



Payload 3 Daily Flight Report



Date: 2026-09-21

Flight Campaign ID: P3C1

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

Aircraft: N537AR

Domain: 00 (Training & Calibration), 10 (Central Plains)

Sites Flown: CPER (Central Plains Ecological Range)

Days left in Domain: 0

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Mike

Pilots: Jeff, Landon

Ground Crew: Matt, Alyssa

Flight Hours: 01:23

Hours until maintenance: 78.35

GPS Instruments: AOP_CPER, AOP_KBDU

Summary

Last day of the 2026 flight season. While clouds were still present over Boulder preventing any potential rad cal flight this morning, the crew delayed deinstall by a couple hours to take to the sky one last time and squeeze out a couple green lines over the CPER airshed before building cumulus clouds forced an end to collect. Following conclusion of the flight, the payload was powered off and deinstalled, after which the Otter flew home to Grand Junction for the winter.

Concerns

None

Comments

HK5 played nice and both Midas disk bays worked properly during extraction of today's flight.

Daily Coverage

Estimated Cloud Cover Key

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

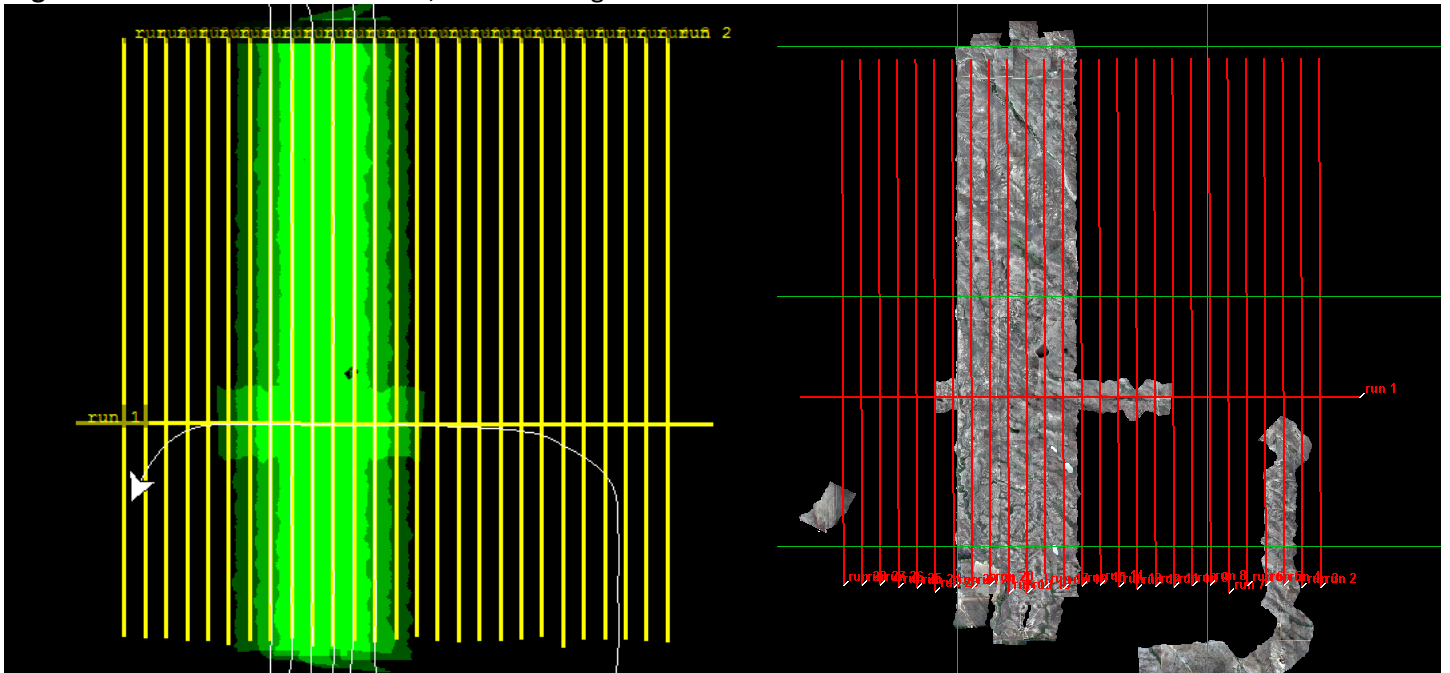
Solar Angle Less Than 40 degrees: (*)

D10|CPER

Line #	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover	Yellow	Green	Green	Green	Green	Green

Total number of lines flown: 6

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



Pictures: CPER with the building cumulus clouds to the west.





