



## Payload 3 Daily Flight Report



**Date:** 2023-08-11

**Flight Campaign ID:** P3C1

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

**Aircraft:** N934MU

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

**Sites Flown:** RMNP (Rocky Mountain National Park), NIWO (Niwot Ridge Mountain Research Station)

**Days left in Domain:** 15

**Report Author:** Matt

**Lidar Operators:** Matt

**Flight Hours:** 02:24

**Spectrometer Operators:** Mitch

**Hours until maintenance:** 88.37

**Pilots:** Justin, Jon

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

**Ground Crew:** Nick

### Summary

Cloud conditions in the Niwot and Rocky Mountain flight boxes looked promising so the crew took to the skies and collected 12 lines and a crosstrip in green/yellow conditions at the RMNP site.

### Concerns

None

### Comments

None

### Daily Coverage

Estimated Cloud Cover Key

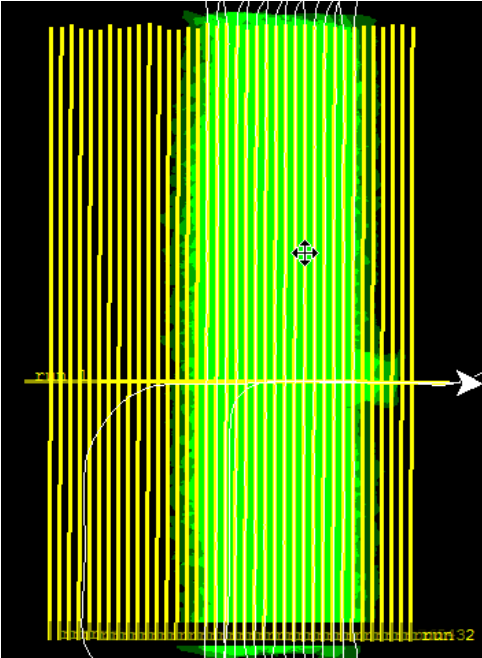
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D10|RMNP

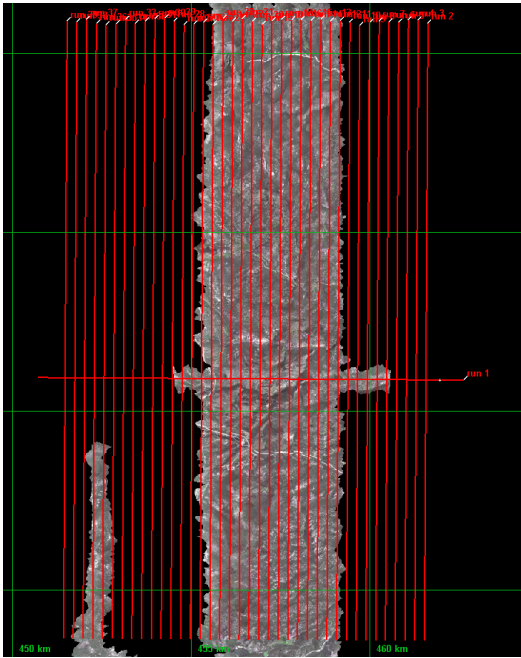
Line #	12	13	14	15	16	17	18	19	20	21	22	23
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover												

Total number of lines flown: 12

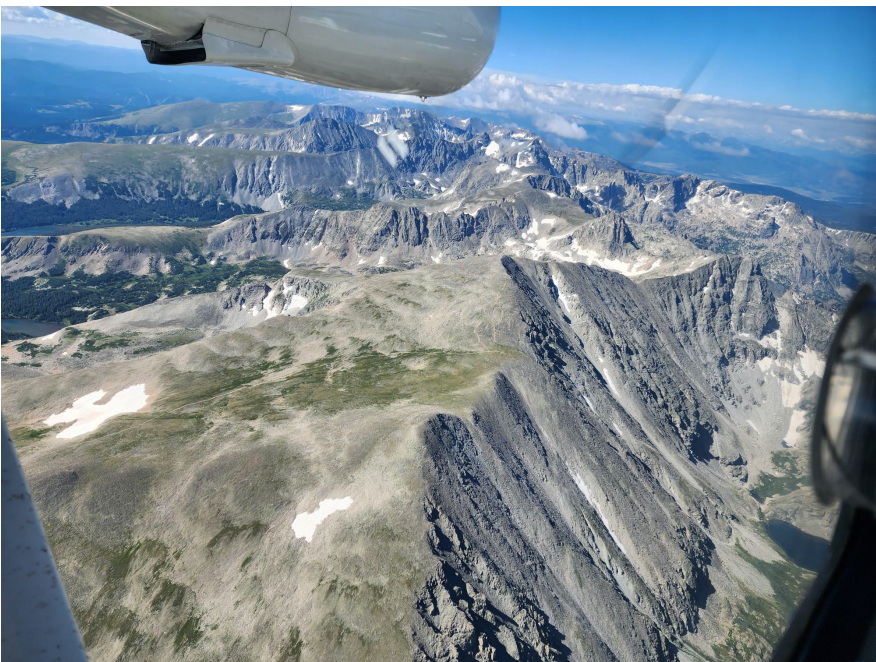
Flight Screenshots



LIDAR – RMNP  
Pictures



NIS- RMNP



Indian Peaks



NEON RMNP tower site

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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	29	30	31	32	33	34	35					

Flown: 0% (0/35)  
Green: 0% (0/35)  
Yellow: 0% (0/35)  
Red: 0% (0/35)

D10|RMNP (Rocky Mountain National Park)

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	29	30	31	32	33	34	35	36	37	38	39	

Flown: 59% (23/39)  
Green: 36% (14/39)  
Yellow: 21% (8/39)  
Red: 3% (1/39)

