



## Payload 3 Daily Flight Report



**Date:** 2020-09-04

**Flight Campaign ID:** P3C1

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

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

**Sites Flown:** RMNP (Rocky Mountain National Park)

**Days left in Domain:** 13

**Report Author:** Mitch Haynes

**Lidar Operators:** Mitch Haynes

**Spectrometer Operators:** Robb Walker

**Pilots:** Justin Eddington, Jeff Quintanilla

**Ground Crew:** Cameron Chapman, Bridget Hass  
& Alok Shrestha (Ground Crew at CPER)

**Flight Hours:** 00:21

**Hours until maintenance:** 21.68

**GPS Instruments:** None

### Summary

Skies look promising this morning as smoke accumulation from yesterday had appeared to have move on. However as ground crews mobilized towards CPER, smoke became much more apparent along the front range, and an attempt at a CPER Satellite Overpass Coincident Collect was called off. Webcams from RMNP looked like smoke wasn't quite as bad in the mountains, so the crew turned their attention towards completing a multiple altitude collect over the eastern portions of the RMNP flight box. Quickly after getting airborne, the crew realized smoke was indeed just as bad over the mountains, and called off collect.

### Comments

- Crew will continue to monitor smoke levels for another possible satellite overpass collect over the weekend. In no collect occurs, crew remains hopefully that smoke will decrease following a cold front early next week.

### Concerns

- None

### 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: 100% (20/20)

Green: 100% (20/20)

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: 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
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Flown: 100% (2/2)

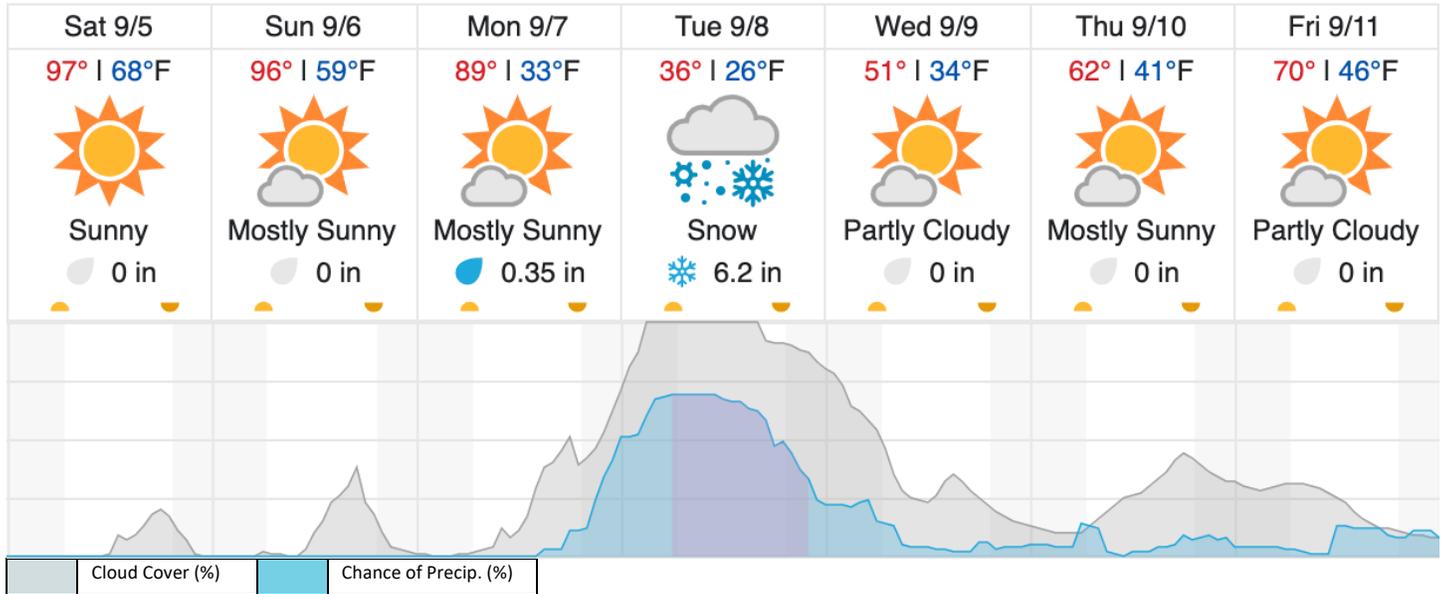
Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 100% (2/2)

## Weather Forecast

Boulder, CO



## Flight Collection Plan for 05 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: 1010 – 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: 1010 – 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: 1020 – 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: 1020 – 1610 Local / 1600 – 2210 UTC

Saturday 9/5 Crew: Robb (Lidar), Cam (NIS), Mitch (Ground) Elissa (Field Tarps)

Sunday 9/6 Crew: Cam (Lidar), Mitch (NIS), Robb (Ground)

Monday 9/7 Crew: Mitch (Lidar), Robb (NIS), Cam (Ground)