



Payload 3 Daily Flight Report



Date: 2023-04-12
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N934MU

Domain: 00 (Training & Calibration)
Sites Flown: N10D (Nominal Runway at KBDU - Riegl)
Days left in Domain: 6

Report Author: Mike
Lidar Operators: Mike **Flight Hours:** 01:54
Spectrometer Operators: Matt **Hours until maintenance:** 115.58
Pilots: Paul, Jeff **GPS Instruments:** AOP_KBDU
Ground Crew: John

Summary

An abbreviated Nominal Runway calibration flight was flown today in bumpy conditions. With the lidar over-current issue still under investigation, only lines that were 25% power or less were flown per Riegl’s recommendation. This accounted for 14 of 28 of the total flight plan lines.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

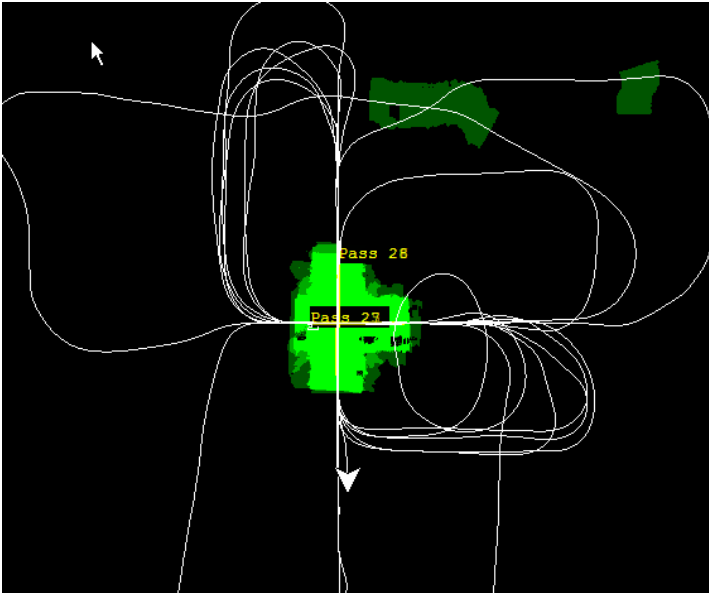
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|N10D

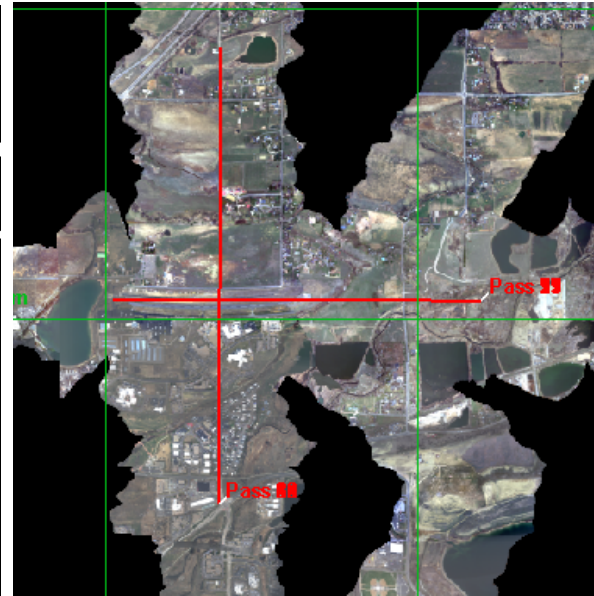
Line #	9	10	13	14	15	16	17	18	19	20	21	22	23	24
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 14

Flight Screenshots



Lidar



NIS

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: 0% (0/4)
 Red: 100% (4/4)

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: 64% (18/28)
 Green: 29% (8/28)
 Yellow: 4% (1/28)
 Red: 32% (9/28)

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

D00|R10D (Boulder Airport Radiometric Calibration)

1	2	3	4	5
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Flown: 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: 21% (6/29)
 Green: 10% (3/29)
 Yellow: 0% (0/29)
 Red: 10% (3/29)

