Date: 2020-07-30
Flight Campaign ID: P2C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00 (Training & Calibration), 13 (Southern Rockies & Colorado Plateau)
Sites Flown: N10E (Nominal Runway at KBDU - Reverse)
Days left in Domain: 12

Report Author: Michael Wussow
Lidar Operators: Michael Wussow    Flight Hours: 01:10
Spectrometer Operators: Ivana Vu    Hours until maintenance: 35.67
Pilots: Stephen Brawders, Chad Evans    GPS Instruments: AOP_KBDU
Ground Crew: John Adler

Summary
With cumulus present all over, attention was turned to the N10E Reverse Nominal Runway engineering test flight. The full plan was collected over the Boulder Airport without any issues.

Concerns
None

Comments
Other engineering and calibration test flights are being developed and added to the to-do list including BRDF and coincident satellite pass-over flights.

Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
</table>

D00|N10E

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>11</th>
<th>12</th>
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<tr>
<td>Lidar</td>
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<tr>
<td>Cloud Cover</td>
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</tbody>
</table>

Total number of lines flown: 14
Flight Screenshots

Lidar N10E

NIS N10E

Pictures
Cumulative Domain Coverage

D13|NIWO (Niwot Ridge Mountain Research Station)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|21|22|23|24|25|26|27|28|29|30|31|32|33|34|35|36|37|38|39|40|41|42|43|44|45|46|47|48|49|50|51|52|

Flown: 48% (25/52)
Green: 48% (25/52)
Yellow: 0% (0/52)
Red: 0% (0/52)

D13|WLOU (West St. Louis Creek)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Flown: 100% (14/14)
Green: 57% (8/14)
Yellow: 43% (6/14)
Red: 0% (0/14)

D00|N10E (Nominal Runway at KBDU - Reverse)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Flown: 100% (14/14)
Green: 0% (0/14)
Yellow: 100% (14/14)
Red: 0% (0/14)

Weather Forecast

Nederland, CO

<table>
<thead>
<tr>
<th>Fri 7/31</th>
<th>Sat 8/1</th>
<th>Sun 8/2</th>
<th>Mon 8/3</th>
<th>Tue 8/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>69°</td>
<td>53°F</td>
<td>70°</td>
<td>52°F</td>
<td>68°</td>
</tr>
<tr>
<td>Isolated Thunderstorms 0.02 in</td>
<td>PM Thunderstorms 0.08 in</td>
<td>Scattered Thunderstorms 0.15 in</td>
<td>PM Thunderstorms 0.1 in</td>
<td>Mostly Sunny 0 in</td>
</tr>
</tbody>
</table>
Flight Collection Plan for 31 July 2020

**Flyority 1**
Collection Area: Niwot Ridge Mountain Research Station (NIWO), Lines 2-28
Flight Plan Name: D13_NIWO_C1_P1_v4.pln
On-station Time: 0940 – 1640 Local / 1540 – 2240 UTC

**Flyority 2**
Collection Area: West St Louis Creek (WLOU), Lines 10-14 if conditions are “green”
Flight Plan Name: D13_WLOU_A1_P1_v1.pln
On-station Time: 0940 – 1640 Local / 1540 – 2240 UTC
**Crew Members:** Robb (Lidar), Ivana (NIS), John (Ground)

Flight Collection Plan for 01 August 2020
Flyority: Same as Previous Day
**Crew Members:** John (Lidar), Mike (NIS), Robb (Ground)