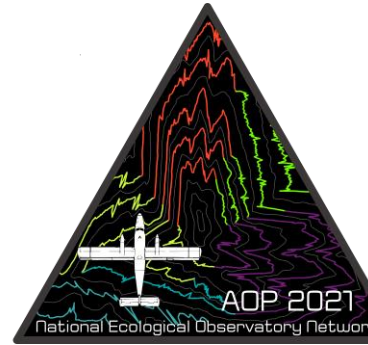




## Payload 1 Daily Flight Report



**Date:** 2021-10-16

**Flight Campaign ID:** P1C2

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Aircraft:** N331AR

**Domain:** 00 (Training & Calibration)

**Sites Flown:** B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

**Days left in Domain:** 2

**Report Author:** Abe Morrison

**Lidar Operators:** Abe Morrison

**Spectrometer Operators:** John Adler

**Pilots:** Justin Eddington, Stephen Brawders

**Ground Crew:** Cameron Chapman

**Flight Hours:** 01:54

**Hours until maintenance:** 116.45

**GPS Instruments:** AOP\_KBDU, U-CHLL

### Summary

Today was an absolutely beautiful day to finish the flight season. Completely clear skies and calm winds allowed the crew to complete the Greeley Boresight flight in "green" sky conditions. With all calibration and test flights complete the crew will wait for extraction and QA activities to finish before removing the payload from the otter on Monday morning.

Thanks to all AOP staff for your hard work and a successful year!!

### Concerns

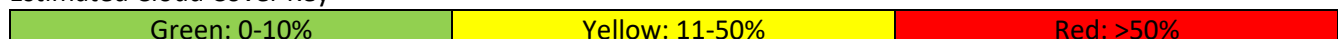
None

### Comments

None

### Daily Coverage

Estimated Cloud Cover Key



D00|B10F

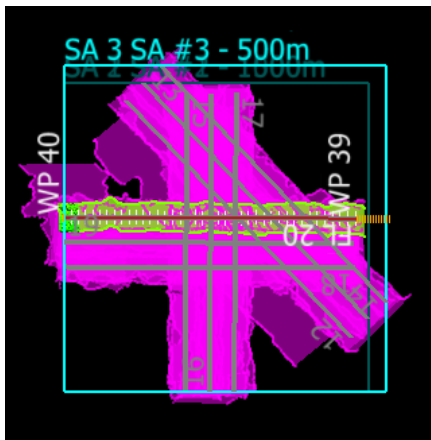
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

**Flight Screenshots**

B10F

Lidar



NIS



## 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|D10C ()

1										2									
---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--

Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

### 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	36	37			

Flown: 100% (37/37)

Green: 59% (22/37)

Yellow: 41% (15/37)

Red: 0% (0/37)

### D00|O10C (NIS Offset - Galaxy)

1										2									
---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--

Flown: 100% (2/2)

Green: 100% (2/2)

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|W10D (Wiggle Timing Test - Galaxy)

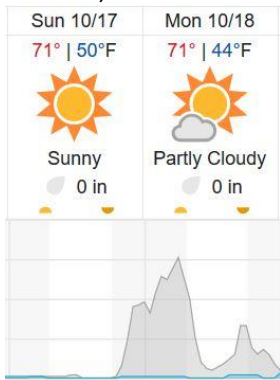
1

2

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

**Weather Forecast**

Boulder, CO



**Flight Collection Plan for 17 October 2021**

No flights planned

**Flight Collection Plan for 18 October 2021**

Remove Payload from Otter

Crew: Abe, Elissa, Can