



## Payload 2 Daily Flight Report



**Date:** 2025-05-13

**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:** 8

**Report Author:** Matt

**Lidar Operators:** Matt

**Spectrometer Operators:** Mike

**Pilots:** Vince, Tim

**Ground Crew:** Nick

**Flight Hours:** 0

**Hours until maintenance:** 109.50

**GPS Instruments:** None

### Summary

No flights conducted today. The team focused on completing engineering tasks and ASO training for Alyssa. We'll resume calibration flights tomorrow.

### Concerns

NIS Geopaint still depicting the plane as backwards during flight.

### Comments

Faulty SSD disks for the new Lidar have been identified and new ones sourced. Additional Lidar monitors have been mounted and will be tested on the next flight.

### 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: 0% (0/20)

Green: 0% (0/20)

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: 0% (0/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 0% (0/4)

\* 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: 0% (0/5)

Green: 0% (0/5)

Yellow: 0% (0/5)

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)

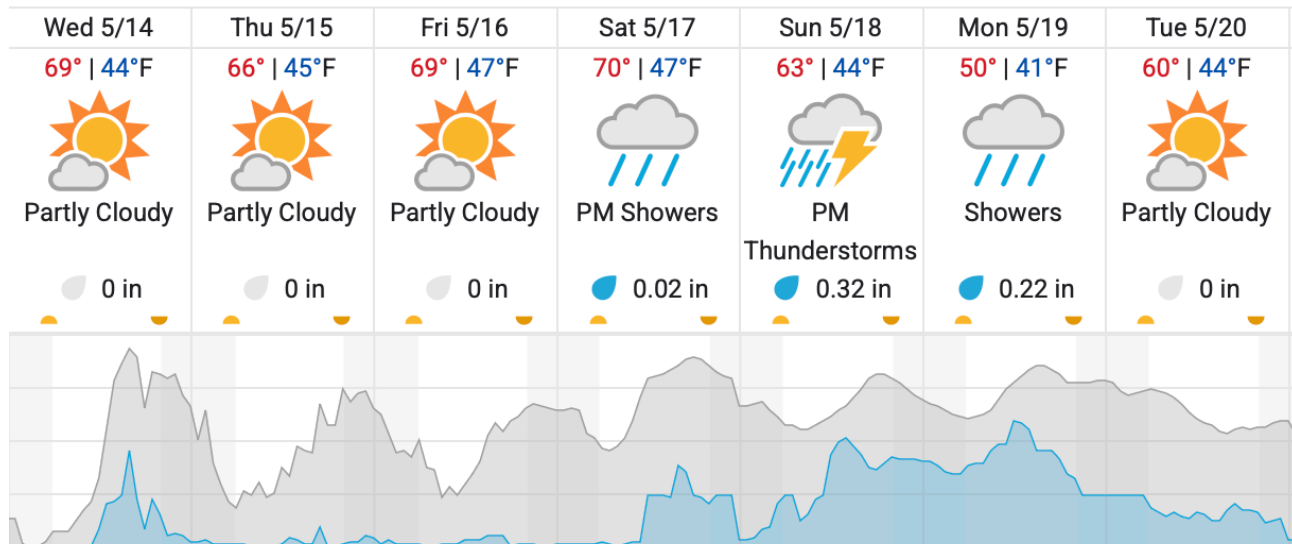
Yellow: 50% (1/2)

Red: 0% (0/2)

\* Flown within 35deg solar angle

### Weather Forecast

BOULDER, CO



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

### Flight Collection Plan for 14 May 2025

#### Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10\_R10C\_Rad\_Cal\_TBMT\_v1\_Q780

45° On-station Time: 1620 UTC / 1020 L

Additional Considerations: Ground should be dry.

#### Flyority 2

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10E\_Boresight\_1600m\_Q780 (RiAcquire name: D10\_B10E\_Boresight\_Apx\_Q780)

30° On-station Time: 1450 UTC / 0850 L

Additional Considerations: No recent snowfall, clear roofs required.

#### Flyority 3

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10\_H10C\_HQ\_val\_v1\_Q780

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

#### Flyority 4

Collection Area: Black Forest

Flight Plan Name: D10\_BLKF\_Black\_Forest\_v6\_VQ780

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

**Flyority 5**

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10B\_NIS\_Offset\_v2\_Q780

35° On-station Time: 1540 UTC / 0940 L

**Crew:** Nick (Lidar), Matt (NIS), Alyssa (In-training)