



Payload 1 Daily Flight Report



**Date:** 2026-07-22

**Flight Campaign ID:** P1C1

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

**Aircraft:** N537AR

**Domain:** 10 (Central Plains), 13 (Southern Rockies & Colorado Plateau)

**Sites Flown:** None

**Days left in Domain:** 25

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Flight Hours:** 00:00

**Spectrometer Operators:** Mike **Hours until maintenance:** 47.08

**Pilots:** Manning, Rusty

**Ground Crew:** Matt

**Summary**

Scattered clouds this morning gave way to afternoon thunderstorms. No flights were attempted.

**Concerns**

None.

**Comments**

None.

**Cumulative Domain Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

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)

\* 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: 0% (0/39)

Green: 0% (0/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

\* Flown within 35deg solar angle

#### D10|RMNP\_P2 (Rocky Mountain National Park Priority 2)

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| 60 | 61 | 62 | 63 | 64 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Flown: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

\* Flown within 35deg solar angle

#### 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: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

\* 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 |
|---|---|---|---|---|---|---|---|----|----|----|----|----|

Flown: 0% (0/13)

Green: 0% (0/13)

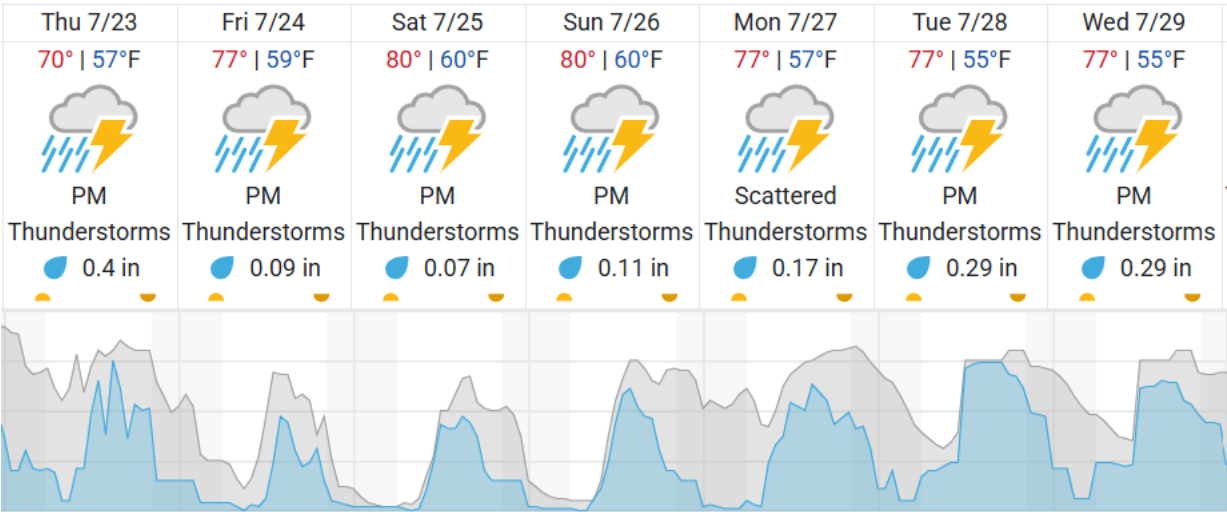
Yellow: 0% (0/13)

Red: 0% (0/13)

