



## March 8, 2019 Payload 2 Daily Flight Report



20190307\_P2C1\_KBDU\_GPS\_MHDate: 2019-03-08

Flight Campaign ID: 2019\_P2C1

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

Domain: 00

Sites Flown: N10C\_Nominal\_Runway, W10B Wiggle Test, H10B (NEON Headquarters Lidar Test - modified cross-track)

Days left in Domain: 14

Report Author: Cameron Chapman

Flight Crew: Cameron Chapman, Matt Devoe, Mitch Haynes

Ground/GPS: Robb Walker, Abe Morrison

Pilots: Mike Francis, Dylan Malfatti

Additional Personnel: None

GPS Instruments: 01 - FBO\_KBDU

Flight Hours: 00:32

Hours until maintenance: 122.35

### Summary

We completed 3 calibration flights in conjunction with ASO recertifications.

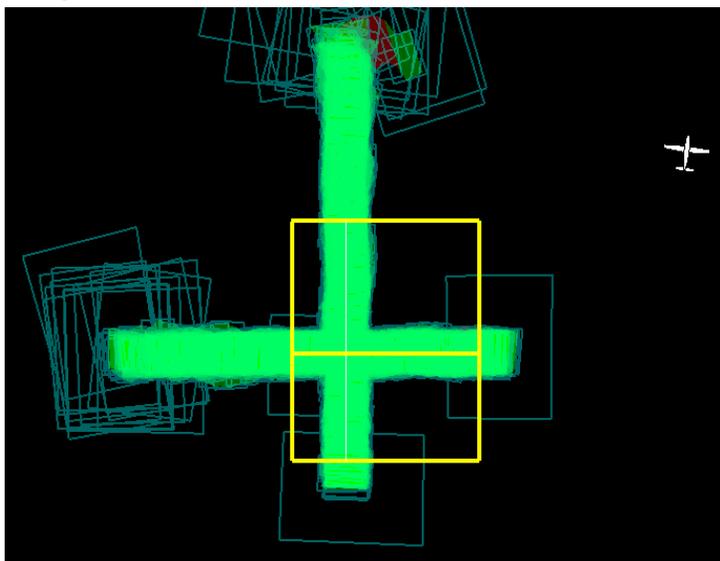
### Concerns

- Camera Computer shutdown unexpectedly during the first flight. A simple reboot seemed to resolve the issue.
- The GPS antennas for Lidar and NIS were switched during installation. The crew quickly identified and resolved the issue.
- The PRF's were not automatically cycling during the Nominal runway flight plan.

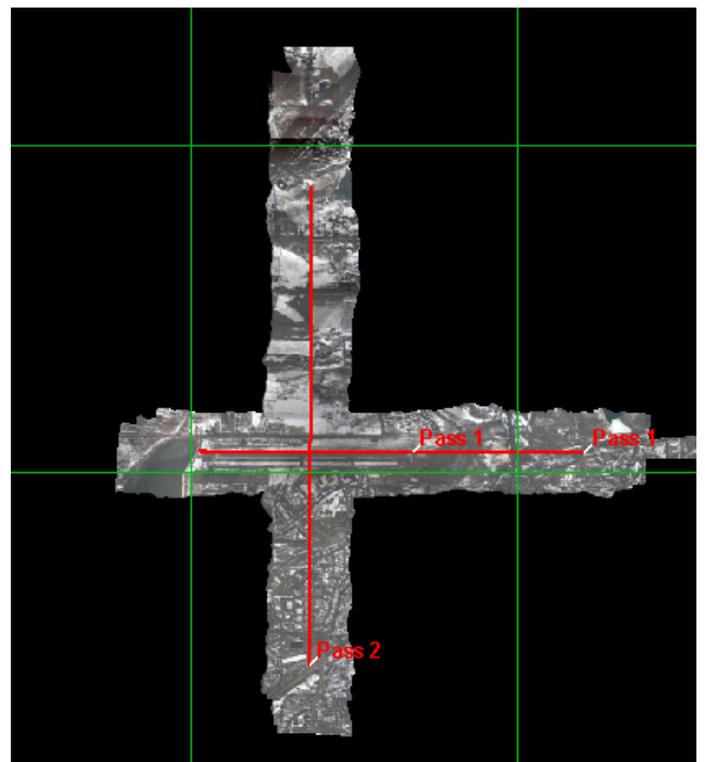
### Comments

- Abe Completed Ground certification
- Matt Completed NIS and Lidar Re-Certification
- Cameron Completed Lidar Re-Certification
- Robb Completed Ground and NIS Re-Certification

