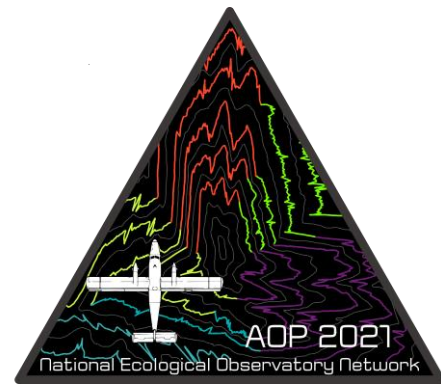




Payload 3 Daily Flight Report



Date: 2021-09-18
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N615AR

Domain: 10 (Central Plains)
Sites Flown: B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)
Days left in Domain: 0

Report Author: Nick Marusich
Lidar Operators: Nick Marusich **Flight Hours:** 02:26
Spectrometer Operators: Matt Devoe **Hours until maintenance:** 6.77
Pilots: Scott Hayward, Will Mathews **GPS Instruments:** AOP_KBDU, U-CHLL
Ground Crew: Abe Morrison

Summary

The Payload 3 crew was greeted with clear skies this morning to complete post-season calibration flights. The Greeley Boresight was completed under green but hazy conditions.

Barring any data issues, this completes the 2021 season for Payload 3.

Concerns

The NIS kml for 500m was not inline with the flight lines. John Musinsky sent a corrected version for extraction and was successful.

Comments

The payload will be removed Monday morning and flown back to Grand Junction CO.

Daily Coverage

Estimated Cloud Cover Key

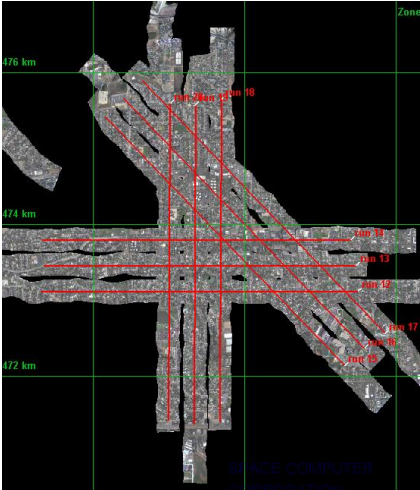
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D10|B10E

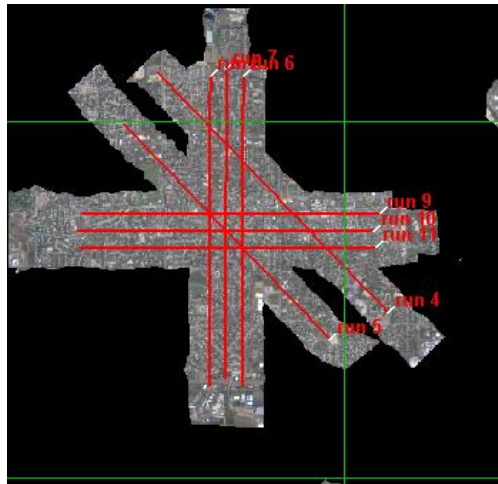
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

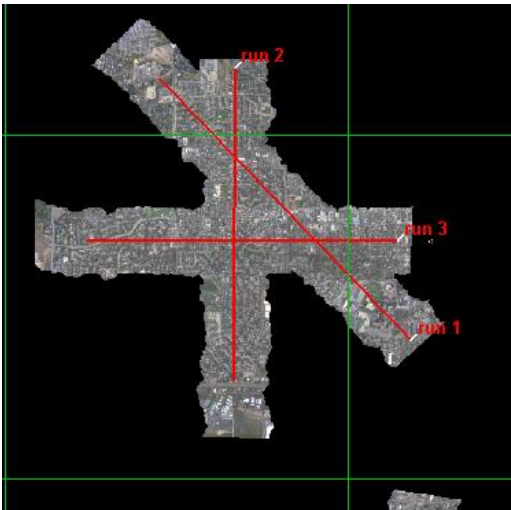
Flight Screenshots



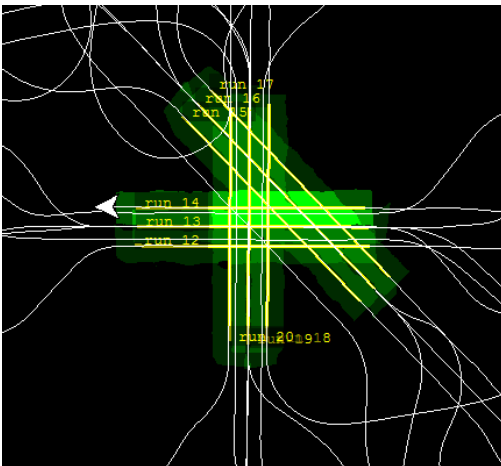
2021091814_NIS_B10E_500m



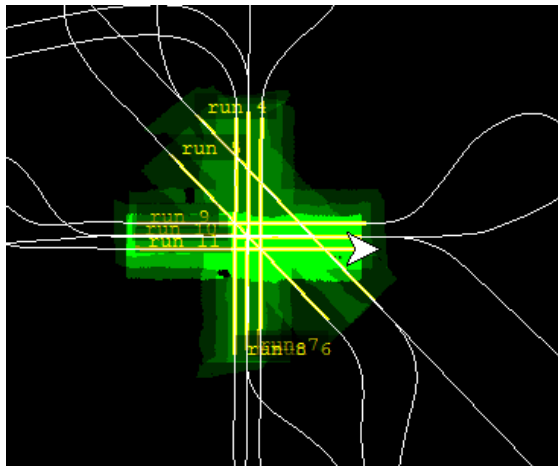
2021091814_NIS_B10E_1000m



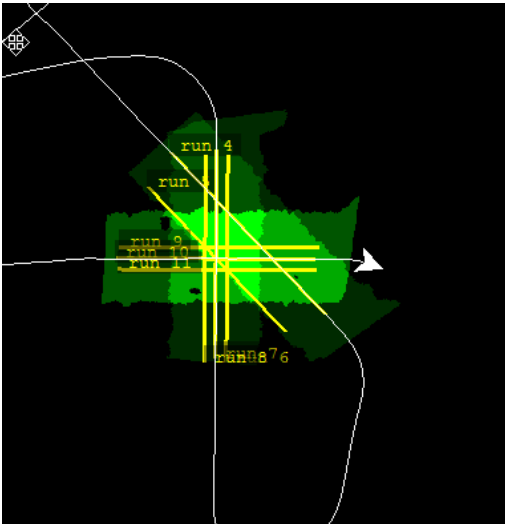
2021091814_NIS_B10E_1500m



2021091814_Lidar_B10E_500m



2021091814_Lidar_B10E_1000m



2021091814_Lidar_B10E_1500m

Pictures

None.

Cumulative Domain Coverage

D10|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

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)

D10|H10C (NEON Headquarters Lidar Test - Riegl)

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

Green: 100% (4/4)

Yellow: 0% (0/4)

Red: 0% (0/4)

D10|N10D (Nominal Runway at KBDU - Riegl)

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												

Flown: 86% (24/28)

Green: 0% (0/28)

Yellow: 86% (24/28)

Red: 0% (0/28)

D10|O10B (NIS Offset - Riegl)

1	2
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Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

D10|R10C (Table Mountain Radiometric Calibration - Riegl)

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)

D10|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)