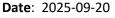


Payload 3 Daily Flight Report



Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration)

Sites Flown: N10D (Nominal Runway at KBDU - Riegl)

Days left in Domain: 3

Report Author: Mitch

Lidar Operators: Mitch Flight Hours: 01:51

Spectrometer Operators: Matt Hours until maintenance: 38.90 **Pilots**: Vince, Greg **GPS Instruments**: AOP_KBDU

Summary

Crew mobilized to the airport early this morning in order to complete the nominal runway flight plan before weekend air traffic picked up. All 24 lines were collected under red conditions.

Concerns

The thermocouple on the forward cryocooler began erroneously reading temperatures of +500°C last night. This was obviously an incorrect reading as the cryocooler had not melted under extreme temperatures. The thermocouple will be replaced in the offseason.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D00|N10D

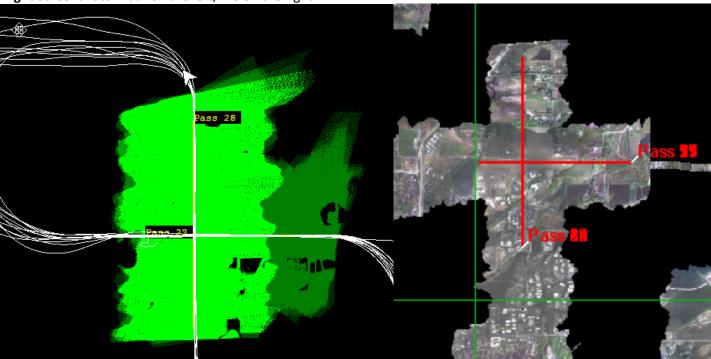
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	/	√	/	√	\	\	/	^	\	✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓
Spectrometer	√	✓	√	✓	√	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	√	✓	√	✓	√	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

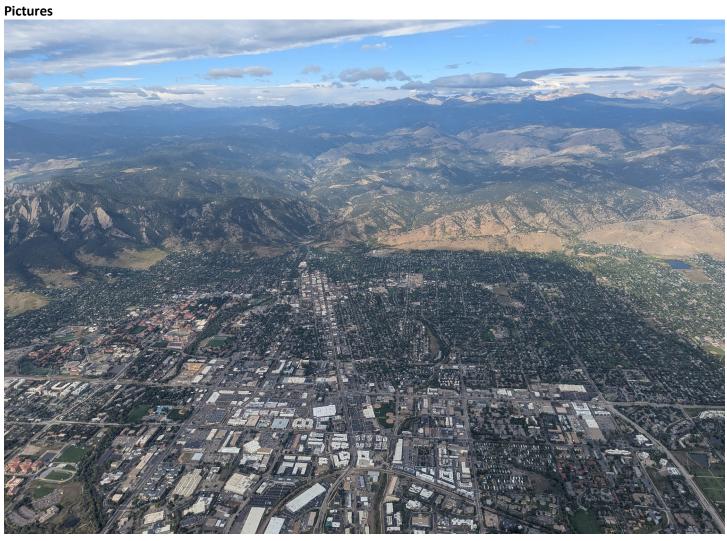
Line #	21	22	23	24
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 24



Flight Screenshots: Lidar on the left, NIS on the right.





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

D00 | H10C (NEON Headquarters Lidar Test - Riegl)

1 2 3 4

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

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: 86% (24/28) Green: 0% (0/28) Yellow: 0% (0/28) Red: 86% (24/28)

D00 | O10B (NIS Offset - Riegl)

1 2

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

D00 | 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 | W10C (Wiggle Timing Test - Riegl)

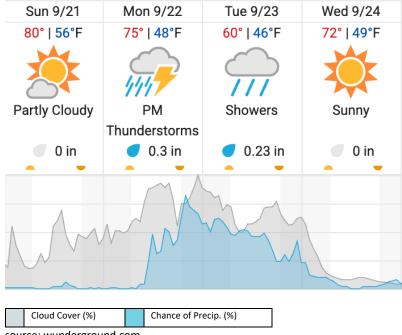
1 2

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

^{*} Flown within 35deg solar angle

Weather Forecast

Boulder, CO



source: wunderground.com

Flight Collection Plan for 21 September 2025

No flights currently planned.

Crew: Matt, Mitch