Above: After a rough first tow last week, Twin Otter newcomer Landon B Landin' redeemed himself and is unofficially certified on the tug. Congratulations, Landon!

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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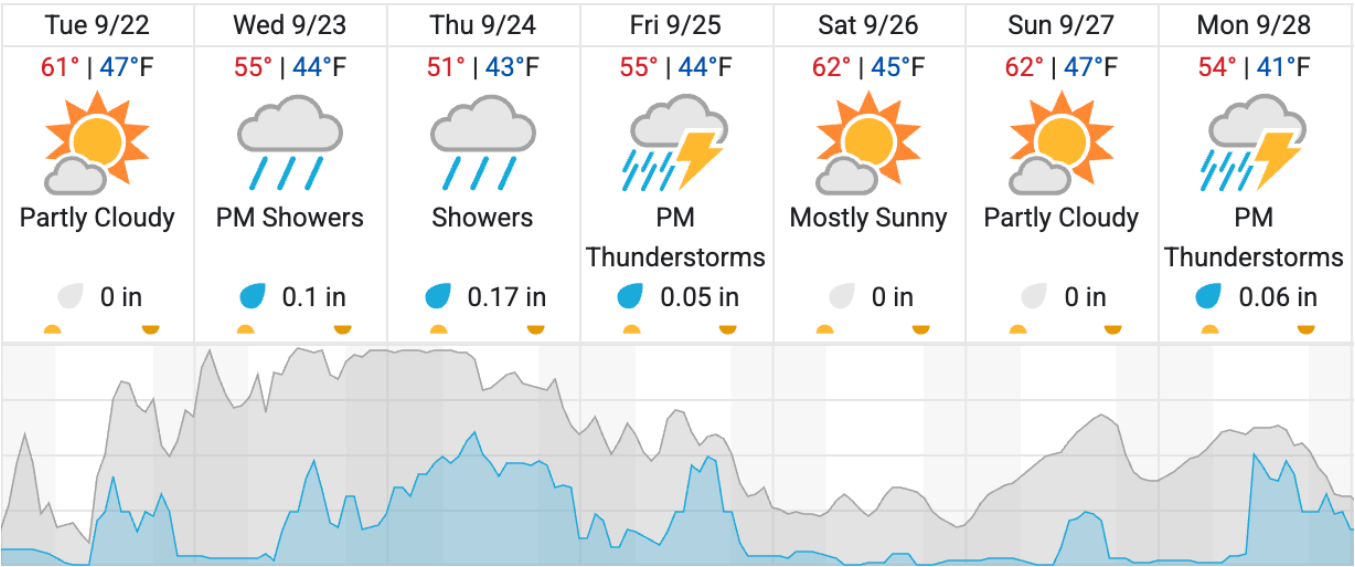
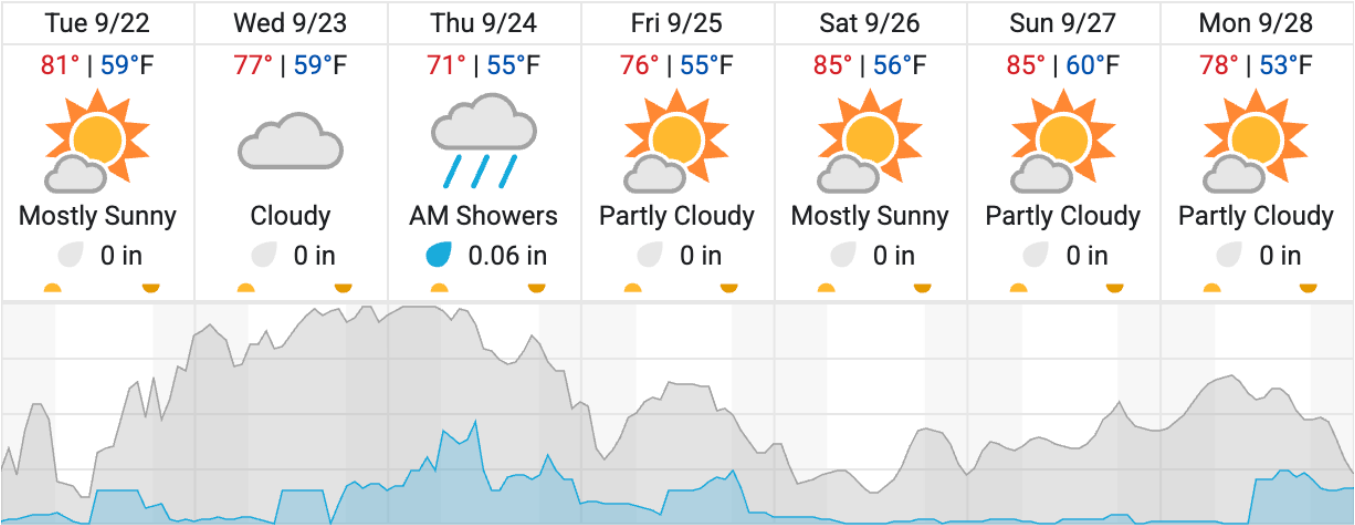
Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 100% (2/2)
* Flown within 35deg solar angle

