temperature alerts to help monitor the temperature directly around the PIM.

Pictures

The 2022 flag has arrived in the hangar! Photo by Mike.
### 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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<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
</table>

- 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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<thead>
<tr>
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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)**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>5</th>
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- Flown: 0% (0/5)
- Green: 0% (0/5)
- Yellow: 0% (0/5)
- Red: 0% (0/5)

**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 (KBDU)

<table>
<thead>
<tr>
<th>Day</th>
<th>Temperature</th>
<th>Condition</th>
<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri 4/15</td>
<td>63°F</td>
<td>Mostly Sunny</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sat 4/16</td>
<td>60°F</td>
<td>Partly Cloudy</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sun 4/17</td>
<td>65°F</td>
<td>Mostly Sunny/Wind</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mon 4/18</td>
<td>67°F</td>
<td>Mostly Sunny</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tue 4/19</td>
<td>77°F</td>
<td>Partly Cloudy</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Wed 4/20</td>
<td>69°F</td>
<td>Mostly Sunny</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Thu 4/21</td>
<td>76°F</td>
<td>Partly Cloudy</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 15 April 2022

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1640 UTC / 1040 L
40° On-station Time: 1610 UTC / 1010 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780
30° On-station Time: 1510 UTC / 0910 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: [Functional Checkout Flight] – 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: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v5_Q780
On-station Time: Daylight – No solar angle restrictions.

Flyority 5
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_LIDAR_val_v1_Q780
On-station Time: Daylight – No solar angle restrictions.

Flyority 6
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1540 UTC / 0940 L

Flight Crew:
15 April 2022

1st Flight
Abe (Lidar), Elissa (NIS), Cameron (Trainer)

2nd Flight
Matt (Lidar) Mike (NIS), Mitch (Trainer)