Payload 3 Daily Flight Report

Date: 2025-08-13
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: 14

Report Author: Matt
Lidar Operators: Matt
Spectrometer Operators: Mitch
Pilots: Jeff, Troy
Adt'l Flight Crew: Alyssa

Flight Hours: 02:28
Hours until maintenance: 83.32
GPS Instruments: AOP_KBDU, AOP_NIWO

Summary

The crew got an early start and arrived on station at the Rocky Mountain National Park for the 35-degree solar window. 15 lines were collected in yellow conditions primarily due to low lying smoke and haze.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

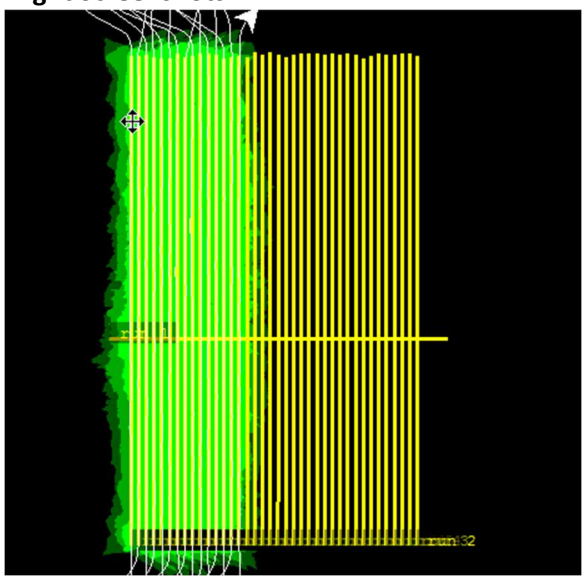
Solar Angle Less Than 40 degrees: (*)

D10|RMNP

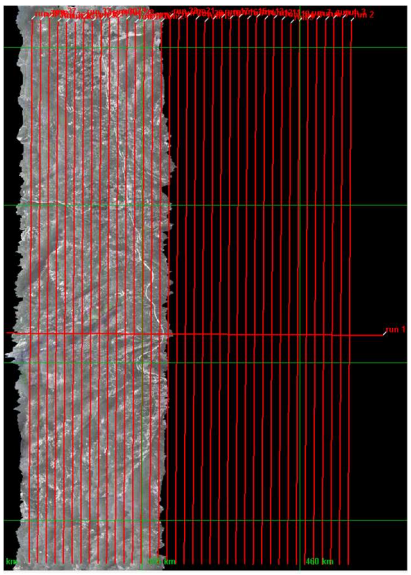
Line #	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover															

Total number of lines flown: 15

Flight Screenshots



Lidar



NIS

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

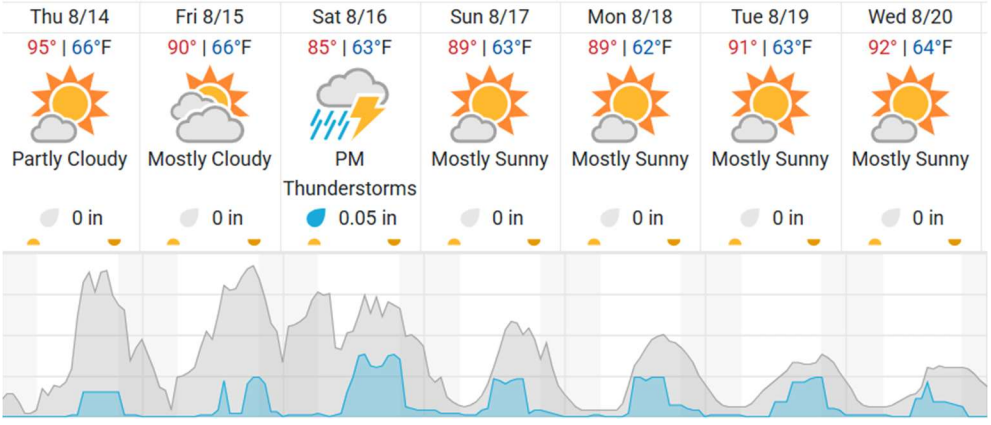
D10|RMNP (Rocky Mountain National Park)

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	

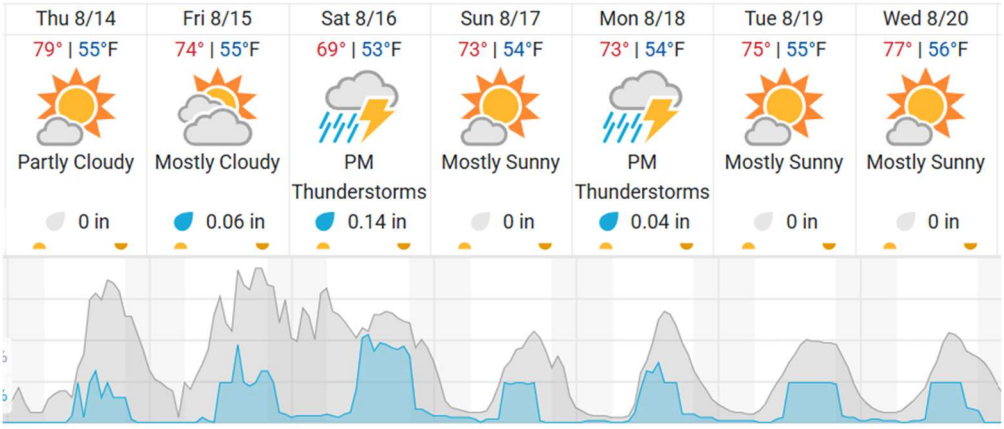
Flown: 38% (15/39)
Green: 0% (0/39)
Yellow: 38% (15/39)
Red: 0% (0/39)
* Flown within 35deg solar angle

Weather Forecast

Boulder, CO



Allanspark, CO



source: wunderground.com

Flight Collection Plan for 14 August 2025

Flyority 1
Collection Area: Rocky Mountain National Park (RMNP)
Flight Plan Name: D10_RMNP_R2_P1_v5_Q780
On-Station Time 40 degree: 1550 UTC / 0950 L

Crew: Mitch (Lidar), Matt (NIS), Alyssa (Ground/Lidar Observing)