



Payload 3 Daily Flight Report



Date: 2024-09-14

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration)

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

Days left in Domain: 4

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Elissa

Pilots: Vince, Manning

Flight Hours: 01:55

Hours until maintenance: 41.82

GPS Instruments: AOP_KBDU, S-COGY

Summary

The P3 crew took to skies for potentially the last flight of the season, completing the Boresight Calibration in entirely yellow conditions. P3 would only fly again if QAQC fail or an opportunity to green up the Radiometric occurs, which looks doubtful based off the extended forecast.

Concerns

None

Comments

Thanks to pilots Vince and Manning for all their hard work flying N821AR for us the past 2 months. Enjoy the well deserved time off.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

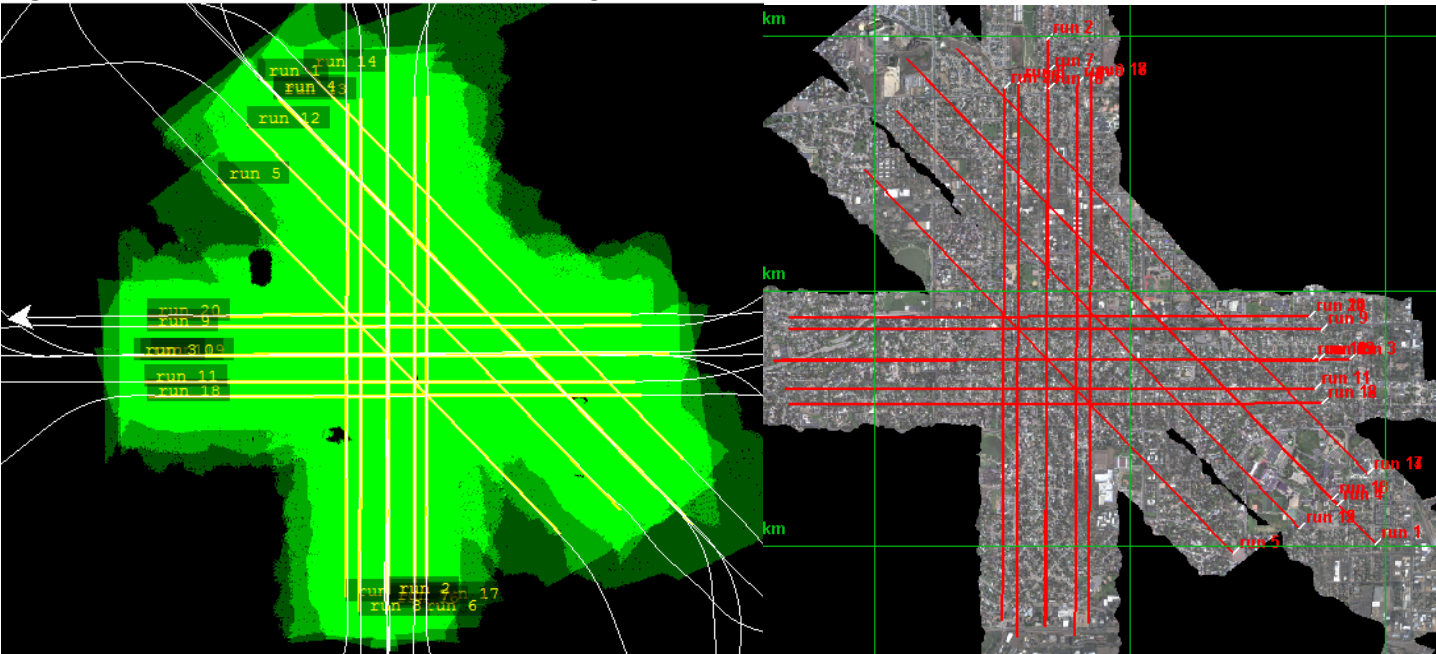
Line #

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: Lidar on the left, NIS on the right.



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: 100% (20/20)
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: 36% (10/28)
Yellow: 50% (14/28)
Red: 0% (0/28)

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: 100% (5/5)
Green: 0% (0/5)
Yellow: 100% (5/5)

Red: 0% (0/5)

D00|W10C (Wiggle Timing Test - Riegl)

1 2

Flown: 100% (2/2)

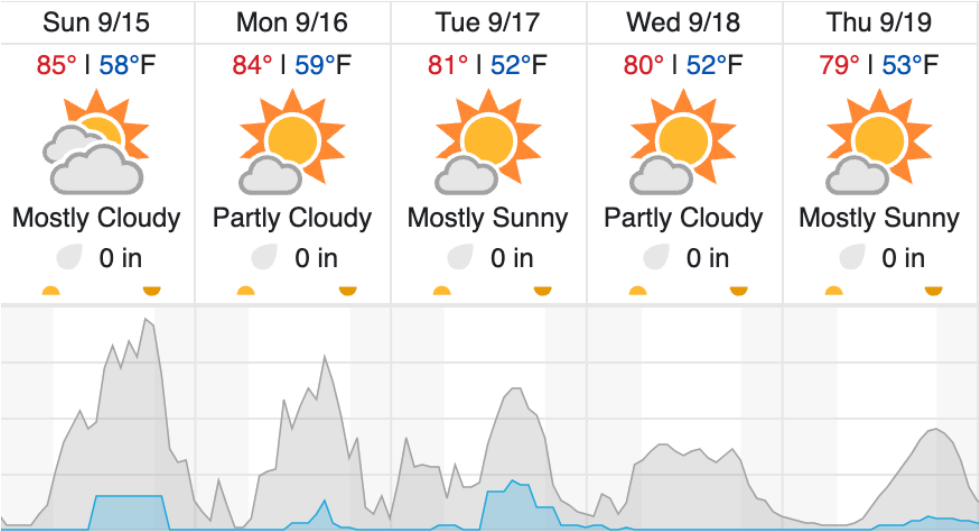
Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

Weather Forecast

Boulder, CO



source: wunderground.com

Flight Collection Plan for September 2024

Flyority 1

Collection Area: Table Mountain Radiometric Calibration – *only if green*

Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

40° On-station Time: 1630 UTC / 1030 L | 45° On-station Time: 1700 UTC / 1100 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: NIS Offset Flight - *optional*

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

35° On-station Time: 1600 UTC / 1000 L

Flight Crew

Elissa (Lidar), Mitch (NIS)