



## Payload 1 Daily Flight Report

**Date:** 2026-08-04

**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:** 12

**Report Author:** Mitch

**Lidar Operators:** Mitch

**Flight Hours:** 00:00

**Spectrometer Operators:** Matt **Hours until maintenance:** 38.73

**Pilots:** Tim, Jonathan

### Summary

Low clouds over our mountain sites with a higher stratus layer over the front range this morning; clouds cleared some as the day progressed, but haze/smoke level remained strong enough to discourage any flights from occurring.

### Concerns

None

### Comments

Sterling Agricultural Site (STER) peak greenness deemed acceptable and has been added to the flight order priority list.

### 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: 36% (12/33)

Green: 36% (12/33)

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: 77% (30/39)

Green: 0% (0/39)

Yellow: 64% (25/39)

Red: 13% (5/39)

\* 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

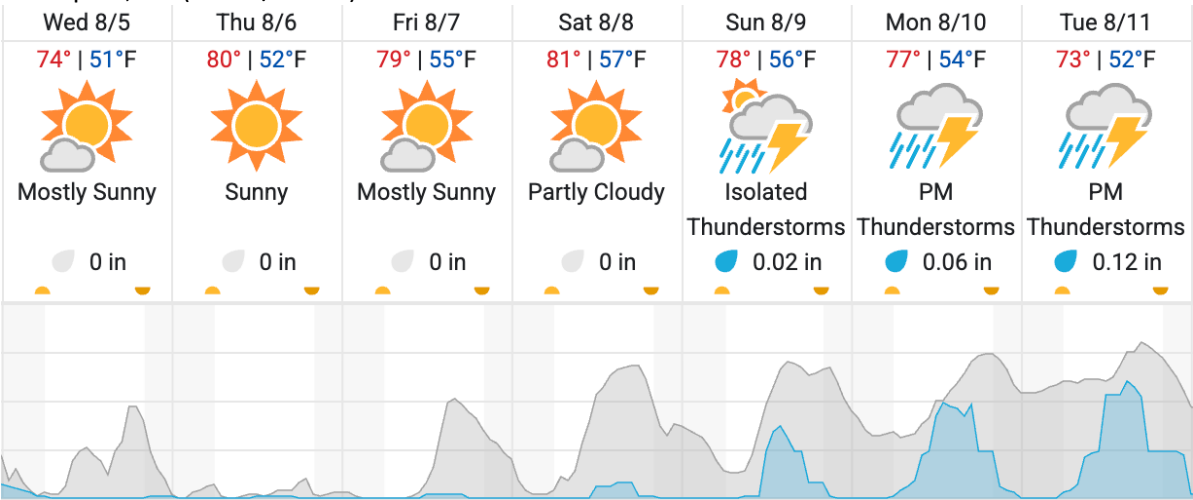
D13 | WLOU (West St. Louis Creek)

|   |   |   |   |   |   |   |   |    |    |    |    |    |
|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|----|----|----|----|----|

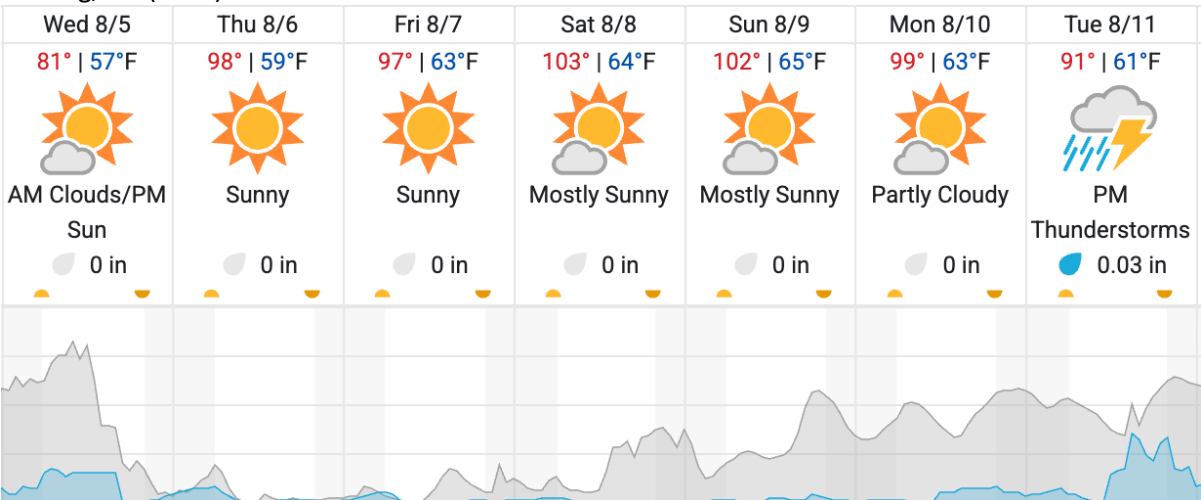
Flown: 0% (0/13)  
Green: 0% (0/13)  
Yellow: 0% (0/13)  
Red: 0% (0/13)  
\* Flown within 35deg solar angle

