



September 12, 2019 Payload 1 Daily Flight Report



Date: 2019-09-12

Flight Campaign ID: 2019_P1C1

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

Domain: 00

Sites Flown: B10B (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 500m), R10A (Table Mountain Radiometric Calibration), O10A (NIS Offset Flight)

Days left in Domain: 3

Report Author: Elissa Barris

Flight Crew: John Adler, Elissa Barris

Flight Hours: 02:47

Ground/GPS: Nick Marusich, Matt DeVoe

Hours until maintenance: 19.75

Pilots: Wesley Wyatt, Chad Evans

Additional Personnel: None

GPS Instruments: 00 - CORS, 01 - ARIK, 02 - ABBY, 00 - CU Boulder

Summary

This morning green sky conditions allowed for the completion of both the Greeley boresight calibration (B10B) and the Table Mountain radiometric calibration (R10A). Favorable weather conditions persisted into the afternoon, and the crew also completed the NIS offset flights (O10A). Pending successful data extraction and QA, this concludes calibration flights for Payload 1.

Concerns

None

Comments

None

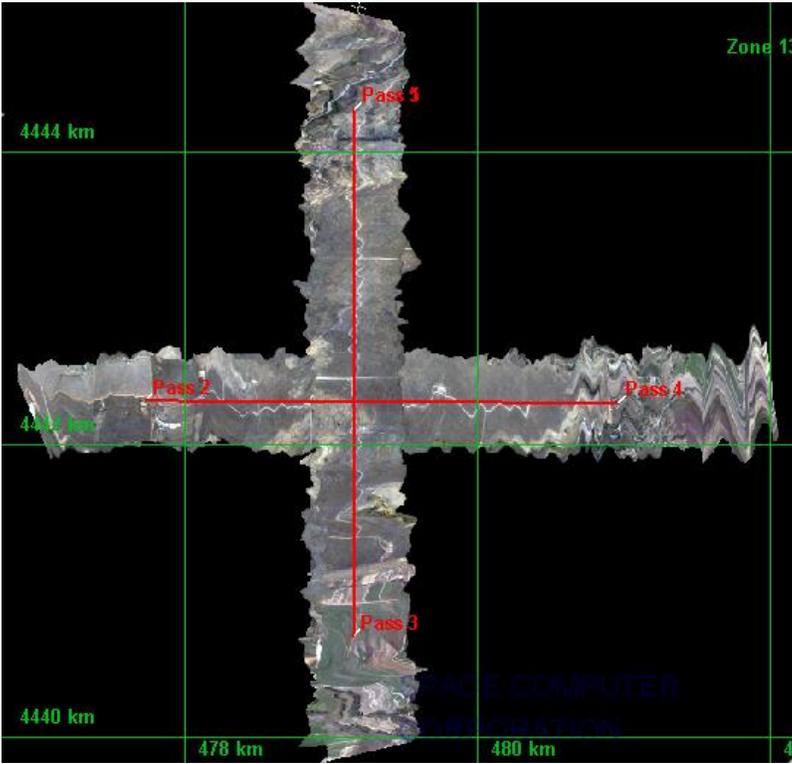
Flight Screenshots



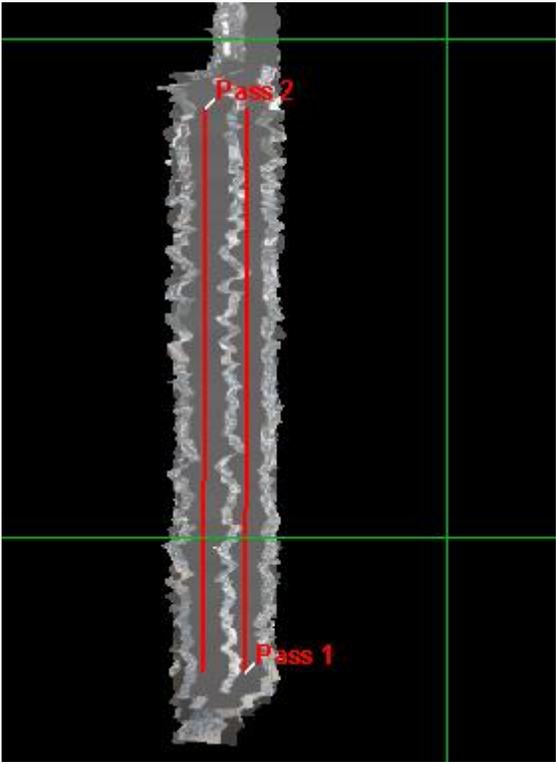
Lidar B10B



NIS B10B



NIS R10A



NIS O10A

Pictures



The Twin Otter taking off for one of five NIS offset flights under blue skies.

