Payload 3 Daily Flight Report

Date: 2020-08-25
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 23

Report Author: Mitch Haynes
Lidar Operators: Mitch Haynes
Flight Hours: 00:00
Spectrometer Operators: Cameron Chapman
Hours until maintenance: 31.88
Pilots: Justin Eddington, Jeff Quintanilla
Ground Crew: Matt DeVoe

Summary
Heavy areas of smoke/haze across the front range today. Crew opted to hold off on flights today as forecasts suggest we might see an increase in visibility and better air quality over the next couple days.

Concerns
None

Comments
- Continued testing of both the new Hotel Kit 5 and Hotel Kit 3 using this past weekend’s recert flights of V10C. These flights will be used for testing extractions only, and will not be shipped with the RAID.

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

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

D00|CPER (Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER)

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<thead>
<tr>
<th>11</th>
<th>12</th>
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Green: 0% (0/14)
Yellow: 0% (0/14)
Red: 0% (0/14)

D00|F10A (D10 BRDF Flight - CPER)

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Red: 0% (0/20)
<table>
<thead>
<tr>
<th>Flight Code</th>
<th>Flight Description</th>
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<th>Yellow</th>
<th>Red</th>
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<tbody>
<tr>
<td>D00</td>
<td>H10C</td>
<td>NEON Headquarters Lidar Test - Riegl</td>
<td>100% (4/4)</td>
<td>0% (0/4)</td>
<td>0% (0/4)</td>
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<tr>
<td>D00</td>
<td>K10A</td>
<td>2000m Multiple Altitude Test Flight - CPER</td>
<td>0% (0/6)</td>
<td>0% (0/6)</td>
<td>0% (0/6)</td>
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<tr>
<td>D00</td>
<td>K10B</td>
<td>2000m Multiple Altitude Test Flight - RMNP</td>
<td>0% (0/6)</td>
<td>0% (0/6)</td>
<td>0% (0/6)</td>
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<tr>
<td>D00</td>
<td>N10D</td>
<td>Nominal Runway at KBDU - Riegl</td>
<td>0% (0/26)</td>
<td>0% (0/26)</td>
<td>0% (0/26)</td>
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<tr>
<td>D00</td>
<td>O10B</td>
<td>NIS Offset - Riegl</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
</tr>
<tr>
<td>D00</td>
<td>R10C</td>
<td>Table Mountain Radiometric Calibration - Riegl</td>
<td>0% (0/5)</td>
<td>0% (0/5)</td>
<td>0% (0/5)</td>
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<tr>
<td>D00</td>
<td>RMNP</td>
<td>(1000m Multiple Altitude Test Flight - RMNP)</td>
<td>0% (0/18)</td>
<td>0% (0/18)</td>
<td>0% (0/18)</td>
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<tr>
<td>D00</td>
<td>W10C</td>
<td>Wiggle Timing Test - Riegl</td>
<td>100% (2/2)</td>
<td>0% (0/2)</td>
<td>0% (0/2)</td>
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Weather Forecast

<table>
<thead>
<tr>
<th></th>
<th>Wed 8/26</th>
<th>Thu 8/27</th>
<th>Fri 8/28</th>
<th>Sat 8/29</th>
<th>Sun 8/30</th>
<th>Mon 8/31</th>
<th>Tue 9/1</th>
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</thead>
<tbody>
<tr>
<td>PM</td>
<td>89°</td>
<td>65°F</td>
<td>91°</td>
<td>63°F</td>
<td>81°</td>
<td>60°F</td>
<td>85°</td>
</tr>
<tr>
<td>Cloud Cover (%)</td>
<td>PM</td>
<td>Thunderstorms</td>
<td>0.05 in</td>
<td>Mostly Sunny</td>
<td>0 in</td>
<td>PM</td>
<td>Thunderstorms</td>
</tr>
<tr>
<td>Chance of Precip. (%)</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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Flight Collection Plan for 26 August 2020

**Flyority 1**
Collection Area: Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER
Flight Plan Name: D10_CPER_C1_P1_v6_Q780
On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

**Flyority 2**
Collection Area: 2000m Multiple Altitude Flight - CPER
Flight Plan Name: D10_K10A_Multiple_Alt_2000m_v1
On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

**Flyority 3**
Collection Area: 1000m Multiple Altitude Test Flight - RMNP
Flight Plan Name: D10_RMNP_R2_P1_v2_Q780
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 4**
Collection Area: 2000m Multiple Altitude Flight - RMNP
Flight Plan Name: D10_K10B_Multiple_Alt_v2
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 5**
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 6**
Collection Area: Riegl Boresight Calibration at Greeley
Flight Plan Name: D10_B10E_Boresight_1600m_Q780
On-station Time: 0900 – 1700 Local / 1500 – 2300 UTC

**Flyority 7**
Collection Area: Nominal Runway
Flight Plan Name: D10_N10D_Nominal_Runway_v8_Q780

**Flyority 8**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
On-station Time: 0930 – 1640 Local / 1530 – 2240 UTC

Wed 8/26 Crew: Robb (Lidar), Cam (NIS), Mitch (Ground)
Thurs 8/27 Crew: Cam (Lidar), Ivana (NIS), Robb (Ground)
Friday 8/28 Crew: Ivana (Lidar), Mitch (NIS), Cam (Ground)