



## Payload 3 Daily Flight Report



**Date:** 2023-08-31

**Flight Campaign ID:** P3C1

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

**Aircraft:** N934MU

**Domain:** 00 (Training & Calibration), 10 (Central Plains), 13 (Southern Rockies & Colorado Plateau)

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

**Days left in Domain:** 0

**Report Author:** Mitch

**Lidar Operators:** Mitch

**Spectrometer Operators:** Cameron

**Pilots:** Will, Justin

**Ground Crew:** Mike

**Flight Hours:** 01:33

**Hours until maintenance:** 65.67

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

### Summary

One last clear morning over the front range allowed the P3 crew to better up 5 previously collected lines at RMNP under green sky conditions. This concludes both D10/13 efforts and calibration flights for the season. The payload be removed from the aircraft tomorrow. Congratulations to all on a great flight season!

### Concerns

None

### Comments

- Hg Lamp collect was collected after the flight today.
- Conducted a tour with the D10/13 staff in the afternoon.
- Thanks to all that came out to the end of season AOP festivities this evening!

### Daily Coverage

Estimated Cloud Cover Key

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

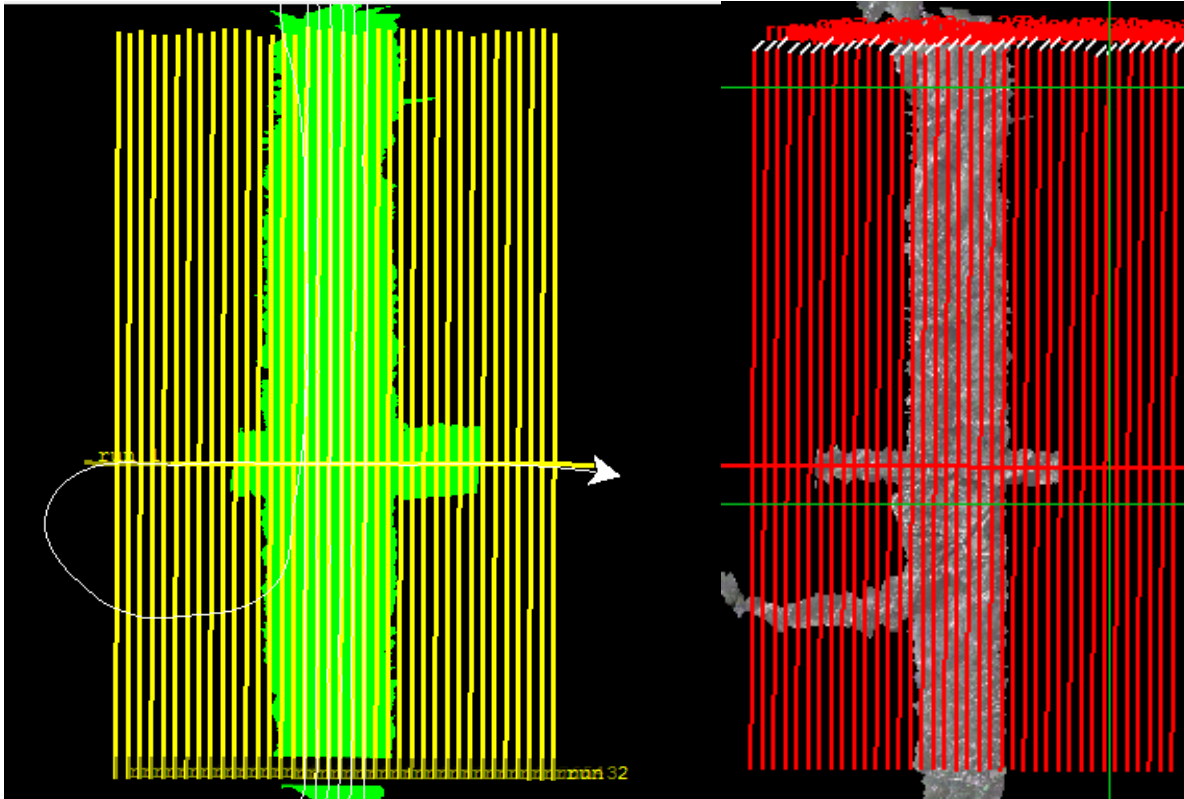
D10|RMNP

Line #	1	18	19	20	21	22	23
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

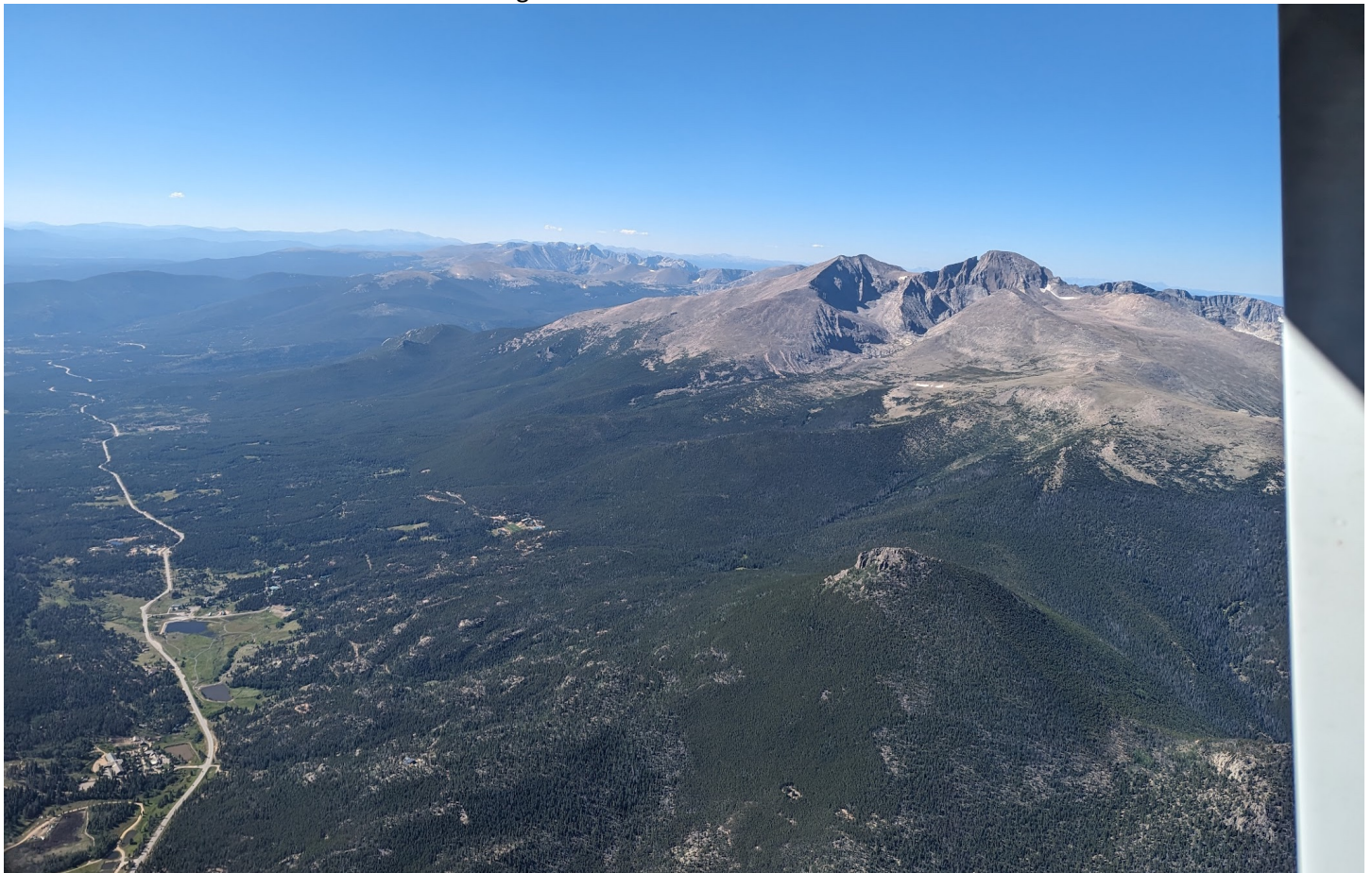
Total number of lines flown: 7

## Flight Screenshots

Lidar on the left, NIS on the right



**Pictures:** Clear skies above RMNP this morning.







**Above:** Group photo from the D10/13 Staff tour. **Below:** Nick introduces the AOP to the D10/13 staff.



## Final Cumulative Domain Coverage for D10/13 and Calibration Flights

### 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: 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|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	27	28												

Flown: 86% (24/28)

Green: 50% (14/28)

Yellow: 36% (10/28)

Red: 0% (0/28)

### D00|R10D (Boulder Airport Radiometric Calibration)

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)

### D10|ARIK (Arikaree River)

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							

Flown: 100% (33/33)

Green: 100% (33/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

### D10|RMNP (Rocky Mountain National Park)

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: 100% (38/38)

Green: 89% (34/38)

Yellow: 11% (4/38)

Red: 0% (0/38)

