



## Payload 1 Daily Flight Report



**Date:** 2022-11-22

**Flight Campaign ID:** P1C1

**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:** 5

**Report Author:** Mike

**Lidar Operators:** Mike

**Spectrometer Operators:** Mitch

**Pilots:** Justin, Vince

**Ground Crew:** Cameron, Matt

**Flight Hours:** 01:51

**Hours until maintenance:** 36.82

**GPS Instruments:** AOP\_KBDU, S-COGR

### Summary

One more calibration flight was knocked off the list today. The Greeley Boresight flight was completed in green/yellow conditions. This leaves the only the Nominal Runway flight which is planned for tomorrow.

### Concerns

None

### Comments

None

### Daily Coverage

Estimated Cloud Cover Key

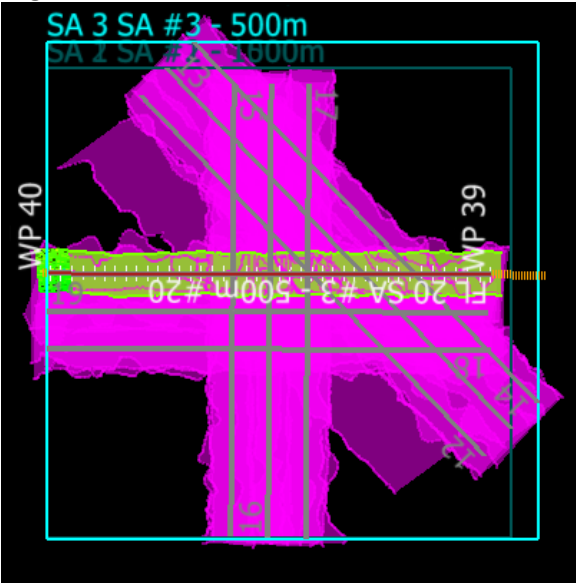
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|B10F

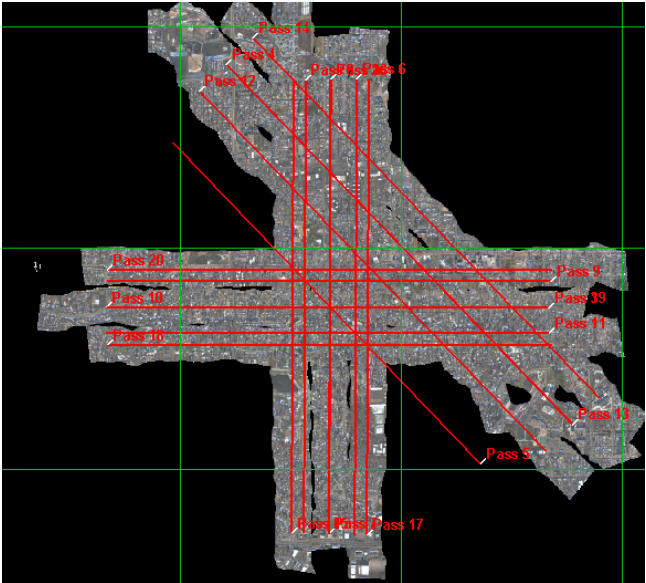
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



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
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Flown: 100% (20/20)

Green: 80% (16/20)

Yellow: 20% (4/20)

Red: 0% (0/20)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

1	2	3	4
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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: 0% (0/37)

Green: 0% (0/37)

Yellow: 0% (0/37)

Red: 0% (0/37)

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

1	2	3	4	5
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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: 79% (23/29)

Green: 79% (23/29)

Yellow: 0% (0/29)

Red: 0% (0/29)

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

1	2
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Flown: 100% (2/2)

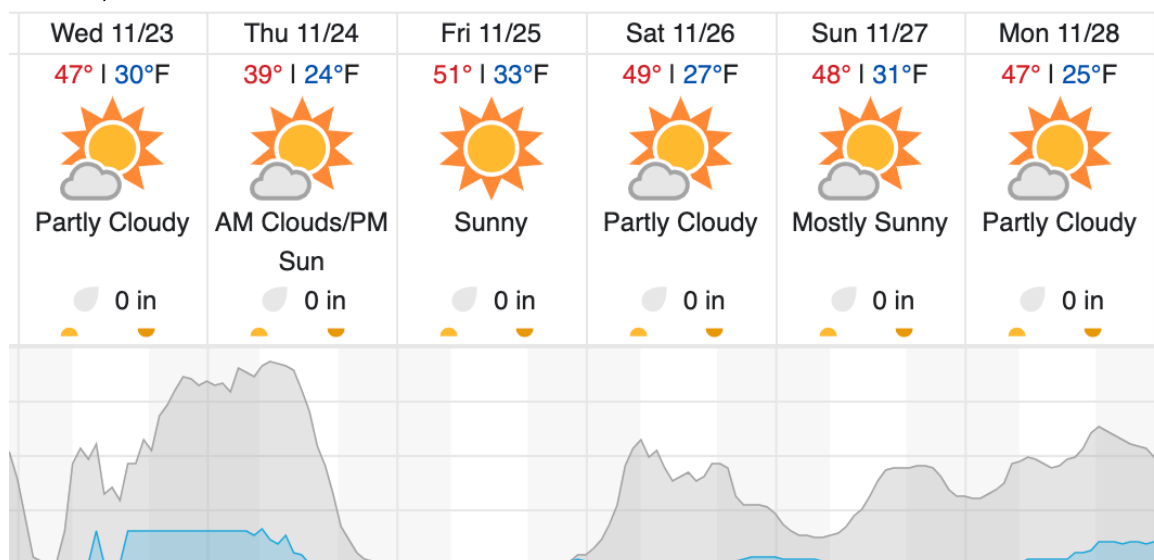
Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

### Weather Forecast

Boulder, CO



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

### Flight Collection Plan for November 23 2022

#### Flyority 1

Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey

Flight Plan Name: D10\_N10F\_Nominal\_Rnwy\_v10\_PRM.xml

On-station Time: N/A

**Crew:** Mitch (Lidar) Mike (NIS) Matt (Ground)