



## Payload 3 Daily Flight Report



**Date:** 2020-09-02

**Flight Campaign ID:** P3C1

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

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

**Sites Flown:** F10A (D10 BRDF Flight - CPER)

**Days left in Domain:** 15

**Report Author:** Robb Walker

**Lidar Operators:** Robb Walker

**Spectrometer Operators:** Cameron Chapman

**Pilots:** Justin Eddington, Jeff Quintanilla

**Ground Crew:** Matt Devoe, Mitch Haynes

**Flight Hours:** 02:01

**Hours until maintenance:** 22.03

**GPS Instruments:** AOP\_CPER, AOP\_KBDU

### Summary

Forecast held true for Payload-3 today, bringing cloud free skies over the front range. Smoke models showed little to no vertically integrated smoke forecast this morning at CPER, but some haze was visible during flight. BRDF test flight at CPER was completed.

### Concerns

None

### Comments

-GPS01 was deployed at RMNP

-Extraction of BRDF data could not be started, as Hotel Kit 5 is not seeing MIDAS drives and data properly. Andrew will help troubleshoot tomorrow.

### Daily Coverage

Estimated Cloud Cover Key

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

D00|F10A

Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20



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

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)

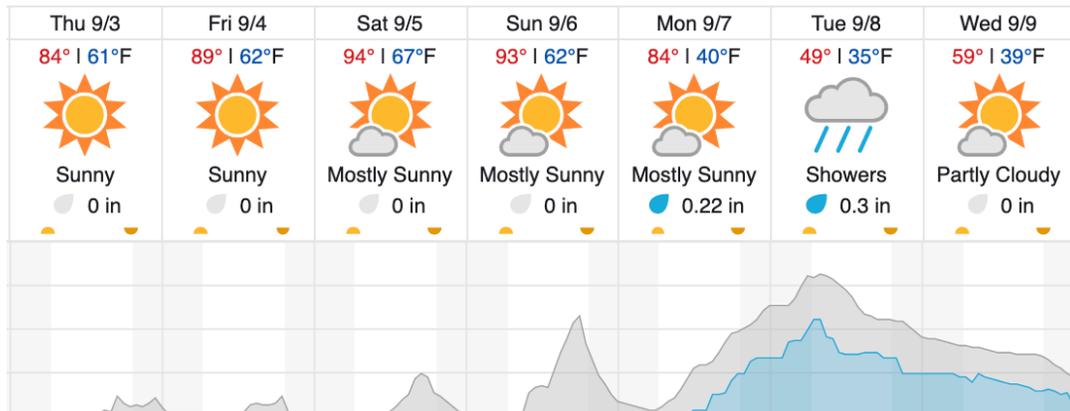
D00|W10C (Wiggle Timing Test - Riegl)

1 2

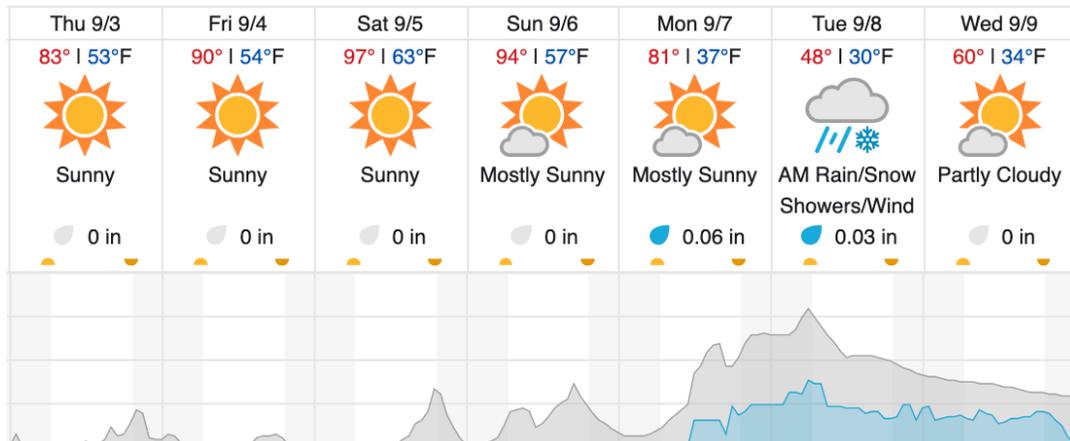
Flown: 100% (2/2)  
 Green: 0% (0/2)  
 Yellow: 0% (0/2)  
 Red: 100% (2/2)

**Weather Forecast**

Boulder, CO



Nunn, CO



Cloud Cover (%)	Chance of Precip. (%)
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**Flight Collection Plan for 03 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

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

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

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