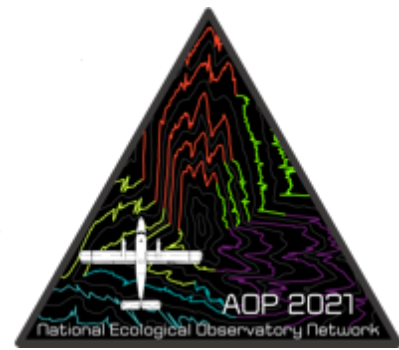




Payload 1 Daily Flight Report



**Date:** 2021-10-12  
**Flight Campaign ID:** P1C2  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO  
**Aircraft:** N331AR

**Domain:** 00 (Calibration)  
**Sites Flown:** None  
**Days left in Domain:** 06

**Report Author:** Mitch Haynes  
**Lidar Operators:** Mitch Haynes  
**Spectrometer Operator:** Abe Morrison  
**Ground Crew:** Elissa Barris  
**Pilots:** Justin Eddington, Stephen Brawders

**Flight Hours:** 00:00  
**Hours until maintenance:** 125.00  
**GPS Instruments:** NA

**Summary**

Twin Otter mechanics finished aircraft 125hr inspection and maintenance this morning and Andrew was able to successfully upgrade the Galaxy firmware this afternoon. No real opportunities for flights occurred in between as intermittent rain showers scattered the region.

**Concerns**

The database failed to properly generate the daily report again today. Investigation ongoing.

**Comments**

None

**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
---	---

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
---	---	---	---

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					

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

D00|O10C (NIS Offset - Galaxy)

1	2
---	---

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
---	---	---	---	---

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

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

1	2	3	4	5
---	---	---	---	---

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

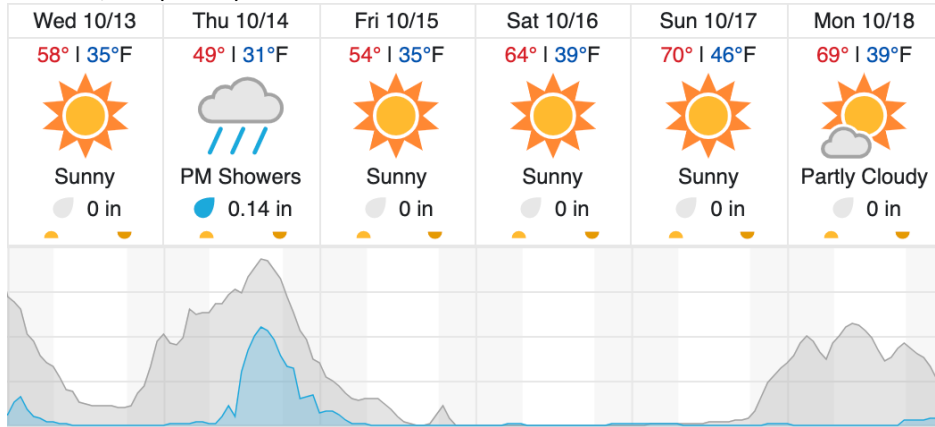
D00|W10D (Wiggle Timing Test - Galaxy)

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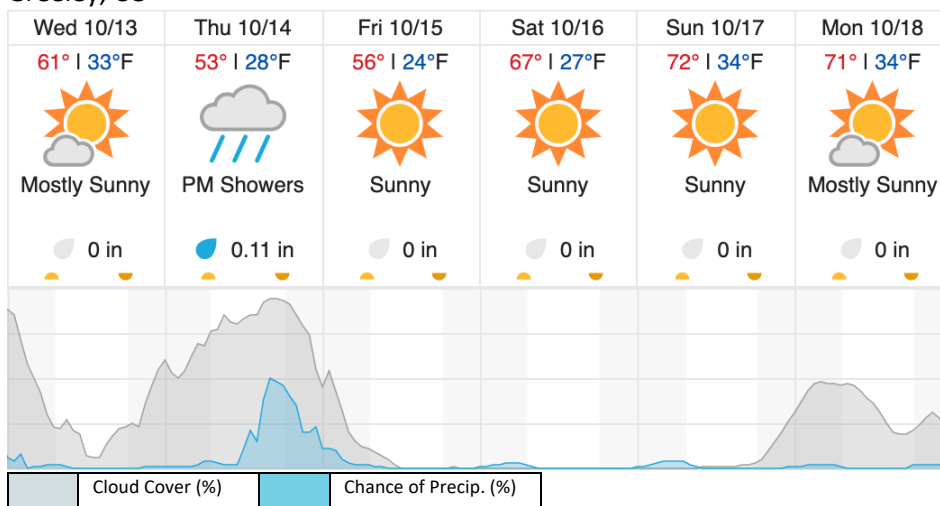
Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

## Weather Forecast

Boulder, CO (KBDU)



Greeley, CO



source: wunderground.com

### Flight Collection Plan for 13 October 2021

Flyority 1

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10F\_Boresight\_Geocal\_v8\_PRM

On-station Time: 16:10 UTC / 10:10 L

Flyority 2

Collection Area: Wiggle Timing Test

Name: D10\_W10D\_Wiggle\_Test\_v5\_PRM

On-Station Time: 17:40 UTC / 11:40 L

Flyority 3

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10\_H10D\_HQ\_Lidar\_validation\_v1\_PRM

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

Flyority 4

Collection Area: Boulder Airport Radiometric Calibration

Flight Plan Name: D10\_R10F\_Radiometric\_Cal\_KBDU\_v1\_PRM

On-Station Time: 17:40 UTC / 11:40 L

Flyority 5

Collection Area: NIS Offset Flight

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

On-Station Time: 16:50 UTC / 10:50 L

Flyority 6

Collection Area: Black Forest Waveform Range Test Flight

Flight Plan Name: D10\_BLKF\_Black\_Forest\_v4\_PRM

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

Flyority 7

Collection Area: Boulder City Eye Safety Test

Flight Plan Name: D10\_D10C\_Boulder\_West\_Eye\_Safety\_Test\_PRM

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

Crew: Elissa (Lidar), Mitch (NIS), Abe (Ground)