



Payload 3 Daily Flight Report



**Date:** 2024-08-06  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO  
**Aircraft:** N821AR

**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:** 20

**Report Author:** Matt  
**Lidar Operators:** Matt      **Flight Hours:** 03:34  
**Spectrometer Operators:**    **Hours until maintenance:** 98.27  
**Pilots:** Vince, Manning  
**Ground Crew:** Elissa

**Summary**  
The crew completed a functional check flight early this morning then proceeded to the NIWO and RMNP sites to collect Lidar and camera data. 25 lines were collected in total.

**Concerns**  
Slight fuel smell still present during flight. We'll continue to monitor.

**Comments**  
None

**Daily Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #
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D13|NIWO

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	34	35	36	37
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer																	
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																	

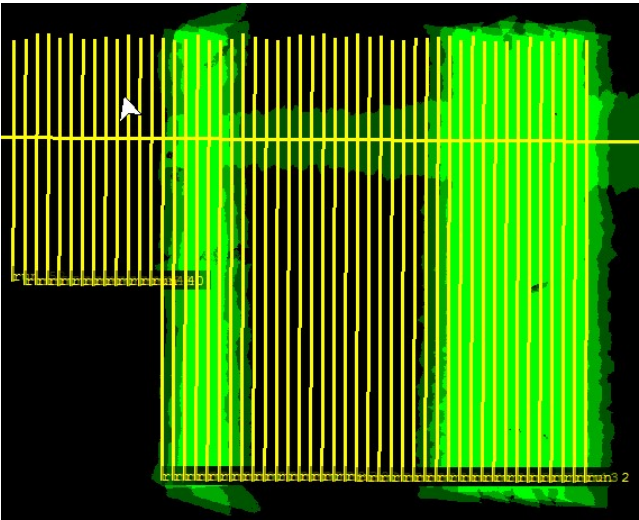
Total number of lines flown: 17

D00|RMNP

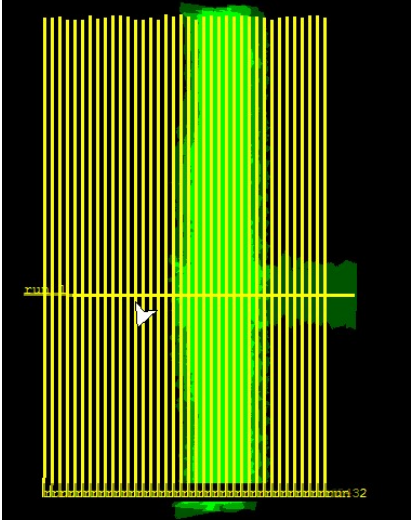
Line #	12	13	14	15	16	17	18	19
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer								
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

Total number of lines flown: 8

Flight Screenshots



NIWO



RMNP

Cumulative Domain Coverage

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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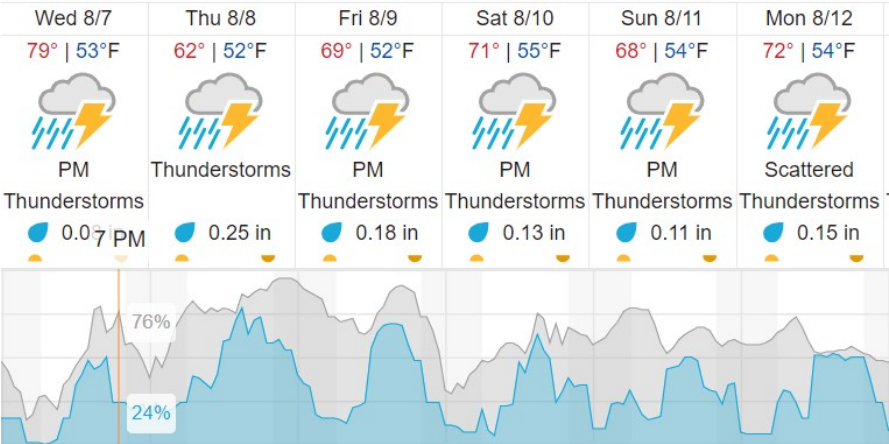
Flown: 92% (12/13)

Green: 92% (12/13)

