



Payload 1 Daily Flight Report



Date: 2024-06-01
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 Ecological Range)
Days left in Domain: 4

Report Author: Nick
Lidar Operators: Nick **Flight Hours:** 02:11
Spectrometer Operators: Matt **Hours until maintenance:** 72.50
Pilots: Jeff, Manning **GPS Instruments:** AOP_CPER, AOP_KBDU

Summary

The crew took advantage of clear skies this morning to collect 10 lines under mostly green conditions at CPER before clouds built up. The NIS Timestamp error appeared before collections and cleared after several system restarts.

Concerns

The NIS required several restarts on deck to display adequately. The NIS Timestamp occurred during transit to flight area. The issue reoccurred a total of 4 times following system restarts before collections. 2 Framegrabber alerts occurred but did not affect collections.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

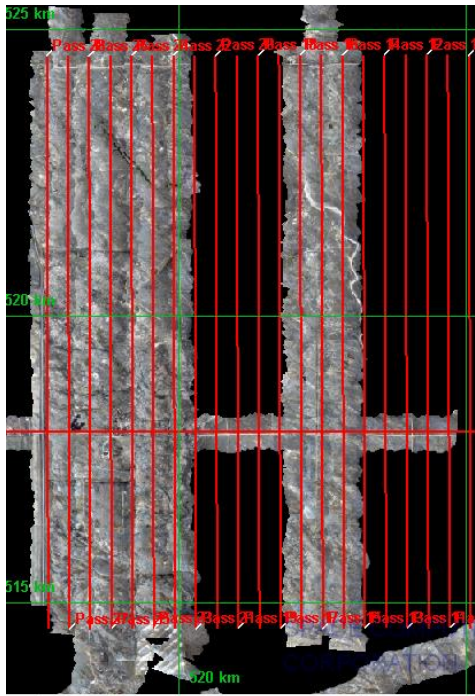
Line #

D00|CPER

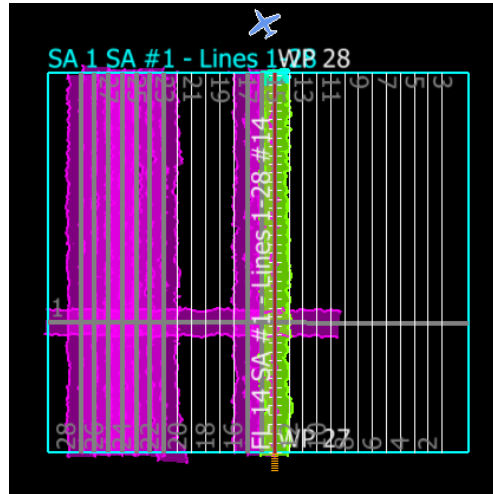
Line #	14	15	16	22	23	24	25	26	27	28
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green

Total number of lines flown: 10

Flight Screenshots



2024060115 NIS screenshot



2024060115 Lidar Screenshot

Pictures



CPER Tower



Sky view from flight facing east

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: 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: 39% (11/28)
 Green: 29% (8/28)
 Yellow: 11% (3/28)
 Red: 0% (0/28)

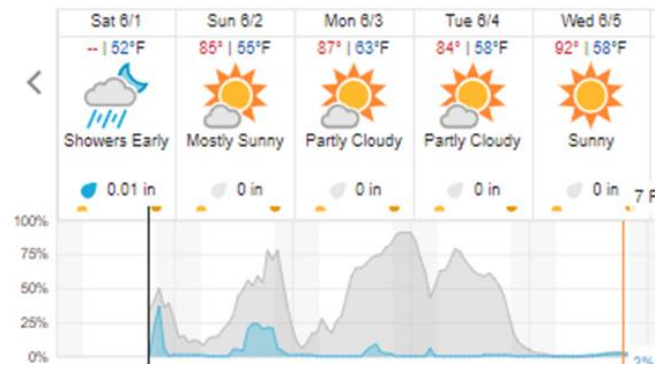
D00 | R10E (Table Mountain Radiometric Calibration - Galaxy)

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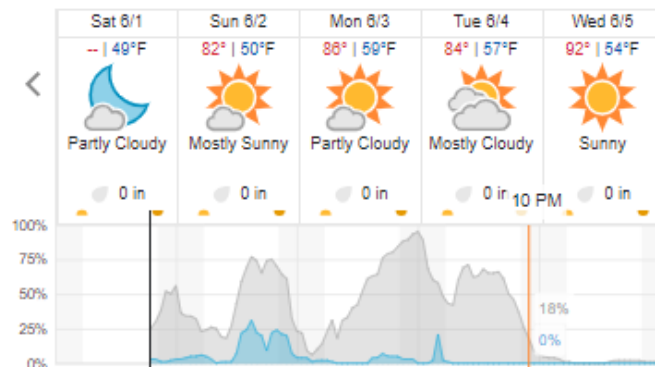
Flown: 0% (0/5)
 Green: 0% (0/5)
 Yellow: 0% (0/5)
 Red: 0% (0/5)

Weather Forecast

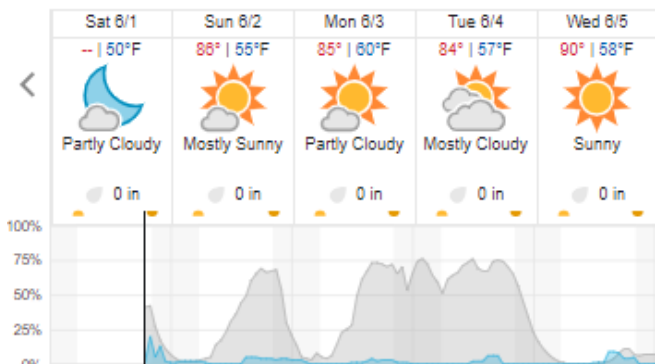
Boulder CO



Nunn CO



Colorado Springs CO



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for 02 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_v7_PRM.xml

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

Flyority 3

Collection Area: Black Forest Waveform Range Test Flight

Flight Plan Name: D10_BLKF_Black_Forest_v5_PRM.xml

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

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