



Payload 2 Daily Flight Report

Date: 2026-03-22
Flight Campaign ID: P2C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 00 (Training & Calibration)
Sites Flown: N10D (Nominal Runway at KBDU - Riegl VQ780_II S)
Days left in Domain: 12

Report Author: Mitch
Lidar Operators: Mitch **Flight Hours:** 01:11
Spectrometer Operators: Mike **Hours until maintenance:** 118.47
Pilots: Justin, Manning **GPS Instruments:** AOP_KBDU
Ground Crew: John, Elissa, Alyssa

Summary

Lower than expected cloud cover this morning had the flight crew holding throughout the morning, waiting for clouds to lift. Once they finally did, the remainder of the Nominal Runway flight plan was flown.

Concerns

None

Comments

Erroneous monopod & bipod thermal temperature readings were found to be from a disconnected connector whose screws failed. Thanks Mark for troubleshooting and finding the root cause yesterday.

Daily Coverage

Estimated Cloud Cover Key

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

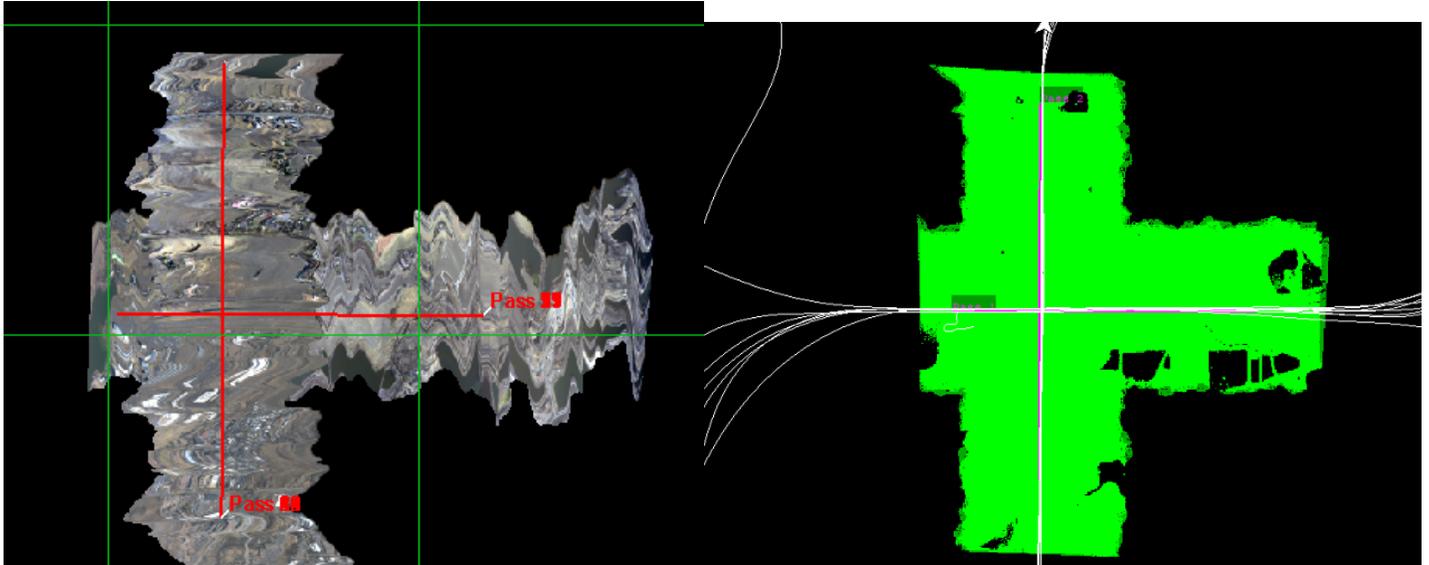
Solar Angle Less Than 40 degrees: (*)

D00|N10D

Line #	11	12	13	14	15	16	17	18	19	20	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 14

Flight Screenshots



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: 0% (0/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

* 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: 100% (4/4)

Yellow: 0% (0/4)

Red: 0% (0/4)

* Flown within 35deg solar angle

D00|N10D (Nominal Runway at KBDU - Riegl VQ780_II S)

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															

Flown: 100% (26/26)

Green: 0% (0/26)

Yellow: 38% (10/26)

Red: 62% (16/26)

* 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

Flown: 100% (5/5)
 Green: 100% (5/5)
 Yellow: 0% (0/5)
 Red: 0% (0/5)
 * Flown within 35deg solar angle

