

#### Payload 3 Daily Flight Report



Date: 2024-07-28

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 13 (Southern Rockies & Colorado Plateau), 10 (Central Plains), 15 (Great Basin)

Sites Flown: NIWO (Niwot Ridge Mountain Research Station)

Days left in Domain: 30

Report Author: Nick

**Lidar Operators**: Nick Flight Hours: 00:43

Spectrometer Operators: Cameron Hours until maintenance: 118.08

Pilots: Vince, Manning GPS Instruments: AOP\_KBDU, AOP\_NIWO

**Ground Crew**: Matt

#### Summary

The crew took to the skies today only to be met with building clouds over the Front Range. Two lines were collected at NIWO before clouds built up to less than green sky conditions.

#### **Concerns**

The NIS3 chiller has been identified as the cause of increased chiller temperatures and is to be replaced at next available down day. A spare chiller is connected when the payload is secured for the day.

#### **Comments**

Cam rotates out today. Thanks for all the great work!

#### **Daily Coverage**

### **Estimated Cloud Cover Key**

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

#### Solar Angle Less Than 40 degrees

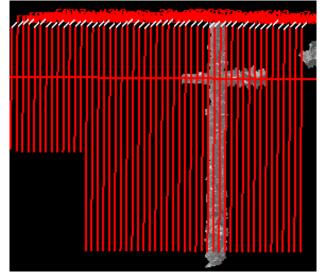
Line#

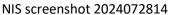
### D13|NIWO

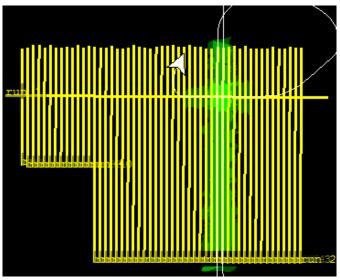
Line #	16	17
Lidar	✓	<b>✓</b>
Spectrometer	✓	<b>√</b>
Camera	✓	<b>√</b>
Cloud Cover		

Total number of lines flown: 2

## **Flight Screenshots**







Lidar screenshot 2024072814

#### **Pictures**

None.

### **Cumulative Domain Coverage**

D13 | NIWO (Niwot Ridge Mountain Research Station)

		<u> </u>						<del></del>		,									
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: 8% (4/51) Green: 4% (2/51) Yellow: 0% (0/51) Red: 4% (2/51)

#### D10 RMNP (Rocky Mountain National Park)

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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)

-	<u> </u>	J I L I I	1000	ib	, ,6, ,0	aica	ıı aı ,	اعادد	<u> </u>											
	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 | WLOU (West St. Louis Creek)

			•					,				
2	3	4	5	6	7	8	9	10	11	12	13	14

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

### 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)

#### D15 | CTWD P1 (RSS)

-	-		٠,	,															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22																		

Flown: 0% (0/22) Green: 0% (0/22) Yellow: 0% (0/22) Red: 0% (0/22)

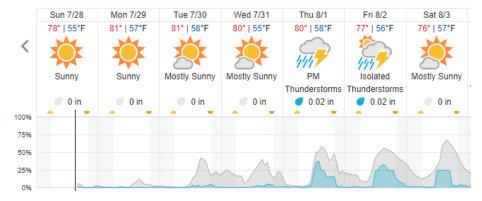
# D15 | CTWD\_P2 (RSS)

23 24 25 2	6 27 28 29
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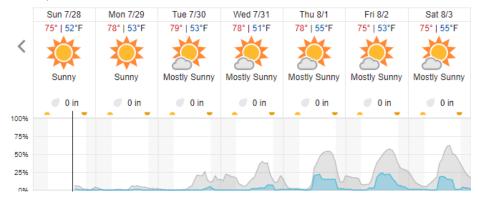
Flown: 0% (0/7) Green: 0% (0/7) Yellow: 0% (0/7) Red: 0% (0/7)

## **Weather Forecast**

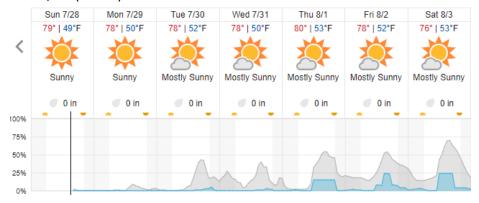
### Nederland, CO (NIWO)



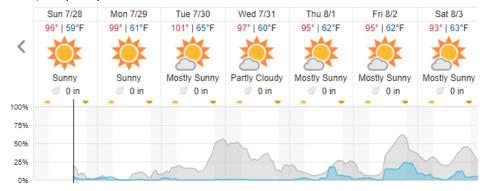
### Allenspark, CO (RMNP)



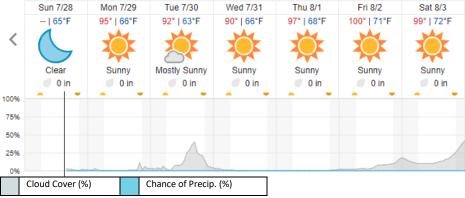
### Fraser, CO (WLOU)



# Joes, CO (ARIK)



### Ogden, UT (CTWD)



source: wunderground.com

## Flight Collection Plan for July 29, 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 1 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

Crew: Matt (Lidar), Nick (NIS)