



Payload 1 Daily Flight Report



Date: 2026-08-01

Flight Campaign ID: P1C1

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

Aircraft: N537AR

Domain: 10 (Central Plains)

Sites Flown: RMNP (Rocky Mountain National Park)

Days left in Domain: 15

Report Author: Matt

Lidar Operators: Matt

Spectrometer Operators: Mike

Pilots: Tim, Rusty

Flight Hours: 03:00

Hours until maintenance: 38.73

GPS Instruments: AOP_KBDU, AOP_NIWO

Summary

A cloud free morning allowed the crew to get airborne and complete 17 lines. Yellow conditions were present due to lingering smoke from the Pacific Northwest and Canadian wildfires.

Concerns

None

Comments

Rusty rotates out. Thanks for the work!

Daily Coverage

Estimated Cloud Cover Key

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

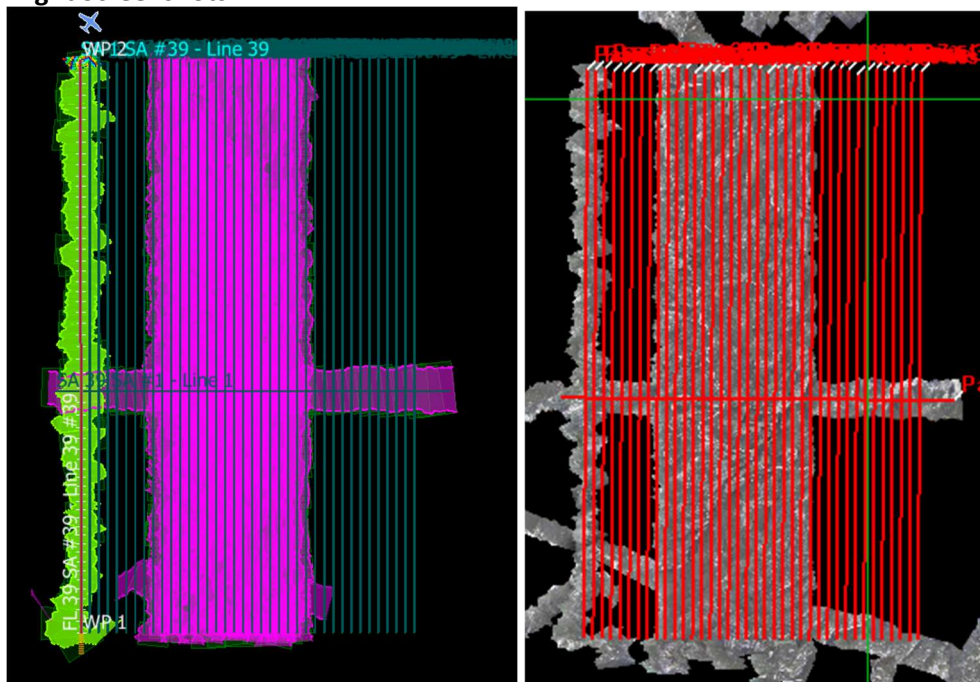
Solar Angle Less Than 40 degrees: (*)

D10|RMNP

Line #	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	39
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																	

