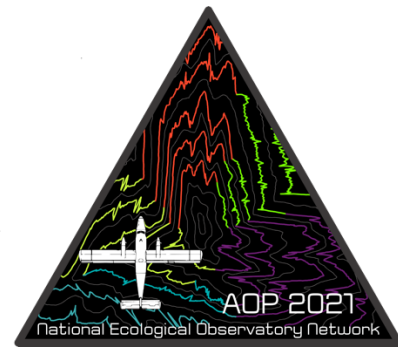




## Payload 1 Daily Flight Report



**Date:** 2021-04-08

**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:** 21

**Report Author:** Cameron Chapman

**Lidar Operators:** Cameron Chapman

**Spectrometer Operators:** Elissa Barris

**Pilots:** Ashley Taylor, Scott Hayward

**Adt'l Flight Crew:** Matt Devoe

**Flight Hours:** 00:00

**Hours until maintenance:** 111.08

**GPS Instruments:** AOP\_KBDU

**Ground Crew:** Nick Marusich

### Summary

The crew towed out and was prepared to conduct training flights today however strong winds in Boulder prevented any flights from occurring.

### Concerns

None

### Comments

- Team B took over Payload 1 this morning. ( Cameron, Nick, Elissa, Matt-Trainer)
- HK1 completed one extract and is now extracting the Boresight flight.
- HK2 is conducting a training flight extract.
- Cameron and Elissa performed P1 system startup on the ground.

### Daily Coverage

Estimated Cloud Cover Key

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

### Flight Screenshots:

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

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

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: 43% (15/35)  
Green: 0% (0/35)  
Yellow: 0% (0/35)  
Red: 43% (15/35)

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: 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											

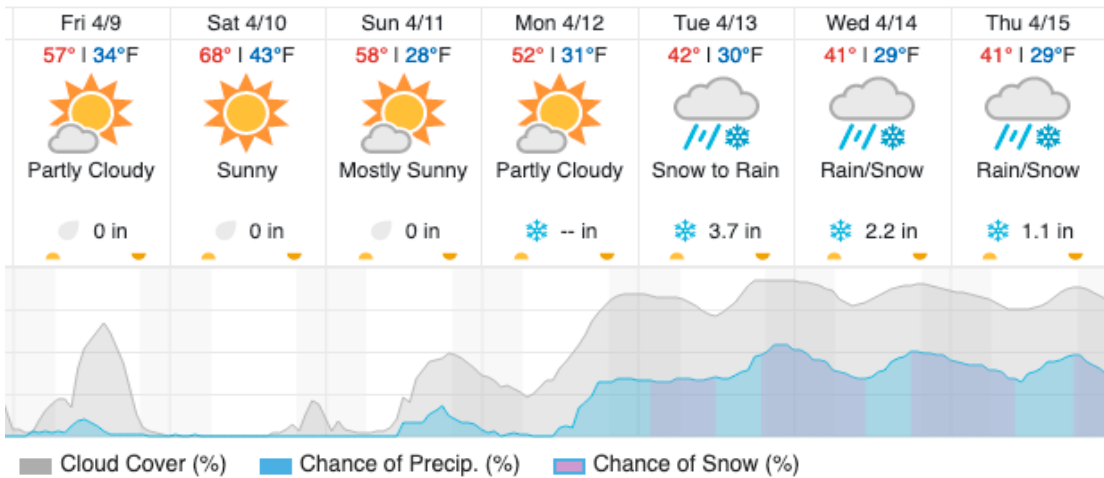
Flown: 34% (10/29)  
Green: 14% (4/29)  
Yellow: 0% (0/29)  
Red: 21% (6/29)

D00|W10D (Wiggle Timing Test - Galaxy)

1	2
---	---

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

## Weather Forecast



source: wunderground.com

## Flight Collection Plan for 9 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: Nick, Cam, Matt