Date: 2022-11-19  
Flight Campaign ID: P1C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N331AR

Domain: 00 (Training & Calibration)  
Sites Flown: None  
Days left in Domain: 7

Report Author: Cameron  
Lidar Operators: Cameron  
Flight Hours: 00:00  
Spectrometer Operators: Matt  
Hours until maintenance: 42.78  
Pilots: Vince, Justin

Summary
The payload went into cooling mode last night and continued to cool throughout the day. The system will be ready for possible calibration flights starting tomorrow morning.

Concerns
- None

Comments
- Lab installed the replacement IWR3 digitizer in P1 last night.  
- Abe departed Boulder today. Thanks for the hard work Abayam!

Daily Coverage

Estimated Cloud Cover Key

| Green: 0-10% | Yellow: 11-50% | Red: >50% |

Flight Screenshots: None

Pictures: None

Cumulative Domain Coverage

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

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>5</th>
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<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
</table>
| 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: 0% (0/37)
Green: 0% (0/37)
Yellow: 0% (0/37)
Red: 0% (0/37)

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

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

D00|V10F (Boulder City Nominal - Galaxy)

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

D00|W10D (Wiggle Timing Test - Galaxy)

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

Weather Forecast
Boulder, CO

<table>
<thead>
<tr>
<th>Day</th>
<th>Temperature</th>
<th>Weather Condition</th>
<th>Precipitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun 11/20</td>
<td>48°F</td>
<td>26°C</td>
<td>Sunny</td>
</tr>
<tr>
<td>Mon 11/21</td>
<td>48°F</td>
<td>25°C</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Tue 11/22</td>
<td>49°F</td>
<td>30°C</td>
<td>Sunny</td>
</tr>
<tr>
<td>Wed 11/23</td>
<td>50°F</td>
<td>27°C</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Thu 11/24</td>
<td>45°F</td>
<td>35°C</td>
<td>Sunny</td>
</tr>
<tr>
<td>Fri 11/25</td>
<td>57°F</td>
<td>39°C</td>
<td>Sunny</td>
</tr>
<tr>
<td>Sat 11/26</td>
<td>59°F</td>
<td>36°C</td>
<td>Partly Cloudy</td>
</tr>
</tbody>
</table>
Flight Collection Plan for 20 November 2022

Flyority 1
Collection Area: Radiometric Calibration – Boulder Airport
Flight Plan Name: D10_R10F_Radiometric_Cal_KBDU_v1_PRM.xml
On-station Time: 1830 UTC / 1130 L | Off-Station Time 1900 UTC / 1200L (30 degrees solar elevation)

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10F_Boresight_Geocal_v9_PRM.xml
On-station Time: 1700 UTC / 1100 L (25 degrees solar elevation)

Flyority 3
Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey
Flight Plan Name: D10_N10F_Nominal_Rnwy_v10_PRM.xml
On-station Time: N/A

Flyority 4
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10D_Wiggle_Test_v6_PRM.xml
On-station Time: N/A

Flyority 5
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10D_HQ_LIDAR_validation_v1_PRM.xml
On-station Time: N/A

Flyority 6
Collection Area: Boulder City Nominal Science Flight
Flight Plan Name: D10_V10F_Boulder_City_v8_PRM.xml
On-station Time: 1700 UTC / 1100 L (25 degrees solar elevation)

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