Payload 1 Daily Flight Report

Date: 2021-04-16
Flight Campaign ID: P1C2
Airport, FBO ID, City: Rocky Mountain Metropolitan Airport (KBJC) - Broomfield, CO
Aircraft: N331AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 13

Report Author: Ivana Vu
Lidar Operators: Ivana Vu
Spectrometer Operators: Robb Walker
Pilots: Ashley Taylor, Justin Eddington
Ground Crew: Matt Devoe
Flight Hours: 00:00
Hours until maintenance: 0.00
GPS Instruments: None

Summary
Low clouds, IFR and Marginal VFR conditions prevented flights today.

Concerns
None

Comments
NSF/NEON decal has been added to the aircraft tail
### Cumulative Domain Coverage

<table>
<thead>
<tr>
<th>Domain</th>
<th>Description</th>
<th>Flown</th>
<th>Green</th>
<th>Yellow</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>D00</td>
<td>B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)</td>
<td>100% (20/20)</td>
<td>100% (20/20)</td>
<td>0% (0/20)</td>
<td>0% (0/20)</td>
</tr>
<tr>
<td>D00</td>
<td>BLKF (Black Forest Waveform Range Test - Galaxy)</td>
<td>0% (0/21)</td>
<td>0% (0/21)</td>
<td>0% (0/21)</td>
<td>0% (0/21)</td>
</tr>
<tr>
<td>D00</td>
<td>H10D (NEON Headquarters Lidar Validation - Galaxy)</td>
<td>100% (4/4)</td>
<td>100% (4/4)</td>
<td>0% (0/4)</td>
<td>0% (0/4)</td>
</tr>
<tr>
<td>D00</td>
<td>N10F (Nominal Runway at KBDU - Galaxy)</td>
<td>43% (15/35)</td>
<td>0% (0/35)</td>
<td>0% (0/35)</td>
<td>43% (15/35)</td>
</tr>
<tr>
<td>D00</td>
<td>O10C (NIS Offset - Galaxy)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
</tr>
<tr>
<td>D00</td>
<td>R10E (Table Mountain Radiometric Calibration - Galaxy)</td>
<td>100% (5/5)</td>
<td>100% (5/5)</td>
<td>0% (0/5)</td>
<td>0% (0/5)</td>
</tr>
<tr>
<td>D00</td>
<td>V10F (Boulder City Nominal - Galaxy)</td>
<td>38% (11/29)</td>
<td>14% (4/29)</td>
<td>0% (0/29)</td>
<td>24% (7/29)</td>
</tr>
<tr>
<td>D00</td>
<td>W10D (Wiggle Timing Test - Galaxy)</td>
<td>100% (2/2)</td>
<td>100% (2/2)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
</tr>
</tbody>
</table>
Weather Forecast
Boulder, CO

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>39°</td>
<td>53°</td>
<td>48°</td>
<td>39°</td>
<td>46°</td>
<td>57°</td>
<td>59°</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>Cloudy</td>
<td>Mostly Sunny</td>
<td>PM Rain/Snow</td>
<td>Mostly Cloudy</td>
<td>Mostly Cloudy</td>
<td>PM Showers</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Chance of Precip.</td>
<td>0 in</td>
<td>0 in</td>
<td>2.9 in</td>
<td>0 in</td>
<td>-- in</td>
<td>0.05 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 16 April 2021
Flyority 1
Collection Area: [Functional Checkout Flight] – Nominal Runway Survey Flight Plan
Name: D10_N10F_Nominal_Rnwy_v9_PRM.xml
On-Station Time: Daylight – No solar angle restrictions.
Additional Considerations: Runway should not be wet, or snow covered.

Flyority 2
Collection Area: Black Forest Waveform Range Test Flight
Flight Plan Name: D10_BLKF_Black_Forest_v3_PRM.xml
On-station Time: Daylight – No solar angle restrictions.
Additional Considerations: Snow on ground / trees okay.

Flyority 3
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM.xml
On-station Time: 1600 UTC / 1000 L

Crew: Matt (Lidar), Ivana (NIS), Robb (Ground)