



October 19, 2018 Payload 2 Daily Flight Report



**Date:** 2018-10-19

**Flight Campaign ID:** 2018\_P2C1

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

**Domain:** 00

**Sites Flown:** O10A (NIS Offset), R10A (Table Mountain Radiometric Calibration)

**Days left in Domain:** 2

**Report Author:** Mitch Haynes

**Flight Crew:** Mitch Haynes, Robb Walker

**Flight Hours:** 0:32+0:28 +0:18+0:18+0:22+0:26= 2:24

**Ground/GPS:** Matt Devoe

**Hours until maintenance:** 48.22

**Pilots:** Ross Rice, Mike Francis

**Additional Personnel:** David Hulslander, Nick Marusich

**GPS Instruments:** 03 - FBO\_KBDU

**Summary**

Beautiful day in Boulder allowed the crew to complete both the Radiometric Calibration flight over Table Mountain and the NIS Offset flight(s) under clear, green conditions. Assuming extraction and QAQC from the past days of calibration flights come back position, this will conclude AOP Flights for the season.

**Concerns**

- NIS2 beginning to display similar false camber pressure readings as NIS3. This was confirmed by a quick vacuum chamber pump session this morning.
- HTK2 continues to be out of commission. All calibration flights are in the process of being extracted on various spare hotel kits by Andrew.
- Spectrometer data from yesterday's Boresight Geo-Calibration flight over Greeley appeared corrupted during extraction. Andrew worked to manually correct the corrupted files and is re-running the extraction and QAQC. Tristian will make a call tonight on whether the Geo-Cal flight will need to be re-flown tomorrow.

**Comments**

None

**Daily Coverage**

D00   R10A	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓		✓	NC
	2				✓		✓	NC
	3				✓		✓	NC
	4				✓		✓	NC
	5				✓		✓	NC
Flown:	5							
D00   O10A	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓		✓	NC
	2				✓		✓	NC
	1				✓		✓	NC
	2				✓		✓	NC

	1				✓		✓	NC
	2				✓		✓	NC
	1				✓		✓	NC
	2				✓		✓	NC
	1				✓		✓	NC
	2				✓		✓	NC
Flown:	10							

**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: 100% (20/20)  
 Green: 55% (11/20)  
 Yellow: 45% (9/20)  
 Red: 0% (0/20)

**H10B**

1	2	3	4
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Flown: 100% (4/4)  
 Green: 0% (0/4)  
 Yellow: 0% (0/4)  
 Red: 100% (4/4)

**N10C**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (14/14)  
 Green: 107% (15/14)  
 Yellow: 100% (14/14)  
 Red: 0% (0/14)

**O10A**

1	2	1	2	1	2	1	2	1	2
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Flown: 100% (10/10)  
 Green: 100% (20/10)  
 Yellow: 0% (0/10)  
 Red: 0% (0/10)

