Date: 2024-03-24
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 5

Report Author: Cameron
Lidar Operators: Cameron    Flight Hours: 00:00
Spectrometer Operators: Elissa    Hours until maintenance: 122.10
Pilots: Justin, Will
Ground Crew: Mitch

Summary
A cloudy day mix with wind and isolated rain showers. No flights were conducted.

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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</table>

Solar Angle Less Than 40 degrees

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<th>Line #</th>
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Flight Screenshots: None

Pictures: None

Cumulative Domain Coverage

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

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<tr>
<th>1</th>
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<th>20</th>
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Flown: 0% (0/20)
Green: 0% (0/20)
Yellow: 0% (0/20)
Red: 0% (0/20)
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: 86% (24/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 86% (24/28)

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|V10C (Boulder City South)

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 29
Flown: 0% (0/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 0% (0/29)

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

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</thead>
<tbody>
<tr>
<td>Cloudy</td>
<td>Mostly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Showers</td>
</tr>
<tr>
<td>37°F</td>
<td>21°F</td>
<td>44°F</td>
<td>28°F</td>
<td>52°F</td>
<td>31°F</td>
<td>64°F</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 25 March 2024

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1730 UTC / 1130 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: 1550 UTC / 0950 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_val_v1_Q780
On-Station Time: Daylight – No solar angle restrictions.

Flyority 4
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780
40° On-station Time: 1650 UTC / 1050 L
Additional Considerations: Runway should not be wet, or snow covered.

Flyority 5
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1620 UTC / 1030 L

Flight Crew
Mitch (Lidar), Cam (NIS), Elissa (Ground), Matt (Ground)