Date: 2020-09-05
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00 (Training & Calibration)
Sites Flown: RMNP (Rocky Mountain National Park)
Days left in Domain: 12

Report Author: Robb Walker
Lidar Operators: Robb Walker
Spectrometer Operators: Cameron Chapman
Pilots: Justin Eddington, Jeff Quintanilla
Ground Crew: Mitch Haynes, (Bridget Hass, Elissa Barris) CPER Ground Crew

Flight Hours: 00:00
Hours until maintenance: 21.68
GPS Instruments: None

Summary
Smoke levels increased overnight in front range, and especially North over CPER. Conditions at CPER and RMNP were not optimal for Satellite Overpass flight or Multiple Altitude test flights at either site.

Comments
- Crew remains hopeful that smoke will decrease following cold front on Tuesday.
- Pilot Jeff Quintanilla departed for time off and Stephen Brawders arrived. Thanks Jeff and Safe Travels!

Concerns
- None

Cumulative Domain Coverage

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Flown: 100% (20/20) |
| Green: 70% (14/20) |
| Yellow: 30% (6/20) |
| Red: 0% (0/20) |

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

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<td>Flown: 0% (0/14)</td>
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D00|F10A (D10 BRDF Flight - CPER)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Flown: 100% (20/20) |
| Green: 100% (20/20) |
| Yellow: 0% (0/20) |
| Red: 0% (0/20) |
### D00|H10C (NEON Headquarters Lidar Test - Riegl)

- **Flown:** 100% (4/4)
- **Green:** 0% (0/4)
- **Yellow:** 0% (0/4)
- **Red:** 100% (4/4)

### D00|K10A (2000m Multiple Altitude Test Flight - CPER)

- **Flown:** 0% (0/6)
- **Green:** 0% (0/6)
- **Yellow:** 0% (0/6)
- **Red:** 0% (0/6)

### D00|K10B (2000m Multiple Altitude Test Flight - RMNP)

- **Flown:** 0% (0/6)
- **Green:** 0% (0/6)
- **Yellow:** 0% (0/6)
- **Red:** 0% (0/6)

### D00|N10D (Nominal Runway at KBDU - Riegl)

- **Flown:** 92% (24/26)
- **Green:** 0% (0/26)
- **Yellow:** 0% (0/26)
- **Red:** 92% (24/26)

### D00|O10B (NIS Offset - Riegl)

- **Flown:** 100% (2/2)
- **Green:** 100% (2/2)
- **Yellow:** 0% (0/2)
- **Red:** 0% (0/2)

### D00|R10C (Table Mountain Radiometric Calibration - Riegl)

- **Flown:** 100% (5/5)
- **Green:** 100% (5/5)
- **Yellow:** 0% (0/5)
- **Red:** 0% (0/5)

### D00|RMNP (1000m Multiple Altitude Test Flight - RMNP)

- **Flown:** 0% (0/18)
- **Green:** 0% (0/18)
- **Yellow:** 0% (0/18)
- **Red:** 0% (0/18)

### D00|W10C (Wiggle Timing Test - Riegl)

- **Flown:** 100% (2/2)
- **Green:** 0% (0/2)
- **Yellow:** 0% (0/2)
- **Red:** 100% (2/2)
## Weather Forecast

**Boulder, CO**

<table>
<thead>
<tr>
<th>Sun 9/6</th>
<th>Mon 9/7</th>
<th>Tue 9/8</th>
<th>Wed 9/9</th>
<th>Thu 9/10</th>
<th>Fri 9/11</th>
<th>Sat 9/12</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Cloud Cover" /> Mostly Sunny</td>
<td><img src="image2" alt="Cloud Cover" /> Mostly Sunny</td>
<td><img src="image3" alt="Cloud Cover" /> Snow</td>
<td><img src="image4" alt="Cloud Cover" /> Mostly Sunny</td>
<td><img src="image5" alt="Cloud Cover" /> Sunny</td>
<td><img src="image6" alt="Cloud Cover" /> Sunny</td>
<td><img src="image7" alt="Cloud Cover" /> Sunny</td>
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<tr>
<td>95°F</td>
<td>90°F</td>
<td>34°F</td>
<td>47°F</td>
<td>81°F</td>
<td>74°F</td>
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<td>60°F</td>
<td>31°F</td>
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<td>41°F</td>
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## Flight Collection Plan for 06 September 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: 1010 – 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: 1010 – 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: 1020 – 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: 1020 – 1610 Local / 1600 – 2210 UTC

**Sunday 9/6 Crew:** Cam (Lidar), Mitch (NIS), Robb (Ground)

**Monday 9/7 Crew:** Mitch (Lidar), Robb (NIS), Cam (Ground)

**Tuesday 9/8 Crew:** Robb (Lidar), Cam (NIS), Mitch (Ground)