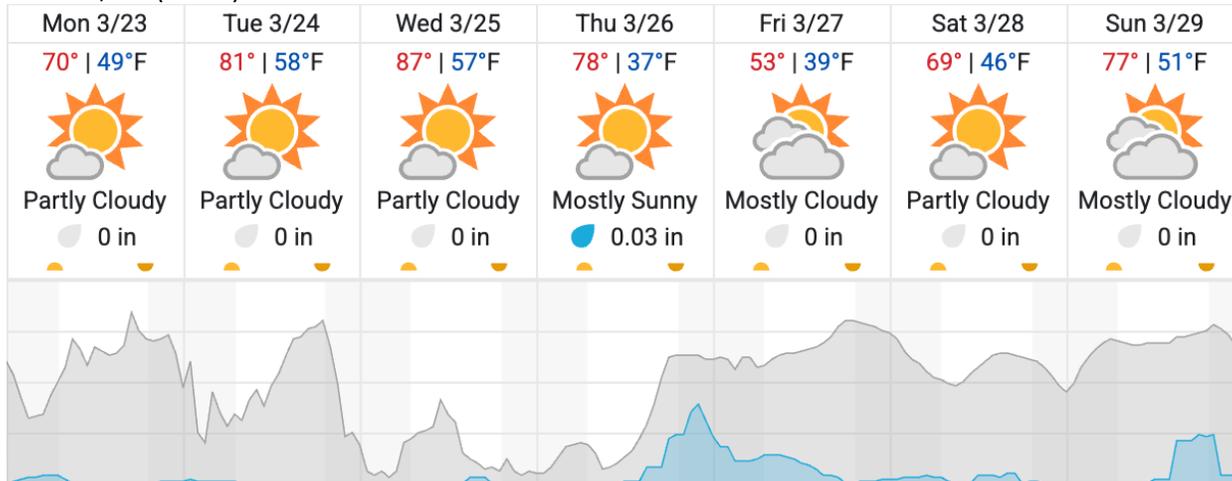
D00|W10C (Wiggle Timing Test - Riegl)

1 2

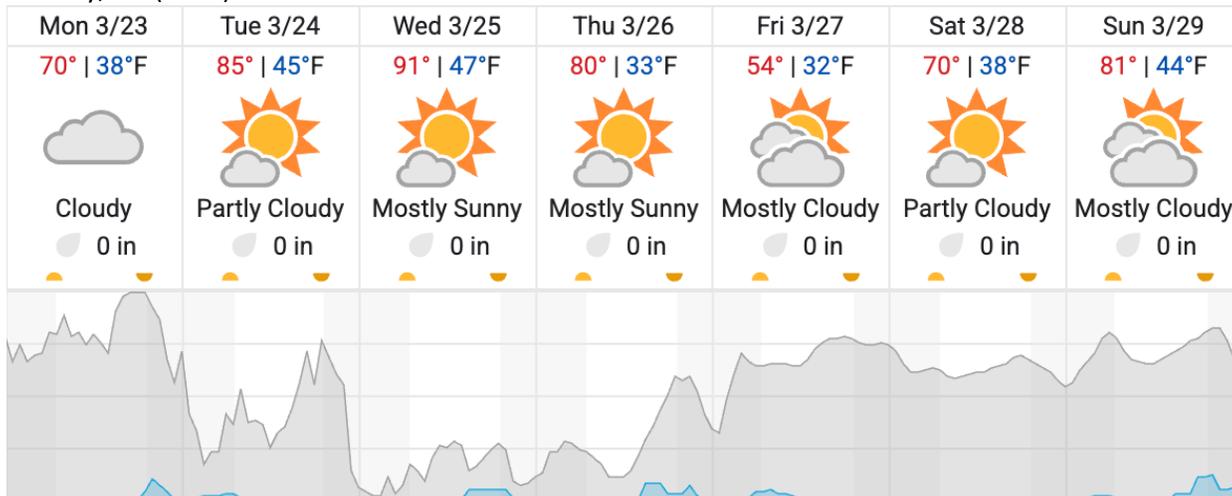
Flown: 100% (2/2)
 Green: 100% (2/2)
 Yellow: 0% (0/2)
 Red: 0% (0/2)
 * Flown within 35deg solar angle

Weather Forecast

Boulder, CO (KBDU)



Greeley, CO (B10E)



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

source: wunderground.com

Flight Collection Plan for March 23, 2026

Flyority 1

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RiAcquire name: D10_B10E_Boresight_Apx_VQ780)

30o On-station Time: 1600 UTC / 1000 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 2

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v4_Q780

35o On-station Time: 1630 UTC / 1030 L

Flyority 3

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10_V10C_East_v13_VQ780 (lines 1-22, 29)/D10_V10C_West_v13_VQ780 (lines 23-28, 29)
(RiAcquire file is D10_V10C_East_West_v13_VQ780.rpp)

On-Station Time: 1700 UTC / 1100 L

Crew: Mike (Lidar), John (NIS), Elissa, Alyssa, Mitch (Ground)