Payload 3 Daily Flight Report

Date: 2024-04-21
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 00 (Training & Calibration)
Sites Flown: V10C (Boulder City South)
Days left in Domain: 5

Report Author: Abe
Lidar Operators: Abe, John, Mike
Spectrometer Operators: Abe, John
Pilots: Vince, Manning
Ground Crew: Matt, John

Flight Hours: 00:46, 00:50, 00:41
Hours until maintenance: 99.18

Summary
The snow of the last few days let up today allowing the crew to perform some recertification flights. 3 flights were conducted at the Boulder City flight box with several ASOs recertifying in different positions.

Concerns
Creating the flight ID folder in dropbox from the lidar KVM still seems to not be functional.

Comments
-Abe, John, and Mike recertified on the P3 Lidar.
-Abe and John recertified on the NIS.
-John and Mike recertified on the ground position.

Pictures

The Otter arrives back at the Boulder Airport after a productive day. Pic by Matt.
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|V10C

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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Cloud Cover

Total number of lines flown: 4

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

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<tbody>
<tr>
<td>Flown: 100% (20/20) Green: 0% (0/20) Yellow: 100% (20/20) Red: 0% (0/20)</td>
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D00|H10C (NEON Headquarters Lidar Test - Riegl)

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<tbody>
<tr>
<td>Flown: 100% (4/4) Green: 0% (0/4) Yellow: 100% (4/4) Red: 0% (0/4)</td>
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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) |

The Boulder Flatirons after some spring snow. Pic by Abe.
D00|O10B (NIS Offset - Riegl)

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

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|R10D (Boulder Airport Radiometric Calibration)

Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|V10C (Boulder City South)

Flown: 28% (8/29)
Green: 14% (4/29)
Yellow: 0% (0/29)
Red: 14% (4/29)

D00|W10C (Wiggle Timing Test - Riegl)

Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)

Weather Forecast
Boulder, CO

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<tbody>
<tr>
<td>74°</td>
<td>42°</td>
<td>60°</td>
<td>39°</td>
<td>72°</td>
<td>46°</td>
<td>74°</td>
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</tbody>
</table>

Partly Cloudy
PM Showers
Mostly Sunny
Thunderstorms
Thunderstorms
Thunderstorms
Scattered
Showers

source: wunderground.com
Flight Collection Plan for 22 April 2024

Flyority 1

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

Flight Crew

Mike (Lidar)  John (NIS)  Abe, Matt, Nick (Ground)