Payload 3 Daily Flight Report

Date: 2023-04-13
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N934MU

Domain: 00 (Training & Calibration)
Sites Flown: B10E (Greeley Boresight - Riegl)
Days left in Domain: 5

Report Author: Nick
Lidar Operators: Nick
Flight Hours: 02:40
Spectrometer Operators: Matt
Hours until maintenance: 112.9
Pilots: Paul, Jeff
GPS Instruments: AOP_KBDU, S-COGY
Ground Crew: John, Mike

Summary
The Greeley Boresight flight was flown using updated lidar settings. The lidar over-current issue was not observed. Riegl indicated a solution will be released soon. The incoming weather front will most likely result in a few days to review calibration data.

Concerns
None

Comments
None

Daily Coverage

Estimated Cloud Cover Key

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<tr>
<th></th>
<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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Total number of lines flown: 20
**Fligt Screenshots**

Lidar 1600m  
Lidar 1000m  
Lidar 500m

**Cumulative Domain Coverage**

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

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D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

D00|N10D (Nominal Runway at KBDU - Riegl)

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Flown: 64% (18/28)
Green: 29% (8/28)
Yellow: 4% (1/28)
Red: 32% (9/28)

D00|O10B (NIS Offset - Riegl)

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D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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D00|R10D (Boulder Airport Radiometric Calibration)

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D00|W10C (Wiggle Timing Test - Riegl)

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Yellow: 0% (0/2)
Red: 100% (2/2)
Weather Forecast
Boulder, CO

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<td>42°F</td>
<td>45°</td>
<td>51°</td>
<td>66°</td>
<td>72°</td>
<td>74°</td>
<td>61°</td>
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<tr>
<td>Showers Late</td>
<td>Rain</td>
<td>Partly Cloudy</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>PM Showers</td>
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source: wunderground.com

Flight Collection Plan for April 14th, 2023

Flyority 1
Collection Area: Nominal Runway Survey Flight Plan (Lines 1-8, 11-12, 25-28)
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 2
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1540 UTC / 0940L

Crew: Nick (lidar), John (NIS), Matt (Ground)