Payload 3 Daily Flight Report

Date: 2021-09-16
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) – Boulder, CO
Aircraft: N615AR

Domain: 00
Sites Flown: B10E_1600m, 1000m, H10C, O10B
Days left in Domain: 8

Report Author: Matt DeVoe
Lidar Operators:  Matt DeVoe
Spectrometer Operators: Abe Morrison
Pilots: Scott Hayward, Will Mathews
Flight Hours: 3.58
Hours until maintenance: 11.95
GPS Instruments: AOP-KBDU, CHILL

Summary
The crew attempted the Boresight flight plan but had to abort due to cloud shadows in the collection area. We reconfigured the sensors to collect the HQ Lidar and the NIS offset plans.

Concerns
- The database is not generating the daily report.

Comments
None

Daily Coverage
Unavailable

Flight Screenshots

H10C – HQ Lidar Validation
O10B – NIS Offset
B10E – Greeley Boresight – 1600m Lines 1-3, 1000m 4-6

Cumulative Domain Coverage
Unavailable

Weather Forecast
Boulder, CO

<table>
<thead>
<tr>
<th>Fri 9/17</th>
<th>Sat 9/18</th>
<th>Sun 9/19</th>
<th>Mon 9/20</th>
<th>Tue 9/21</th>
<th>Wed 9/22</th>
<th>Thu 9/23</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°</td>
<td>150°F</td>
<td>89°</td>
<td>60°F</td>
<td>87°</td>
<td>55°F</td>
<td>70°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>PM Showers</td>
<td>Sunny</td>
<td>0.07 in</td>
<td>Sunny</td>
</tr>
</tbody>
</table>

Greeley, CO

<table>
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<tr>
<th>Fri 9/17</th>
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<th>Wed 9/22</th>
<th>Thu 9/23</th>
</tr>
</thead>
<tbody>
<tr>
<td>74°</td>
<td>44°F</td>
<td>92°</td>
<td>65°F</td>
<td>89°</td>
<td>55°F</td>
<td>72°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Sunny</td>
<td>0 in</td>
<td>Sunny</td>
</tr>
</tbody>
</table>

source: wunderground.com
Flight Collection Plan for 15 September 2021

Flyority 1
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780
Flight Plan Name: D10_B10E_Boresight_1000m_Q780
Flight Plan Name: D10_B10E_Boresight_500m_Q780
On-station Time: 15:30 UTC / 09:30 L

Flyority 2
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.

Flyority 3
Collection Area: Wiggle Timing Test
Name: D10_W10C_Wiggle_Test_v5_Q780
On-Station Time: 16:40 UTC / 10:40 L

Crew: Abe-Lidar, Nick-NIS, Matt-Ground