Payload 1 Daily Flight Report

Date: 2022-11-22
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N331AR

Domain: 00 (Training & Calibration)
Sites Flown: B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)
Days left in Domain: 5

Report Author: Mike
Lidar Operators: Mike
Flight Hours: 01:51
Spectrometer Operators: Mitch
Hours until maintenance: 36.82
Pilots: Justin, Vince
GPS Instruments: AOP_KBDU, S-COGR
Ground Crew: Cameron, Matt

Summary
One more calibration flight was knocked off the list today. The Greeley Boresight flight was completed in green/yellow conditions. This leaves the only the Nominal Runway flight which is planned for tomorrow.

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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D00|B10F

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<th>Line #</th>
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<tbody>
<tr>
<td>Lidar</td>
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Total number of lines flown: 20
### Flight Screenshots

- **Lidar**
  - [Image of Lidar screenshot]
- **NIS**
  - [Image of NIS screenshot]

### Cumulative Domain Coverage

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

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- Flown: 100% (20/20)
- Green: 80% (16/20)
- Yellow: 20% (4/20)
- Red: 0% (0/20)

#### D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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

#### D00|N10F (Nominal Runway at KBDU - Galaxy)

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- Flown: 0% (0/37)
- Green: 0% (0/37)
- Yellow: 0% (0/37)
- Red: 0% (0/37)

#### D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

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- Flown: 100% (5/5)
- Green: 100% (5/5)
- Yellow: 0% (0/5)
- Red: 0% (0/5)
D00|V10F (Boulder City Nominal - Galaxy)

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Flown: 79% (23/29)
Green: 79% (23/29)
Yellow: 0% (0/29)
Red: 0% (0/29)

D00|W10D (Wiggle Timing Test - Galaxy)

| 1 | 2 |

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

Weather Forecast

Boulder, CO

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<td>30°</td>
<td>39°</td>
<td>24°</td>
<td>51°</td>
<td>33°</td>
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<tr>
<td>Partly Cloudy</td>
<td>AM Clouds/PM Sun</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
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source: wunderground.com

Flight Collection Plan for November 23 2022

Flyority 1
Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey
Flight Plan Name: D10_N10F_Nominal_Rnwy_v10_PRM.xml
On-station Time: N/A

Crew: Mitch (Lidar) Mike (NIS) Matt (Ground)