



neon
Operated by Battelle

Payload 3 Daily Flight Report



Date: 2025-04-21

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: 9

Report Author: Mike

Lidar Operators: Mike

Flight Hours: 00:40

Spectrometer Operators: Elissa

Hours until maintenance: 115.57

Pilots: Justin, Jeff

GPS Instruments: AOP_KBDU

Ground Crew: John

Summary

Conditions weren't quite good enough for a repeat radiometric, so instead the crew completed one training / recertification flight in yellow cloud conditions.

Concerns

None

Comments

- Mike completed Lidar recertification
- Elissa completed NIS recertification

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

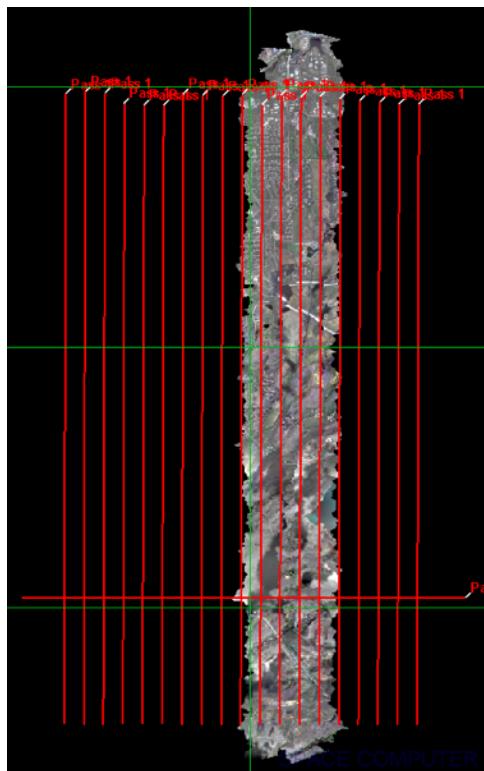
D00|V10C

Line #	6	7	8	9
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover	Yellow	Yellow	Yellow	Yellow

