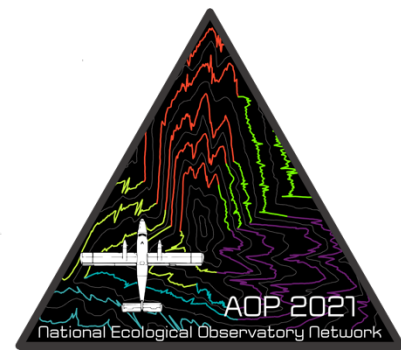




## Payload 1 Daily Flight Report



**Date:** 2021-03-31

**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:** 28

**Report Author:** Robb Walker

**Lidar Operators:** None

**Spectrometer Operators:** None

**Pilots:** Ashley Taylor, Scott Hayward

**Ground Crew:** Abe Morrison, Matt Devoe, Robb Walker, Elissa Barris

**Flight Hours:** 00:00

**Hours until maintenance:** 123.8

**GPS Instruments:** None

### **Summary**

Payload 1 was transferred to hangar and Twin Otter arrived from Grand Junction this afternoon. Crew was able to get started early and complete payload installation. Spectrometer is now in the pumping and cooling phase. Calibration and training flights are expected to start Friday or Saturday to kick off the P1C2 flight campaign with new Optech Galaxy lidar system.

### **Concerns**

None

### **Comments**

Pilots will be at hangar tomorrow afternoon to get briefing and training on NEON survey procedures.

### **Pictures**



Matt DeVoe and Robb Walker prepping PIM



Elissa Barris positioning racks.

## 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: 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|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
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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
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Flown: 0% (0/5)

Green: 0% (0/5)

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
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21	22	23	24	25	26	27	28	29
----	----	----	----	----	----	----	----	----

Flown: 0% (0/29)

Green: 0% (0/29)

Yellow: 0% (0/29)

Red: 0% (0/29)

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

1 2

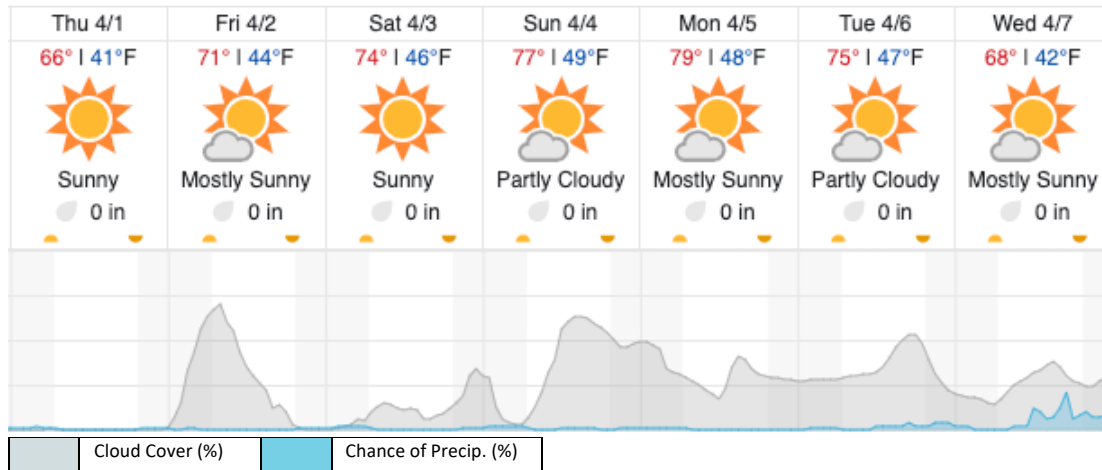
Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

### Weather Forecast



source: wunderground.com

### Flight Collection Plan for 1 April 2021

No flights planned, payload pumping and cooling.

### Flight Collection Plan for 2 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: Wiggle Timing Test

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

On-Station Time: 1630 UTC / 1030 L

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

#### Flyority 3

Collection Area: Table Mountain Radiometric Calibration

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

On-station Time: 1710 UTC / 1110 L

Additional Considerations: Ground should be dry.

#### Flyority 4

Collection Area: Boresight Calibration – Greeley, CO

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

On-station Time: 1530 UTC / 0930 L

Additional Considerations: No recent snowfall, clear roofs required.

#### Flyority 5

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 6**

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.

Additional Considerations: Snow on ground okay.

**Flyority 7**

Collection Area: NIS Offset Flight

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

On-station Time: 1600 UTC / 1000 L