Date: 2023-08-28  
Flight Campaign ID: P1C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N331AR

Domain: 00 (Training & Calibration)  
Sites Flown: N10F (Nominal Runway at KBDU - Galaxy)  
Days left in Domain: 8

Report Author: Matt  
Lidar Operators: Matt  
Spectrometer Operators: Elissa  
Pilots: Brent, Vince

Flight Hours: 02:29  
Hours until maintenance: 36.05

GPS Instruments: AOP_KBDU

Summary
A partially cloudy morning allowed the crew to collect 30 lines of the nominal runway calibration flight over the Boulder airport.

Concerns
A timestamp error was recorded early in the flight. A restart was accomplished which resolved the issue.

Comments
RAID 14 has been formatted.

Daily Coverage

<table>
<thead>
<tr>
<th>Line #</th>
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<th>17</th>
<th>18</th>
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Cloud Cover

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<th>Line #</th>
<th>21</th>
<th>22</th>
<th>26</th>
<th>31</th>
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<tbody>
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<td>Spectrometer</td>
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Cloud Cover
Total number of lines flown: 30

Flight Screenshots

Cumulative Domain Coverage

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

Flown: 0% (0/20)
Green: 0% (0/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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

D00|N10F (Nominal Runway at KBDU - Galaxy)

Flown: 81% (30/37)
Green: 0% (0/37)
Yellow: 27% (10/37)
Red: 54% (20/37)

D00|O10C (NIS Offset - Galaxy)

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

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<th>1</th>
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</table>
Flown: 0% (0/5)
Green: 0% (0/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

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</table>
Flown: 0% (0/5)
Green: 0% (0/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|V10F (Wiggle Timing Test - Galaxy)

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

D00|W10D (Wiggle Timing Test - Galaxy)

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</table>
Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

**Weather Forecast**

<table>
<thead>
<tr>
<th>Tue 8/29</th>
<th>Wed 8/30</th>
<th>Thu 8/31</th>
<th>Fri 9/1</th>
<th>Sat 9/2</th>
<th>Sun 9/3</th>
<th>Mon 9/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>82°</td>
<td>57°F</td>
<td>91°</td>
<td>62°F</td>
<td>91°</td>
<td>63°F</td>
<td>88°</td>
</tr>
</tbody>
</table>

- Sunny
- Mostly Sunny
- Mostly Sunny
- Mostly Cloudy
- Partly Cloudy
- Thunderstorms PM
- Mostly Sunny

- 0 in
- 0 in
- 0 in
- 0 in
- 0 in
- 0.06 in
- 0 in

*source: wunderground.com*

**Flight Collection Plan for 29 August 2023**

**Flyority 1**

Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v1_PRM
45° On-station Time: 1640 UTC / 1040 L
Additional Considerations: Ground should be dry.
**Flyority 2**
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10F_Boresight_Geocal_v9_PRM
30° On-station Time: 1510 UTC / 0910 L
Additional Considerations: No recent snowfall, clear roofs required.

**Flyority 3**
Collection Area: Nominal Runway Survey Flight Plan
Name: D10_N10F_Nominal_Rnwy_v11_PRM
On-Station Time: Daylight – No solar angle restrictions.
Additional Considerations: Runway should not be wet or snow covered.

**Flyority 4**
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10D_HQ_LIDAR_validation_v1_PRM
On-Station Time: Daylight – No solar angle restrictions.

**Flyority 5**
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10D_Wiggle_Test_v6_PRM
40° On-station Time: 1610 UTC / 1010 L
Additional Considerations: Runway should not be wet, or snow covered.

**Flyority 6**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM
35° On-station Time: 1540 UTC / 0940 L

**Flight Crew**
Elissa (Lidar), Matt (NIS), Abe (Ground)