



# Payload 3 Daily Flight Report



**Date:** 2020-08-27  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Domain:** 00 (Training & Calibration)  
**Sites Flown:** R10C (Table Mountain Radiometric Calibration - Riegl)  
**Days left in Domain:** 21

**Report Author:** Cameron Chapman  
**Lidar Operators:** Cameron Chapman  
**Spectrometer Operators:** Ivana Vu  
**Pilots:** Jeff Quintanilla, Justin Eddington  
**Ground Crew:** Robb Walker  
**Flight Hours:** 01:17  
**Hours until maintenance:** 28.55  
**GPS Instruments:** AOP\_KBDU

### Summary

The crew took advantage of the relatively clear morning sky and flew the 40 and 45 solar angle Table Mountain Radiometric Calibration flights. Smoke was still noted but drastically improved from the past two weeks.

### Concerns

- None

### Comments

- No lidar acquired.
- Happy Birthday to me!! 😊

### Daily Coverage

Estimated Cloud Cover Key

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

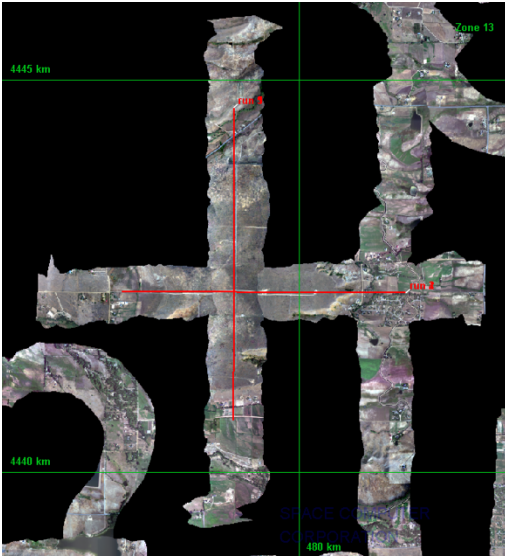
D00|R10C

Line #	1	2	3	4	5
Lidar					
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

## Flight Screenshots

NIS Geo Paint



## Pictures



Image captured while flying Table Mountain Radiometric Calibration looking toward the Flatirons  
**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
---	---	---	---	----	----

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: 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: 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)

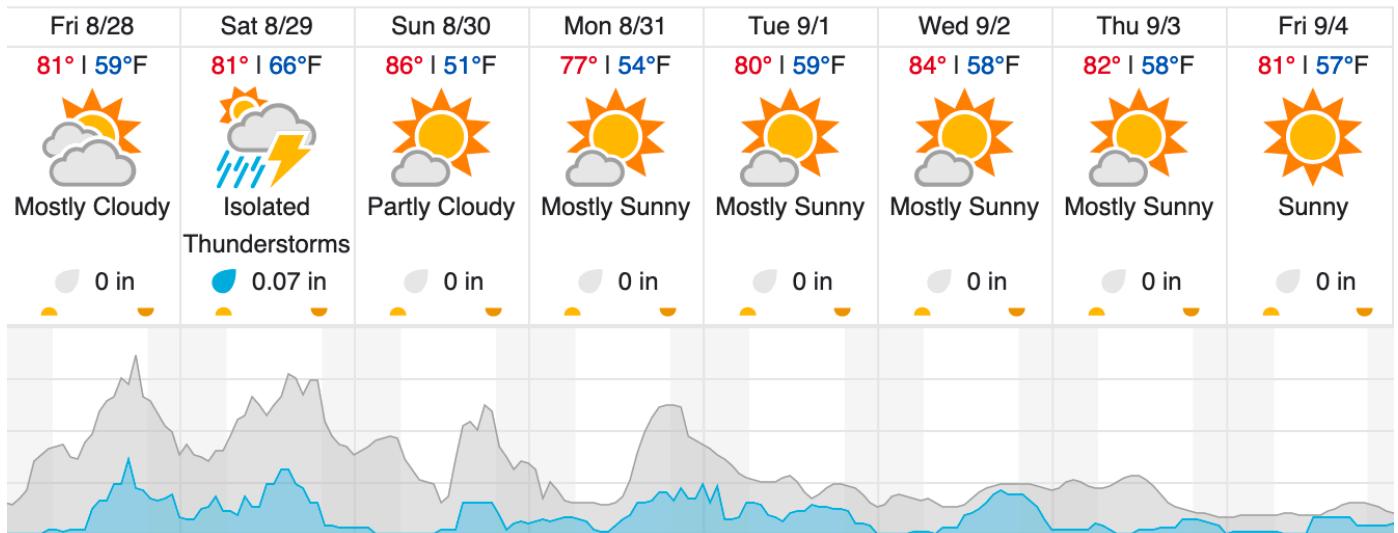
Green: 0% (0/2)