Weather Forecast

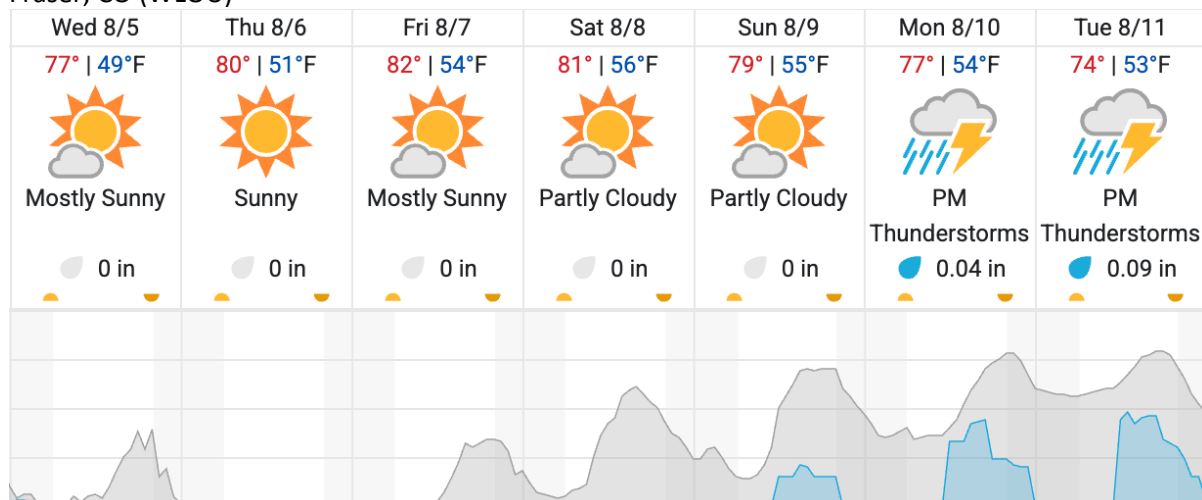
Allenspark, CO (NIWO/RMNP)



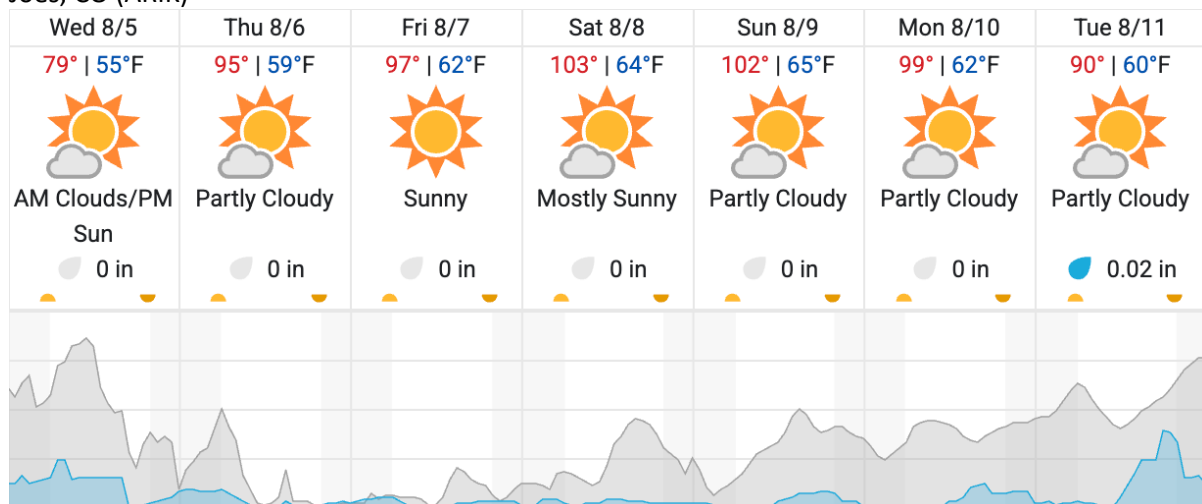
Sterling, CO (STER)

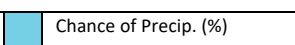


## Fraser, CO (WLOU)



## Joes, CO (ARIK)



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

source: wunderground.com

## Flight Collection Plan for August 5<sup>th</sup> 2026

### Flyority 1

Site: Niwot Ridge Mountain Research Station (NIWO)

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

Solar Angle Time: 09:50L/15:50UTC

### Flyority 2

Site: Rocky Mountain National Park (RMNP)

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

Solar Angle Time: 09:50L/15:50UTC

### Flyority 3

Site: Sterling Agricultural Site (STER)

Flight Plan Name: D10\_STER\_R1\_P1\_v5\_PRM.xml

Solar Angle Time: 09:10L/15:10UTC

**Flyority 4**

Site: West St. Louis Creek (WLOU)

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

Solar Angle Time: 09:50L/15:50UTC

**Flyority 5**

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

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

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

**Flyority 6**

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

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

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

**Crew:** Matt (Lidar), Mitch (NIS)