



Payload 1 Daily Flight Report



Date: 2024-05-09
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: 3

Report Author: Nick
Lidar Operators: Nick **Flight Hours:** 00:00
Spectrometer Operators: John **Hours until maintenance:** 108.07
Pilots: Jeff, Shane
Ground Crew: Matt

Summary

The flight crew took the poor weather today to catch up on data extraction now that larger size RAID disks arrived. CPER flight was extracted, and the Nominal Runway flight will be tomorrow which will catch us up on data extraction. RAID 4 was ingested with the S. Boulder City flight data.

Brendan took the opportunity from our down day to further troubleshoot the NIS FPIE system.

Concerns

NIS frame grabber and timestamp issues have not been resolved.
OPTECH Lidar waveform data continues to be evaluated by remote sensing science team for excessive noise.

Comments

Payload 1 will depart to D11 deployment on schedule Monday.

Daily Coverage

None

Cumulative Domain Coverage

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

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

1	2	3	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: 100% (28/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 100% (28/28)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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|N10F (Nominal Runway at KBDU - Galaxy)

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

D00|V10F (Boulder City Nominal - Galaxy)

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											

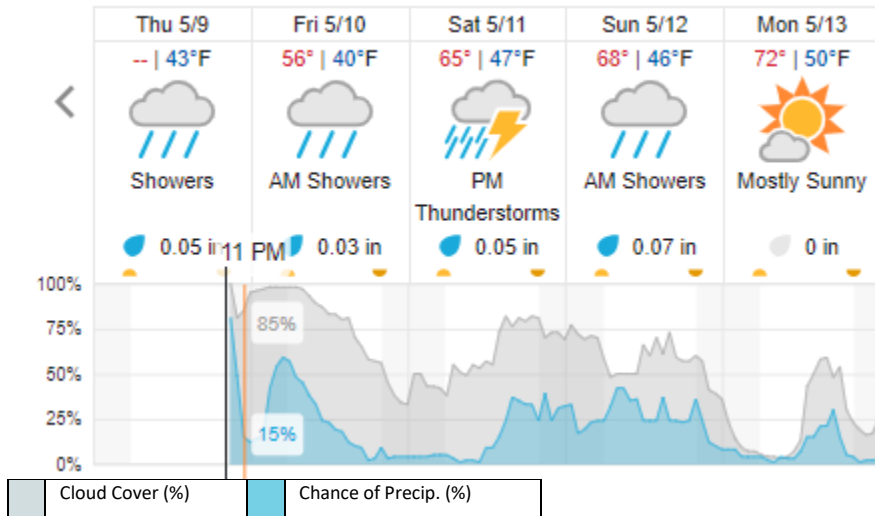
Flown: 55% (16/29)
Green: 0% (0/29)
Yellow: 55% (16/29)
Red: 0% (0/29)

D00|W10D (Wiggle Timing Test - Galaxy)

1	2
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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 10 May 2024

Flyority 1

NIS Troubleshooting and Waveform Data Evaluation.

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

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