Date: 2023-04-02
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N934MU

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 16

Report Author: Cameron
Lidar Operators: Cameron
Flight Hours: 00:00
Spectrometer Operators: Mike
Hours until maintenance: 123.90
Pilots: Cullen, Jeff
Ground Crew: Matt

Summary
The payload finally reached optimal temperature and pressure late this afternoon. After consultation with the pilots, it was determined that the winds aloft were too strong/turbulent to conduct flights. No flights were attempted.

Concerns
None

Comments
None

Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
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</thead>
</table>

Flight Screenshots: None

Pictures: None

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

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</table>
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: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)
```

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|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**

<table>
<thead>
<tr>
<th>Mon 4/3</th>
<th>Tue 4/4</th>
<th>Wed 4/5</th>
<th>Thu 4/6</th>
<th>Fri 4/7</th>
<th>Sat 4/8</th>
<th>Sun 4/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>**63°</td>
<td>28°F**</td>
<td>**31°</td>
<td>17°F**</td>
<td>**41°</td>
<td>22°F**</td>
<td>**50°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Snow</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
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<td>- in</td>
<td>2.4 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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</table>

source: wunderground.com

### Flight Collection Plan for April 3, 2023

**Flyority 1**

Collection Area: Table Mountain Radiometric Calibration  
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780  
45° On-station Time: 1700 UTC / 1100 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: 1530 UTC / 0930 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: 1630 UTC / 1030 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
Cameron (Lidar), Mike (NIS), Matt (Ground)