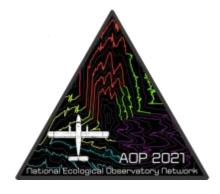


Payload 1 Daily Flight Report



Date: 2021-10-11

Flight Campaign ID: P1C2

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

Aircraft: N331AR

Domain: 00 (Calibration) Sites Flown: N10F, R10E Days left in Domain: 07

Report Author: Abe Morrison Flight Hours: 03:36

Lidar Operators: Abe Morrison Hours until maintenance: 5.27
Spectrometer Operator: Elissa Barris GPS Instruments: AOP-KBDU

Ground Crew: Mitch Haynes

Pilots: Justin Eddington, Stephen Brawders

Summary

Clear skies early this morning allowed the crew to start the nominal runway flight plan while waiting for solar angle for the radiometric calibration flight plan. Just after 35deg solar angle, the radiometric flight plan was flown 2 times in a row in "green" sky conditions. The nominal runway plan was then finished during the same flight.

Concerns

- -The getter ION pump had several issues on the flight today in conjunction with a slight change in chamber pressure. The chamber never went out of specification and the issues seems to have been resolved with a power cycle. HQ lab staff is aware of the issue.
- -The database would not generate the daily report today.

Comments

- -The radiometric calibration flight and the nominal runway flight were finished today.
- -Mechanics from Twin Otter arrived this afternoon and began the 125hr inspections. This maintenance process should conclude sometime tomorrow.

Cumulative Domain Coverage

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

		١																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Flown: 0% (0/20) Green: 0% (0/20) Yellow: 0% (0/20) 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 | D10C ()

1 2

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

D00 | H10D (NEON Headquarters Lidar Validation - Galaxy)

[1 | 2 | 3 | 4] Flown: 0% (0/4) Green: 0% (0/4) Yellow: 0% (0/4)

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	2:	2	23	24	25		26	27	28	3	29	30	31		32	33	34	ļ.	35

Flown: 0% (0/35) Green: 0% (0/35) Yellow: 0% (0/35) Red: 0% (0/35)

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 | R10F (Boulder Airport 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 | W10D (Wiggle Timing Test - Galaxy)

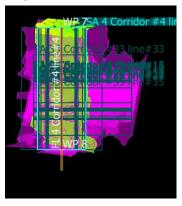
1 2

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

Screenshots

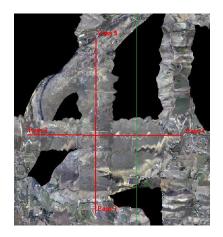
Lidar NIS

N₁₀F





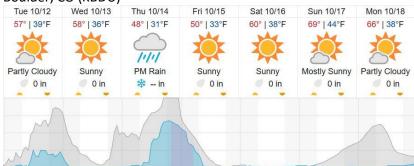
R10E

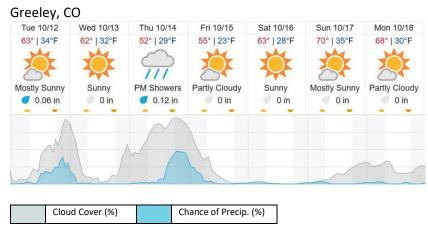


Lidar not collected in this plan

Weather Forecast







source: wunderground.com

Flight Collection Plan for 12 October 2021

Flyority 1

Collection Area: Boresight Calibration – Greeley, CO Flight Plan Name: D10_B10F_Boresight_Geocal_v8_PRM

On-station Time: 16:10 UTC / 10:10 L

Flyority 2

Collection Area: Wiggle Timing Test
Name: D10_W10D_Wiggle_Test_v5_PRM
On-Station Time: 17:40 UTC / 11:40 L

Flyority 3

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10_H10D_HQ_Lidar_validation_v1_PRM On-Station Time: Daylight – No solar angle restrictions.

Flyority 4

Collection Area: Boulder Airport Radiometric Calibration Flight Plan Name: D10 R10F Radiometric Cal KBDU v1 PRM

On-Station Time: 17:40 UTC / 11:40 L

Flyority 5

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM

On-Station Time: 16:50 UTC / 10:50 L

Flyority 6

Collection Area: Black Forest Waveform Range Test Flight Flight Plan Name: D10_BLKF_Black_Forest_v4_PRM

On-Station Time: 17:30 UTC / 11:30 L

Flyority 7

Collection Area: Boulder City Eye Safety Test

Flight Plan Name: D10_D10C_Boulder_West_Eye_Safety_Test_PRM

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

Crew: Mitch (Lidar), Abe (NIS), Elissa (Ground)