



## Payload 3 Daily Flight Report



**Date:** 2024-03-26

**Flight Campaign ID:** P3C1

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

**Aircraft:** N821AR

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

**Sites Flown:** None

**Days left in Domain:** 3

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Flight Hours:** 00:00

**Spectrometer Operators:** Mitch **Hours until maintenance:** 122.10

**Pilots:** Justin, Will

**Ground Crew:** Cameron, Matt

### Summary

Most of the ground remains covered in snow from the latest storm. Between that and low cumulus clouds being pushed off the mountains, the decision was made to wait for better flight opportunities later this week.

### Concerns

None.

### Comments

QA emails are now generating properly, thanks to Andrew's efforts!

### Cumulative Domain Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #
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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)

#### 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)

#### 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: 86% (24/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 86% (24/28)

#### 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)

#### 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)

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

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)

#### 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	23	24	25	26	27	28	29											

Flown: 0% (0/29)

Green: 0% (0/29)

Yellow: 0% (0/29)

Red: 0% (0/29)

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

1	2
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Flown: 0% (0/2)

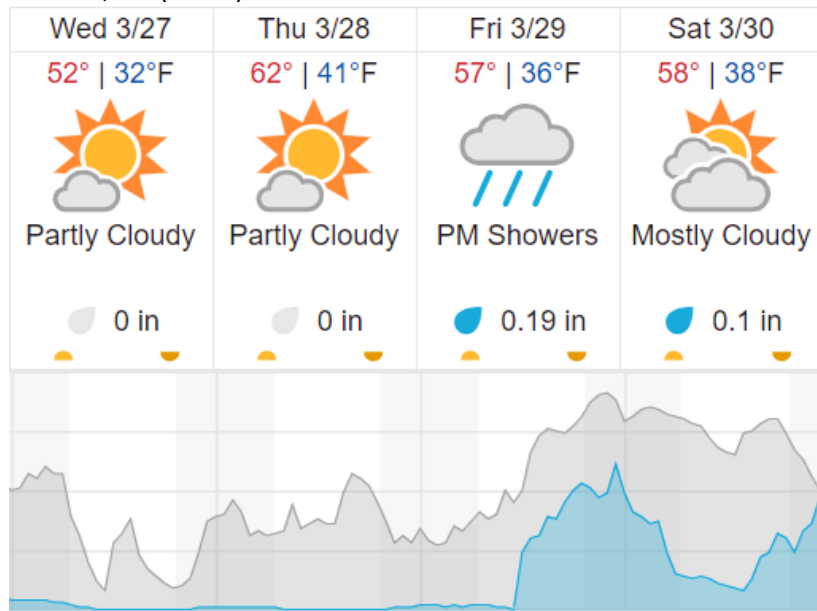
Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

## Weather Forecast

Boulder, CO (KBDU)



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

## Flight Collection Plan for 27 March 2024

### Flyority 1

Collection Area: Table Mountain Radiometric Calibration

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

45° On-station Time: 1730 UTC / 1130 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: 1550 UTC / 0950 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: Wiggle Timing Test

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

40° On-station Time: 1650 UTC / 1050 L

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

**Flyority 5**

Collection Area: NIS Offset Flight

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

35° On-station Time: 1620 UTC / 1030 L

**Flight Crew**

Cam (Lidar), Elissa (NIS), Mitch (Ground), Matt (Ground)