



## Payload 2 Daily Flight Report



**Date:** 2025-04-23

**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:** 28

**Report Author:** Elissa

**Lidar Operators:**

**Flight Hours:** 00:00

**Spectrometer Operators:**

**Hours until maintenance:** 123.90

**Pilots:** Vince, Mac

**Ground Crew:** Matt, Mike, John

### Summary

Payload 2 was successfully installed today. Chamber pumping and cooling was completed and the getter was reactivated. Crew and payload are ready for Riegl training scheduled over the next two days.

### Concerns

The two missing camera cables are to be hand delivered and installed by Travis during Riegl training. POS software was not found on the new system, but will also be addressed during Travis' visit.

### Comments

None.

### Cumulative Domain Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

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: 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
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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

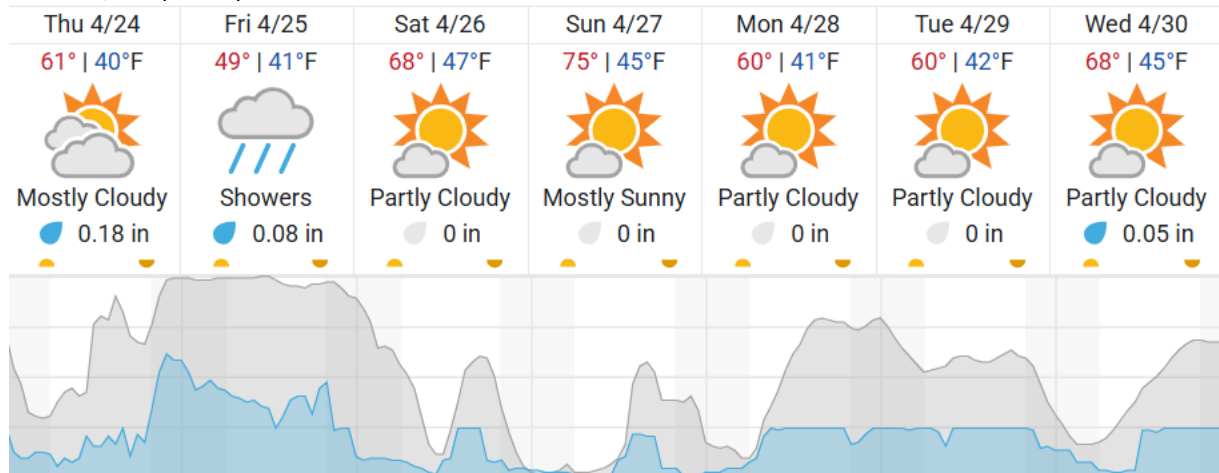
D00|W10C (Wiggle Timing Test - Riegl)

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

## Weather Forecast

Boulder, CO (KBDU)



source: wunderground.com

## Flight Collection Plan for 24-25 April 2025

Riegl training flights, weather permitting.

**Crew:** Mitch (Lidar), Elissa (NIS), Cameron/Mike/John/Matt (Ground)

## Flight Collection Plan for 26 April 2025

### Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10\_R10C\_Rad\_Cal\_TBMT\_v2\_VQ780

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

Additional Considerations: Ground should be dry.

Collection Area: Boulder Airport Radiometric Calibration

Flight Plan Name: D10\_R10D\_Rad\_Cal\_KBDU\_v2\_VQ780

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\_VQ780 (RiAcquire name: D10\_B10E\_Boresight\_Apx\_VQ780)

30° On-station Time: 1500 UTC / 0900 L

Additional Considerations: No recent snowfall, clear roofs required.

### Flyority 3

Collection Area: Nominal Runway Survey Flight Plan

Name: D10\_N10D\_Nominal\_Rnwy\_v13\_VQ780

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\_v2\_VQ780

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\_VQ780

35° On-station Time: 1530 UTC / 0930 L