D13|NIWO (Niwot Ridge Mountain Research Station)

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	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: 4% (2/52)  
Green: 0% (0/52)  
Yellow: 4% (2/52)  
Red: 0% (0/52)

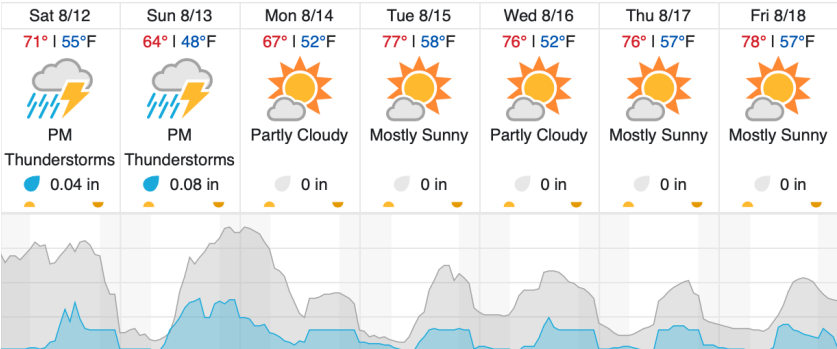
D13|WLOU (West St. Louis Creek)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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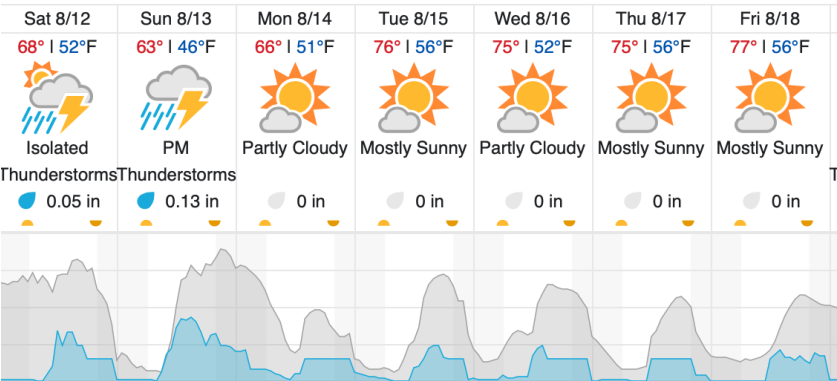
Flown: 0% (0/14)  
Green: 0% (0/14)  
Yellow: 0% (0/14)  
Red: 0% (0/14)

Weather Forecast

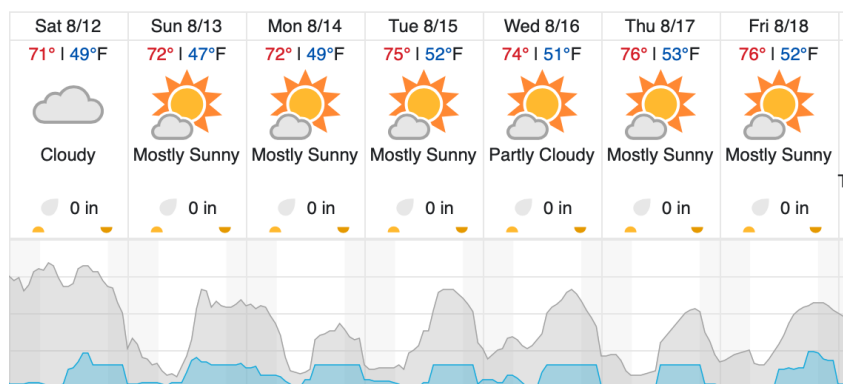
Nederland, CO (NIWO)



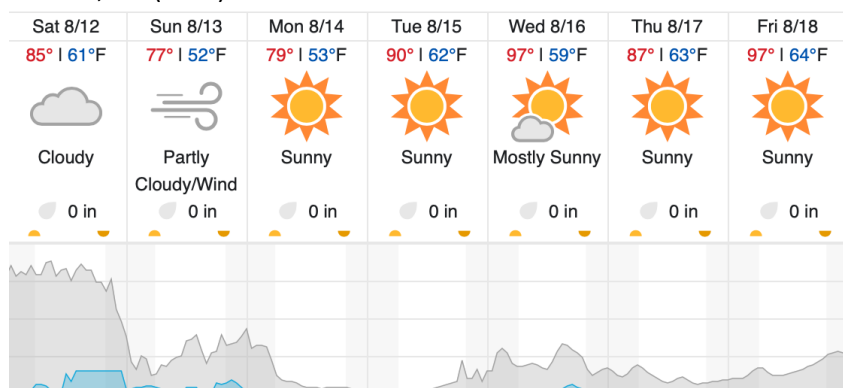
Allenspark, CO (RMNP)



## Fraser, CO (WLOU)



## Vernon, CO (ARIK)



source: wunderground.com

## Flight Collection Plan for 12<sup>th</sup> August 2023

### Flyority 1

Collection Area: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13\_NIWO\_C1\_P1\_v5\_Q780

On-Station Time: 15:50 UTC / 09:50 L

### Flyority 2

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10\_RMNP\_R2\_P1\_v2\_Q780

On-Station Time: 15:50 UTC / 09:50 L

### Flyority 3

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13\_WLOU\_A1\_P1\_Q780

On-Station Time: 15:50 UTC / 09:50 L

### Flyority 4

Collection Area: Arikaree River (ARIK)

Flight Plan Name: D10\_ARIK\_A1\_P2\_v3\_Q780

On-Station Time: 15:40 UTC / 09:40 L

**Crew:** Nick (Lidar), Matt (NIS), Mitch (Ground)