### D13|NIWO (Niwot Ridge Mountain Research Station)

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	40	41
42	43	44	45	46	47	48	49	50	51	52									

Flown: 100% (51/51)

Green: 100% (51/51)

Yellow: 0% (0/51)

Red: 0% (0/51)

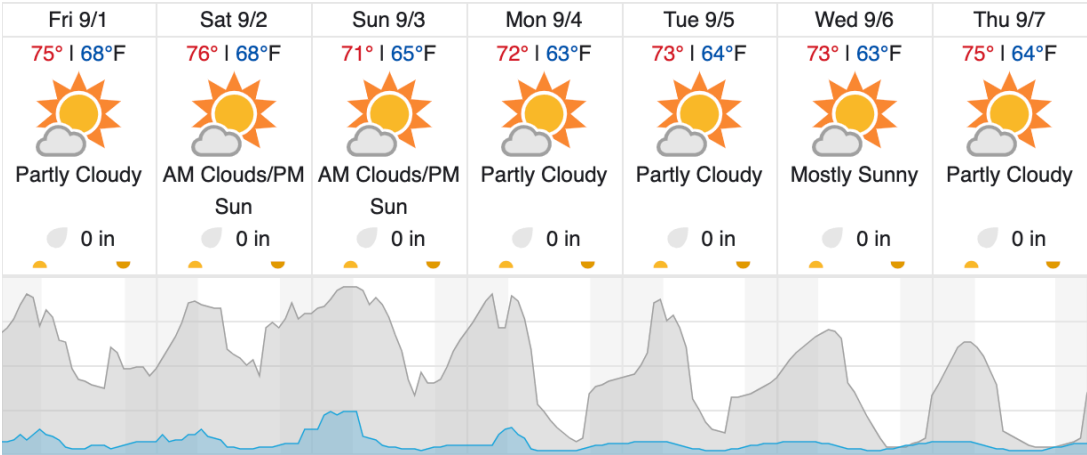
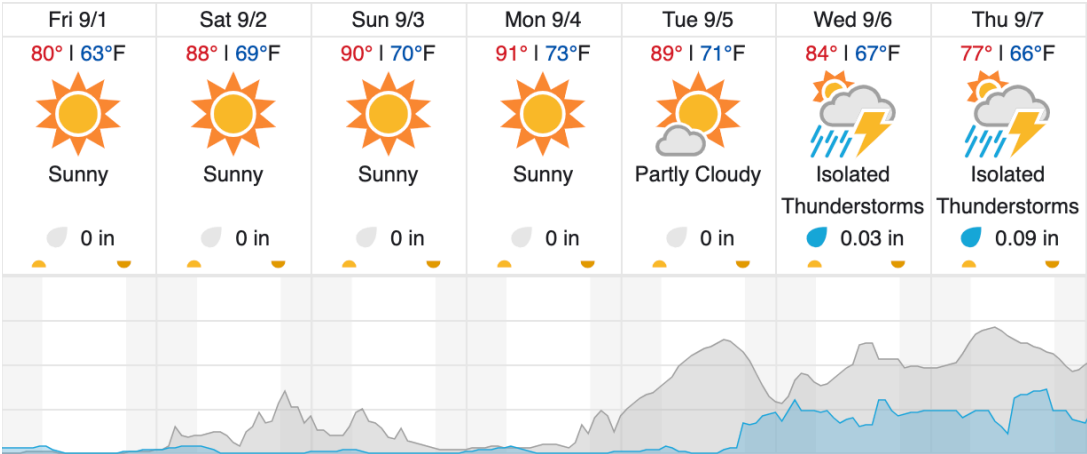
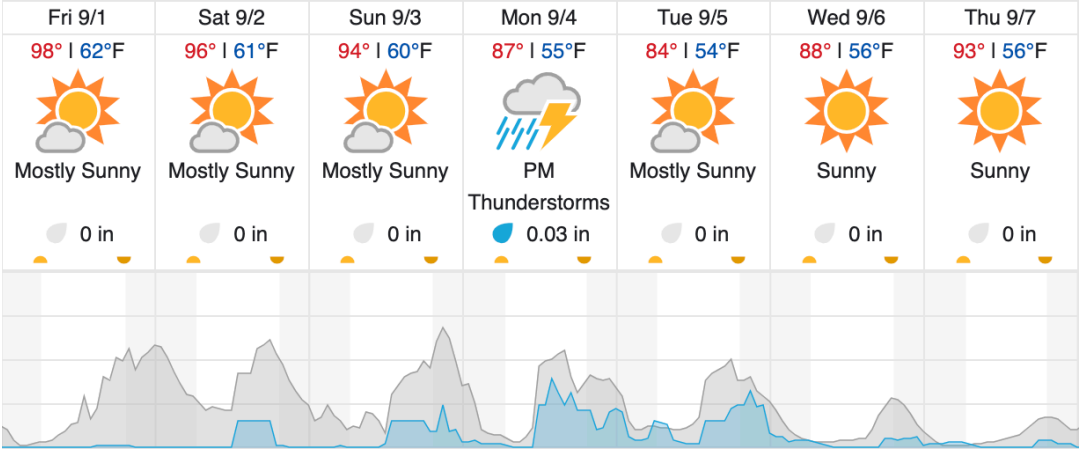
### D13|WLOU (West St. Louis Creek)

