



## Payload 3 Daily Flight Report



**Date:** 2020-08-20

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Rocky Mountain Metropolitan Airport (KBJC) - Broomfield, CO

**Domain:** 00 (Training & Calibration)

**Sites Flown:** None

**Days left in Domain:** 27

**Report Author:** Cameron Chapman

**Lidar Operators:** Cameron Chapman

**Spectrometer Operators:** Mitch Haynes

**Pilots:** Mike Francis, Lane Taylor

**Ground Crew:** Cameron Chapman, Mitch Haynes

**Flight Hours:** 00:00

**Hours until maintenance:** 34.78

**GPS Instruments:** None

### Summary

The crew used the day to catch up on a variety of tasks such as; extractions from D05, Hg Lamp test and assisted Ian from the AOP Lab with the installation of a new AXE in P3. We will relocate P3 operations from Broomfield to the PIF following flights tomorrow.

### Concerns

- None

### Comments

- Data from 2020081913 is being re-extracted to ensure the correct checksum files are on the disk.
- Completed the Hg Mercury lamp test
- Recertification of ASOs on P3 will begin tomorrow and continue into the weekend in conjunction with calibration and engineering flights.

### Pictures

- None

### Cumulative Domain Coverage

D00|B10E (Riegl Borelight 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: 100% (20/20)

Green: 100% (20/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

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

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	27	28													

Flown: 100% (27/27)

Green: 100% (27/27)

Yellow: 0% (0/27)

Red: 0% (0/27)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

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

2	3	4	5	6	7	8	9	10	11	12	13
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Flown: 0% (0/12)  
Green: 0% (0/12)  
Yellow: 0% (0/12)  
Red: 0% (0/12)

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

2	3	4	5	6	7	8	9	10	11	12	13
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Flown: 0% (0/12)  
Green: 0% (0/12)  
Yellow: 0% (0/12)  
Red: 0% (0/12)

#### 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: 92% (24/26)  
Green: 0% (0/26)  
Yellow: 62% (16/26)  
Red: 31% (8/26)

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

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

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

1	2	3	4	5
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Flown: 100% (5/5)  
Green: 100% (5/5)  
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	20	21	
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39			

Flown: 0% (0/38)  
Green: 0% (0/38)  
Yellow: 0% (0/38)  
Red: 0% (0/38)

#### D00|V10C (Boulder City South)

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	27	28	29												

Flown: 7% (2/29)  
Green: 0% (0/29)  
Yellow: 0% (0/29)  
Red: 7% (2/29)

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

1 2

Flown: 100% (2/2)

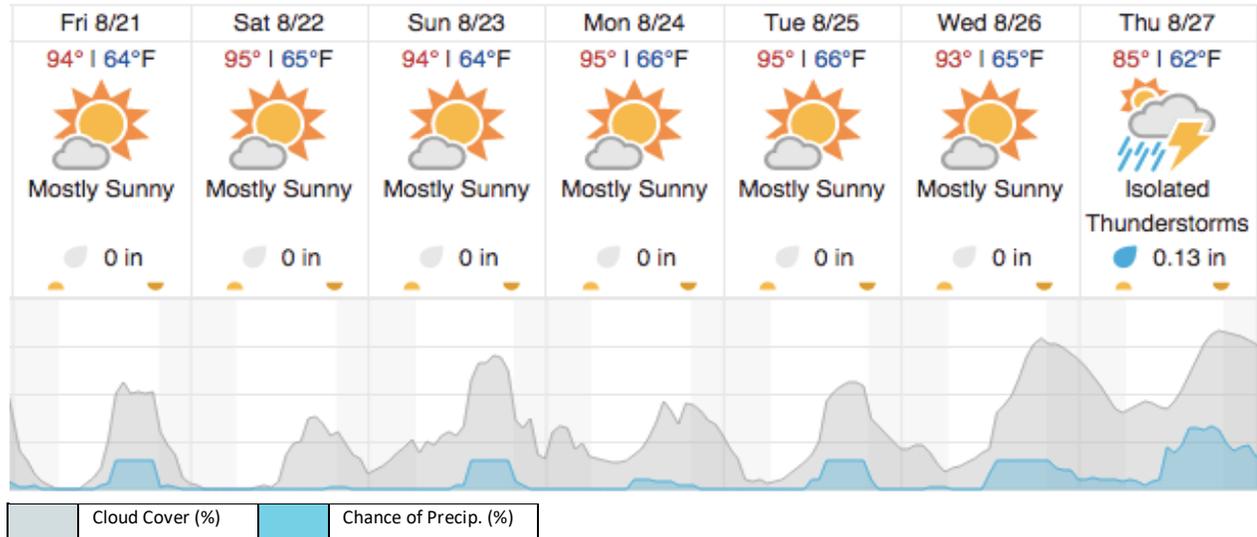
Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

### Weather Forecast

Boulder, CO



### Flight Collection Plan for 21 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: Wiggle Timing Test

Flight Plan Name: D10\_W10C\_Wiggle\_Test\_v5\_Q780

**Flyority 9**

Collection Area: NEON HQ LIDAR Validation

Flight Plan Name: D10\_H10C\_HQ\_val\_v1\_Q780

**Flyority 10**

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10B\_NIS\_Offset\_v2\_Q780

On-station Time: 0930 – 1640 Local / 1530 – 2240 UTC

Crew: Cameron Chapman (trainer) Robb Walker (Lidar) Mitch Haynes (NIS) John Adler (Ground)