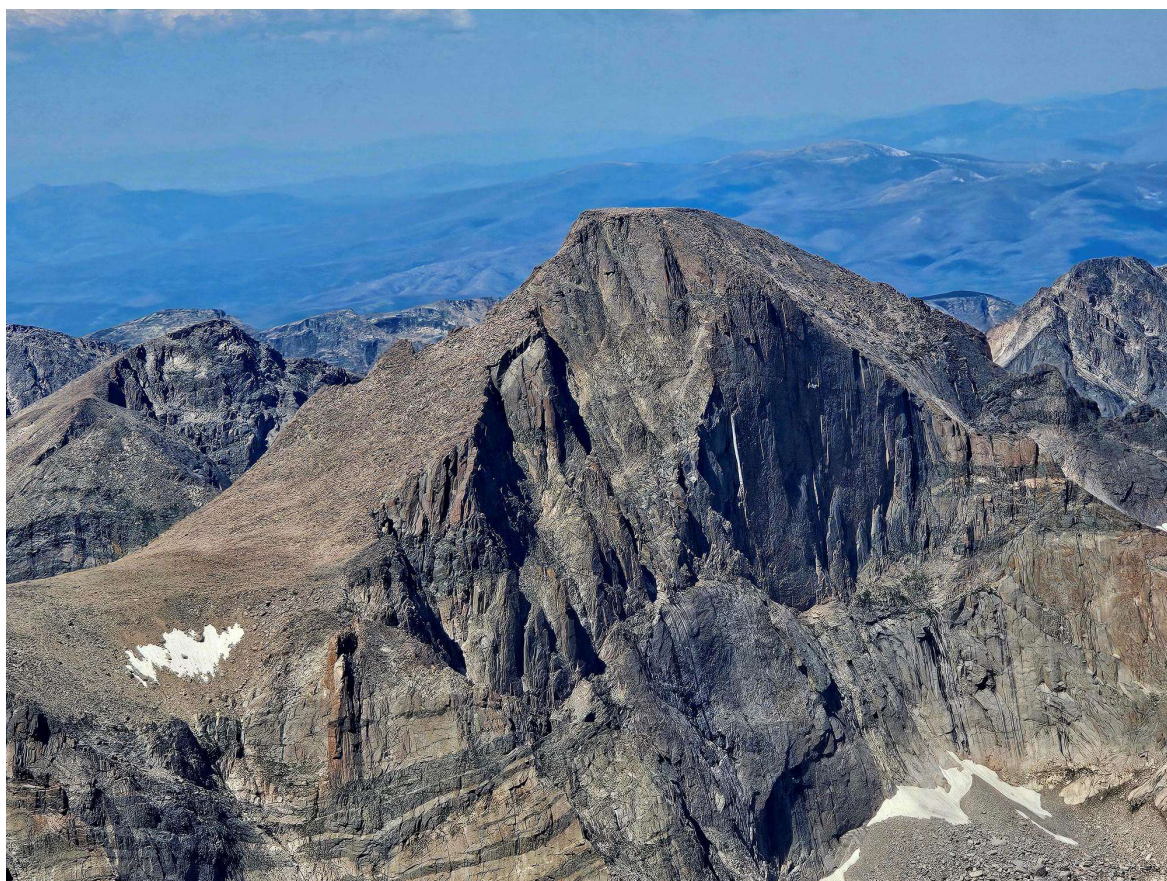
Total number of lines flown: 17

Flight Screenshots



Pictures

Longs Peak



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: 36% (12/33)

Green: 36% (12/33)

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: 77% (30/39)

Green: 0% (0/39)

Yellow: 64% (25/39)

Red: 13% (5/39)

* Flown within 35deg solar angle

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: 27% (14/51)

Green: 27% (14/51)

Yellow: 0% (0/51)

Red: 0% (0/51)

* Flown within 35deg solar angle

D13|WLOU (West St. Louis Creek)

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

Green: 0% (0/13)

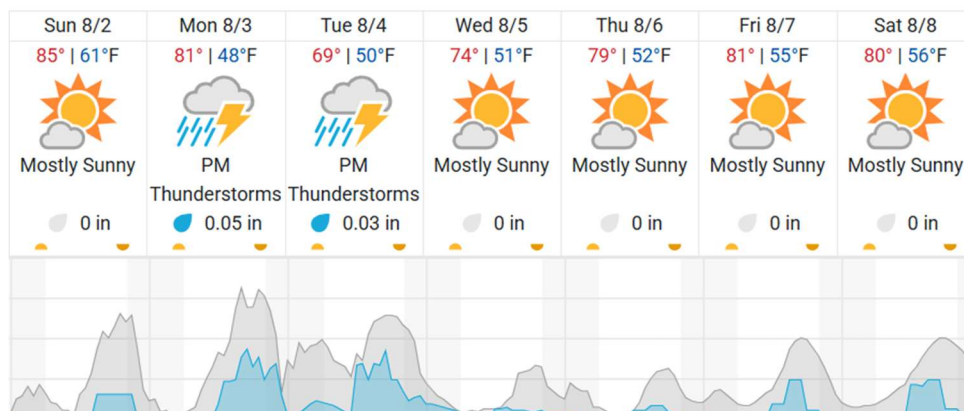
Yellow: 0% (0/13)

