



Payload 3 Daily Flight Report



Date: 2022-04-19

Flight Campaign ID: P3C1

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

Aircraft: N70AR

Domain: 00 (Training & Calibration)

Sites Flown: V10C (Boulder City South)

Days left in Domain: 6

Report Author: Michael

Lidar Operators: Michael, John

Spectrometer Operators: Nick, Michael

Pilots: Nick, Magnus

Adt'l Flight Crew: John, Elissa

Flight Hours: 00:54, 00:42

Hours until maintenance: 113.95

GPS Instruments: AOP_KBDU

Ground Crew: Nick, Abe

Summary

Two training flights were completed today over the South Boulder training area.

Concerns

None

Comments

-Mike was certified on the Riegl

-John was certified on the Riegl

-Nick was certified on NIS

-Nick remains to be certified on Riegl.

-V10C flight plan file gave the crew a little trouble, but Ian and John are implementing a fix.

Daily Coverage

Estimated Cloud Cover Key

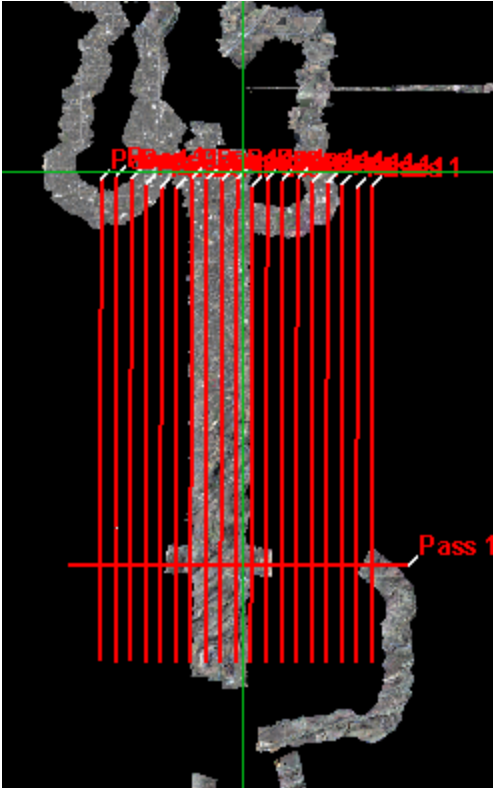
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|V10C

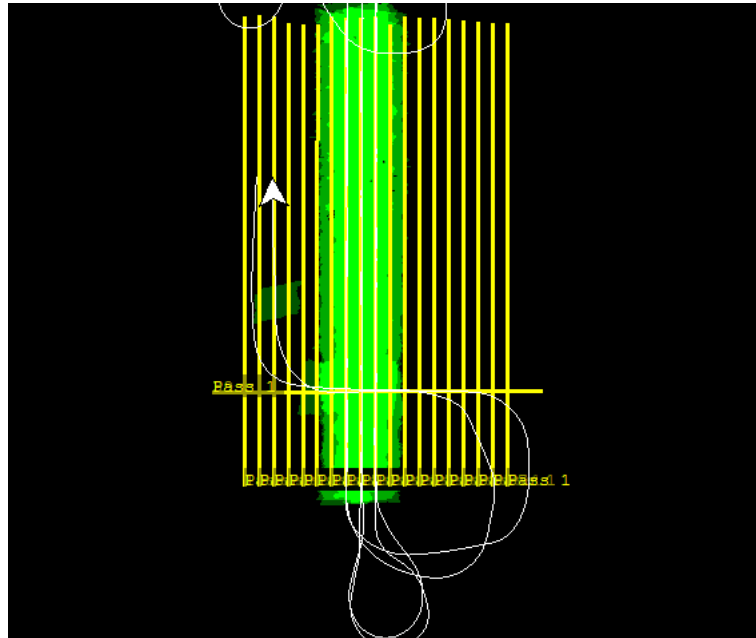
Line #	1	10	11	12
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 4 x 2

Flight Screenshots



NIS Flight 1



Lidar Flight 2

Pictures



NCAR building in the center with the fire scar to the left.

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: 0% (0/20)

Red: 100% (20/20)

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)

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: 11% (3/28)

Red: 75% (21/28)

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 100% (2/2)

Green: 100% (2/2)

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: 100% (5/5)

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: 14% (4/29)

Green: 0% (0/29)

Yellow: 14% (4/29)

Red: 0% (0/29)

D00|W10C (Wiggle Timing Test - Riegl)

1	2
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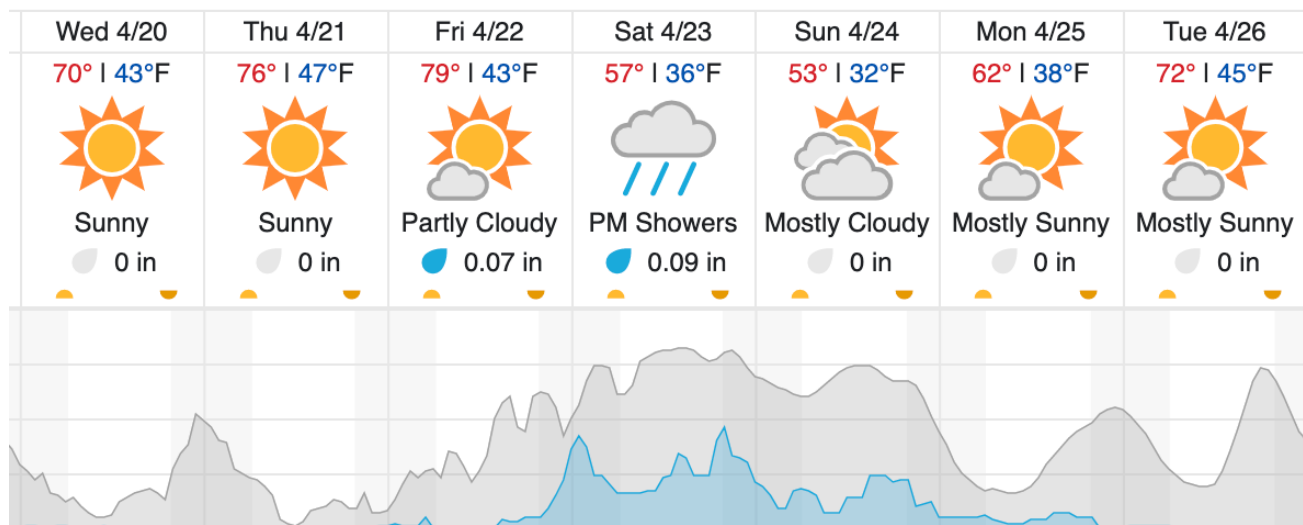
Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

Weather Forecast



source: wunderground.com

Flight Collection Plan for April 20 2022

Collection Area: Boulder City Nominal

Flight Plan Name: D10_V10C_East_v7_Q780/D10_V10C_West_v7_Q780

On-station Time: Daylight – No solar angle restrictions

Flight Crew: Nick (LiDAR), Elissa (NIS), Mitch (Trainer), Matt (Ground)