



Payload 3 Daily Flight Report



Date: 2024-04-12

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration)

Sites Flown: R10C (Table Mountain Radiometric Calibration - Riegl), V10C (Boulder City South)

Days left in Domain: 14

Report Author: Nick

Lidar Operators: Nick

Flight Hours: 01:05

Spectrometer Operators: Cameron

Hours until maintenance: 101.47

Pilots: Will, Justin

Ground Crew: Matt, Bridget, Brendan

Summary

Clear skies allowed us to complete the R10C Radiometric Calibration at Table Mountain and a lidar recertification flight.

Concerns

Connectivity issues persisted today with the lidar crystal computer.

Comments

Nick certified on P3 lidar.

Shout out to Brendan for assisting tarp deployment today.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

D00|R10C

Line #	1	2	3	4	5
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

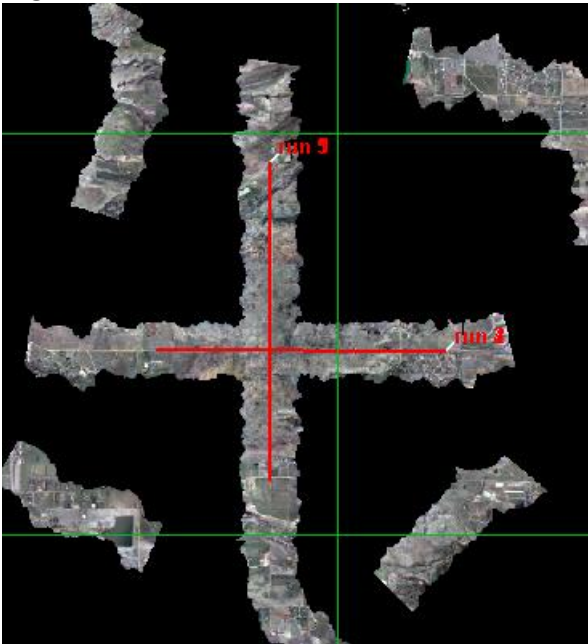
Total number of lines flown: 5

D00|V10C

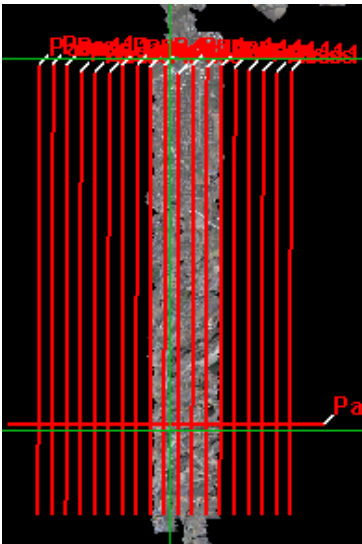
Line #	7	8	9	10
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 4

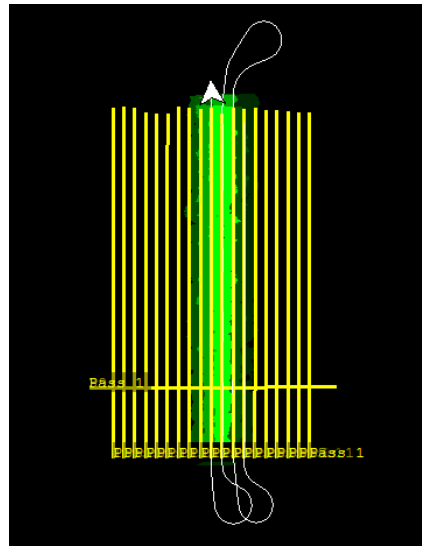
Flight Screenshots



NIS screenshot, R10C Radiometric Cal



NIS screenshot, V10C



Lidar screenshot, V10C

Pictures



The Flat Irons, Boulder CO



A small brush fire north of Boulder Reservoir

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: 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

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

D00|R10D (Boulder Airport Radiometric Calibration)

1 2 3 4 5

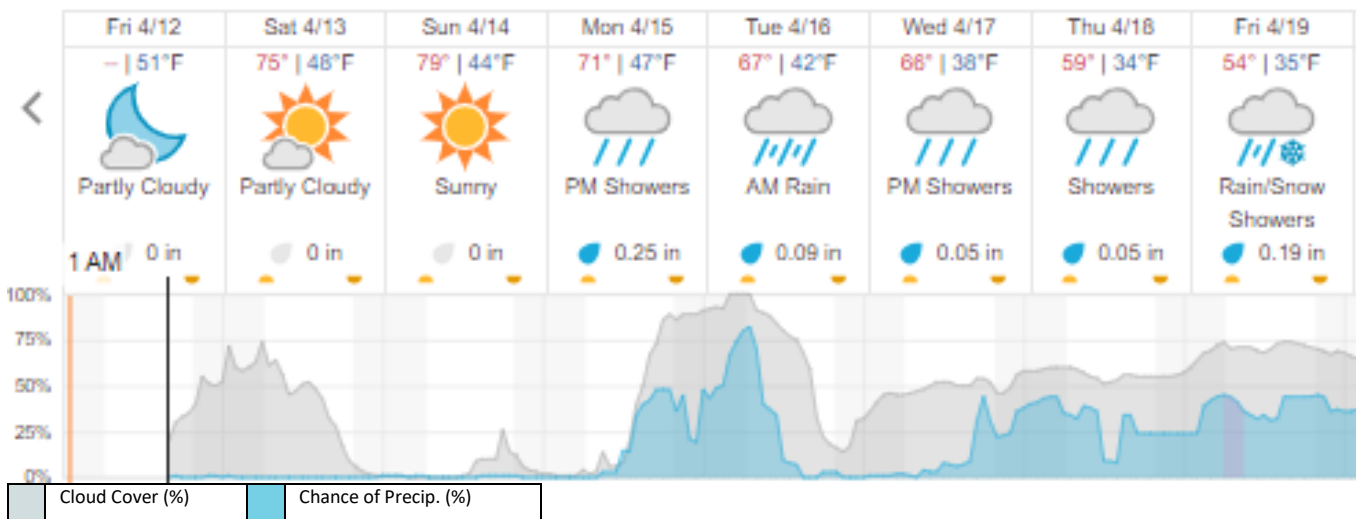
Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

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



source: wunderground.com

Flight Collection Plan for 13 April 2024

Flyority 1

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780 35° On-station Time: 1620 UTC / 1030 L

Flight Crew

Cameron (Lidar), Matt (NIS), Mitch (Ground)