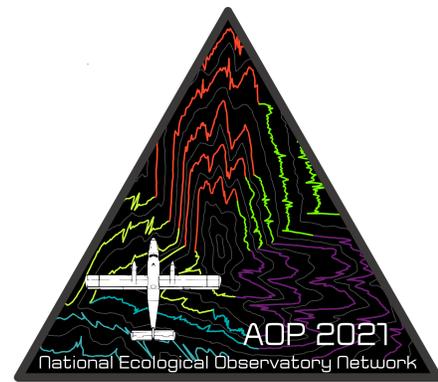




## Payload 3 Daily Flight Report



**Date:** 2021-03-22

**Flight Campaign ID:** P3C1

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

**Aircraft:** N615AR

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

**Sites Flown:** None

**Days left in Domain:** 7

**Report Author:** Michael Wussow

**Lidar Operators:** Michael Wussow

**Spectrometer Operators:** Ivana Vu

**Pilots:** Justin Eddington, Micah Hoogeveen

**Ground Crew:** Matt Devoe

**Flight Hours:** 00:00

**Hours until maintenance:** 116.53

### Summary

As expected snow and low clouds lingered throughout the day and no flights were attempted. The payload hand-off was completed today and Blue team has taken over flight operations for the rest of the week and weekend to maximize opportunities for certification flights during the challenging weather expected this week.

### Concerns

None

### Comments

- Blue Team consists of John Adler, Ivana Vu, Robb Walker, Matt DeVoe, and Mike Wussow
- Ian performed troubleshooting today with Ivana and Mike regarding the booting error repeatedly experienced on the RiAcquire computer during the first boot of the day. Action was taken to switch thermistors in the lidar BSE to a lower resistance rated unit in hopes that this will resolve the issue. After sitting for three hours the Midas box was turned on and the RiAcquire computer booted normally this afternoon. Booting will occur tomorrow morning as well to test this potential fix.
- A camera cable that was found to be loose at the Midas box was re-seated and could be the cause of previous camera connection issues.

### Daily Coverage

Estimated Cloud Cover Key

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

## 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
---	---	---	---

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: 86% (24/28)

Green: 46% (13/28)

Yellow: 0% (0/28)

Red: 39% (11/28)

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

1	2
---	---

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|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: 10% (3/29)

Green: 0% (0/29)

Yellow: 0% (0/29)

Red: 10% (3/29)

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

1	2
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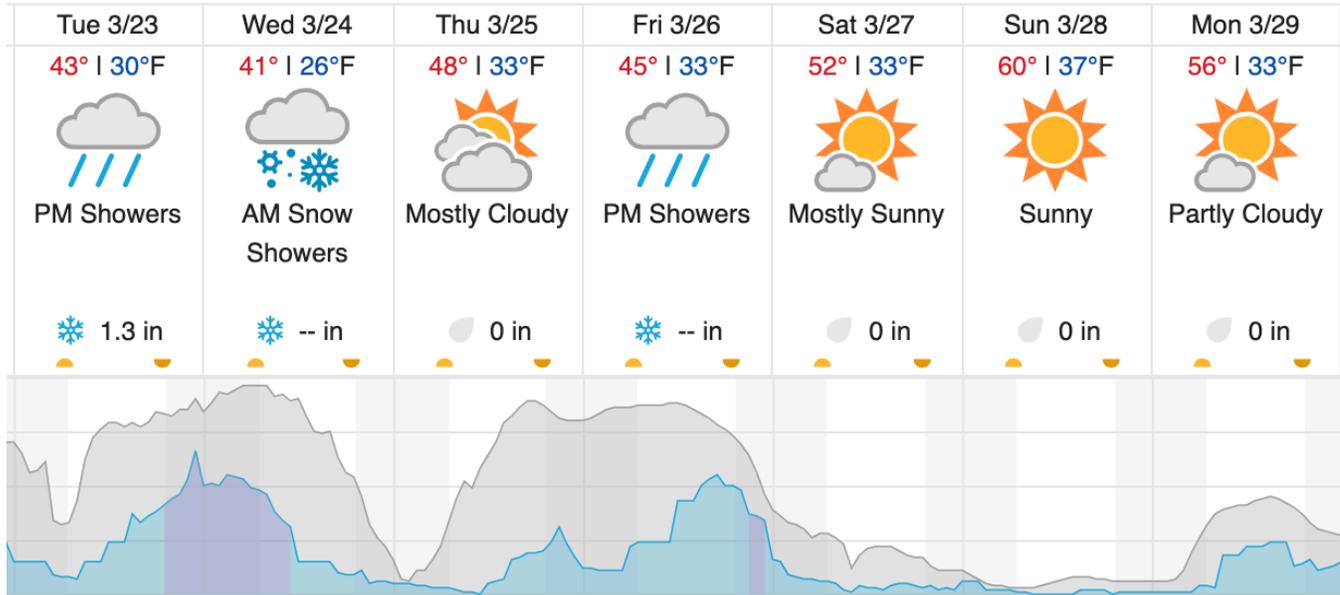
Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

**Weather Forecast  
Boulder, CO**



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

**Flight Collection Plan for March 23 2021**

**Flyority 1**

Collection Area: Table Mountain Radiometric Calibration – Boulder Airport

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

On-station Time: 1700 UTC / 1100 L

Additional Considerations: Ground should be dry.

**Flyority 2**

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10E\_Boresight\_1600m\_Q780

On-station Time: 1600 UTC / 1000 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

On-station Time: 1630 UTC / 1030 L

Flight Crew: Ivana, Matt, Robb, Mike