

Payload 2 Daily Flight Report



Date: 2025-05-19

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 00 (Training & Calibration)

Sites Flown: BLKF (Black Forest Waveform Range Test)

Days left in Domain: 2

Report Author: Cameron

Lidar Operators: Cameron Flight Hours: 01:21

Spectrometer Operators: Alyssa **Hours until maintenance**: 104.73 **Pilots**: Vince, Tim **GPS Instruments**: AOP_KBDU

Adt'l Flight Crew: Matt Ground Crew: Nick

Summary

Today's training flight at the Black Forest site was curtailed due to a low cloud deck and snow in the vicinity. Despite these conditions, we managed to collect one line of data at the intended flight altitude before the pilots were required to descend significantly below a suitable collection altitude.

Concerns

 Addressing a potential space constraint with the D11 FBO. John is working with them to ensure hangar requirements are met.

Comments

- None

Daily Coverage

Estimated Cloud Cover Kev

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

Solar Angle Less Than 40 degrees: (*)

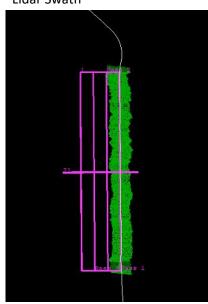
D00|BLKF

Line #	1
Lidar	✓
Spectrometer	√
Camera	√
Cloud Cover	

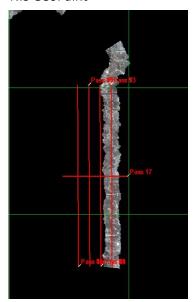
Total number of lines flown: 1

Flight Screenshots





NIS GeoPaint



Pictures

Captured on today's training mission SW of Castle Rock



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: 100% (20/20) Green: 100% (20/20) Yellow: 0% (0/20) Red: 0% (0/20)

D00|BLKF (Black Forest Waveform Range Test - Galaxy)

200 22th (Black Forest Waterorin Hange Fest Galaxy)																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21																			

Flown: 5% (1/21) Green: 0% (0/21) Yellow: 0% (0/21) Red: 5% (1/21)

D00 | H10C (NEON Headquarters Lidar Test - Riegl)

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

Green: 0% (0/4) Yellow: 0% (0/4) Red: 100% (4/4)

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

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)

^{*} Flown within 35deg solar angle

D00 V10C (Boulder City South)

		٠.																	
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)

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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)

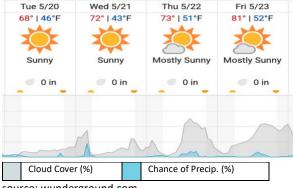
D00 | W10C (Wiggle Timing Test - Riegl)

1 2

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

Weather Forecast

Boulder CO



source: wunderground.com

Flight Collection Plan for 20 May 2025

Flyority 1

Collection Area: Black Forest

Flight Plan Name: D10_BLKF_Black_Forest_v6_VQ780

On-Station Time: 1520 UTC / 0920 L

Flyority 2

Collection Area: Boulder City Nominal Science Flight Flight Plan Name: D10_V10C_East/West_v13_VQ780 On-Station Time: Daylight – No solar angle restrictions.

Crew: Cam (Lidar), Alyssa (NIS), Matt (Instructor), Nick (Ground)

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