



Payload 3 Daily Flight Report



Date: 2024-03-28

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: 0

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Cameron

Pilots: Will, Justin

Adt'l Flight Crew: Andrew

Flight Hours: 00:04, 00:32

Hours until maintenance: 120.63

GPS Instruments: AOP_KBDU

Ground Crew: Matt, Elissa

Summary

Overcast skies prevented any attempts at completing one of our remaining calibration flights, so the crew flew a quick recertification flight instead. Andrew joined to help troubleshoot some connectivity issues we've been having in addition to being refreshed on in air lidar and NIS collections. Post flight the plane was packed and readied for an early departure tomorrow morning in order to beat a heavy low-pressure system that will be making its way across the western US this weekend.

Concerns

None

Comments

- This concludes the first portion of payload three calibration flights. The Otter will return to Boulder following SJER flights in Fresno to complete cal flights in April.
- Mitch is recertified on Lidar, Cameron is recertified on the NIS, Elissa is recertified on Ground Activities, and Andrew is recertified as third seat observer.
- In flight network connectivity issues were quickly resolved by Andrew. A misguided and forgotten ethernet cable was the culprit (i.e. user installation error).
- V10C Riacquire project file refused to open due to incorrect "calibration values". An older laser configuration plan for V10C was used instead. A new plan file was quickly created by John and will be tested in flight once the plane returns to Boulder in April.

Daily Coverage

Estimated Cloud Cover Key

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

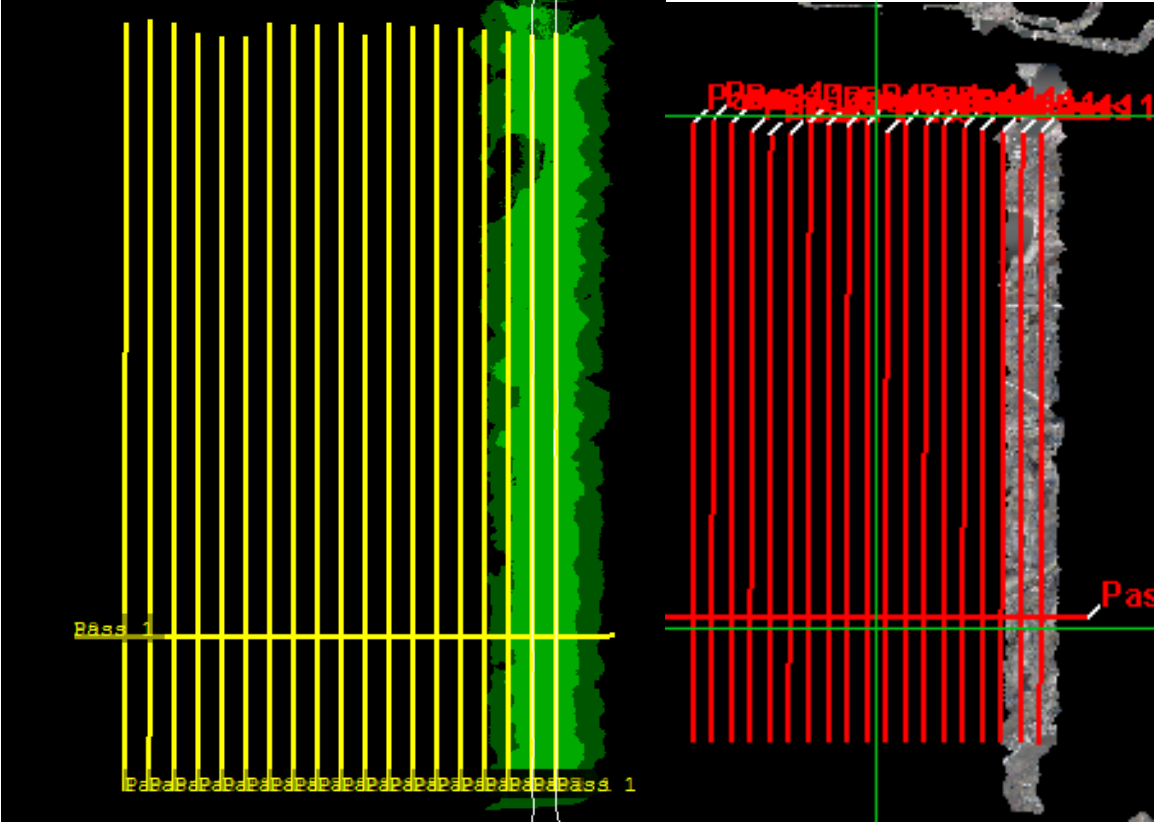
D00|V10C

Line #	1	2
Lidar	✓	✓

Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover	Red	Red

Total number of lines flown: 2

Flight Screenshots



Pictures

Below: A lot of snow melt along the front range, but still quite a bit of snow in the mountains.





Above Left: Today's flight crew



Above Right: 2024 Flag has been hung in the hangar!

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)

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)

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)

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)

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)

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)

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: 7% (2/29)

Green: 0% (0/29)

Yellow: 0% (0/29)

Red: 7% (2/29)

D00|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)

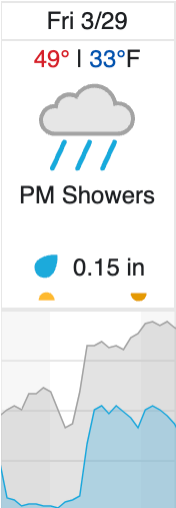
Green: 0% (0/2)

Yellow: 100% (2/2)

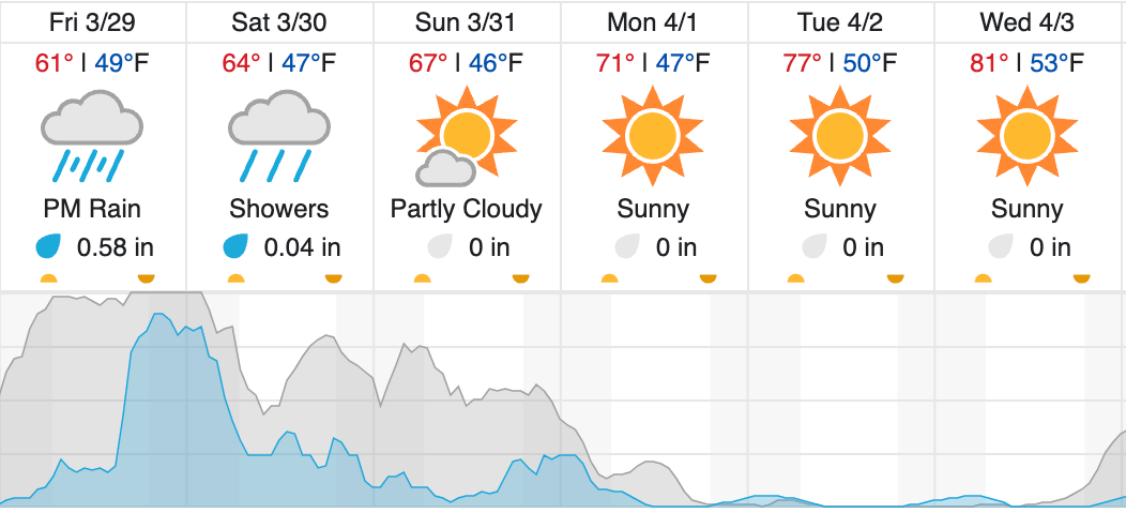
Red: 0% (0/2)

Weather Forecast

Boulder, CO



Fresno, CA



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

Flight Collection Plan for 29 March 2024

Transit to Fresno, CA for D17-SJER Collects

Flight Crew: Elissa