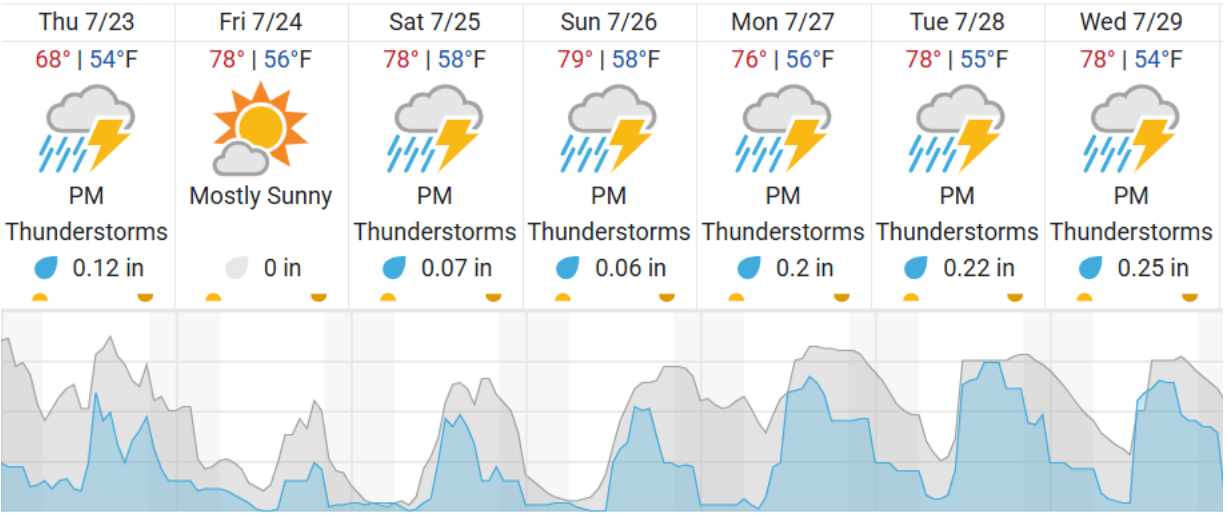
\* Flown within 35deg solar angle

Weather Forecast

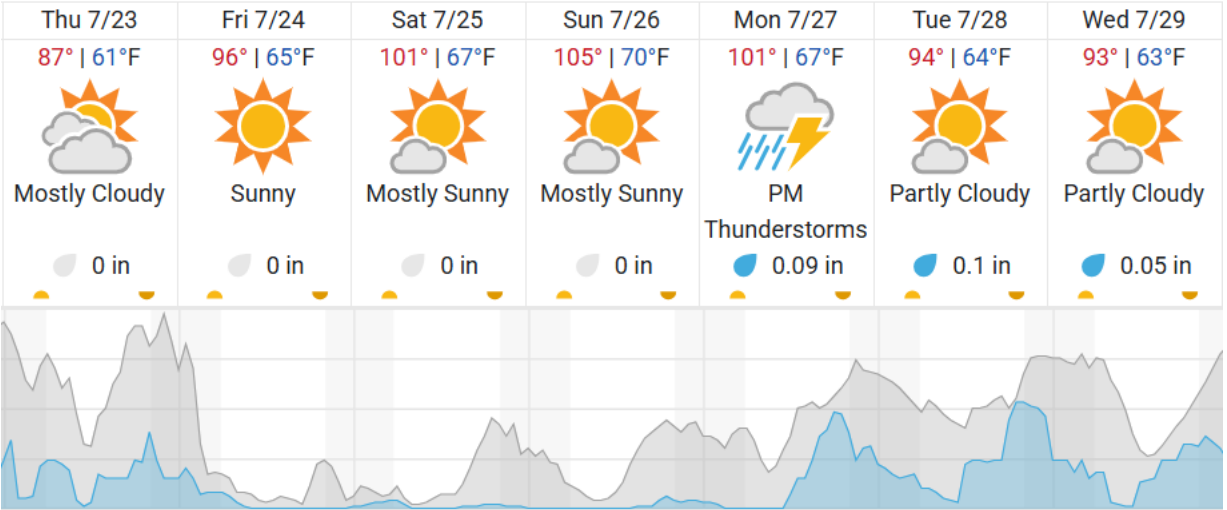
Allenspark, CO (RMNP/NIWO)



Fraser, CO (WLOU)



Joes, CO (ARIK)



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

## **Flight Collection Plan for July 23, 2026**

### **Flyority 1**

Site: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13\_NIWO\_C1\_P1\_v7\_PRM.xml

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

### **Flyority 2**

Site: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10\_RMNP\_R2\_P2\_v6\_PRM.xml

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

### **Flyority 3**

Site: West St. Louis Creek (WLOU)

Flight Plan Name: D13\_WLOU\_A1\_P1\_v4\_PRM.xml

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

### **Flyority 4**

Site: Arikaree River (ARIK) – Priority 1 Flight Box

Flight Plan Name: D10\_ARIK\_A1\_P1\_P2\_v5\_PRM.xml

Solar Angle Time: 09:20L/15:20UTC

### **Flyority 5**

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

Flight Plan Name: D10\_ARIK\_A1\_P1\_P2\_v5\_PRM.xml

Solar Angle Time: 09:20L/15:20UTC

**Crew:** Mike (Lidar), Matt (NIS), Elissa (Ground)