



## 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

**Spectrometer Operators:** Mitch Haynes

**Pilots:** Justin Eddington, Mike Francis

**Adt'l Flight Crew:** None

**Flight Hours:** 00:00

**Hours until maintenance:** 31.88

**GPS Instruments:** 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

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
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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)

11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Flown: 0% (0/14)  
Green: 0% (0/14)  
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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Flown: 0% (0/20)  
Green: 0% (0/20)  
Yellow: 0% (0/20)  
Red: 0% (0/20)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

1	2	3	4
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Flown: 100% (4/4)  
Green: 0% (0/4)  
Yellow: 0% (0/4)  
Red: 100% (4/4)

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

6	7	8	9	10	11
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Flown: 0% (0/6)  
Green: 0% (0/6)  
Yellow: 0% (0/6)  
Red: 0% (0/6)

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

2	3	4	5	6	7
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Flown: 0% (0/6)  
Green: 0% (0/6)  
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	
21	22	23	24	25	26															

Flown: 0% (0/26)  
Green: 0% (0/26)  
Yellow: 0% (0/26)  
Red: 0% (0/26)

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

1	2	3	4	5
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Flown: 0% (0/5)  
Green: 0% (0/5)  
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
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Flown: 0% (0/18)  
 Green: 0% (0/18)  
 Yellow: 0% (0/18)  
 Red: 0% (0/18)

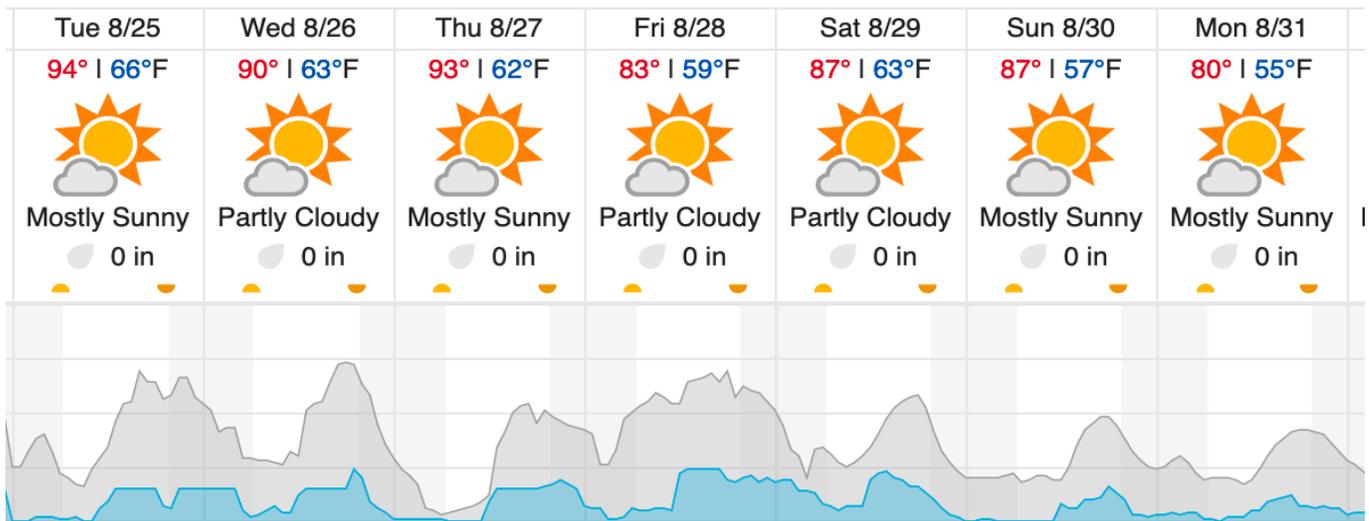
D00|W10C (Wiggle Timing Test - Riegl)

1	2
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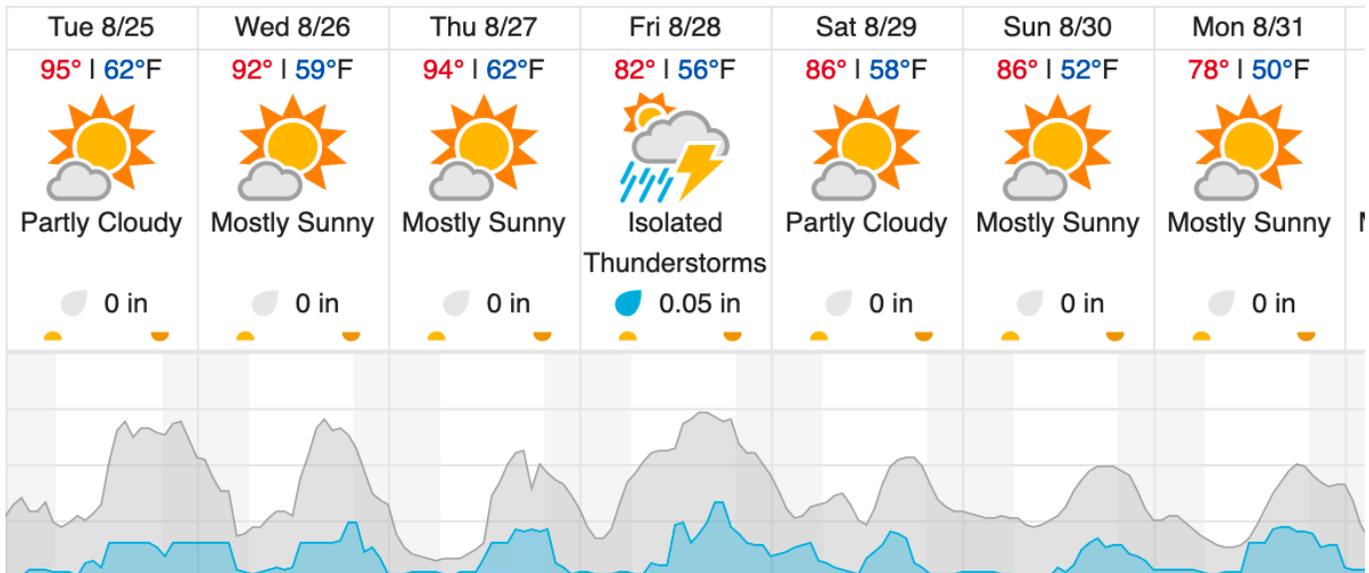
Flown: 100% (2/2)  
 Green: 0% (0/2)  
 Yellow: 0% (0/2)  
 Red: 100% (2/2)

**Weather Forecast**

Boulder, CO



Nunn, CO (CPER)



## **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)