



Payload 3 Daily Flight Report

Date: 2025-04-19

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration)

Sites Flown: None

Days left in Domain: 11

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 00:00

Spectrometer Operators: Mike

Hours until maintenance: 117.90

Pilots: Justin, Jeff

Ground Crew: Cameron, John, Elissa

Summary

Yesterday's snow storm left a decent amount of snow cover as well as lingering snow showers and low clouds throughout the region. No flights were conducted. Later afternoon warming spurred some snow melt, and the crew are optimistic that tomorrow's forecast will allow for a re-certification flight to occur.

Concerns

None

Comments

Continued laying out and cabling Payload 2 in preparation for payload checkout and installation next week.

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

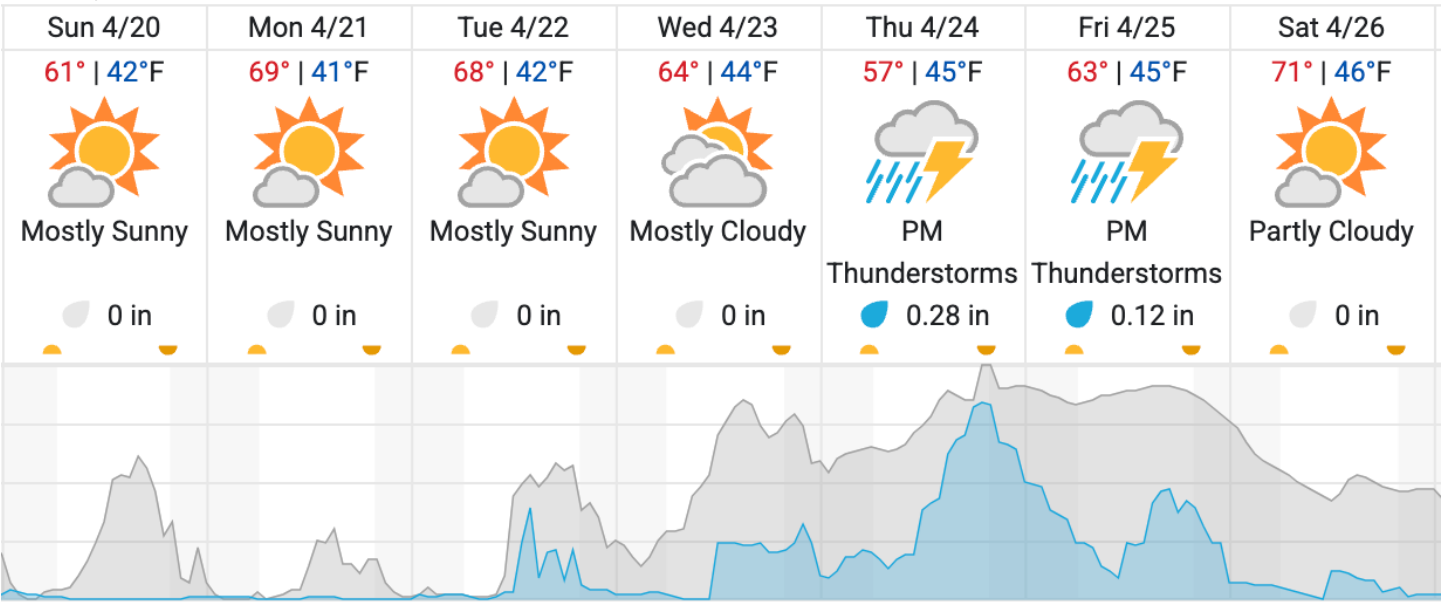
D00|W10C (Wiggle Timing Test - Riegl)

1	2
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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



	Cloud Cover (%)		Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for April 19, 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: Cam (Lidar), Mike (NIS), Mitch/Elissa/John (Ground)