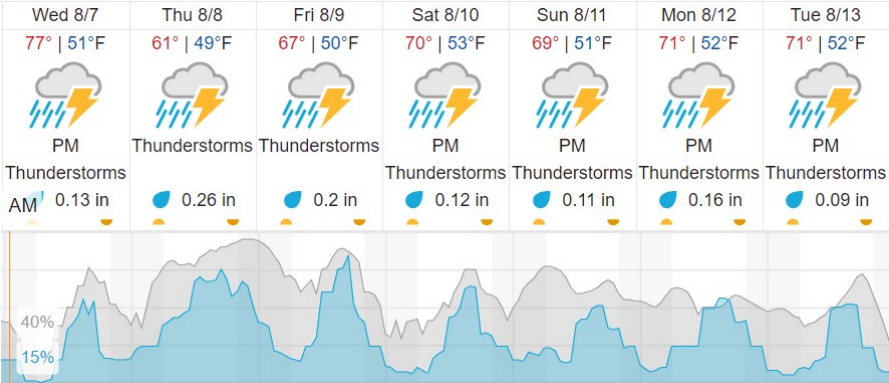
Yellow: 0% (0/13)

Red: 0% (0/13)

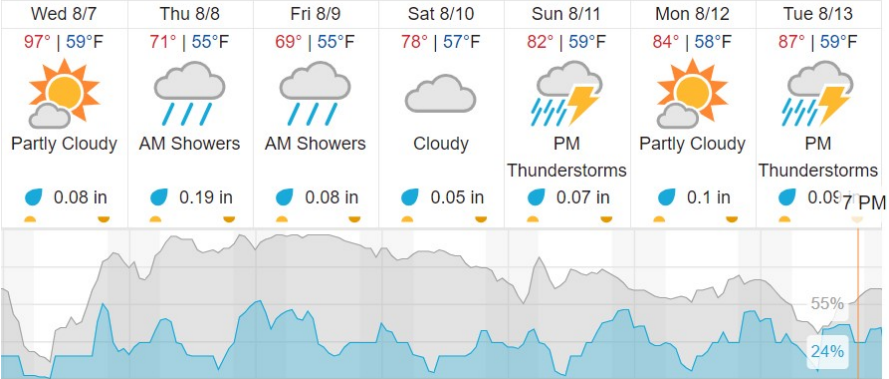
Weather Forecast  
Nederland, CO (NIWO)



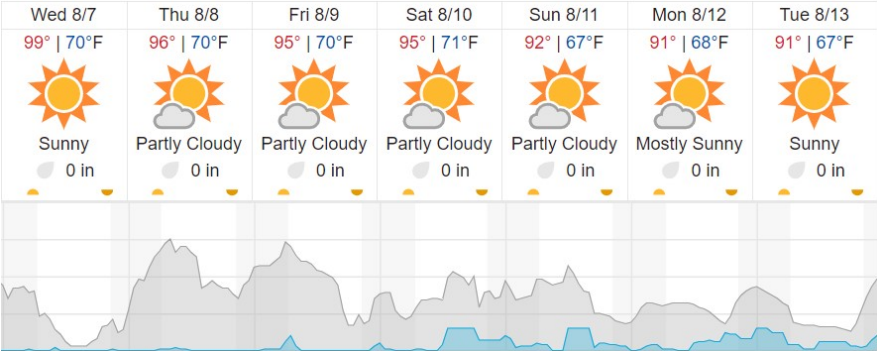
Allenspark, CO (RMNP)



Joes CO (ARIK)



Ogden UT (CTWD)



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

## Flight Collection Plan for 7 August 2024

### Flyority 1

Collection Area: Niwot Ridge Mountain Research Station

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

On-station Time: 1540 UTC / 0940 L

### Flyority 2

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10\_RMNP\_R2\_P1\_v4\_Q780

On-station Time: 1540 UTC / 0940 L

### Flyority 3

Collection Area: Arikaree River (ARIK) – Priority 1 & 2 Flight Box

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

On-station Time: 1520 UTC / 0920 L

### Flyority 4

Collection Area: Northern Utah Priority 1 Flight Plan

Flight Plan Name: D15\_CTWD\_S1\_P1\_v1

On-station Time: 1520 UTC / 0920 L

### Flyority 5

Collection Area: Northern Utah Priority 2 Flight Plan

Flight Plan Name: D15\_CTWD\_S1\_P2\_v1

On-station Time: 1520 UTC / 0920 L

Crew: Elissa (Lidar), Nick (NIS), Matt (Ground)