Red: 0% (0/13)

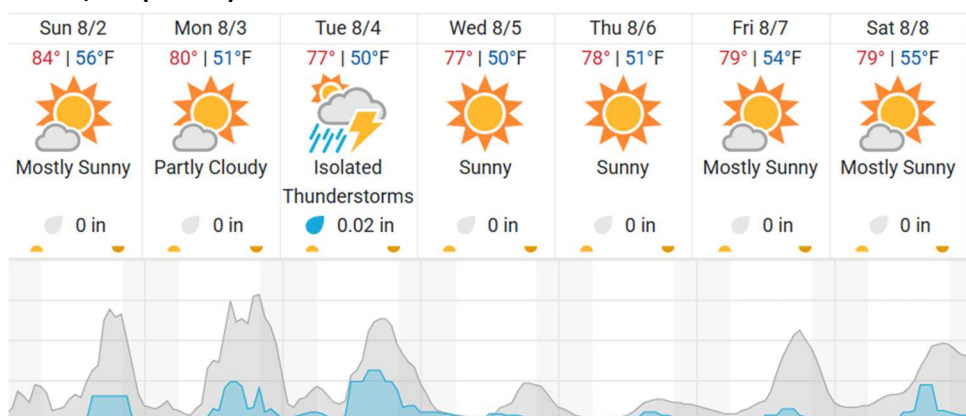
* Flown within 35deg solar angle

Weather Forecast

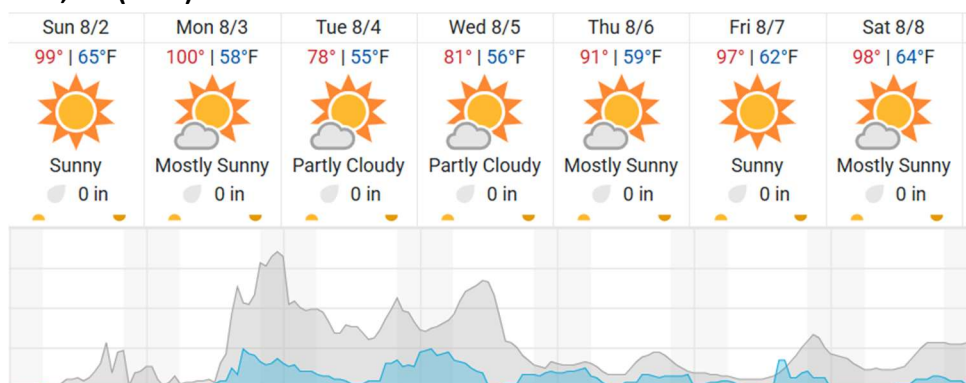
Allenspark, CO (NIWO/RMNP)



Fraser, CO (WLOU)



Joes, CO (ARIK)



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

Flight Collection Plan for August 2nd 2026

Flyority 1

Site: Niwot Ridge Mountain Research Station (NIWO)
 Flight Plan Name: D13_NIWO_C1_P1_v7_PRM.xml
 Solar Angle Time: 09:40L/15:40UTC

Flyority 2

Site: Rocky Mountain National Park (RMNP)
 Flight Plan Name: D10_RMNP_R2_P2_v6_PRM.xml
 Solar Angle Time: 09:40L/15:40UTC

Flyority 3

Site: West St. Louis Creek (WLOU)
 Flight Plan Name: D13_WLOU_A1_P1_v4_PRM.xml
 Solar Angle Time: 09:40L/15:40UTC

Flyority 4

Site: Arikaree River (ARIK) – Priority 1 Flight Box
 Flight Plan Name: D10_ARIK_A1_P1_P2_v5_PRM.xml
 Solar Angle Time: 09:30L/15:30UTC

Flyority 5

Site: Arikaree River (ARIK) – Priority 2 Flight Box

Flight Plan Name: D10_ARIK_A1_P1_P2_v5_PRM.xml

Solar Angle Time: 09:30L/15:30UTC

Crew: Mike (Lidar), Matt (NIS), None (Ground)