Date: 2022-09-01
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N70AR

Domain: 00 (Training & Calibration)
Sites Flown: B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)
Days left in Domain: TBD

Report Author: Matt
Lidar Operators: Matt
Spectrometer Operators: Nick
Pilots: Justin, Brent
Ground Crew: John

Flight Hours: 02:16
Hours until maintenance: 45.25

Summary
The crew completed the Boresight calibration flight and prepared to start flying Rocky Mountain National Park for green-up conditions.

Comments
The AOP team hosted the D10/13 domain staff for a tour of AOP3 and the Payload Installation Facility.

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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D00|B10E

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<th>Line #</th>
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<td>Spectrometer</td>
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Total number of lines flown: 20
Flight Screenshots

Cumulative Domain Coverage

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

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: 0% (0/21)
Green: 0% (0/21)
Yellow: 0% (0/21)
Red: 0% (0/21)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

Flown: 100% (4/4)
Green: 0% (0/4)
Yellow: 0% (0/4)
Red: 100% (4/4)

D00|KBDU (KBDU Roll Compensation Test)

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

D00|N10D (Nominal Runway at KBDU - Riegl)

Flown: 86% (24/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 86% (24/28)

**D00|O10B (NIS Offset - Riegl)**

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Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

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

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Red: 0% (0/5)

**D00|R10D ()**

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**D00|ULEF (Cheesehead)**

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Red: 0% (0/25)

**D00|V10F (Boulder City Nominal - Galaxy)**

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Red: 0% (0/29)

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

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Flown: 50% (1/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 50% (1/2)
Weather Forecast

Allenspark, CO

<table>
<thead>
<tr>
<th>Date</th>
<th>Weather</th>
<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
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<tbody>
<tr>
<td>Fri 9/2</td>
<td>Partly Cloudy</td>
<td>0 in</td>
<td></td>
</tr>
<tr>
<td>Sat 9/3</td>
<td>Sunny</td>
<td>0 in</td>
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</tr>
<tr>
<td>Sun 9/4</td>
<td>Sunny</td>
<td>0 in</td>
<td></td>
</tr>
<tr>
<td>Mon 9/5</td>
<td>Mostly Sunny</td>
<td>0 in</td>
<td></td>
</tr>
<tr>
<td>Tue 9/6</td>
<td>Mostly Sunny</td>
<td>0 in</td>
<td></td>
</tr>
<tr>
<td>Wed 9/7</td>
<td>Mostly Sunny</td>
<td>0 in</td>
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source: wunderground.com

Flight Collection Plan for September 02, 2022

Flyority 1:
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

Flyority 2:
Collection Area: Rocky Mountain National Park (RMNP)
Flight plan name: D10_RMNP_R2_P1_v2_Q780

Crew: John (NIS), Nick (Lidar), Matt (Grnd)