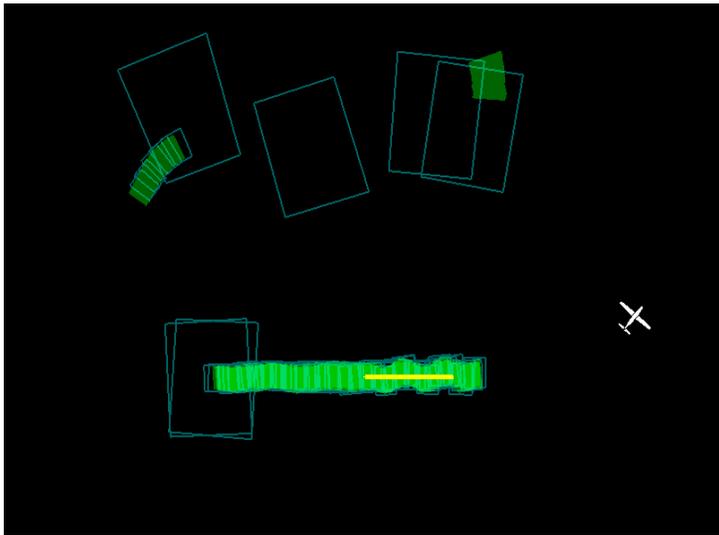
### Flight Screenshots



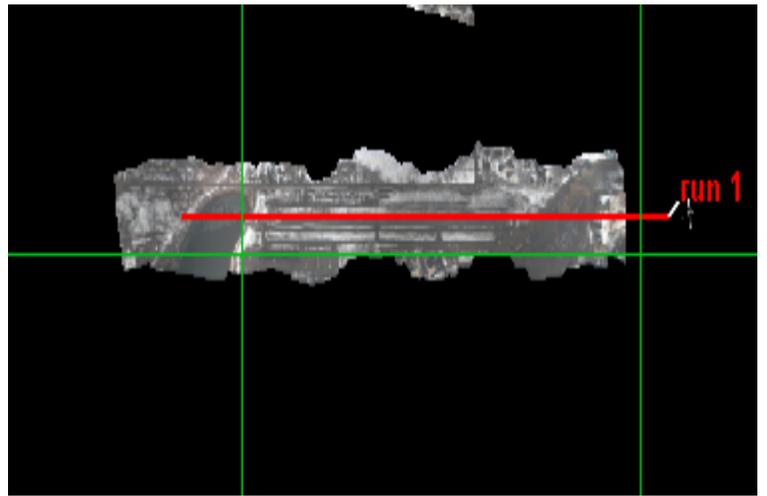
N10C Lidar



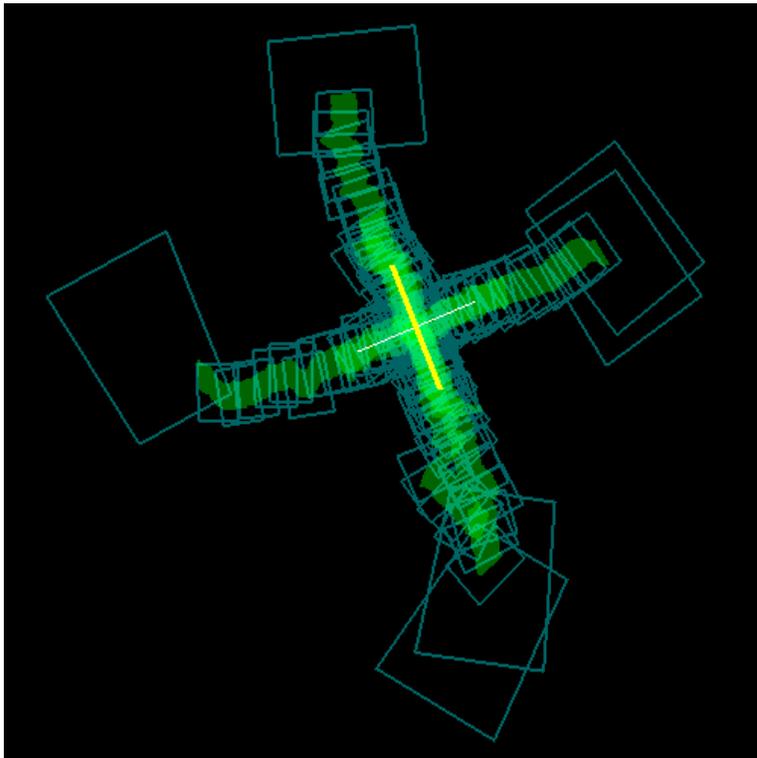
N10C NIS



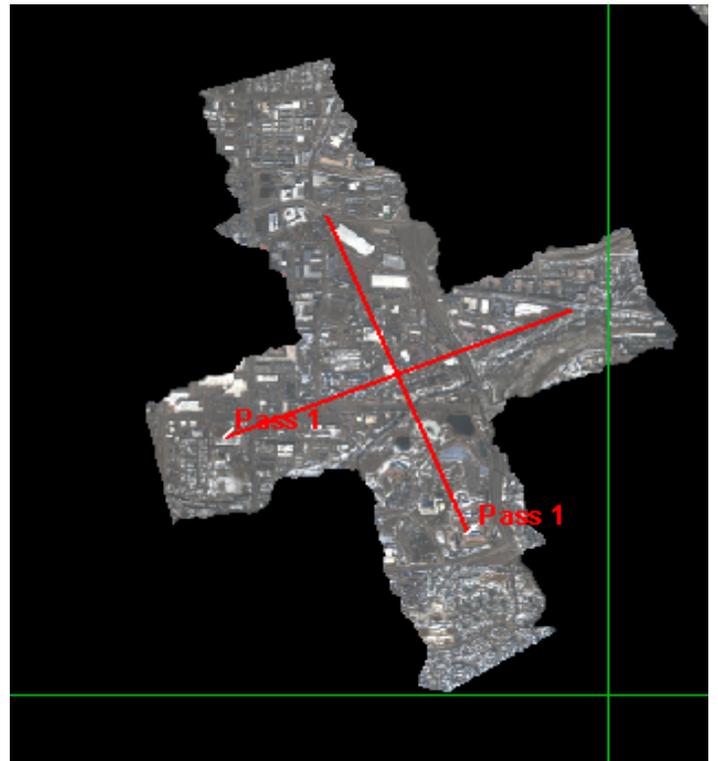
W10B LIDAR



W10B NIS



H10B LIDAR



H10B NIS

Pictures



A view of the flatirons during the H10B flight

## Daily Coverage

D00 H10B	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
Flown:	4							

## Cumulative Domain Coverage

### B10B

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: 0% (0/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

