



## Payload 1 Daily Flight Report



**Date:** 2026-04-30  
**Flight Campaign ID:** P1C1  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO  
**Aircraft:** N537AR

**Domain:** 00 (Training & Calibration)  
**Sites Flown:** P1 Install  
**Days left in Domain:** 11

**Report Author:** Mike  
**Lidar Operators:** N/A      **Flight Hours:** 00:00  
**Spectrometer Operators:** N/A      **Hours until maintenance:** 123.90  
**Pilots:** Manning, Rusty  
**Ground Crew:** Matt, Elissa, Mike

### Summary

A new to NEON Twin Otter arrived yesterday ahead of winter weather and today Payload 1 was installed. The system is currently pumping down and will start cooling tonight. We anticipate the system will reach temperature and pressure specifications in time for flights on Saturday.

### Concerns

- None

### Comments

- None

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

### Cumulative Domain Coverage

D00|B10F (Galaxy 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)

\* Flown within 35deg solar angle

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)

\* Flown within 35deg solar angle

D00|H10C (NEON Headquarters Lidar Test - 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)

\* Flown within 35deg solar angle

D00|N10D (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												

Flown: 0% (0/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

\* Flown within 35deg solar angle

D00|R10C (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)

\* Flown within 35deg solar angle

D00|R10D (Boulder Airport 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)

\* Flown within 35deg solar angle

D00|V10C (Boulder City South - Galaxy)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22																		

Flown: 0% (0/22)

Green: 0% (0/22)

Yellow: 0% (0/22)

Red: 0% (0/22)

\* Flown within 35deg solar angle

D00|V10D (Boulder City West – 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															

Flown: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

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

1 2

Flown: 0% (0/2)

Green: 0% (0/2)

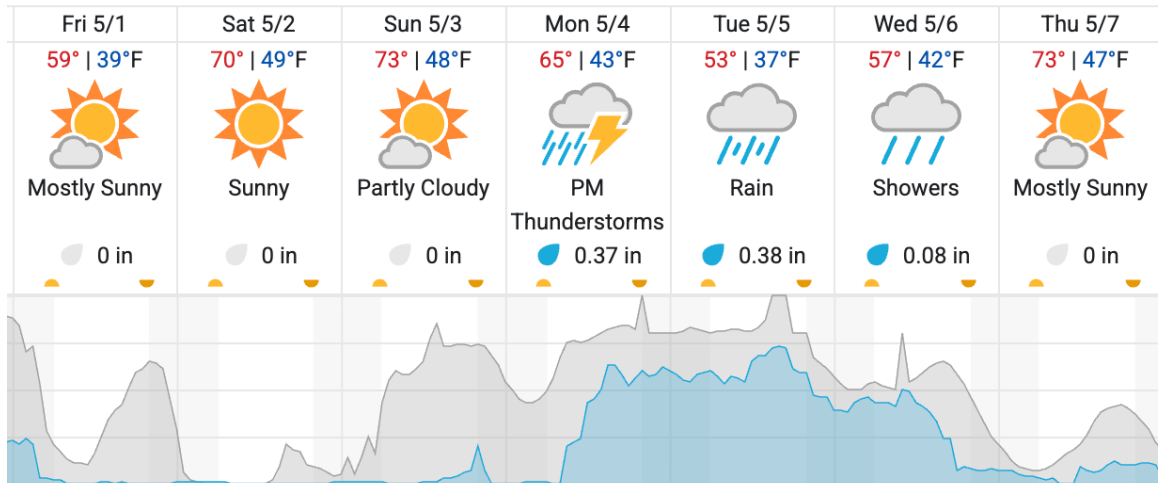
Yellow: 0% (0/2)

Red: 0% (0/2)

\* Flown within 35deg solar angle

### Weather Forecast

#### Boulder, CO



source: wunderground.com

### Flight Collection Plan for May 1, 2026

Continue pumping and cooling

### Flight Collection Plan for May 2, 2026

#### Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10\_R10E\_Radiometric\_Cal\_Table\_Mtn\_v2\_PRM

45° On-station Time: 1610 UTC / 1010 L

Additional Considerations: Ground should be dry.

#### Flyority 2

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10F\_Boresight\_Geocal\_v10\_PRM

30° On-station Time: 1440 UTC / 0840 L

Additional Considerations: No recent snowfall, clear roofs required.

#### Flyority 3

Collection Area: Nominal Runway Survey Flight Plan

Name: D10\_N10F\_Nominal\_Rnwy\_v12\_PRM

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

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

**Flyority 4**

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10\_H10D\_HQ\_LIDAR\_validation\_v2\_PRM

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

**Flyority 5**

Collection Area: Wiggle Timing Test

Flight Plan Name: D10\_W10D\_Wiggle\_Test\_v7\_PRM

40° On-station Time: 1540 UTC / 0940 L

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

**Flyority 6**

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10\_V10F\_Boulder\_City\_v11\_PRM

On-Station Time: 1540 UTC / 0940 L