



## Payload 1 Daily Flight Report



**Date:** 2022-04-18

**Flight Campaign ID:** P1C1

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

**Aircraft:** N331AR

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

**Sites Flown:** None

**Days left in Domain:** 14

**Report Author:** Abe

**Lidar Operators:** Abe

**Flight Hours:** 00:00

**Spectrometer Operators:** Matt

**Hours until maintenance:** 124.00

**Pilots:** Justin, Stephen

### Summary

The payload continued the pumping and cooling process today. The system will probably be ready tomorrow morning.

### Concerns

None

### Comments

The flight line electrical system was repaired today and appears to be fully functional. The flight crew will keep a close eye on it.

### 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: 0% (0/20)

Green: 0% (0/20)

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|D10C ()

1	2
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Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

1	2	3	4
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Flown: 0% (0/4)  
Green: 0% (0/4)  
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	36	37			

Flown: 0% (0/37)  
Green: 0% (0/37)  
Yellow: 0% (0/37)  
Red: 0% (0/37)

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: 0% (0/5)  
Green: 0% (0/5)  
Yellow: 0% (0/5)  
Red: 0% (0/5)

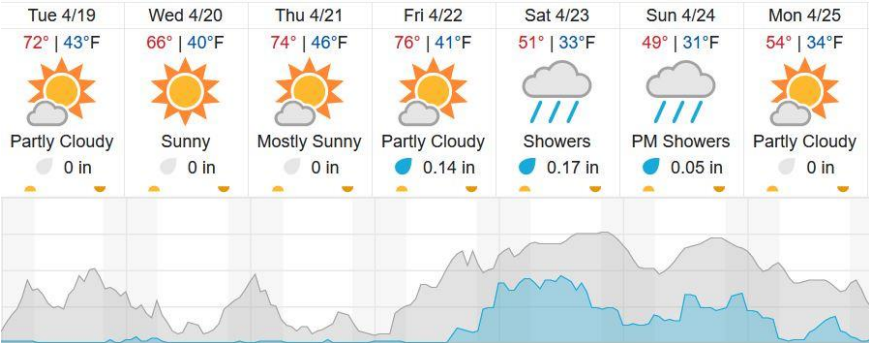
D00|W10D (Wiggle Timing Test - Galaxy)

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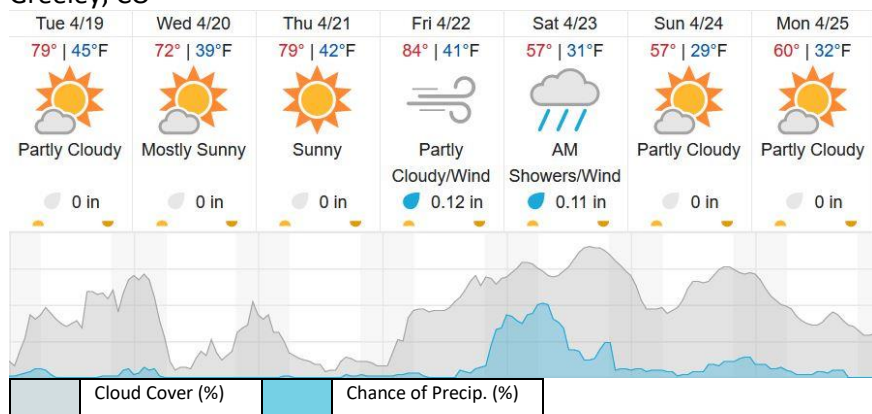
Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

Weather Forecast

Boulder, CO



## Greeley, CO



source: wunderground.com

## Flight Collection Plan for 19 April 2022

### Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10\_R10E\_Radiometric\_Cal\_Table\_Mtn\_v1\_PRM.xml

45° On-station Time: 1630 UTC / 1030 L

40° On-station Time: 1600 UTC / 1000 L

Additional Considerations: Ground should be dry.

### Flyority 2

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10F\_Boresight\_Geocal\_v9\_PRM.xml

30° On-station Time: 1500 UTC / 0900 L

Additional Considerations: No recent snowfall, clear roofs required.

### Flyority 3

Collection Area: Nominal Runway Survey Flight Plan

Name: D10\_N10F\_Nominal\_Rnwy\_v10\_PRM.xml

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

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

### Flyority 4

Collection Area: Wiggle Timing Test

Flight Plan Name: D10\_W10D\_Wiggle\_Test\_v5\_PRM.xml

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

### Flyority 5

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10\_H10D\_HQ\_LIDAR\_validation\_v1\_PRM.xml

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

### Flyority 6

Collection Area: NIS Offset Flight

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

35° On-station Time: 1530 UTC / 0930 L

## Flight Crew:

TBD