Payload 3 Daily Flight Report

Date: 2023-04-01
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N934MU

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 17

Report Author: Cameron
Lidar Operators: None
Spectrometer Operators: None
Pilots: Jeff, Cullen
Ground Crew: Cameron, Matt, Mike, Brendan, Andrew

Flight Hours: 00:00
Hours until maintenance: 123.90

Summary
The Aircraft arrived this morning and the install crew made quick work installing Payload 3 inside the aircraft. The payload is currently pumping and cooling. We anticipate the payload reaching nominal operating temperature late Sunday afternoon.

Concerns
None

Comments
None

Daily Coverage
Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Color</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>0-10%</td>
</tr>
<tr>
<td>Yellow</td>
<td>11-50%</td>
</tr>
<tr>
<td>Red</td>
<td>&gt;50%</td>
</tr>
</tbody>
</table>

Flight Screenshots

Pictures: Payload 3 installation.
Cumulative Domain Coverage

D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

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

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

D00|N10D (Nominal Runway at KBDU - Riegl)

Flown: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)

D00|O10B (NIS Offset - Riegl)

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

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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

D00|R10D (Boulder Airport Radiometric Calibration)

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

D00|W10C (Wiggle Timing Test - Riegl)

Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
Weather Forecast
Boulder, CO

<table>
<thead>
<tr>
<th></th>
<th>Sun 4/2</th>
<th>Mon 4/3</th>
<th>Tue 4/4</th>
<th>Wed 4/5</th>
<th>Thu 4/6</th>
<th>Fri 4/7</th>
<th>Sat 4/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>64°</td>
<td>58°</td>
<td>32°</td>
<td>39°</td>
<td>40°</td>
<td>55°</td>
<td>58°</td>
</tr>
<tr>
<td>Cover</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
<td>Snow</td>
<td>PM Snow Showers</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Precip</td>
<td>0 in</td>
<td>1.2 in</td>
<td>2.2 in</td>
<td>1.3 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.05 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for April 2, 2023

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1700 UTC / 1100 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RIAcquire name: D10_B10E_Boresight_Apx_Q780)
30° On-station Time: 1530 UTC / 0930 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: Nominal Runway Survey Flight Plan
Name: D10_N10D_Nominal_Rnwy_v8_Q780
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_H10C_HQ_val_v1_Q780
On-Station Time: Daylight – No solar angle restrictions.

Flyority 5
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780
40° On-station Time: 1630 UTC / 1030 L
Additional Considerations: Runway should not be wet, or snow covered.
Flyority 6
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1620 UTC / 1030 L

Flight Crew
Cameron (Lidar), Mike (NIS), Matt (Ground)