Daily Coverage

D00 B10B	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
Flown:	20							

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

D00 O10A	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓		✓	NLC
	2				✓		✓	NLC
	1				✓		✓	NLC
	2				✓		✓	NLC
	1				✓		✓	NLC
	2				✓		✓	NLC
	1				✓		✓	NLC
	2				✓		✓	NLC
	1				✓		✓	NLC
	2				✓		✓	NLC
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: 100% (20/20)

Yellow: 100% (20/20)

Red: 0% (0/20)

H10B

1	2	3	4
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Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 100% (4/4)

Red: 100% (4/4)

O10A

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 500% (10/2)

Red: 0% (0/2)

R10B

1	2	3	4	5
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Flown: 100% (5/5)

Green: 200% (10/5)

Yellow: 100% (5/5)

Red: 0% (0/5)

W10B

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 200% (4/2)

N10C

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (14/14)

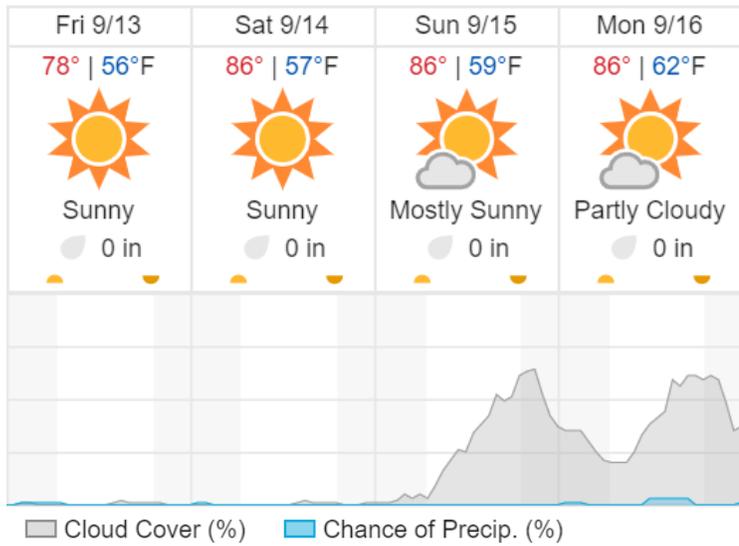
Green: 0% (0/14)

Yellow: 0% (0/14)

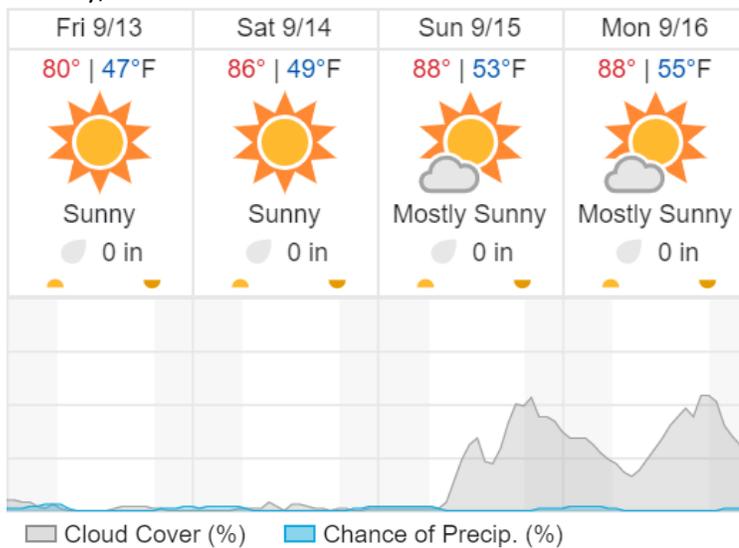
Red: 200% (28/14)

Weather Forecast

Boulder, CO



Greeley, CO



Flight Collection Plan for 13 September 2019

No flights planned; data extraction and verification to be completed.