Yellow: 0% (0/2)

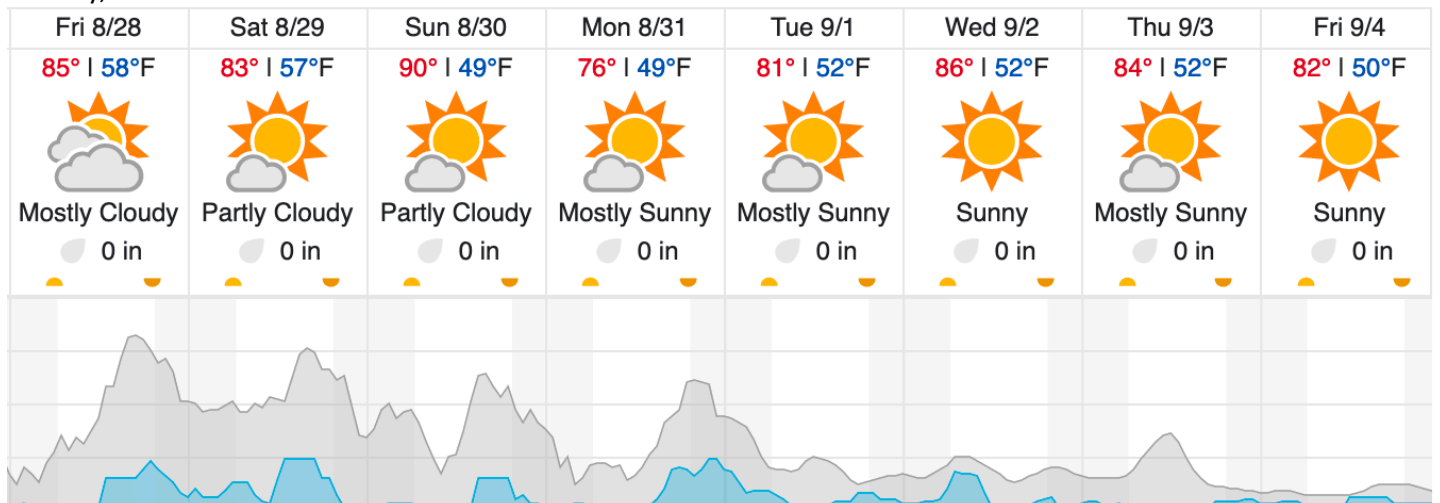
Red: 100% (2/2)

## Weather Forecast

Boulder, CO



Greeley, CO



Cloud Cover (%)	Chance of Precip. (%)
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## **Flight Collection Plan for 28 August 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: Riegl Boresight Calibration at Greeley

Flight Plan Name: D10\_B10E\_Boresight\_1600m\_Q780

On-station Time: 0900 – 1700 Local / 1500 – 2300 UTC

### **Flyority 6**

Collection Area: NIS Offset Flight

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

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

Friday 8/28 Crew: Ivana (Lidar), Mitch (NIS), Cam (Ground)

Saturday 8/29 Crew: Mitch (Lidar), Robb (NIS), Ivana (Ground)

Sunday 8/30 Crew: Robb (Lidar) Cam (NIS) Mitch (Ground)