



## Payload 2 Daily Flight Report

**Date:** 2025-05-04

**Flight Campaign ID:** P2C1

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

**Aircraft:** N615AR

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

**Sites Flown:** N10D (Nominal Runway at KBDU - Riegl), W10C (Wiggle Timing Test - Riegl)

**Days left in Domain:** 17

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Spectrometer Operators:** Matt

**Pilots:** Vince, Mac

**Ground Crew:** Nick

**Flight Hours:** 00:00

**Hours until maintenance:** 118.77

**GPS Instruments:** AOP\_KBDU

### Summary

Crew met again this morning hoping to conduct a test flight, but was unable to adjust the automatic sensor start time leading into the line. This was eventually worked out, but only after the weather window for flights had closed.

### Concerns

Line entry settings: verification of correct lead in time needed.

### Comments

Camera connectivity was verified; manual test photos were collected through RiAcquire, and the camera GPS was properly syncing.

### Cumulative Domain Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

D00|W10C

Line #	1
Lidar	✓
Spectrometer	
Camera	✓
Cloud Cover	

Total number of lines flown: 1

#### 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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

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
---	---	---	---

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: 0% (0/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

\* Flown within 35deg solar angle

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

1	2
---	---

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
---	---	---	---	---

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
---	---	---	---	---

Flown: 100% (5/5)

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

\* Flown within 35deg solar angle

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

1	2
---	---

Flown: 50% (1/2)

Green: 50% (1/2)

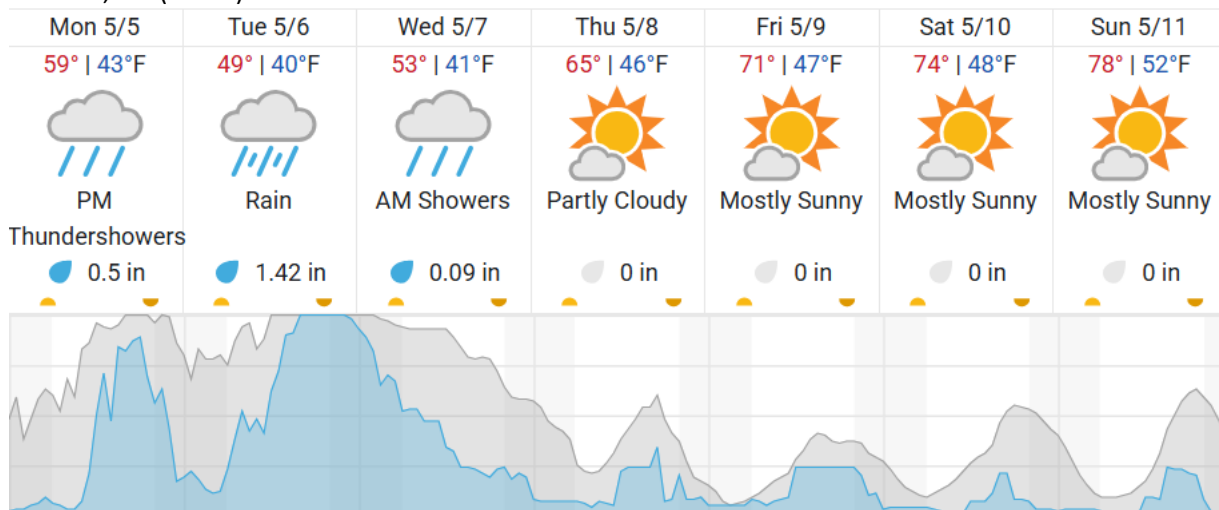
Yellow: 0% (0/2)

Red: 0% (0/2)

\* Flown within 35deg solar angle

## Weather Forecast

Boulder, CO (KBDU)



source: wunderground.com

## Flight Collection Plan for 5 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: Nominal Runway Survey Flight Plan

Name: D10\_N10D\_Nominal\_Rnwy\_v8\_Q780

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

Additional Considerations: Runway should not be wet or snow covered.

### Flyority 4

Collection Area: NEON HQ Lidar Validation

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

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

### Flyority 5

Collection Area: Wiggle Timing Test

Flight Plan Name: D10\_W10C\_Wiggle\_Test\_v6\_Q780

40° On-station Time: 1550 UTC / 0950 L

Additional Considerations: Runway should not be wet, or snow covered.

**Flyority 6**

Collection Area: NIS Offset Flight

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

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

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