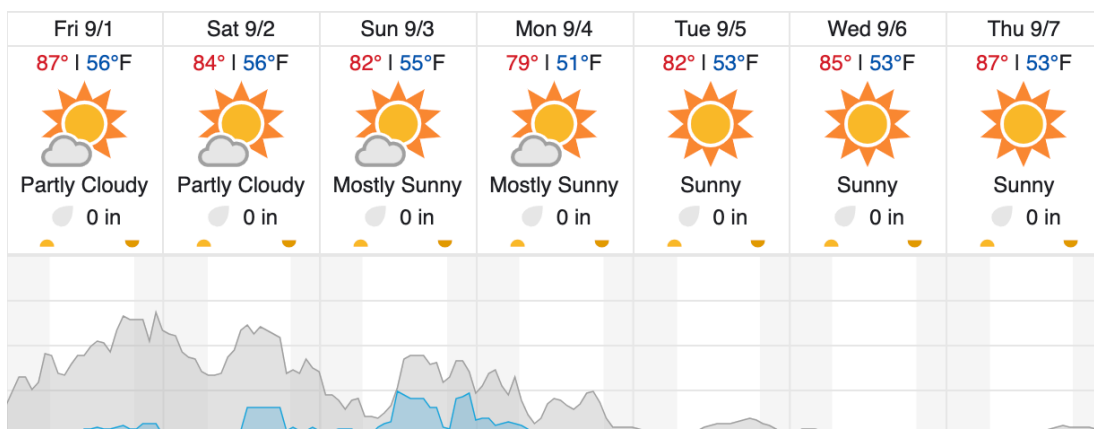
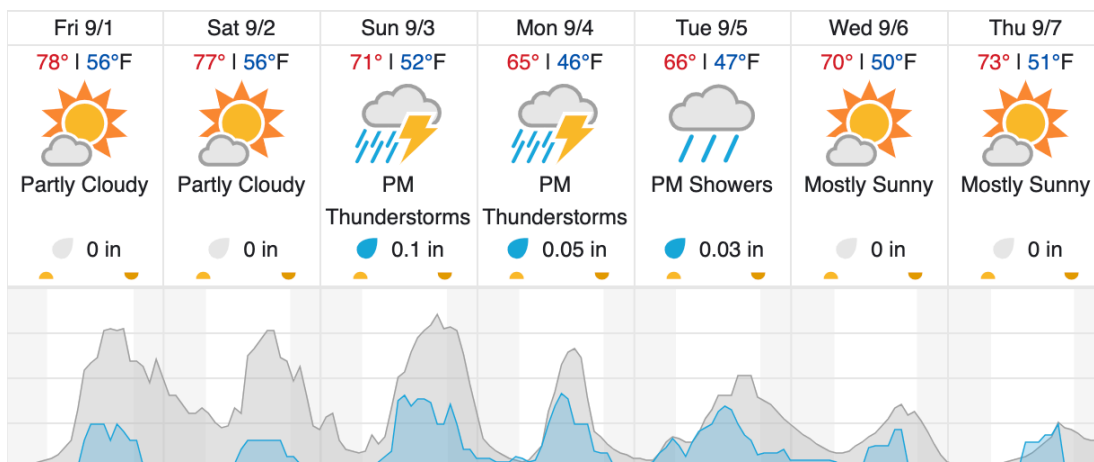


2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (13/13)  
 Green: 100% (13/13)  
 Yellow: 0% (0/13)  
 Red: 0% (0/13)

### ASO Home Weather Forecasts





	Cloud Cover (%)		Chance of Precip. (%)
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source: wunderground.com

## Flight Collection Plan for September 1<sup>st</sup>, 2023

### Flyority 1

Collection Area: AOP Hangar

Flight Plan Name: Deinstall both payloads

On-Station Time: 1500 UTC / 0900 L

**Crew:** Matt, Abe, Cam, Mitch