



Payload 3 Daily Flight Report



Date: 2023-04-07

Flight Campaign ID: P3C1

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

Aircraft: N934MU

Domain: 00 (Training & Calibration)

Sites Flown: Nominal runway (KBDU)

Days left in Domain: 11

Report Author: Matt

Lidar Operators: Matt

Spectrometer Operators: John

Pilots: Jeff, Cullen

Ground Crew: Abe

Flight Hours: .55

Hours until maintenance: 119.33

GPS Instruments: AOP_KBDU

Summary

The team attempted to collect the nominal runway and encountered the same Lidar error from the previous flight.

Concerns

While attempted to collect the nominal runway Cal. flight but the scanner received a "laser_on_current_too_high" error and refused to fire properly and record data. The Riegl customer support team has been contacted and we're awaiting further guidance. The NIS was powered off and is currently warming.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

Flight Screenshots: Error code received during second flight while attempted to fire at 50% power.

mERR:LASER_ON_CURRENT_TOO_HIGH	250	The input current of the laser module when the laser is on is too high.
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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: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
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: 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: 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											

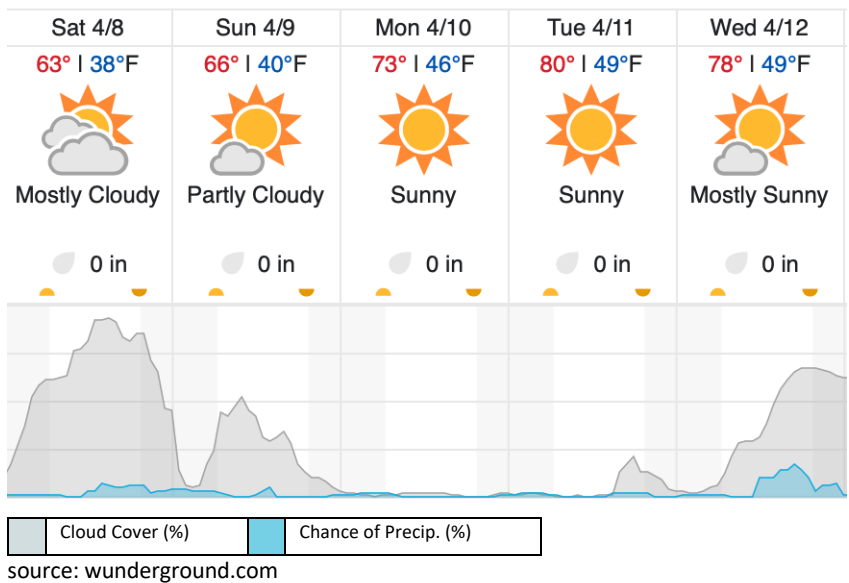
Flown: 14% (4/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 14% (4/29)

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



Flight Collection Plan for April 8, 2023

No flights planned due to system warm up and Lidar troubleshooting.