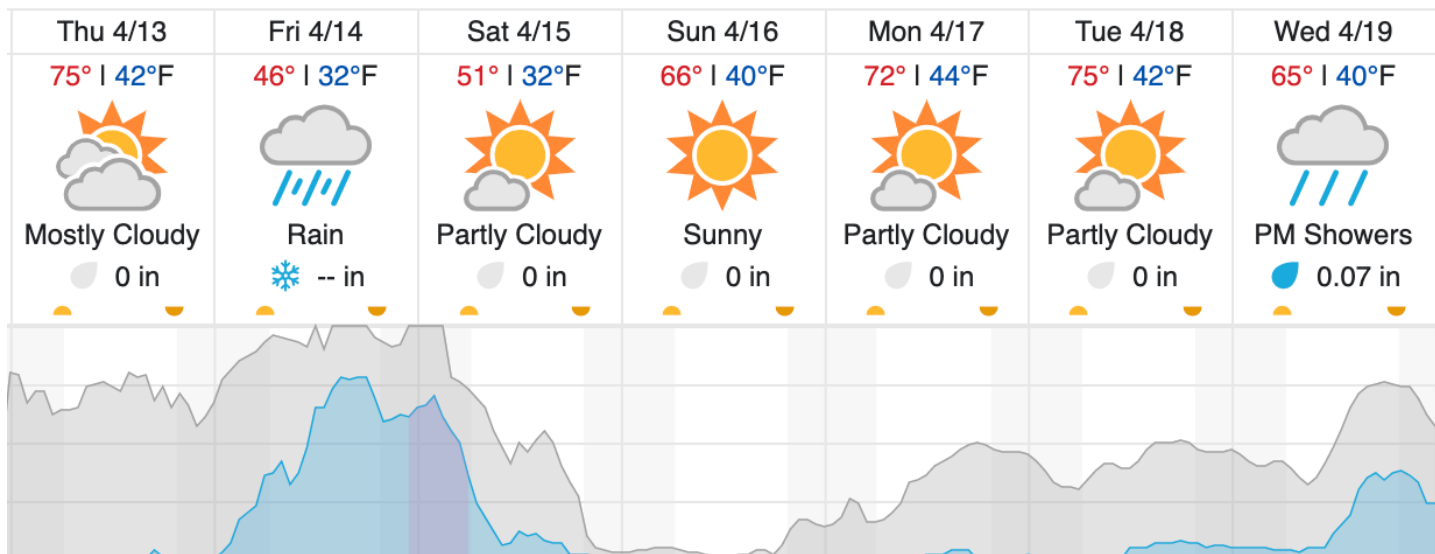
D00|W10C (Wiggle Timing Test - Riegl)

1	2
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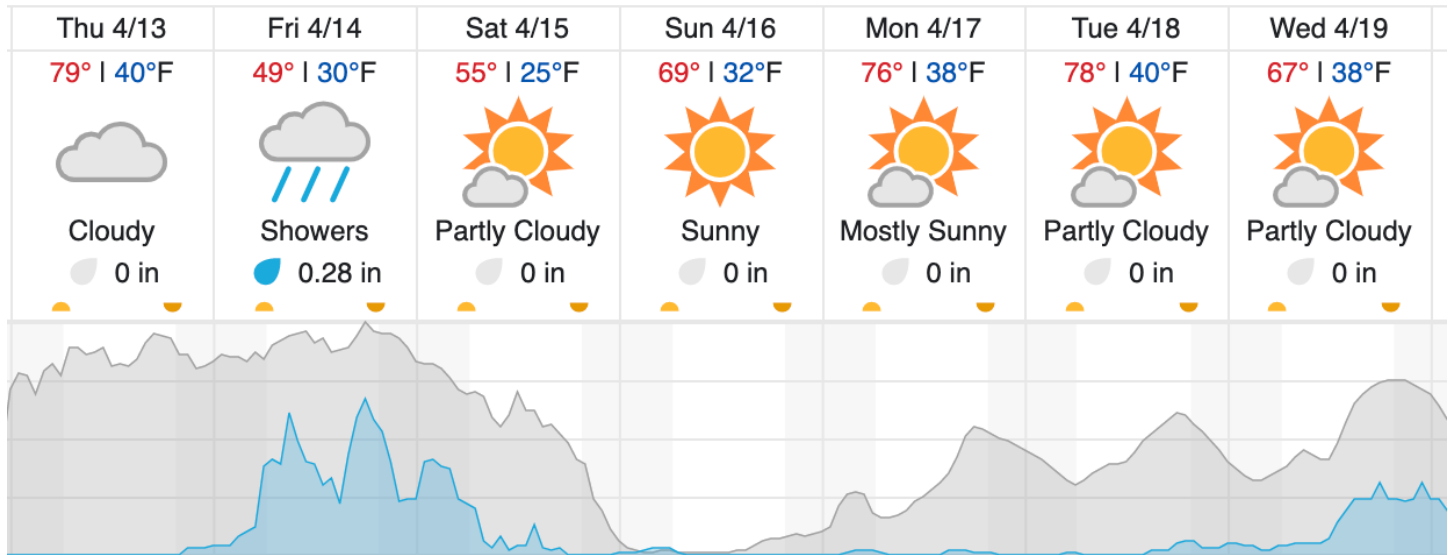
Flown: 100% (2/2)
 Green: 0% (0/2)
 Yellow: 0% (0/2)
 Red: 100% (2/2)

Weather Forecast

Boulder, CO



Greeley, CO



source: wunderground.com

Flight Collection Plan for April 13th, 2023

Flyority 1

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RiAcquire name: D10_B10E_Boresight_Apx_Q780)

30° On-station Time: 1510 UTC / 0910 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 2

Collection Area: Nominal Runway Survey Flight Plan (Lines 1-8, 11-12, 25-28)

Name: D10_N10D_Nominal_Rnwy_v8_Q780

On-Station Time: Daylight – No solar angle restrictions.

Additional Considerations: Runway should not be wet or snow covered.

Flyority 3

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

35° On-station Time: 1540 UTC / 0940L

Crew: Nick (lidar), Matt (NIS), Mike/John (Ground)