

# Payload 3 Daily Flight Report



Date: 2024-07-22 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: None Days left in Domain: 36

Report Author: MattFlight Hours: 00:00Lidar Operators: MattFlight Hours: 00:00Spectrometer Operators: NickHours until maintenance: 121.33Pilots: Justin, ManningGround Crew: Cameron

### Summary

Hazy skies and morning cloud development across the Rockies and eastern plains. No flights were conducted.

#### Concerns

- None

#### Comments

- None

#### **Daily Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

**Flight Screenshots: None** 

**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)

			· ·		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	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	

Flown: 0% (0/39) Green: 0% (0/39)

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 5 5 5 5 5 5 5 16 17 18 19 20

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: 0% (0/51) Green: 0% (0/51) Yellow: 0% (0/51) Red: 0% (0/51)

#### D13|WLOU (West St. Louis Creek)

2	-		-	~	-	0	•	4.0		4.0	4.0	
2	3	4	5	6	/	8	9	10	11	12	13	14
Flow	n: (	)% ((	)/13)									
Gree		)% (0										

Yellow: 0% (0/13) Red: 0% (0/13)

D15|CTWD\_P1()

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22																		
Flown	: 0%	(0/2	2)																
Green	: 0%	(0/2	2)																
Yellow	<i>ı</i> : 0%	(0/2	2)																
Red:	0% (0,	/22)																	

D15 | CTWD\_P2 ()

 23
 24
 25
 26
 27
 28
 29

 Flown:
 0% (0/7)

 Green:
 0% (0/7)

 Yellow:
 0% (0/7)

 Red:
 0% (0/7)

#### D15 CTWD\_P3 () 30 31 32 33 34 35 36 37 38 39 40 41 42 Flown: 0% (0/13) Green: 0% (0/13) Yellow: 0% (0/13) Red: 0% (0/13)

## Weather Forecast

## Allenspark, CO (RMNP)

Tue 7/23 73° I 53°F	Wed 7/24 75° I 53°F	Thu 7/25 79° I 56°F	Fri 7/26 73° I 53°F	Sat 7/27 73° I 52°F	Sun 7/28 74° I 52°F	Mon 7/29 77° I 54°F
Mostly Sunny	Partly Cloudy	Mostly Sunny	Scattered Thunderstorms	Thunderstorms	PM Thunderstorms	Mostly Sunny
0 in	0 in	0 in	🥑 0.15 in	🥑 0.13 in	<b>0</b> .04 in	0 in

## Nederland, CO (NIWO)

Tue 7/23 74° I 54°F	Wed 7/24 77° I 56°F	Thu 7/25 81° I 59°F	Fri 7/26 75° I 56°F	Sat 7/27 74° I 55°F	Sun 7/28 77° I 55°F	Mon 7/29 79° I 57°F
Mostly Sunny	Isolated Thunderstorms 0.01 in	Mostly Sunny	🥑 0.15 in	PM Thunderstorms 0.13 in	<b>0.04</b> in	Mostly Sunny

Fraser, CO (WLOU)

Tue 7/23	Wed 7/24	Thu 7/25	Fri 7/26	Sat 7/27	Sun 7/28	Mon 7/29
<mark>76°</mark> I 49°F	77°   51°F	<mark>81°</mark> I 53°F	73°   50°F	73°   49°F	76°   50°F	77°   51°F
Mostly Sunny	Isolated	Mostly Sunny	PM	PM	Isolated	Mostly Sunny
j	Thunderstorms	, , , , , ,		Thunderstorms		,
🛛 0 in	🥑 0.01 in	0 in	🥑 0.14 in	🥑 0.08 in	🥑 0.02 in	🖉 0 in

## Joes, CO (ARIK)

Tue 7/23	Wed 7/24	Thu 7/25	Fri 7/26	Sat 7/27	Sun 7/28	Mon 7/29
89°   59°F	94°   62°F	95°   63°F	95°   65°F	95°   64°F	95°   64°F	96°   65°F
Sunny 0 in	Sunny 0 in	Sunny 0 in	Mostly Sunny 0 in	Mostly Sunny	Mostly Sunny 0 in	Mostly Sunny
		• • •		0 in		0 in
				7		
						~ /
		5	$\sim$			

# Ogden, UT (CTWD)

Tue 7/23	Wed 7/24	Thu 7/25	Fri 7/26	Sat 7/27	Sun 7/28	Mon 7/29
100°   73°F	102°   74°F	95°   71°F	<mark>94°   66°</mark> F	<mark>91°   67</mark> °F	<mark>95°   67°</mark> F	96°   68°F
*	*			*	*	*
Mostly Sunny	Mostly Sunny	AM Clouds/PM	Mostly Sunny	Sunny	Sunny	Sunny
		Sun				
0 in	🖉 0 in	0 in	0 in	0 in	0 in	0 in
h						

Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

#### Flight Collection Plan for July 23, 2024

Flyority 1 Collection Area: Niwot Ridge Mountain Research Station Flight Plan Name: D13\_NIWO\_C1\_P1\_v5\_Q780 On-station Time: 1530 UTC / 0930 L

Flyority 2 Collection Area: Rocky Mountain National Park (RMNP) Flight Plan Name: D10\_RMNP\_R2\_P1\_v4\_Q780 On-station Time: 1530 UTC / 0930 L

Flyority 3 Collection Area: West St. Louis Creek (WLOU) Flight Plan Name: D13\_WLOU\_A1\_P1\_v2\_Q780 On-station Time: 1540 UTC / 0940 L

Flyority 4 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 5 Collection Area: Northern Utah Priority 2 Flight Plan Flight Plan Name: D15\_CTWD\_S1\_P1\_v1 On-station Time: 1520 UTC / 0920 L

Flyority 6 Collection Area: Northern Utah Priority 2 Flight Plan Flight Plan Name: D15\_CTWD\_S1\_P2\_v1 On-station Time: 1520 UTC / 0920 L

Flyority 7 Collection Area: Northern Utah Priority 2 Flight Plan Flight Plan Name: D15\_CTWD\_S1\_P3\_v1 On-station Time: 1520 UTC / 0920 L

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