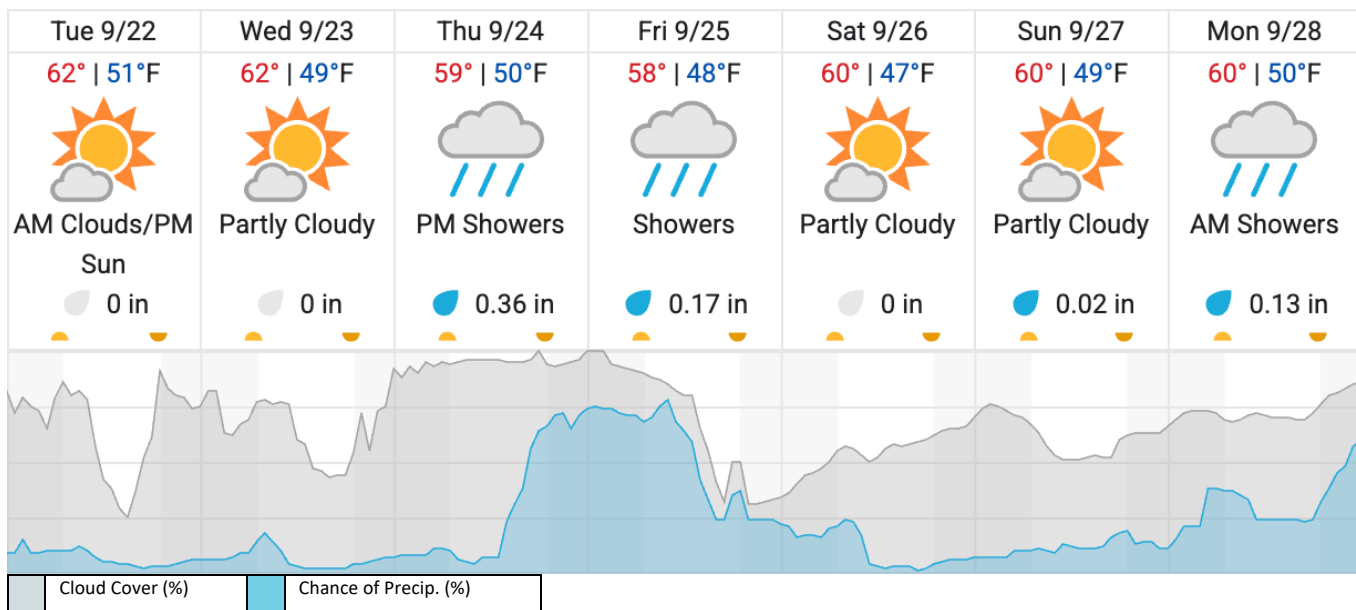
D10|CPER (Central Plains Ecological Range)

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: 25% (7/28)
Green: 18% (5/28)
Yellow: 7% (2/28)
Red: 0% (0/28)
* Flown within 35deg solar angle

Weather Forecast





source: wunderground.com

Flight Collection Plan for 2027

3 -> 7 -> 9 -> 2 -> 13

8 -> 15 -> 10 -> 17 -> 19 -> 14