



## 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:** Matt

**Lidar Operators:** Matt

**Flight Hours:** 00:00

**Spectrometer Operators:** Nick **Hours until maintenance:** 121.33

**Pilots:** Justin, Manning

**Ground 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

|        |
|--------|
| Line # |
|--------|

**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)

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 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 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |

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 | 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)

### 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% (0/22)

Green: 0% (0/22)

Yellow: 0% (0/22)

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)

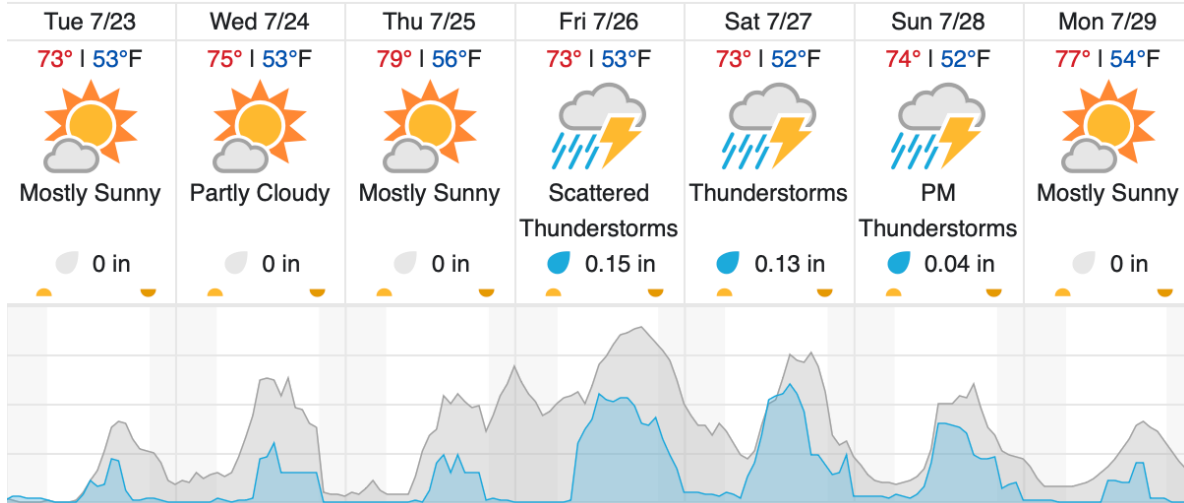
D15|CTWD\_P3 ()

|    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|

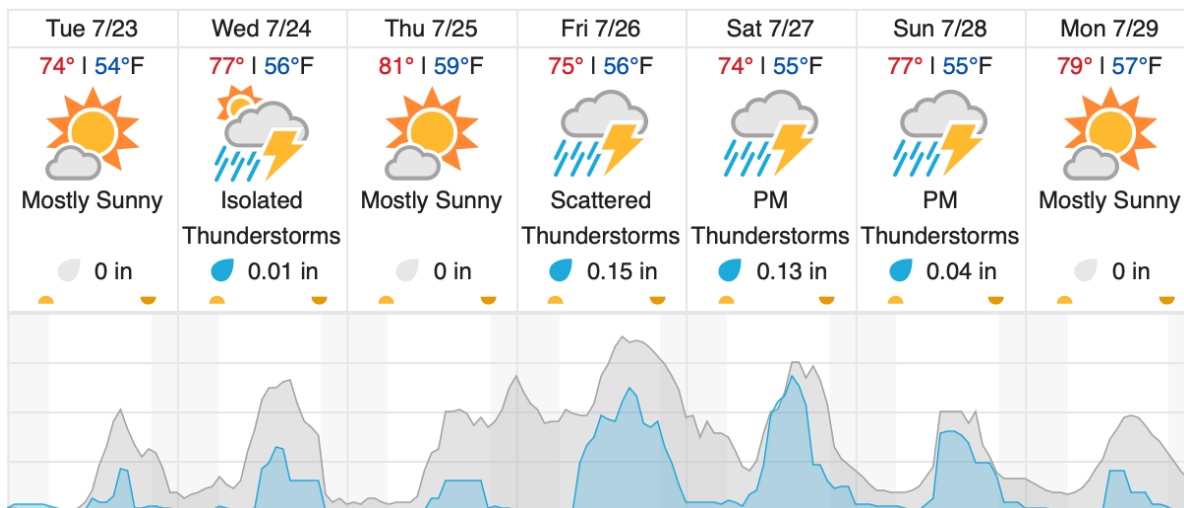
Flown: 0% (0/13)  
 Green: 0% (0/13)  
 Yellow: 0% (0/13)  
 Red: 0% (0/13)

