**Payload 2 Daily Flight Report**

**Date:** 2020-08-10  
**Flight Campaign ID:** P2C1  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Domain:** 00 (Training & Calibration)  
**Sites Flown:** O10A (NIS Offset)  
**Days left in Domain:** 21

**Report Author:** Ivana Vu  
**Lidar Operators:** Ivana Vu  
**Flight Hours:** 00:24, 00:19, 00:19  
**Spectrometer Operators:** Michael Wussow  
**Hours until maintenance:** 23.53  
**Pilots:** Chad Evans, Stephen Brawders  
**GPS Instruments:** AOP_KBDU  
**Ground Crew:** John Adler, Robb Walker

**Summary**  
Smoke from the Pine Gulch fire once again prevented calibration flights at Table Mountain and CPER. Cloud-free skies and promising forecasts in Boulder prompted crew to attempt the NIS Offset, however, cloud shadows started to develop inside the collection area during the 3rd cycle and the remaining 2 flights were cancelled.

**Concerns**  
The Pine Gulch fire near Grand Junction is 7% contained and smoke continues to be an issue for calibration flights.

**Comments**  
- Landsat 7 satellite will pass over CPER tomorrow  
- Robb retrieved GPS01 (WLOU)

**Daily Coverage**  
None (NIS Offset incomplete)

**Cumulative Domain Coverage**  
Estimated Cloud Cover Key

```
Green: 0-10%  Yellow: 11-50%  Red: >50%
```

**D00|B10B (Complete Greeley Boresight Geocalibration - 1500m, 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: 0% (0/20)  
Yellow: 100% (20/20)  
Red: 0% (0/20)
```

**D00|CPER (Satellite Overpass Coincident Collection - Central Plains Ecological Range)**

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</table>
Flown: 0% (0/28)  
Green: 0% (0/28)  
Yellow: 0% (0/28)  
Red: 0% (0/28)
D00|F10A (D10 BRDF Flight - Central Plains Ecological Range)

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

D00|H10B (NEON Headquarters Lidar Test - modified cross-track)

Flown: 100% (4/4)
Green: 50% (2/4)
Yellow: 50% (2/4)
Red: 0% (0/4)

D00|N10C (Nominal Runway at KBDU - Optech)

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

D00|O10A (NIS Offset)

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

D00|R10A (Table Mountain Radiometric Calibration)

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

D00|W10B (Wiggle Timing Test)

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 8/11</th>
<th>Wed 8/12</th>
<th>Thu 8/13</th>
<th>Fri 8/14</th>
<th>Sat 8/15</th>
<th>Sun 8/16</th>
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<tbody>
<tr>
<td>92°</td>
<td>65°F</td>
<td>92°</td>
<td>66°F</td>
<td>93°</td>
<td>69°F</td>
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Mostly Sunny 0 in
Mostly Sunny 0 in
Mostly Sunny 0 in
Mostly Sunny 0 in
Mostly Sunny 0 in
Mostly Sunny 0 in
Flight Collection Plan for 11 August 2020

**Flyority 1**
Collection Area: Satellite Overpass Coincident Collection – Central Plains Ecological Range (only if conditions are “green”)
Flight Plan Name: D10_CPER_C1_P1_v4.pln
On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

**Flyority 2**
Collection Area: D10 BRDF Flight – Central Plains Ecological Range (only if conditions are “green”)
Flight Plan Name: D10_F10A_BRDF_v1.pln
On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

**Flyority 3**
Collection Area: Radiometric Calibration at Table Mountain
Flight Plan Name: D10_R10A_Radiometric_Calibration_Table_Mountain_v1.pln
On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

**Flyority 4**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10A_NIS_Offset_v1.pln
On-station Time: 0930 – 1650 Local / 1530 – 2250 UTC

Crew members: Mike (Lidar), Ivana (NIS), John (Ground); Bridget, Robb (Tarps)

Flight Collection Plan for 12 August 2020
Flyority: Same as previous day
Crew members: John (Lidar), Robb (NIS), Ivana (Ground); Bridget, Dave (Tarps)