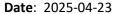


Payload 3 Daily Flight Report



Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration) **Sites Flown**: V10C (Boulder City South)

Days left in Domain: 7

Report Author: Nick

Lidar Operators: Nick Flight Hours: 00:41

Spectrometer Operators: Mitch **Hours until maintenance**: 115.3 **Pilots**: Justin, Jeff **GPS Instruments**: AOP_KBDU

Ground Crew: Cam

Summary

The crew completed 4 training lines of the Boulder City South flight plan. Data will not be processed.

Concerns

The DCC crashed several times during the flight and will be replaced during downtime today.

The generators were adjusted while the TOIL technician was in for P2 installation. A short test flight was conducted to verify generator functions under payload load.

ASO training for P3 concluded with this flight. RadCal calibration flight is desired to be repeated in better weather conditions before departing to D03 on May 1st.

Comments

Nick completed Lidar recertification

Daily Coverage

Estimated Cloud Cover Key

Lothinated cloud cover hey										
Green:	Yellow:	Red:								
0-10%	11-50%	>50%								

Solar Angle Less Than 40 degrees: (*)

D00 | V10C

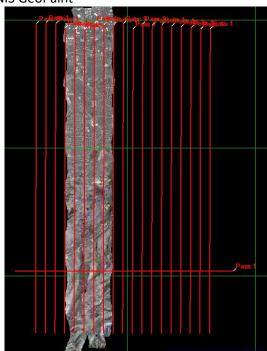
Line #	12	13	14	15
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	\
Cloud Cover				

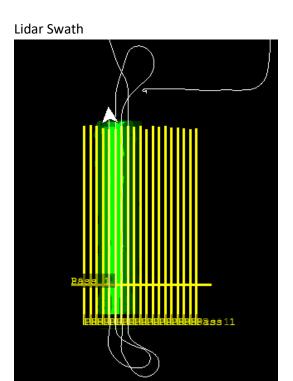
Total number of lines flown: 4



Flight Screenshots

NIS GeoPaint





Pictures

None

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
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Flown: 100% (20/20) Green: 0% (0/20) Yellow: 85% (17/20) Red: 15% (3/20)

D00 | H10C (NEON Headquarters Lidar Test - Riegl)

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

Red: 0% (0/4)

* Flown within 35deg solar angle

D00	N10[) (No	mina	l Rur	ıway	at KB	DU -	Rie	gl)										
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: 7% (2/28) Yellow: 68% (19/28) Red: 11% (3/28)

^{*} 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		
TI.	·~· (20/ /	\/E\			

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

D00 | R10D (Boulder Airport Radiometric Calibration)

1 2 3 4 5

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

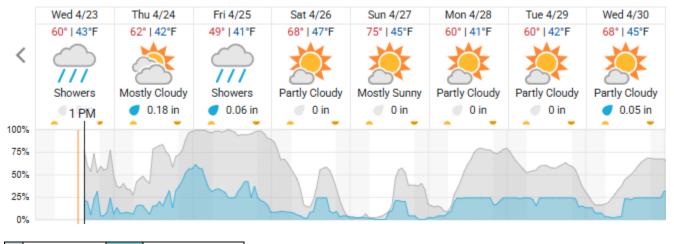
D00 | W10C (Wiggle Timing Test - Riegl)

1 2

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

Weather Forecast

Boulder, CO



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

^{*} Flown within 35deg solar angle

Flight Collection Plan for April 24, 2025

Flyority 1

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

45° On-station Time: 1640 UTC / 1040 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

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

Crew: Cam (Lidar), Mike (NIS), Nick (Ground)