Payload 1 Daily Flight Report

Date: 2023-04-08
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N331AR

Domain: 00 (Training & Calibration)
Sites Flown: D10_V10F_Boulder_City_v9_PRM.xml
Days left in Domain: 5

Report Author: John
Lidar Operators: John
Spectrometer Operators: Mike
Pilots: Justin, Will
Ground Crew: Matt

Flight Hours: 00:54
Hours until maintenance: 95.00

Summary
John completed his annual re-certification on the OpTech Galaxy lidar system.

Concerns
None.

Comments
Payload ready for deployment assuming all calibration flight data is reviewed and approved.

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>

D00|O10C

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
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<td>Camera</td>
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<tr>
<td>Cloud Cover</td>
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Total number of lines flown: 10
Flight Screenshots

Cumulative Domain Coverage

D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

Flown: 100% (20/20)
Green: 0% (0/20)
Yellow: 75% (15/20)
Red: 25% (5/20)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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

D00|N10F (Nominal Runway at KBDU - Galaxy)

| 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 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |

Flown: 100% (37/37)
Green: 14% (5/37)
Yellow: 86% (32/37)
Red: 0% (0/37)

D00|O10C (NIS Offset - Galaxy)

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Flown: 100% (2/2)
Green: 100% (2/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

1 2 3 4 5

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

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

1 2 3 4 5

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

D00|V10F ()

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

D00|W10D (Wiggle Timing Test - Galaxy)

1 2

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

Weather Forecast
Boulder, CO

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<tbody>
<tr>
<td>67°</td>
<td>40°F</td>
<td>74°</td>
<td>46°F</td>
<td>81°</td>
<td>76°F</td>
<td>78°</td>
</tr>
</tbody>
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Partly Cloudy | Sunny | Sunny | Mostly Sunny | Mostly Cloudy | PM Rain | Showers

0 in | 0 in | 0 in | 0 in | 0 in | 0.52 in | --- in

Cloud Cover (%) | Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for April 9th, 2023

No flights planned.