

Payload 1 Daily Flight Report



Date: 2024-05-06

Flight Campaign ID: P1C1

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

Aircraft: N615AR

Domain: 00 (Training & Calibration)

Sites Flown: None Days left in Domain: 6

Report Author: Elissa

Lidar Operators: Elissa **Flight Hours**: 00:00

Spectrometer Operators: Matt Hours until maintenance: 110.33

Pilots: Jeff, Shane

Summary

No flights were planned today, since lidar calibration flights have been completed and the spectrometer is inoperable. Andrew spent the day troubleshooting the spectrometer and was able to reproduce the timestamp error, but not the framegrabber error, on the ground. The DCC was swapped with Payload 2's, which will be tested in flight as soon as weather allows. The next likely culprits would be the FPIE box and FPIE power supply.

Concerns

Spectrometer.

Comments

Elissa rotates out today; John and Nick join the payload tomorrow.

Cumulative Domain Coverage

Estimated Cloud Cover Kev

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

Solar Angle Less Than 40 degrees

Line #

D00 B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Flown: 100% (20/20) Green: 10% (2/20) Yellow: 90% (18/20) Red: 0% (0/20)

D00 | BLKF (Black Forest Waveform Range Test - Galaxy)

								<u> </u>											
1	2	თ	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21																			

Flown: 0% (0/21) Green: 0% (0/21) Yellow: 0% (0/21) Red: 0% (0/21)

D00 | CPER (Central Plains Ecological Range)

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 | H10D (NEON Headquarters Lidar Validation - Galaxy)

1 2 3 4 Flown: 100% (4/4)

Flown: 100% (4/4) Green: 0% (0/4) Yellow: 100% (4/4) Red: 0% (0/4)

D00 | N10F (Nominal Runway at KBDU - Galaxy)

	2																19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		

Flown: 46% (17/37) Green: 0% (0/37) Yellow: 43% (16/37) Red: 3% (1/37)

D00 | O10C (NIS Offset - Galaxy)

1 2

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

D00 | R10E (Table Mountain Radiometric Calibration - Galaxy)

1 2 3 4 5 Flown: 0% (0/5)

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

D00 V10F (Boulder City Nominal - Galaxy)

4	2	,		F.		7	0	,,	10	11	12	4.2	4.4	4.5	1.0	17	10	10	20
1	2	3	4	ה	٥	/	ŏ	5	10	11	12	13	14	15	16	1/	18	19	20
21	22	23	24	25	26	27	28	29											

Flown: 21% (6/29) Green: 0% (0/29) Yellow: 0% (0/29) Red: 21% (6/29)

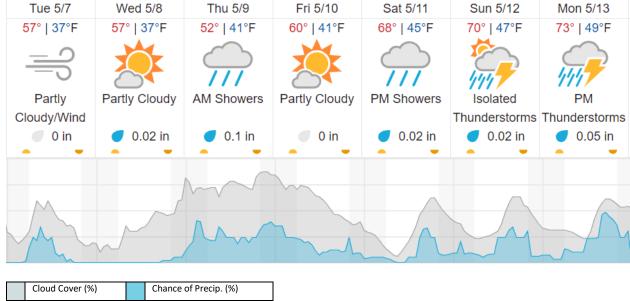
D00 | W10D (Wiggle Timing Test - Galaxy)

1 2

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

Weather Forecast

Boulder, CO (KBDU)



source: wunderground.com

Flight Collection Plan for 7 May 2024

Priority: NIS Troubleshooting and Waveform Data Evaluation

Flyority 1

NIS test/troubleshooting flights. Possible nominal runway refly.

Flyority 2

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v2_PRM.xml

45° On-station Time: 16:10 UTC / 09:10 L

Additional Considerations: Ground should be dry.

Flyority 3

Collection Area: Black Forest Waveform Range Test Flight Flight Plan Name: D10_BLKF_Black_Forest_v4_PRM.xml On-Station Time: Daylight – No solar angle restrictions.

Flyority 4

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10C_NIS_Offset_v3_PRM.xml

35° On-station Time: 15:20 UTC / 08:20

Flight Crew

John (Lidar), Matt (NIS), Nick (Ground)