



## Payload 3 Daily Flight Report



**Date:** 2023-04-18

**Flight Campaign ID:** P3C1

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

**Aircraft:** N934MU

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

**Sites Flown:** N10D

**Days left in Domain:** 0

**Report Author:** Nick

**Lidar Operators:** Nick

**Spectrometer Operators:** Elissa

**Pilots:** Paul, John

**Ground Crew:** Matt

**Flight Hours:** 1.2

**Hours until maintenance:** 109.5

**GPS Instruments:** AOP\_KBDU

### Summary

The clouds held off enough to complete the omitted 6 nominal runway flight lines on the last day of pre-season calibration flights. The Riegl update appears to have corrected the over-current issue, and all remaining lines were successfully flown. The payload was packed and prepared for transit tomorrow to Salt Lake City UT for D15 and MOAB flight data collections.

### Concerns

The daily report is not generating.

### Comments

- The Riegl software update installed appears to have corrected the over-current issue.
- Data of the nominal runway lines 1-4 were lost. Tristan accepted the lost data since the 100% power setting is not used on science flights and had operated normally.
- Abe traveled to Salt Lake City UT to catch the aircraft tomorrow.
- RAID 01 will be shipped tomorrow after today's flight extraction.

### Daily Coverage

Estimated Cloud Cover Key

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

D00|N10D

Line #	5	6	7	8	11	12
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

Total number of lines flown: 6

## 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: 71% (20/28)  
Green: 14% (4/28)  
Yellow: 4% (1/28)  
Red: 53% (15/28)

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

1	2
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Flown: 80% (8/10)  
Green: 0% (0/10)  
Yellow: 80% (8/10)  
Red: 0% (0/10)

### 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)

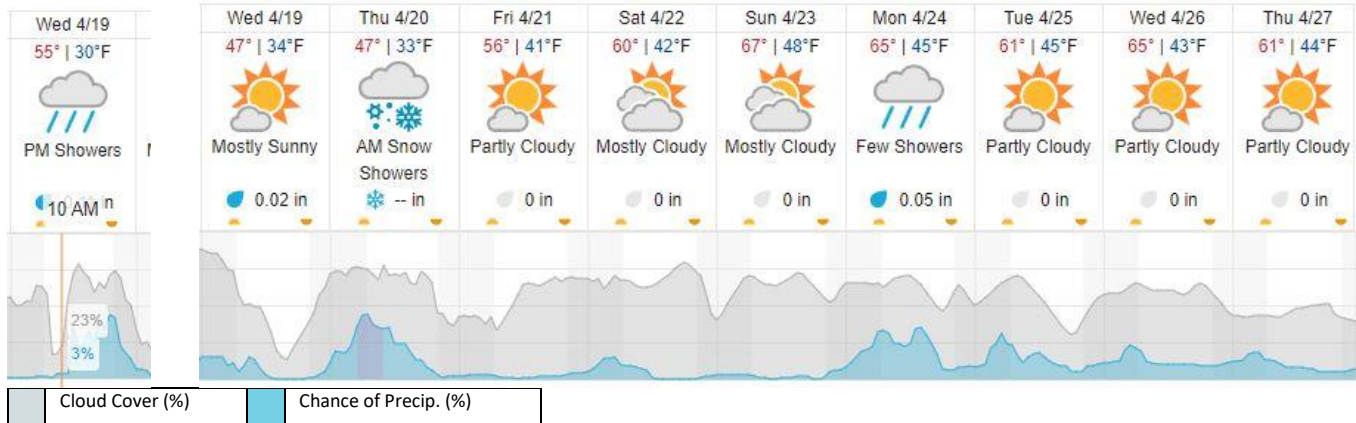
1	2
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Flown: 100% (2/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 100% (2/2)

# Weather Forecast

Boulder, CO

Salt Lake City, UT



source: wunderground.com

## Flight Collection Plan for April 19th, 2023

### Flyority 1

Transit flight from Boulder CO to Salt Lake City UT (KSLC)

Crew: Matt, Abe (Ground)