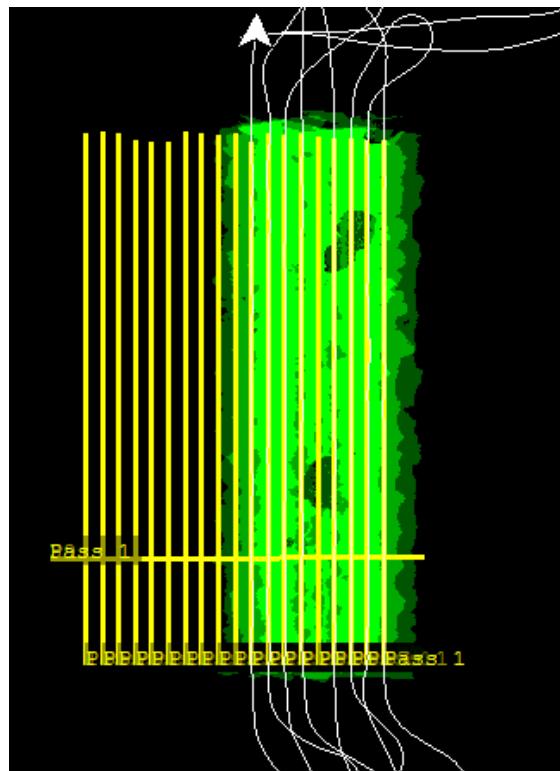
Total number of lines flown: 4

Flight Screenshots

NIS GeoPaint

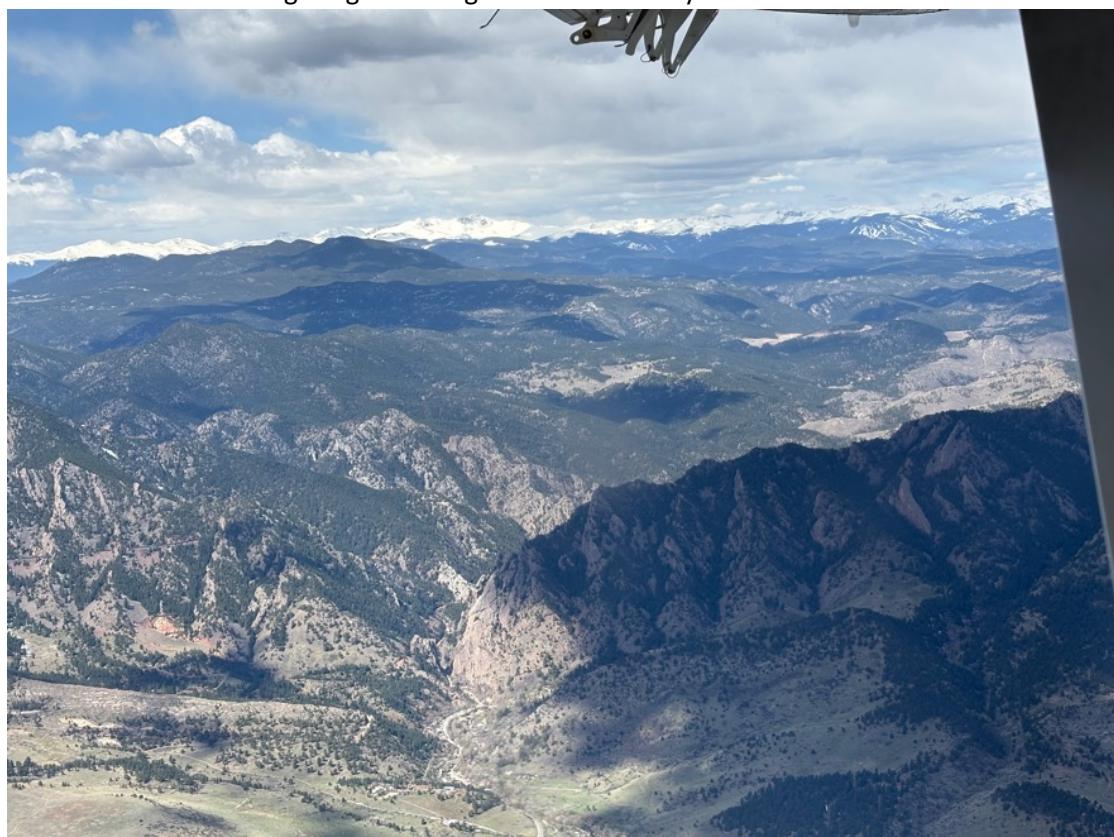


Lidar Swath (cumulative)



Pictures

Photo from this morning's flight looking at El Dorado Canyon and the continental divide in the distance.



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)

* Flown within 35deg solar angle

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

Green: 0% (0/4)

Yellow: 100% (4/4)

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: 86% (24/28)

Green: 7% (2/28)

Yellow: 68% (19/28)

Red: 11% (3/28)

* Flown within 35deg solar angle

D00|O10B (NIS Offset - Riegl)

1	2
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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
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Flown: 0% (0/5)

Green: 0% (0/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

* Flown within 35deg solar angle

D00|R10D (Boulder Airport Radiometric Calibration)

1	2	3	4	5
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Flown: 100% (5/5)

Green: 40% (2/5)

Yellow: 60% (3/5)

Red: 0% (0/5)

* Flown within 35deg solar angle

D00|V10C (Boulder City South)

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	29											

Flown: 14% (4/29)

Green: 0% (0/29)

Yellow: 14% (4/29)

Red: 0% (0/29)

D00|W10C (Wiggle Timing Test - Rieg)

1 2

Flown: 100% (2/2)

Green: 0% (0/2)

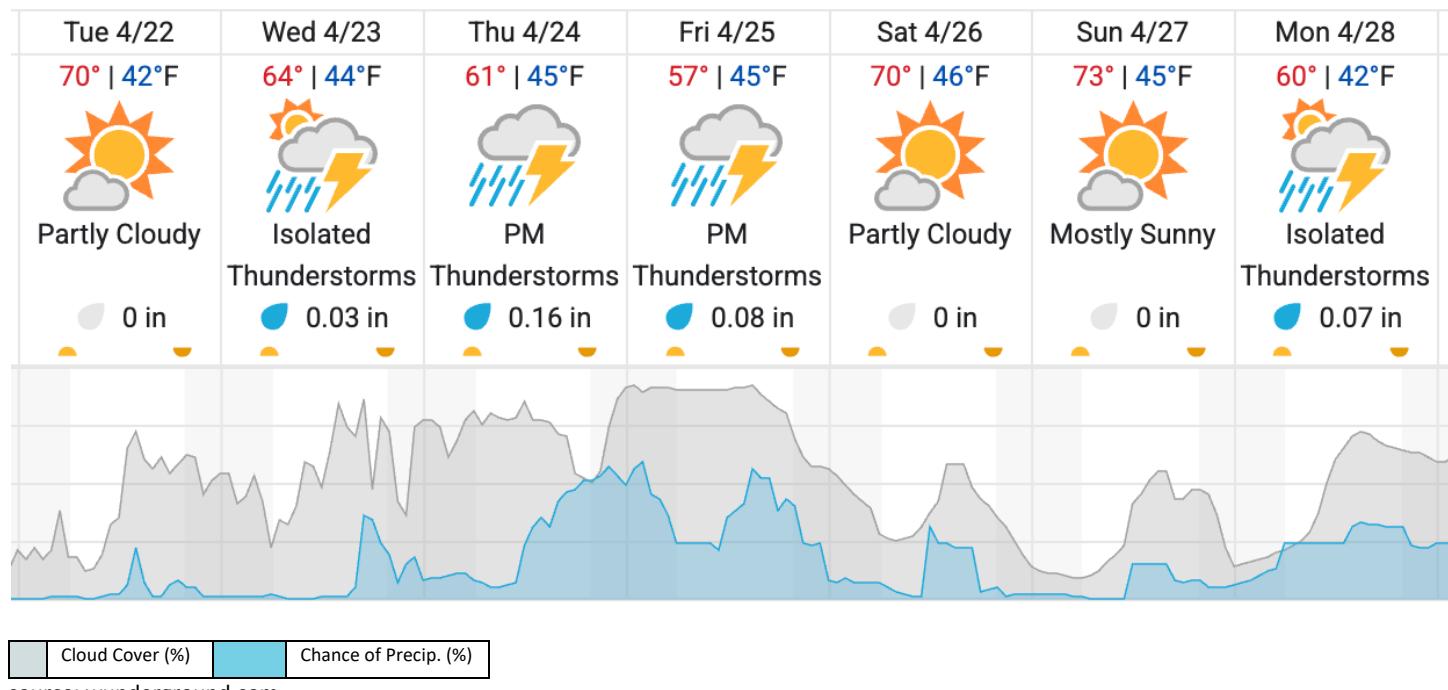
Yellow: 100% (2/2)

Red: 0% (0/2)

* Flown within 35deg solar angle

Weather Forecast

Boulder, CO



Flight Collection Plan for April 22, 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: Matt (Lidar), Nick (NIS), Cam/Mitch/John/Mike/Elissa (Ground)