



## Payload 3 Daily Flight Report



**Date:** 2020-09-01

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

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

**Sites Flown:** O10B (NIS Offset - Riegl)

**Days left in Domain:**

**Report Author:** Mitch Haynes

**Lidar Operators:** Mitch Haynes

**Flight Hours:** 00:22, 00:22, 00:22, 00:21, 00:21

**Spectrometer Operators:** Robb Walker

**Hours until maintenance:** 24.05

**Pilots:** Justin Eddington, Jeff Quintanilla

**GPS Instruments:** AOP\_KBDU

**Ground Crew:** Cameron Chapman

### Summary

Clear skies and not too smoky sky coverage allowed the flight crew to complete the NIS Offset under green conditions today.

### Concerns

None

### Comments

- Crew discussed CPER Tarp flight with science this morning, but opted to hold off in hopes of more clear/less smokey conditions in the coming days.

### Daily Coverage

Estimated Cloud Cover Key

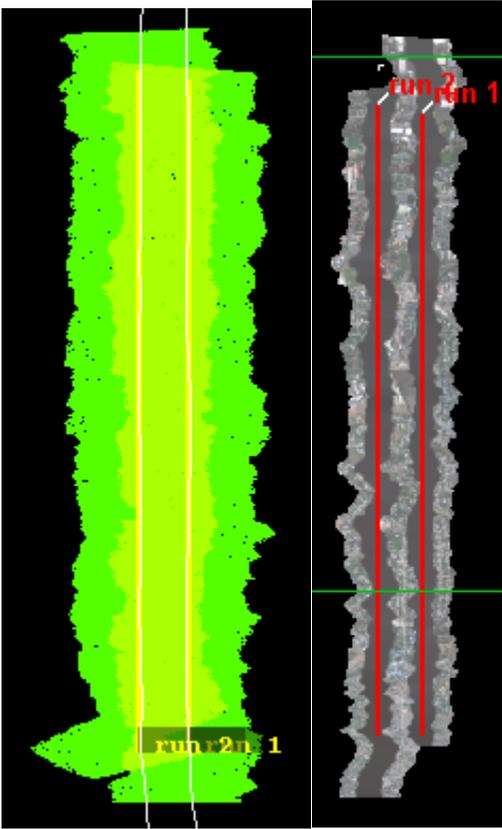
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|O10B

Line #	1	2	2	1	1	2	1	2	1	2
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

Total number of lines flown: 10

### Flight Screenshots



**Pictures:** One of the more clear views of the Flatirons P3 has had since returning to Boulder, outside of some low lying clouds in the mountains. Hopefully the smoke continues to clear out over the next few days.



## 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: 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)

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
---	---	---	---	---	---

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: 92% (24/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 92% (24/26)

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 100% (2/2)

Green: 100% (2/2)

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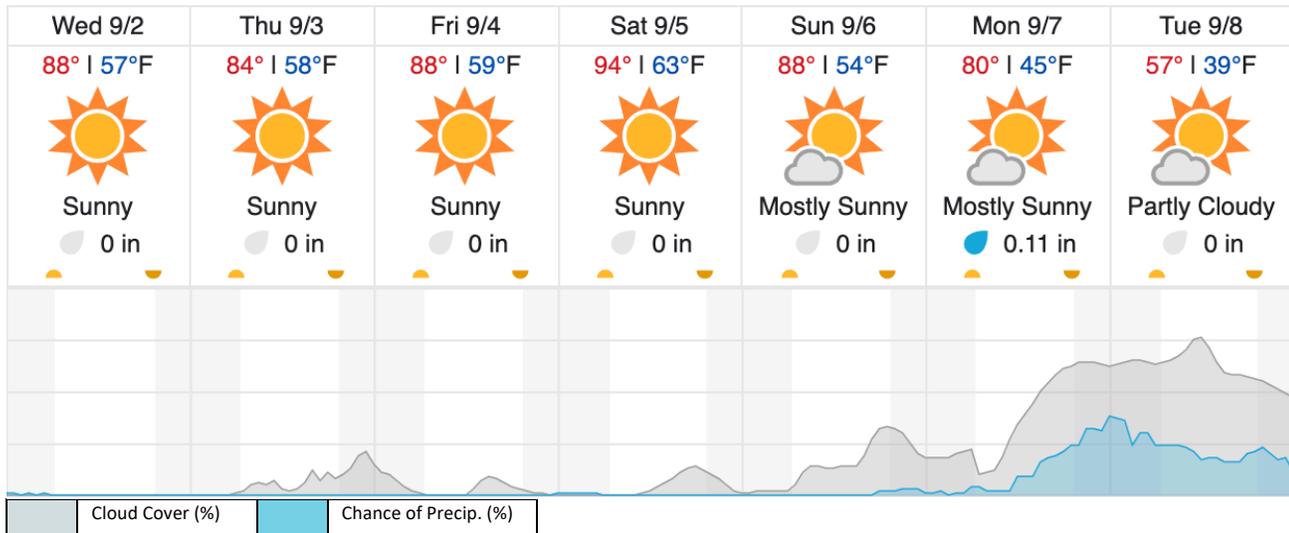
Flown: 0% (0/18)  
 Green: 0% (0/18)  
 Yellow: 0% (0/18)  
 Red: 0% (0/18)

D00|W10C (Wiggle Timing Test - Riegl)

1 2

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

### Weather Forecast



### Flight Collection Plan for 02 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: 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: NIS Offset Flight

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

On-station Time: 0940 – 1640 Local / 1540 – 2240 UTC

Wednesday 9/2 Crew: Robb (Lidar), Cam (NIS), Mitch (Ground), Matt (GPS)

Thursday 9/3 Crew: Cam (Lidar), Mitch (NIS), Robb (Ground)

Friday 9/4 Crew: Mitch (Lidar), Robb (NIS), Cam (Ground)