



## Payload 2 Daily Flight Report



**Date:** 2025-05-18

**Flight Campaign ID:** P2C1

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

**Aircraft:** N615AR

**Domain:** 00 (Training & Calibration)

**Sites Flown:** None

**Days left in Domain:** 2

**Report Author:** Cameron

**Lidar Operators:** Cameron

**Flight Hours:** 00:00

**Spectrometer Operators:** Alyssa

**Hours until maintenance:** 106.08

**Pilots:** Tim, Vince

**Ground Crew:** Nick, Matt

### Summary

With all pertinent calibration flights completed for Payload 2, the crew will now concentrate on the remaining training flights for the ASOs. Unfavorable weather conditions in the region prevented any flight operations today. However, the forecast for the coming days appears promising.

### Concerns

- Nothing new to add.

### Comments

- None

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

### Cumulative Domain Coverage

D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Flown: 100% (20/20)

Green: 100% (20/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

\* Flown within 35deg solar angle

#### D00|H10C (NEON Headquarters Lidar Test - Riegl)

1	2	3	4
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Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 100% (4/4)

\* Flown within 35deg solar angle

#### D00|N10D (Nominal Runway at KBDU - Riegl)

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												

Flown: 93% (26/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 93% (26/28)

\* Flown within 35deg solar angle

#### D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

\* Flown within 35deg solar angle

#### D00|R10C (Table Mountain Radiometric Calibration - Riegl)

1	2	3	4	5
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Flown: 100% (5/5)

Green: 40% (2/5)

Yellow: 60% (3/5)

Red: 0% (0/5)

\* Flown within 35deg solar angle

#### D00|R10D (Boulder Airport Radiometric Calibration)

1	2	3	4	5
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Flown: 100% (5/5)

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

\* Flown within 35deg solar angle

#### D00|V10C (Boulder City South)

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

Flown: 41% (9/22)

Green: 36% (8/22)

Yellow: 5% (1/22)

Red: 0% (0/22)

\* Flown within 35deg solar angle

#### D00|V10D (Boulder City West - Riegl)

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

## D00|W10C (Wiggle Timing Test - Riegl)

1 2

Flown: 100% (2/2)

Green: 50% (1/2)

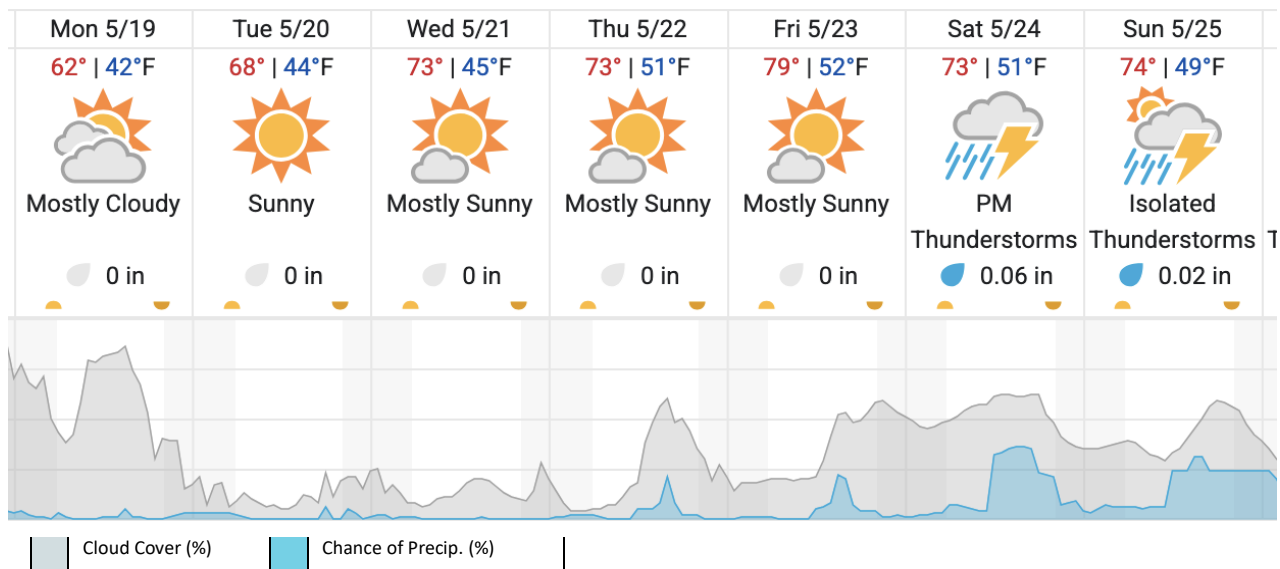
Yellow: 50% (1/2)

Red: 0% (0/2)

\* Flown within 35deg solar angle

## Weather Forecast

Boulder CO



source: wunderground.com

## Flight Collection Plan for 19 May 2025

### Flyority 1

Collection Area: Black Forest

Flight Plan Name: D10\_BLK\_Forest\_v6\_VQ780

On-Station Time: 1520 UTC / 0920 L

### Flyority 2

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10\_V10C\_East/West\_v13\_VQ780

On-Station Time: Daylight – No solar angle restrictions.

### Flyority 3

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10B\_NIS\_Offset\_v4\_Q780

35° On-station Time: 1500 UTC / 0900 L

**Crew:** Cam (Lidar), Alyssa (NIS), Matt (Instructor), Nick (Ground)