Payload 3 Daily Flight Report

Date: 2020-08-24
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: 24

Report Author: Cameron Chapman
Lidar Operators: Cameron Chapman  Flight Hours: 00:00
Spectrometer Operators: Mitch Haynes  Hours until maintenance: 31.88
Pilots: Justin Eddington, Mike Francis  GPS Instruments: None
Adt'l Flight Crew: None  Ground Crew: Matt DeVoe

Summary: Smoke and clouds in the area prevented mission flights today. We will continue to take a strategic approach by closely monitoring the smoke and planning flights accordingly. The crew spent the day assisting with hotel kit repairs.

Concerns:
- Nothing new to report at this time.

Comments:
- Hotel Kit 5 is now setup in Earhart and will serve as the temporary Data Extraction Room until the end of the flight season. Training flights will be extracted to ensure full functionality. No service now tickets will be generated for training flight as they will not be added to the official RAID.
- Hotel Kit 3’s issue appears to be related to a faulty Pony Disk. The disk has been marked “BAD” and taken out of rotation.
- Completed extracting data from 2020082116 on HK5.
- Ian repaired AXE 4 this morning and installed it back into P3.
- Pilot Mike Francis will depart today and be replaced by pilot Jeff Q.

Daily Coverage:
- None

Flight Screenshots
- N/A

Cumulative Domain Coverage

<table>
<thead>
<tr>
<th>D00</th>
<th>B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
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<tr>
<td>Flown:</td>
<td>0% (0/20)</td>
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<tr>
<td>Green:</td>
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<td>Yellow:</td>
<td>0% (0/20)</td>
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<tr>
<td>Red:</td>
<td>0% (0/20)</td>
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</tbody>
</table>
### D00|CPER (Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER)

<table>
<thead>
<tr>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
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<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
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Yellow: 0% (0/14)
Red: 0% (0/14)

### 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 |
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Red: 0% (0/20)

### D00|H10C (NEON Headquarters Lidar Test - Riegl)

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Yellow: 0% (0/4)
Red: 100% (4/4)

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

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<tr>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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</thead>
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Red: 0% (0/6)

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

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<thead>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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Yellow: 0% (0/6)
Red: 0% (0/6)

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
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Yellow: 0% (0/26)
Red: 0% (0/26)

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

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Red: 0% (0/2)

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

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Yellow: 0% (0/5)
Red: 0% (0/5)
D00|RMNP (1000m Multiple Altitude Test Flight - RMNP)

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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>Tue 8/25</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>
</tr>
</thead>
<tbody>
<tr>
<td>94°</td>
<td>66°F</td>
<td>90°</td>
<td>63°F</td>
<td>93°</td>
<td>62°F</td>
<td>83°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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</tr>
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</table>

Nunn, CO (CPER)

<table>
<thead>
<tr>
<th>Tue 8/25</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>
</tr>
</thead>
<tbody>
<tr>
<td>95°</td>
<td>62°F</td>
<td>92°</td>
<td>59°F</td>
<td>94°</td>
<td>62°F</td>
<td>82°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Isolated</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>Thunderstorms</td>
<td>0 in</td>
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Weather forecast includes temperature and cloud conditions for the specified locations and dates.
Flight Collection Plan for 25 August 2020
(Flight Order Priority subject to change)

**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

Crew: Mitch (Lidar), Cameron (NIS), Matt (Ground)