



Payload 3 Daily Flight Report



Date: 2026-09-16

Flight Campaign ID: P3C1

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

Aircraft: N537AR

Domain: 00 (Training & Calibration)

Sites Flown: B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

Days left in Domain: 4

Report Author: Mike

Lidar Operators: Mike

Spectrometer Operators: Alyssa

Pilots: Jeff, Landon

Ground Crew: John

Flight Hours: 02:09

Hours until maintenance: 79.73

GPS Instruments: AOP_KBDU, S-COGY

Summary

With a poor upcoming forecast, crew took advantage of today's weather to get airborne. Clouds remained high and thin enough for sufficiently illuminated conditions required to complete the boresight calibration flight.

Concerns

None

Comments

Approval was granted to fly CPER, but only under clear conditions.

Daily Coverage

Estimated Cloud Cover Key

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

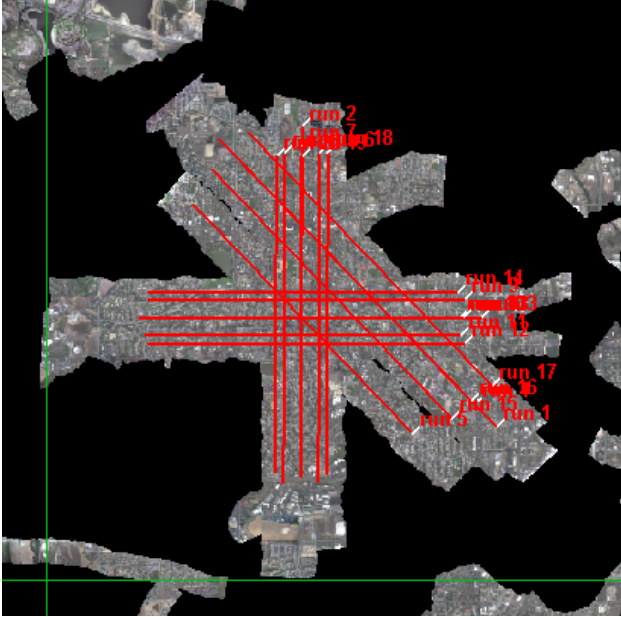
Solar Angle Less Than 40 degrees: (*)

D00|B10E

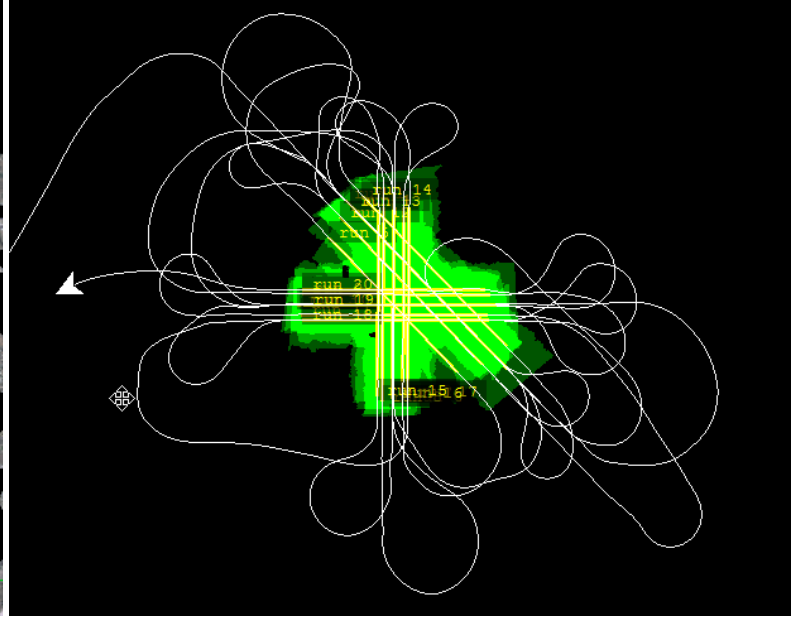
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