### Weather Forecast

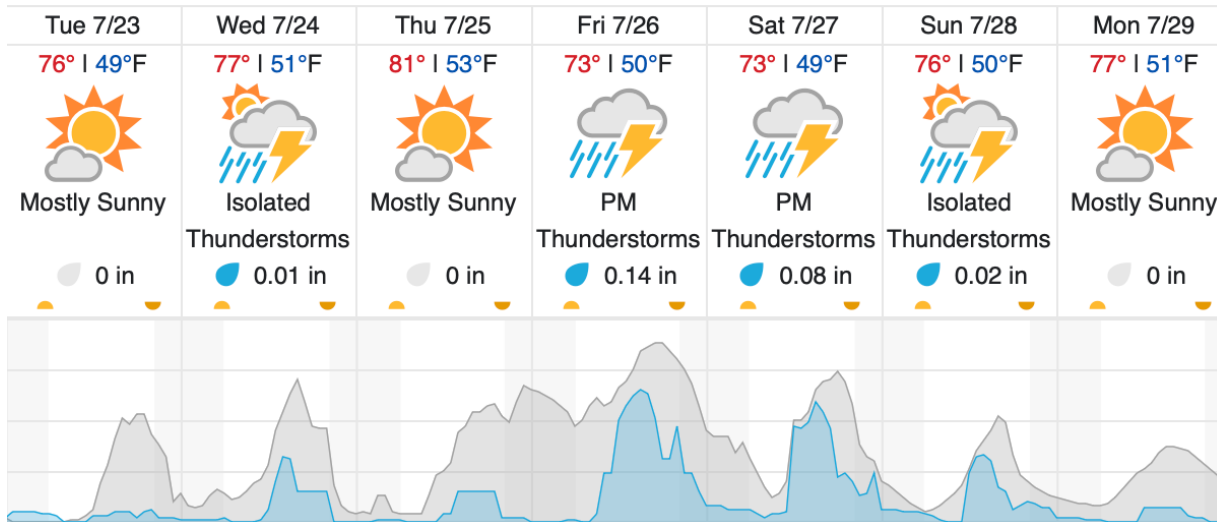
#### Allenspark, CO (RMNP)



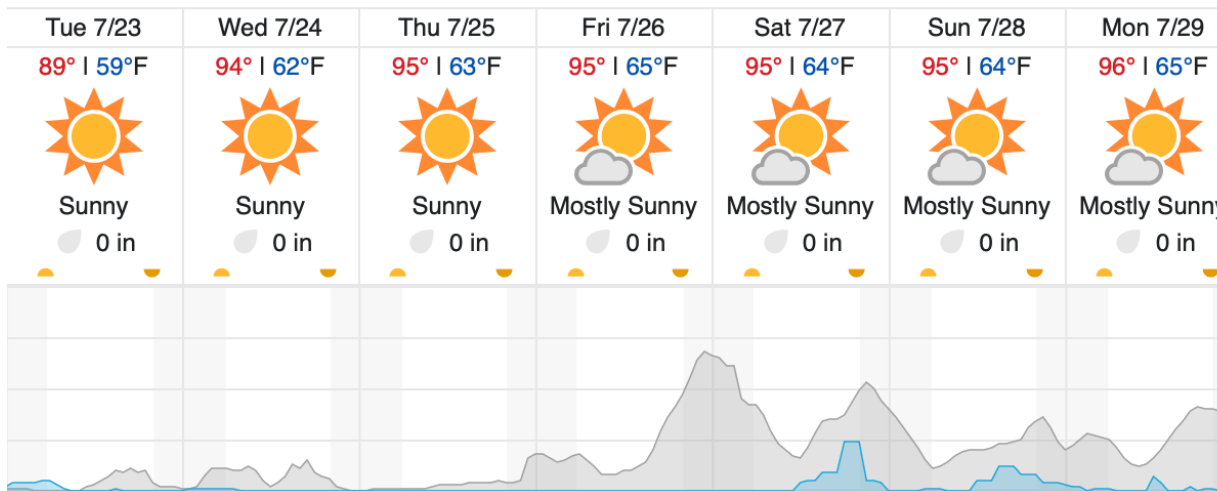
#### Nederland, CO (NIWO)



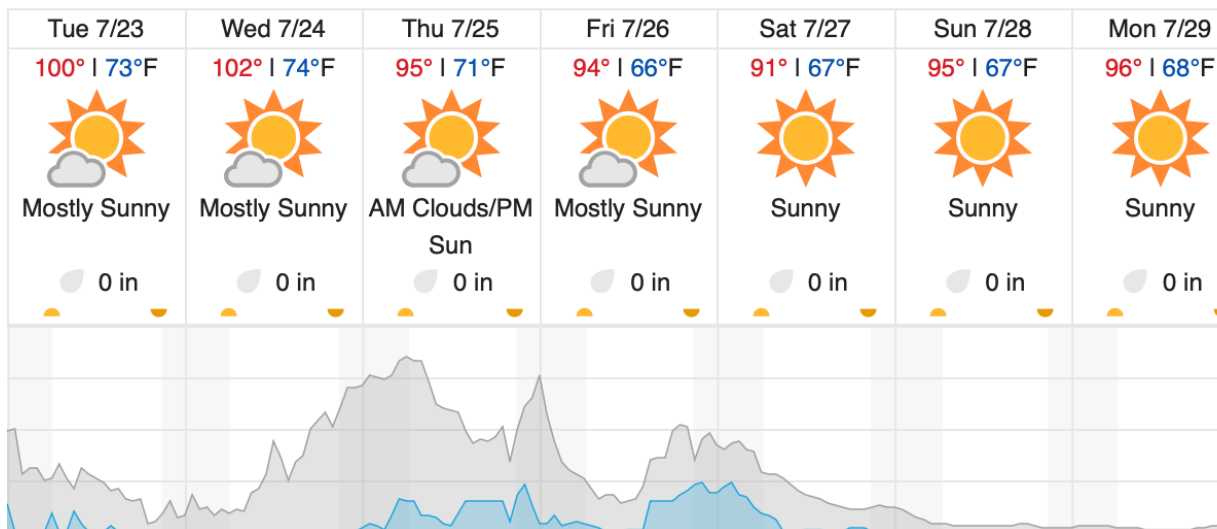
Fraser, CO (WLOU)



Joes, CO (ARIK)



Ogden, UT (CTWD)



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

## **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)