### H10B

1	2	3	4
---	---	---	---

Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 100% (4/4)

### N10D

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															

Flown: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 0% (0/26)

### O10A

1	2
---	---

Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

### R10A

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)

### W10B

1	2
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Flown: 100% (2/2)

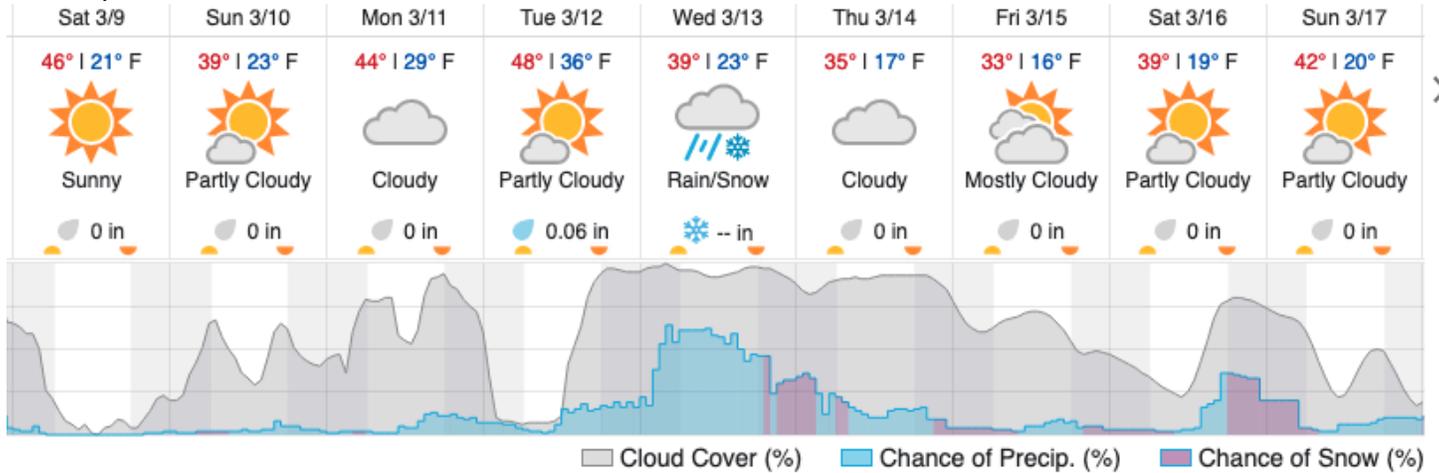
Green: 0% (0/2)

