



## Payload 1 Daily Flight Report



**Date:** 2021-04-04

**Flight Campaign ID:** P1C2

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

**Aircraft:** N331AR

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

**Sites Flown:** None

**Days left in Domain:** 25

**Report Author:** Michael Wussow

**Lidar Operators:** None

**Spectrometer Operators:** None

**Pilots:** Ashley Taylor, Scott Hayward

**Ground Crew:** Matt DeVoe, Abe Morrison, John Adler, Robb Walker

**Flight Hours:** 00:00

**Hours until maintenance:** 116.85

**GPS Instruments:** None

### Summary

With a highly productive day yesterday and many upcoming opportunities, today was taken as a down day for crew rest and to catch up on extraction from yesterday's flights.

### Concerns

- 2021040315 H10D, W10D, R10E flight extraction failed due to checksum errors
- 2021040320 B10F extraction failed due to a waveform lidar disk extraction error
  - A second attempt is underway after swapping discrete and waveform disks in the bays

### Comments

Calibration, training flights, and extraction troubleshooting will resume tomorrow after Payload-1 Status meeting.

### Daily Coverage

Estimated Cloud Cover Key

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

### Cumulative Domain Coverage

D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

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: 100% (20/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

#### D00|BLKF (Black Forest Waveform Range Test - Galaxy)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21																			

Flown: 0% (0/21)  
 Green: 0% (0/21)  
 Yellow: 0% (0/21)  
 Red: 0% (0/21)

#### D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

1	2	3	4
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Flown: 100% (4/4)  
 Green: 100% (4/4)  
 Yellow: 0% (0/4)  
 Red: 0% (0/4)

#### D00|N10F (Nominal Runway at KBDU - Galaxy)

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	30	31	32	33	34	35					

Flown: 0% (0/35)  
 Green: 0% (0/35)  
 Yellow: 0% (0/35)  
 Red: 0% (0/35)

#### D00|O10C (NIS Offset - Galaxy)

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

#### D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

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|V10F (Boulder City Nominal - Galaxy)

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											

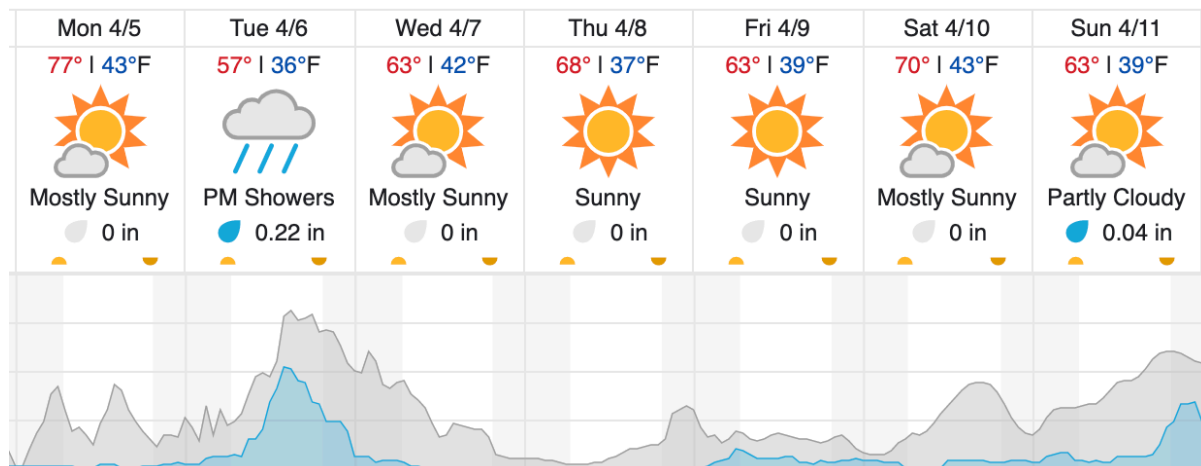
Flown: 14% (4/29)  
 Green: 0% (0/29)  
 Yellow: 0% (0/29)  
 Red: 14% (4/29)

#### D00|W10D (Wiggle Timing Test - Galaxy)

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 5 April 2021

### Flyority 1

Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey Flight Plan

Name: D10\_N10F\_Nominal\_Rnwy\_v9\_PRM.xml

On-Station Time: Daylight – No solar angle restrictions.

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

### Flyority 2

Collection Area: Black Forest Waveform Range Test Flight

Flight Plan Name: D10\_BLKF\_Black\_Forest\_v3\_PRM.xml

On-station Time: Daylight – No solar angle restrictions.

Additional Considerations: Snow on ground / trees okay.

### Flyority 3

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10C\_NIS\_Offset\_v2\_PRM.xml

On-station Time: 1600 UTC / 1000 L

Crew: Matt, Abe, Robb, Mike, John