



Payload 3 Daily Flight Report



Date: 2025-08-21

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 10 (Central Plains)

Sites Flown: RMNP (Rocky Mountain National Park)

Days left in Domain: 7

Report Author: Matt

Lidar Operators: Matt

Spectrometer Operators: Alyssa

Pilots: Jeff, Troy

Flight Hours: 01:20

Hours until maintenance: 78.25

GPS Instruments: AOP_KBDU, AOP_NIWO

Summary

With clear skies forecasted for the morning go, the crew got airborne and arrived on station for the 40-degree solar angle. 7 lines were flown in a mix of green and yellow sky conditions. This completes initial coverage for the RMNP site. The crew will continue to monitor cloud conditions for an opportunity to green up.

Concerns

None.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

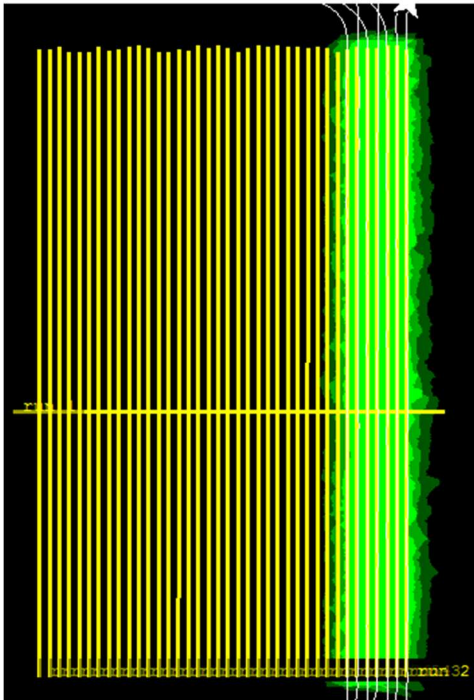
Solar Angle Less Than 40 degrees: (*)

D10|RMNP

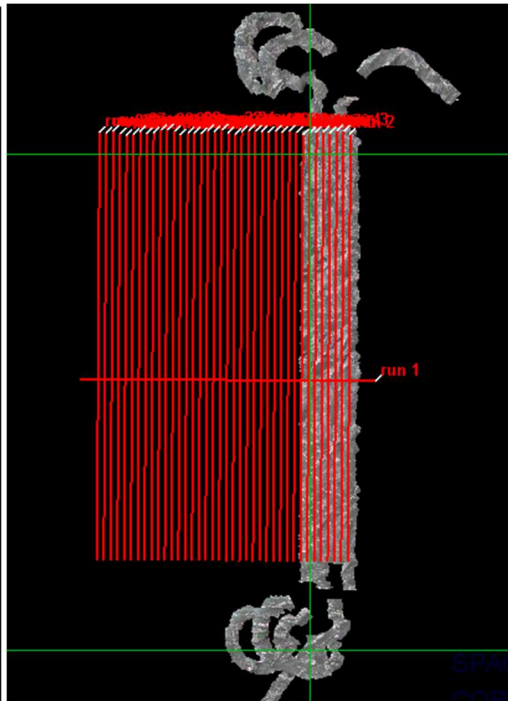
Line #	2	3	4	5	6	7	8
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

Total number of lines flown: 7

Flight Screenshots



Lidar



NIS

Pictures



South End of RMNP

Cumulative Domain Coverage

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: 0% (0/33)
Green: 0% (0/33)
Yellow: 0% (0/33)
Red: 0% (0/33)
* Flown within 35deg solar angle

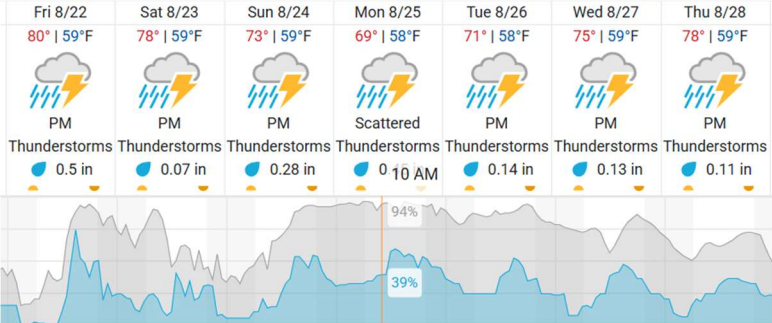
D10|RMNP (Rocky Mountain National Park)

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*	40	

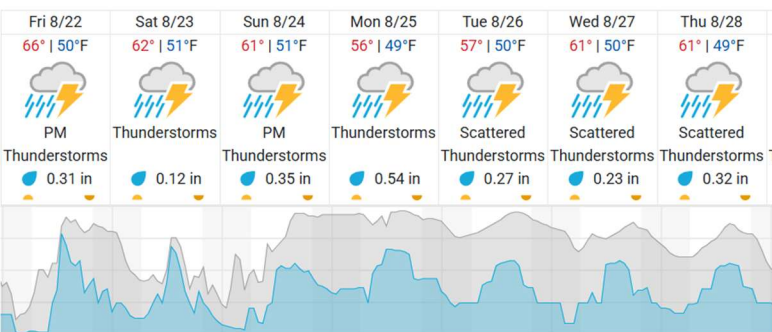
Flown: 97% (38/39)
Green: 23% (9/39)
Yellow: 74% (29/39)
Red: 0% (0/39)
* Flown within 35deg solar angle

Weather Forecast

Boulder, CO



Allanspark, CO



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

Flight Collection Plan for 22 August 2025

Flyority 1 – GREEN UP Priority airshed lines 31-38
Collection Area: Rocky Mountain National Park (RMNP)
Flight Plan Name: D10_RMNP_R2_P1_v5_Q780
On-Station Time: 1550 UTC / 0950 L

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

