

Payload 2 Daily Flight Report



Date: 2025-05-14

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 00 (Training & Calibration)

Sites Flown: R10C (Table Mountain Radiometric Calibration - Riegl)

Days left in Domain: 7

Report Author: Matt

Lidar Operators: Matt Flight Hours: 01:10

Spectrometer Operators: Nick Hours until maintenance: 108.33 **Pilots**: Vince, Mac **GPS Instruments**: AOP_KBDU

Summary

The crew completed two iterations of the Table Mountain Radiometric Calibration flight before clouds moved in along the front range.

Comments

- -The NIS Geopaint displayed the aircraft in its correct orientation.
- -Alyssa completed her first training flight with AOP.

Concerns

None

Daily Coverage

Estimated Cloud Cover Key

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

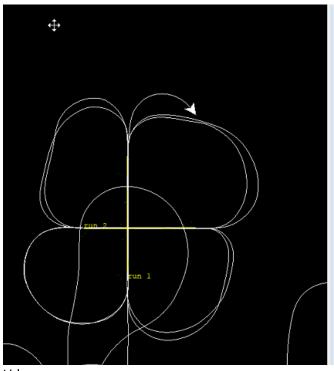
Solar Angle Less Than 40 degrees: (*)

D00|R10C

Line #	1	2	3	4	5
Lidar	√	\	\	\	\
Spectrometer	✓	√	✓	✓	✓
Camera	✓	√	✓	✓	✓
Cloud Cover					

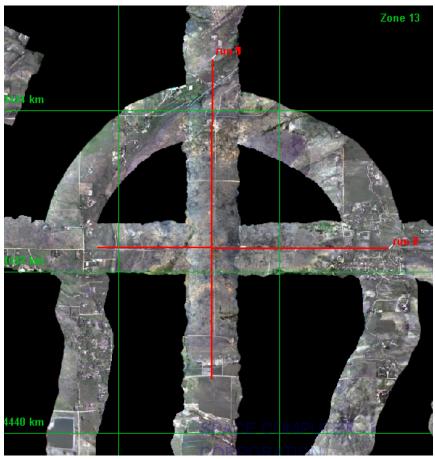
Total number of lines flown: 5

Flight Screenshots





Lidar Camera



NIS

Pictures



Table Mountain with Calibration tarps (SW corner of the center intersection)

Cumulative Domain Coverage

D00 | B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

1 2 3 4 5 6 7 8	9 10 11 12 1	3 14 15 16	17 18 19 20
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Flown: 100% (20/20) Green: 100% (20/20) Yellow: 0% (0/20) Red: 0% (0/20)

D00 | H10C (NEON Headquarters Lidar Test - Riegl)

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

* Flown within 35deg solar angle

D00 | N10D (Nominal Runway at KBDU - Riegl)

									<u> </u>										
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: 93% (26/28) Green: 0% (0/28) Yellow: 0% (0/28) Red: 93% (26/28)

* Flown within 35deg solar angle

^{*} Flown within 35deg solar angle

D00 | O10B (NIS Offset - Riegl)

1 2

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

D00 R10C (Table Mountain Radiometric Calibration - Riegl)

1 2 3 4 5

Flown: 100% (5/5) Green: 40% (2/5) Yellow: 60% (3/5) Red: 0% (0/5)

D00 | R10D (Boulder Airport Radiometric Calibration)

1 2 3 4 5

Flown: 100% (5/5) Green: 100% (5/5) Yellow: 0% (0/5) Red: 0% (0/5)

D00 V10C (Boulder City South)

bool 1200 (boulder city bouting																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22																		

Flown: 41% (9/22) Green: 36% (8/22) Yellow: 5% (1/22) Red: 0% (0/22)

D00 V10D (Boulder City West - 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															

Flown: 0% (0/25) Green: 0% (0/25) Yellow: 0% (0/25) Red: 0% (0/25)

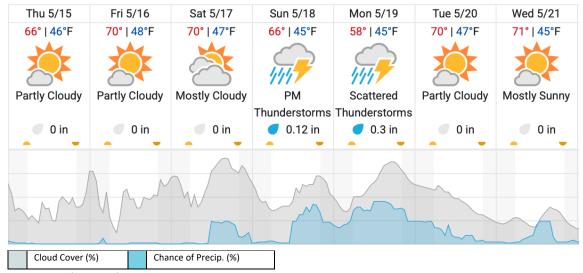
D00 | W10C (Wiggle Timing Test - Riegl)

1 2

Flown: 100% (2/2) Green: 50% (1/2) Yellow: 50% (1/2) Red: 0% (0/2)

^{*} Flown within 35deg solar angle

Weather Forecast



source: wunderground.com

Flight Collection Plan for 14 May 2025

Flyority 1

Collection Area: Table Mountain Radiometric Calibration Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

45° On-station Time: 1620 UTC / 1020 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: Boresight Calibration - Greeley, CO

Flight Plan Name: D10 B10E Boresight 1600m Q780 (RiAcquire name: D10 B10E Boresight Apx Q780)

30° On-station Time: 1450 UTC / 0850 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3

Collection Area: NEON HQ Lidar Validation Flight Plan Name: D10_H10C_HQ_val_v1_Q780

On-Station Time: Daylight – No solar angle restrictions.

Flyority 4

Collection Area: Black Forest

Flight Plan Name: D10_BLKF_Black_Forest_v6_VQ780 On-Station Time: Daylight – No solar angle restrictions.

Flyority 5

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

35° On-station Time: 1540 UTC / 0940 L

Crew: Nick (Lidar), Matt (NIS), Alyssa (In-training)