**R10A**

1	2	3	4	5
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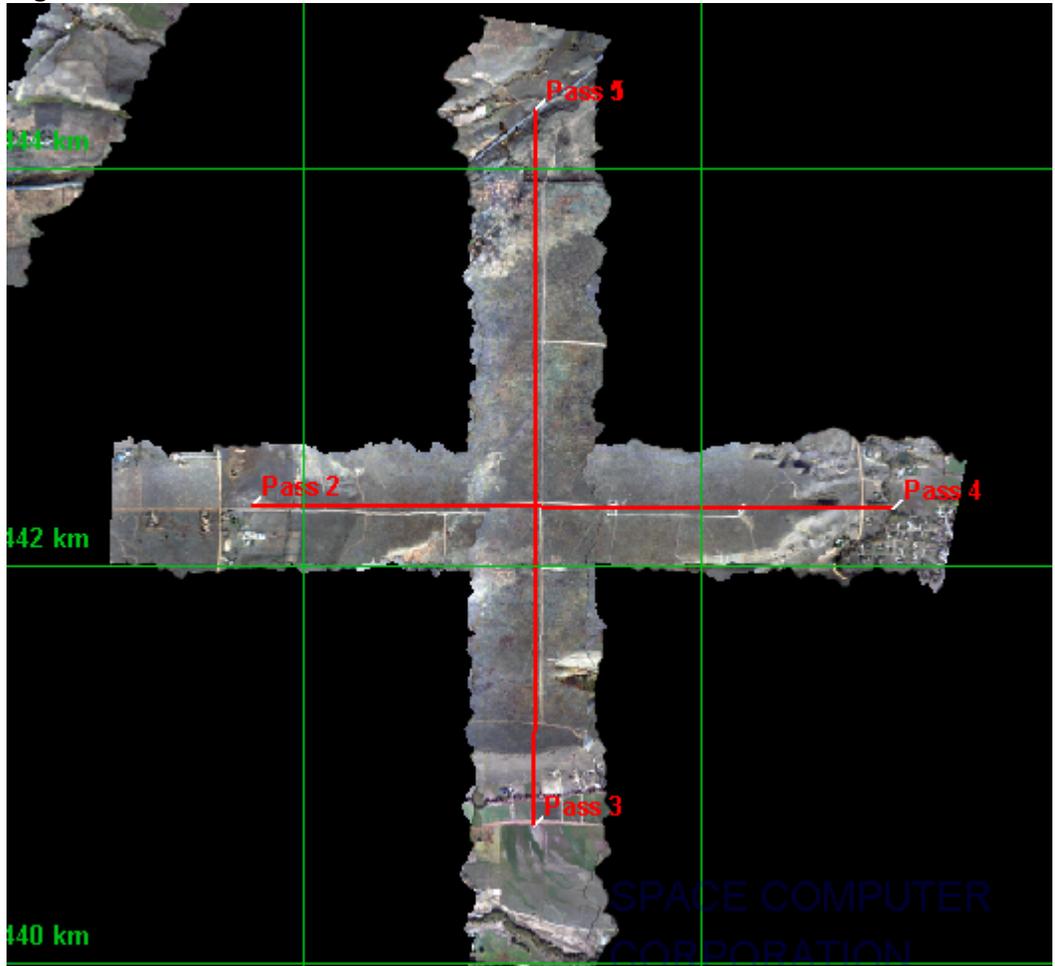
Flown: 100% (5/5)  
 Green: 100% (5/5)  
 Yellow: 0% (0/5)  
 Red: 0% (0/5)

**W10B**

1	2
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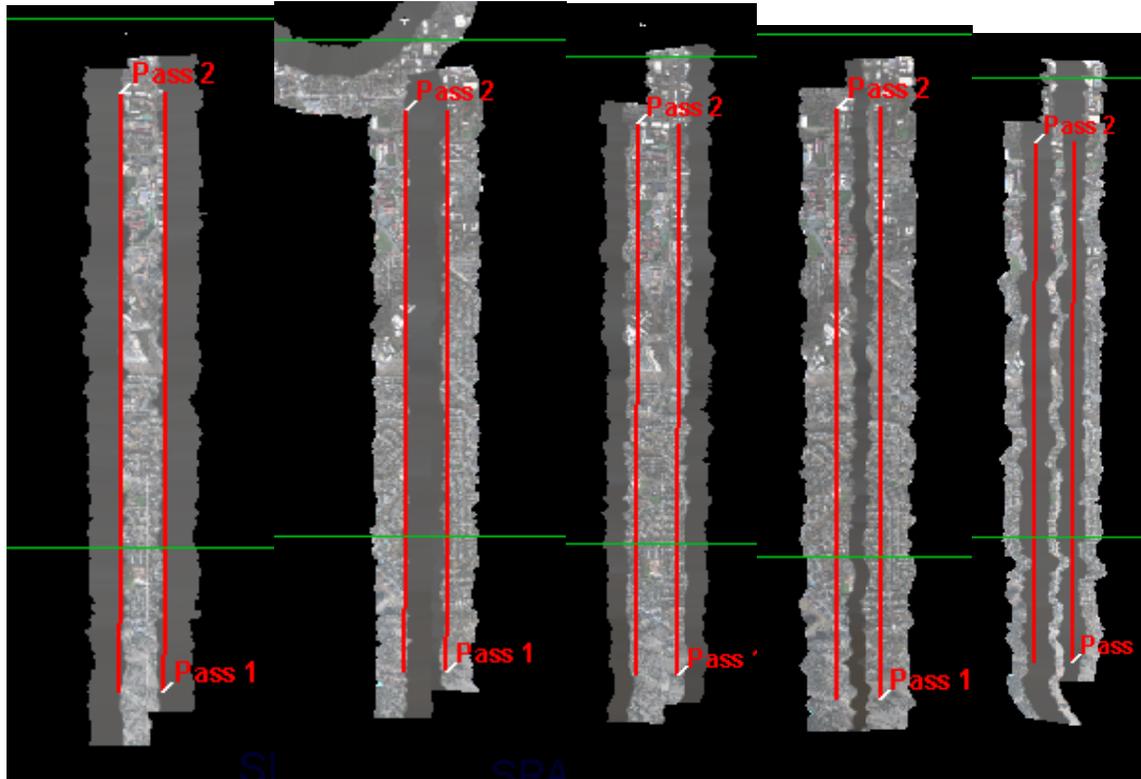
Flown: 100% (2/2)  
 Green: 0% (0/2)  
 Yellow: 0% (0/2)  
 Red: 100% (2/2)

