



Payload 3 Daily Flight Report



Date: 2024-08-02

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), 15 (Great Basin)

Sites Flown: RMNP (Rocky Mountain National Park), WLOU (West St. Louis Creek)

Days left in Domain: 25

Report Author: Matt

Lidar Operators: Matt

Spectrometer Operators: Nick

Pilots: Vince, Manning

Flight Hours: 00:00

Hours until maintenance: 104.08

GPS Instruments: N/A

Summary

Cloudy conditions over the remaining D10 and D13 sites kept the crew grounded. Lidar data from previous NIWO and RMNP flights will be reflight in priority order.

NIWO – 2-14, 18-37

RMNP – 12-19, 31-39

Concerns

The fuel seals on both gas caps have been replaced. We'll continue to monitor for fuel spray during flight.

NIWOT site GPS and tower cameras were offline this morning but are operational at this time.

Comments

Elissa joins the crew for flight activities.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

Pictures

None

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)

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: 97% (38/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

D10|STER (Sterling Agricultural Site)

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															

Flown: 100% (25/25)

Green: 100% (25/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

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)

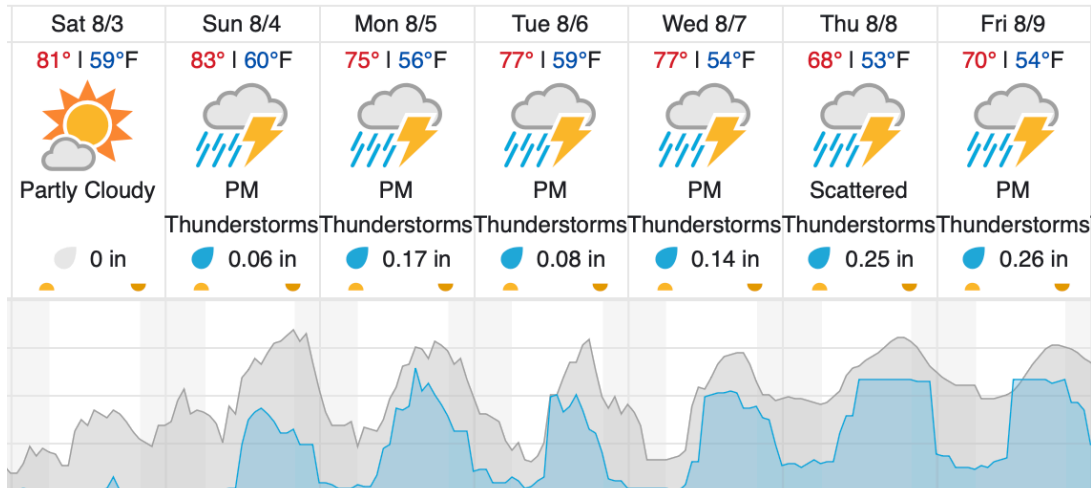
Green: 92% (12/13)

Yellow: 0% (0/13)

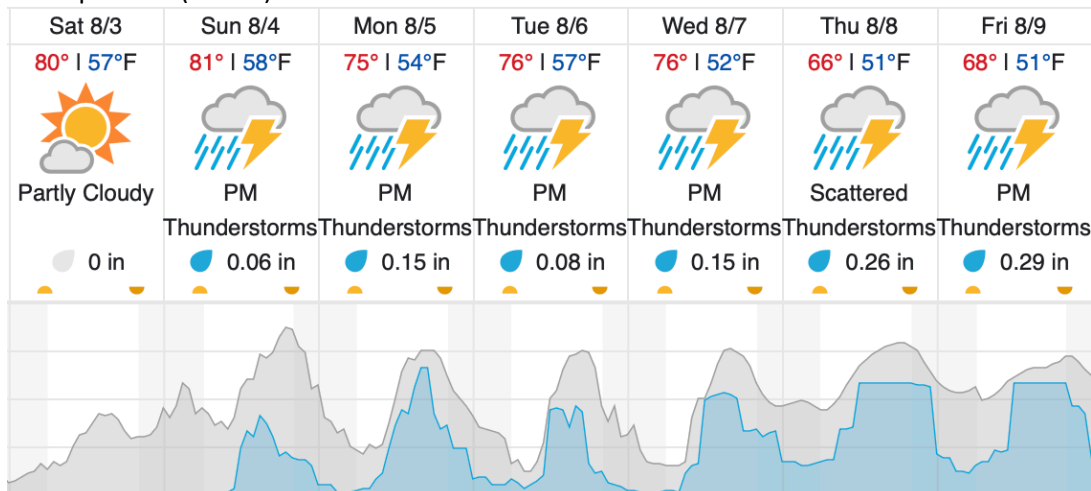
Red: 0% (0/13)

