



## Payload 3 Daily Flight Report



**Date:** 2023-04-17

**Flight Campaign ID:** P3C1

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

**Aircraft:** N934MU

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

**Sites Flown:** O10B

**Days left in Domain:** 1

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Spectrometer Operators:** Nick

**Pilots:** Paul, John

**Ground Crew:** Matt, Brendan

**Flight Hours:** 2.3

**Hours until maintenance:** 110.6

**GPS Instruments:** AOP\_KBDU

### Summary

The NIS Offset calibration flight plan (O10B) was flown today in green-yellow conditions. The final flight of the plan's 5 total flights could not be completed due to heavy glider traffic.

### Concerns

None

### Comments

- New pilot John arrived in Boulder today, replacing Jeff
- Andrew implemented a Riegl software update today after flights, which will be tested tomorrow on the remaining Nominal Runway flight lines (weather permitting)

### Daily Coverage

Estimated Cloud Cover Key

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

D00|O10B

Line #	1	2
Lidar	-	-
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover	Yellow	Yellow

Total number of lines flown: 8

## 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: 0% (0/20)

Yellow: 0% (0/20)

Red: 100% (20/20)

### 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)

### 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: 64% (18/28)

Green: 29% (8/28)

Yellow: 4% (1/28)

Red: 32% (9/28)

### 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: 100% (5/5)

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

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

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

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

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

1	2
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Flown: 100% (2/2)

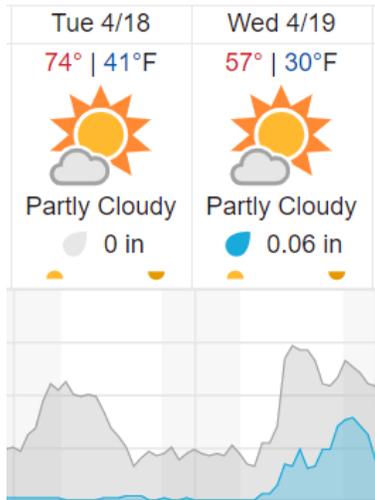
Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 100% (2/2)

## Weather Forecast

Boulder, CO



source: wunderground.com

## Flight Collection Plan for April 16th, 2023

### Flyority 1

Collection Area: Nominal Runway Survey Flight Plan (Lines 5-8, 11-12, 25-28)

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.

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