# Flight Screenshots

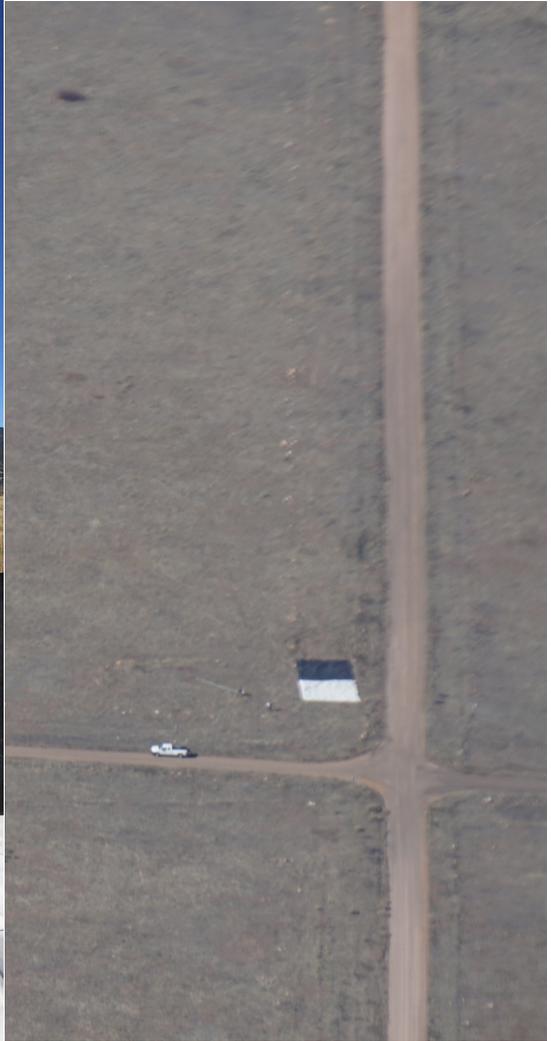


Above: NIS Screenshot over Table Mountain

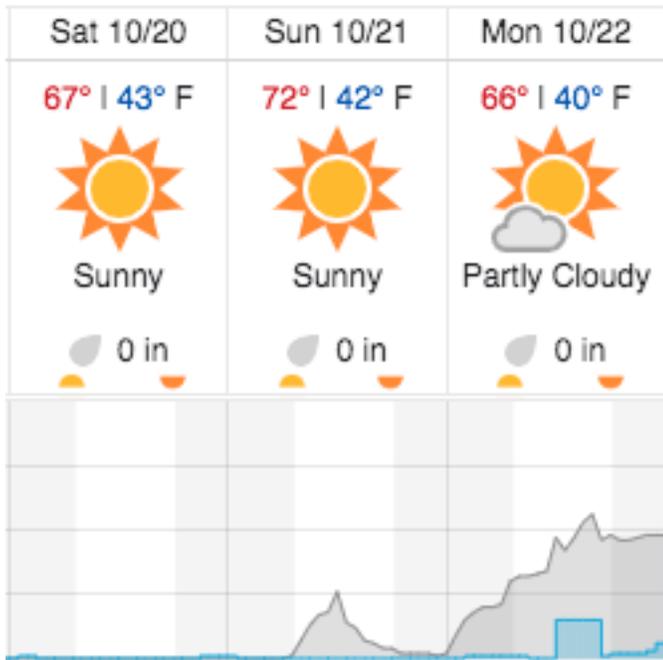
Below: NIS Screenshots from the 5 NIS Offset configurations



Pictures



## Weather Forecast



### Flight Collection Plan for 20-21 October 2018

If Needed: Re-Fly

Collection Area: **Boresight Calibration Geo-Calibration, Greeley CO (B10B)**

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

Crew: Robb Walker, Mitch Haynes, Matt DeVoe

### Flight Collection Plan for 22 October 2018

Uninstall payload, return Otter to Grand Junction