



# Payload 3 Daily Flight Report



**Date:** 2024-04-07  
**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:** 19

**Report Author:** Mitch  
**Lidar Operators:** Mitch                      **Flight Hours:** 00:00  
**Spectrometer Operators:** Elissa    **Hours until maintenance:** 105.00  
**Pilots:** Justin, Will  
**Ground Crew:** Matt

## Summary

Power was restored to the hangar late this afternoon following the conclusion of the windstorm. After being shut down for more than 24 hours, the system had warmed considerably, and is currently being repumped and cooled. The system will most likely not be ready for flights till Tuesday at the earliest. This combined with tomorrow’s eclipse limiting our solar angle will result in no scheduled flights for tomorrow.

## Concerns

None

## Comments

None

## 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: 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: 100% (4/4)  
 Green: 0% (0/4)  
 Yellow: 100% (4/4)  
 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: 7% (2/29)  
Green: 0% (0/29)  
Yellow: 0% (0/29)  
Red: 7% (2/29)

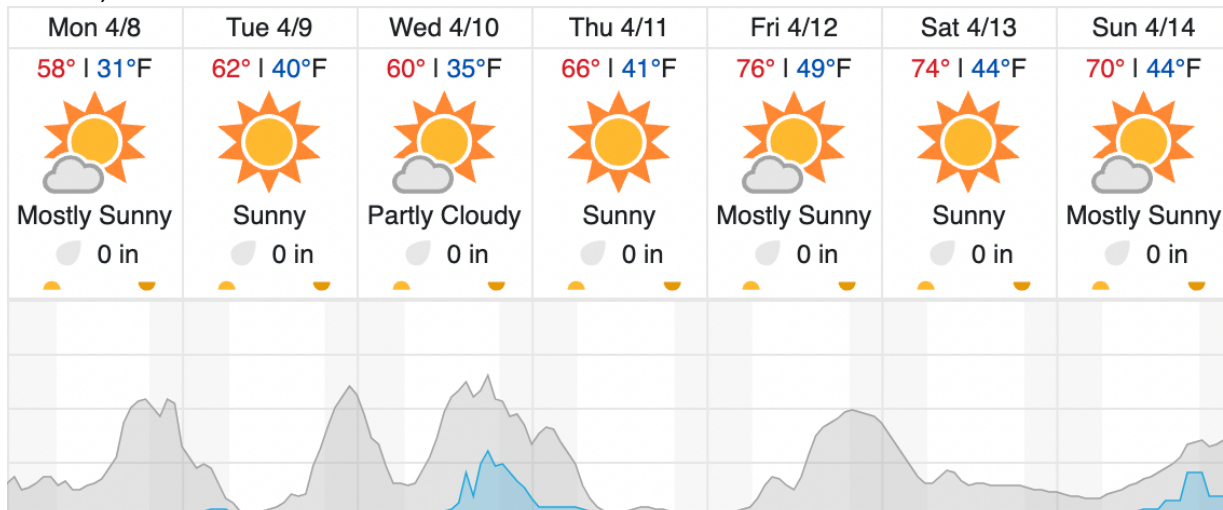
### D00|W10C (Wiggle Timing Test - Riegl)

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

## Weather Forecast

Boulder, CO



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

### **Flight Collection Plan for 8 April 2024**

No fly day as system continues to cool.

Crew: Elissa, Matt

### **Flight Collection Plan for 9 April 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: NIS Offset Flight

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

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

### **Flight Crew**

Matt, Elissa, Cam (roles TBD)