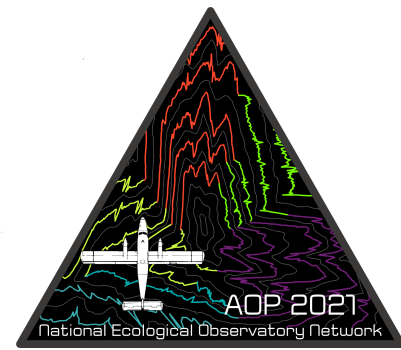




## Payload 1 Daily Flight Report



**Date:** 2021-04-22

**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:** 7

**Report Author:** Ivana Vu

**Lidar Operators:** Ivana Vu

**Spectrometer Operators:** Robb Walker

**Pilots:** Justin Eddington, Will Mathews

**Ground Crew:** Nick Marusich

**Flight Hours:** 00:00

**Hours until maintenance:** 104.33

**GPS Instruments:** None

### **Summary**

No flights were attempted due to Marginal VFR conditions in Boulder and moisture on the runway.

### **Concerns**

None

### **Comments**

Hotel Kit 1 SVN has been updated

## 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: 100% (21/21)

Green: 0% (0/21)

Yellow: 100% (21/21)

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: 38% (11/29)

Green: 14% (4/29)

Yellow: 0% (0/29)

Red: 24% (7/29)

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

1 2

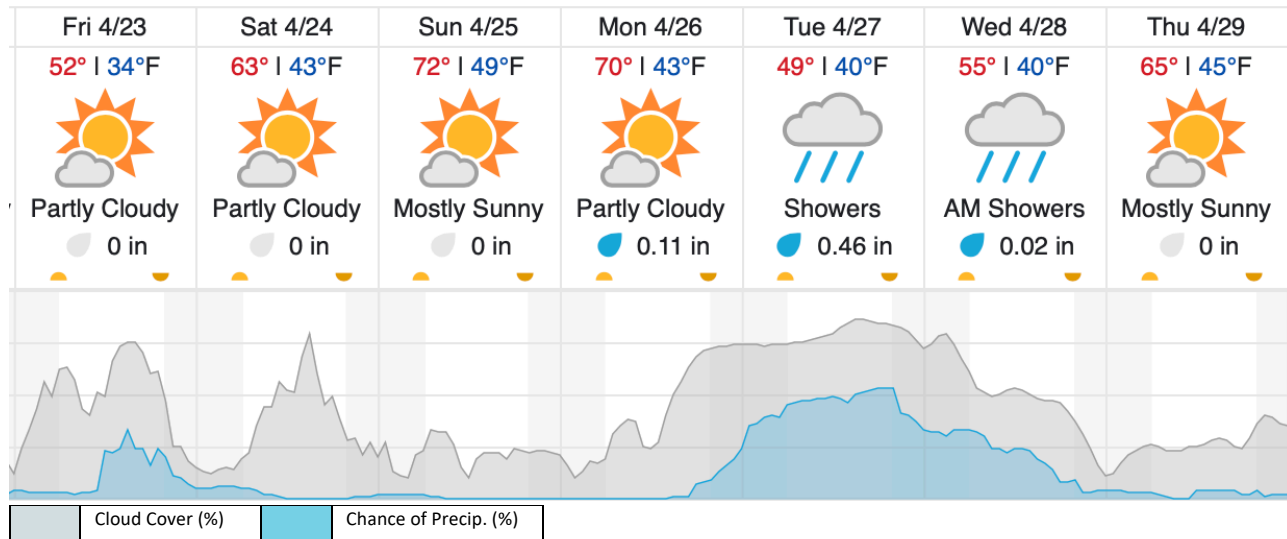
Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

### Weather Forecast



source: wunderground.com

### Flight Collection Plan for 23 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: NIS Offset Flight

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

On-station Time: 1600 UTC / 1000 L

Crew: Robb (Lidar), Nick (NIS), Mike (Ground)