

Payload 2 Daily Flight Report



Date: 2025-04-27

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 10 (Central Plains)

Sites Flown: R10D (Boulder Airport Radiometric Calibration)

Days left in Domain: 24

Report Author: John

Lidar Operators: John **Flight Hours**: 01:41

Spectrometer Operators: Matt Hours until maintenance: 121.05 **Pilots**: Vince, Mac **GPS Instruments**: AOP_KBDU

Ground Crew: Nick

Summary

During today's mission, we were the second plane in a series of three NIS calibration flights over tarps set out at KBDU.

Concerns

None.

Comments

MS Access still not configured correctly. Lidar not showing swath patterns.

Daily Coverage

Estimated Cloud Cover Key

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

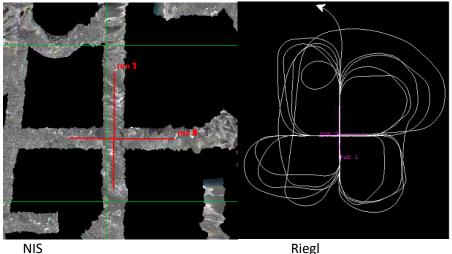
Solar Angle Less Than 40 degrees: (*)

D10 | R10D

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

Total number of lines flown: 5 * 3 times (15 total, the later lines were Yellow)

Flight Screenshots



Riegl

Cumulative Domain Coverage

D00 | 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: 0% (0/20) Green: 0% (0/20) Yellow: 0% (0/20) Red: 0% (0/20)

* Flown within 35deg solar angle

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)

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: 0% (0/28) Green: 0% (0/28) Yellow: 0% (0/28) Red: 0% (0/28)

* 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)

* Flown within 35deg solar angle

D00 | R10C (Table Mountain Radiometric Calibration - Riegl)

1 2 3 4 5

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

D00 | W10C (Wiggle Timing Test - Riegl)

1 2

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

D10 | ARIK (Arikaree River)

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	29	30	31	32	33	34	35							

Flown: 0% (0/33) Green: 0% (0/33) Yellow: 0% (0/33) Red: 0% (0/33)

D10 | 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)

D10 RMNP (Rocky Mountain National Park)

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	29	30	31	32	33	34	35	36	37	38	39	40	

Flown: 0% (0/39) Green: 0% (0/39) Yellow: 0% (0/39) Red: 0% (0/39)

D10 STER (Sterling Agricultural Site)

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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)

D10 V10C (Boulder City South)

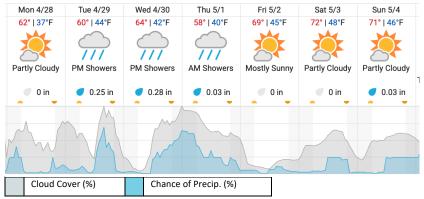
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ī	21	22																		

Flown: 0% (0/22) Green: 0% (0/22) Yellow: 0% (0/22) Red: 0% (0/22)

^{*} Flown within 35deg solar angle

Weather Forecast

Boulder, CO



source: wunderground.com

Flight Collection Plan for April 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: Nominal Runway Survey Flight Plan

Name: D10_N10D_Nominal_Rnwy_v8_Q780

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

Additional Considerations: Runway should not be wet or snow covered.

Flyority 4

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

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

Flyority 5

Collection Area: Wiggle Timing Test

Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780

40° On-station Time: 1550 UTC / 0950 L

Additional Considerations: Runway should not be wet, or snow covered.

Flyority 6

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

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

Crew: Matt (Lidar), John (NIS), Nick (Ground)