Yellow: 0% (0/2)

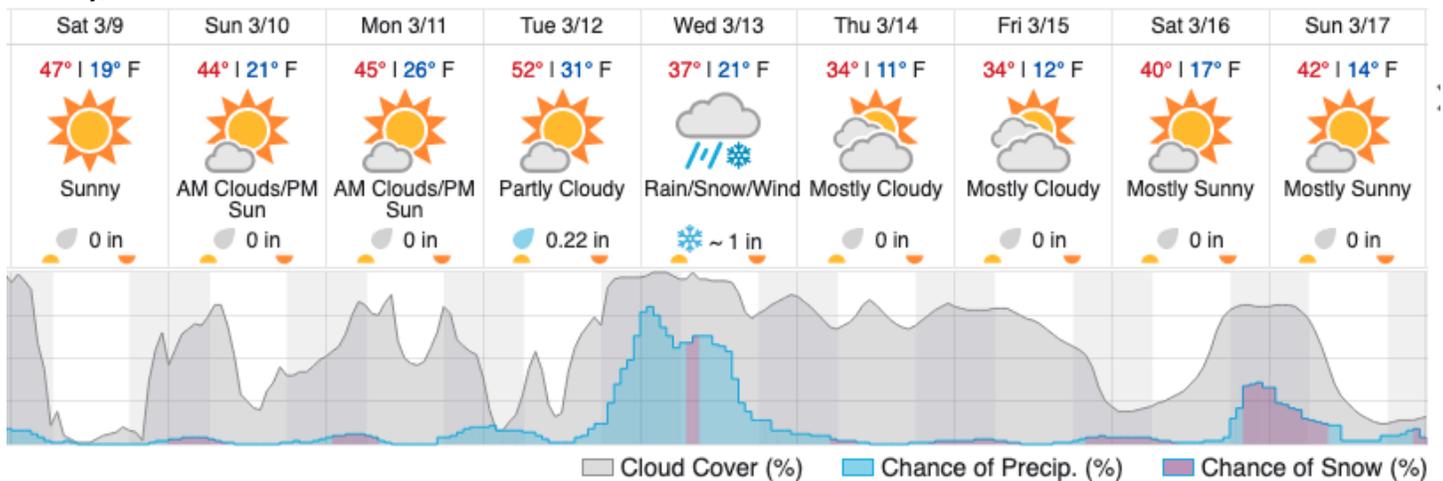
Red: 100% (2/2)

## Weather Forecast

### Boulder, CO



### Greeley, CO



## Flight Collection Plan for 09 March 2019

Flyority 1

Collection Area: Radiometric Calibration - Table Mountain

Flight Plan Name: D10\_R10A\_Radiometric\_Calibration\_Table\_Mountain\_v1.pln

On Station Time: 1140 Local / 1740 UTC

Flyority 2

Collection Area: Boresight Calibration – Geo-calibration – Greeley, CO

Flight Plan Name: D10\_B10B\_Greeley\_Boresight\_Geocalibration\_Plan\_v8.pln

On Station Time: 1020 Local / 1620 UTC

Crew: **Lidar:**Robb Walker - **NIS** Abe Morrison – **Ground:** Nick Marusich **Trainer:** Cameron Chapman