Weather Forecast

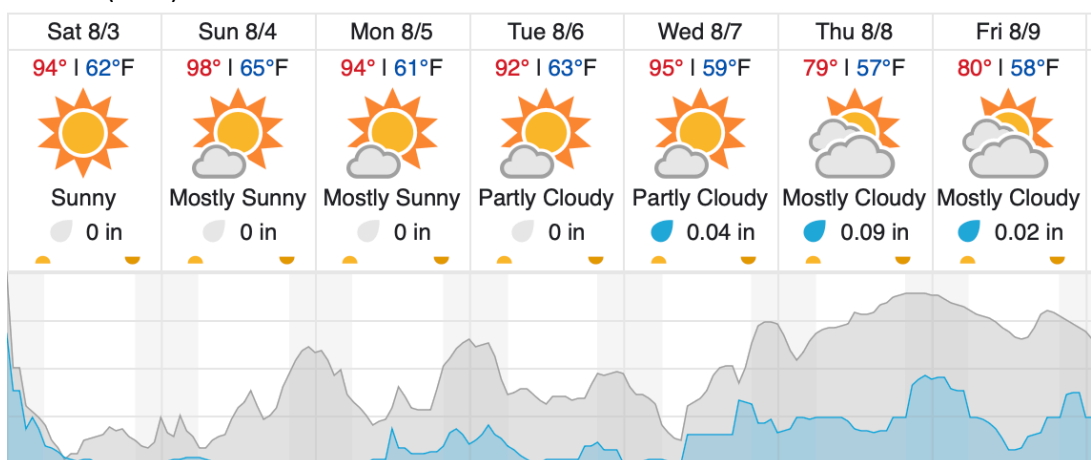
Nederland CO (NIWO)



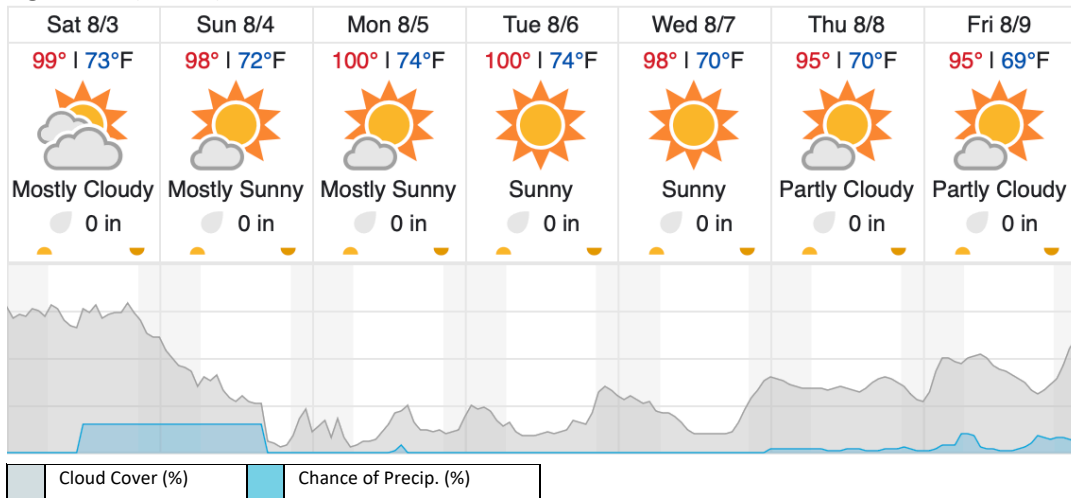
Allenspark CO (RMNP)



Joes CO (ARIK)



Ogden UT (CTWD)



source: wunderground.com

Flight Collection Plan for August 3rd 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 4

Collection Area: Northern Utah Priority 2 Flight Plan

Flight Plan Name: D15_CTWD_S1_P2_v1

On-station Time: 1520 UTC / 0920 L

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