



Payload 1 Daily Flight Report



Date: 2024-06-05
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N615AR

Domain: 00 (Training & Calibration)
Sites Flown: CPER (Central Plains)
Days left in Domain: 0

Report Author: Nick
Lidar Operators: Nick
Spectrometer Operators: Matt
Ground Crew: Cameron, Bridget, Murph
Pilots: Jeff, Cody

Flight Hours: 02:48
Hours until maintenance: 67.07

Summary

The crew took to clear sky conditions today and wrestled with NIS issues. After several restarts the NIS operated for 3 flight lines at CPER and then received numerous faults. Additional lines were collected without the operational NIS. The NIS returned during transit back to Boulder and an attempt was made to collect the radiometric calibration at Table Mountain. Unfortunately, the NIS did not cooperate and had several faults that would not clear. The calibration attempt was aborted.

Comments

The NIS issues have deteriorated to a condition that is not conducive to NEON operations. Further deployments have been suspended until the issue is rectified.

The lab team identified a potential resolution to the Timestamp issue and will conduct an evaluation flight tomorrow.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

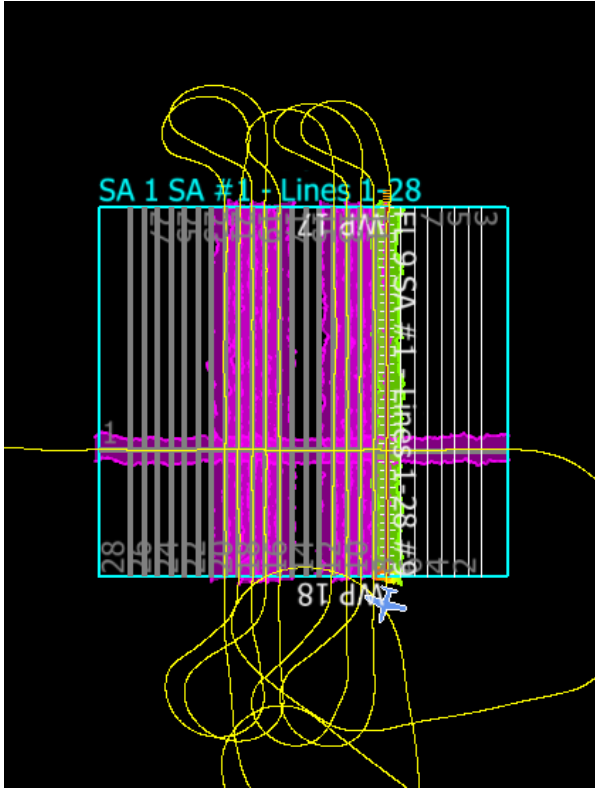
Line #

D00|CPER

Line #	1	9	10	11	12	13	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer									✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover											

Total number of lines flown: 11

Flight Screenshots



2024060514 P1C1 Lidar screenshot

Cumulative Domain Coverage

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: 100% (21/21)

Green: 19% (4/21)

Yellow: 81% (17/21)

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: 50% (14/28)

Green: 39% (11/28)

Yellow: 11% (3/28)

Red: 0% (0/28)

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

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

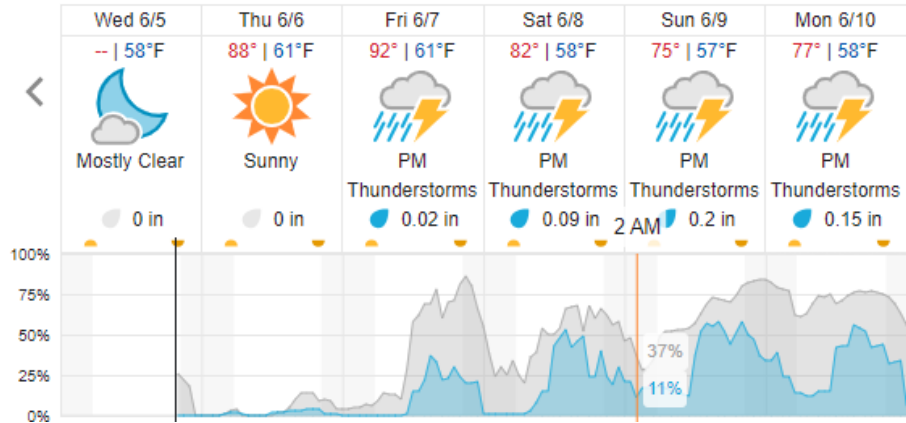
Green: 0% (0/5)

Yellow: 0% (0/5)

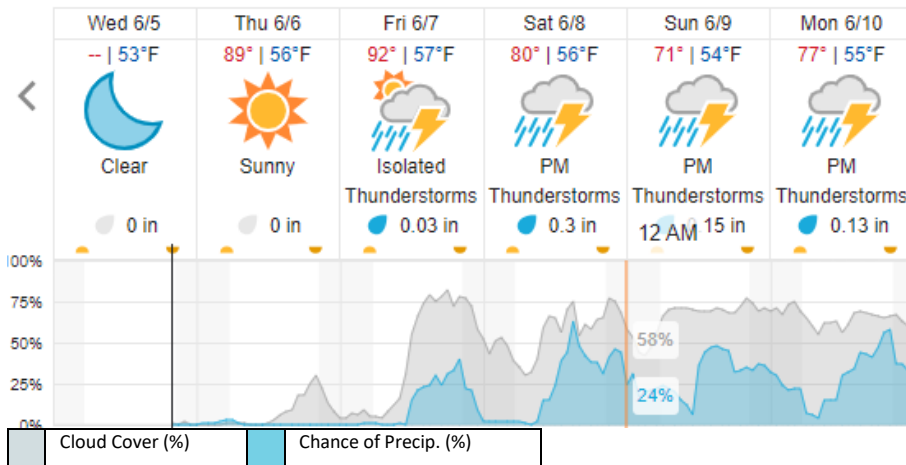
Red: 0% (0/5)

Weather Forecast

Boulder CO



Nunn CO



source: wunderground.com

Flight Collection Plan for 06 June 2024

Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v2_PRM.xml

45° On-station Time: 15:50 UTC / 09:50 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: Central Plains Ecological Range

Flight Plan Name: D10_CPER_C1_P1_v8_PRM.xml

35° On-station Time: 14:50 UTC / 08:50 L

Flight Crew: Matt (Lidar), Cam (NIS), Nick (Ground)