NIS



Lidar

Pictures



Looking south from Greeley towards Denver and the Front Range

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: 15% (3/20)

Red: 85% (17/20)

* 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: 0% (0/4)

Red: 100% (4/4)

* 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: 0% (0/28)

Yellow: 0% (0/28)

Red: 86% (24/28)

* Flown within 35deg solar angle

D00|R10D (Boulder Airport Radiometric Calibration)

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|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

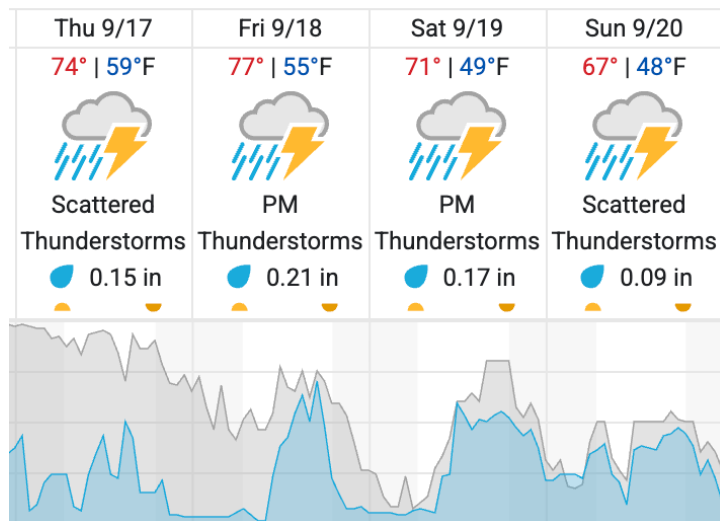
Yellow: 0% (0/2)

Red: 100% (2/2)

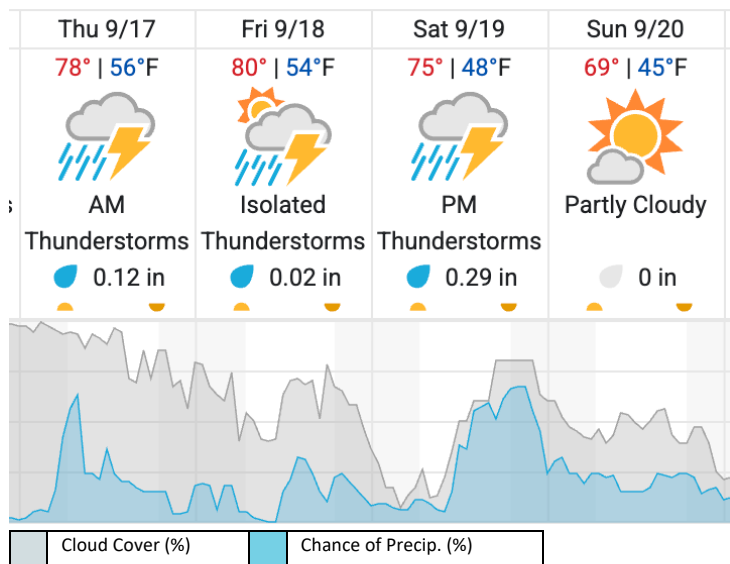
* Flown within 35deg solar angle

Weather Forecast

Boulder, CO (R10D)



Nunn, CO (CPER)



source: wunderground.com

Flight Collection Plan for September 17 2026

Flyority 1

Collection Area: Boulder Airport Radiometric Calibration

Flight Plan Name: D10_R10D_Rad_Cal_KBDU

45o On-station Time: 1710 UTC / 1110 L

Additional Considerations: Ground should be dry

Flyority 2

Collection Area: Central Plains Ecological Range (CPER)

Name: D10_CPER_C1_P1.rpp

On-Station Time: 16:20 UTC / 10:20 L

***under green conditions only**

Crew: John (lidar), Mike (NIS), Others (Ground)