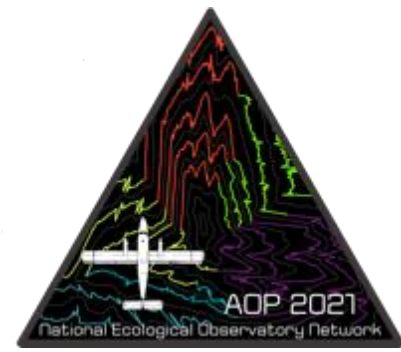




Payload 1 Daily Flight Report



Date: 2021-10-09

Flight Campaign ID: P1C2

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

Aircraft: N331AR

Domain: 00 (Calibration)

Sites Flown: None

Days left in Domain: 08

Report Author: Cameron Chapman

Flight Hours: 00:00

Lidar Operators: Cameron Chapman

Hours until maintenance: 8.87

Spectrometer Operator: Elissa Barris

GPS Instruments: 00:00

Ground Crew: Abe Morrison

Pilots: Justin Eddington, Stephen Brawders

Summary

The payload was pumped down overnight and cooling commenced this morning. We anticipate the system will be ready for calibration flights on Monday morning.

Concerns

None.

Comments

- Pilot Stephen Brawders arrived yesterday and replaced Nick Koukoutsakis.
- Aircraft maintenance is scheduled to occur after flights on Monday.

Pictures

Daily Coverage

Estimated Cloud Cover Key

Green: 0-10%	Yellow: 11-50%	Red: >50%
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Flight Screenshots: None

Pictures: 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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

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	22	23	24	25	26	27	28	29	30	31	32	33	34	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)

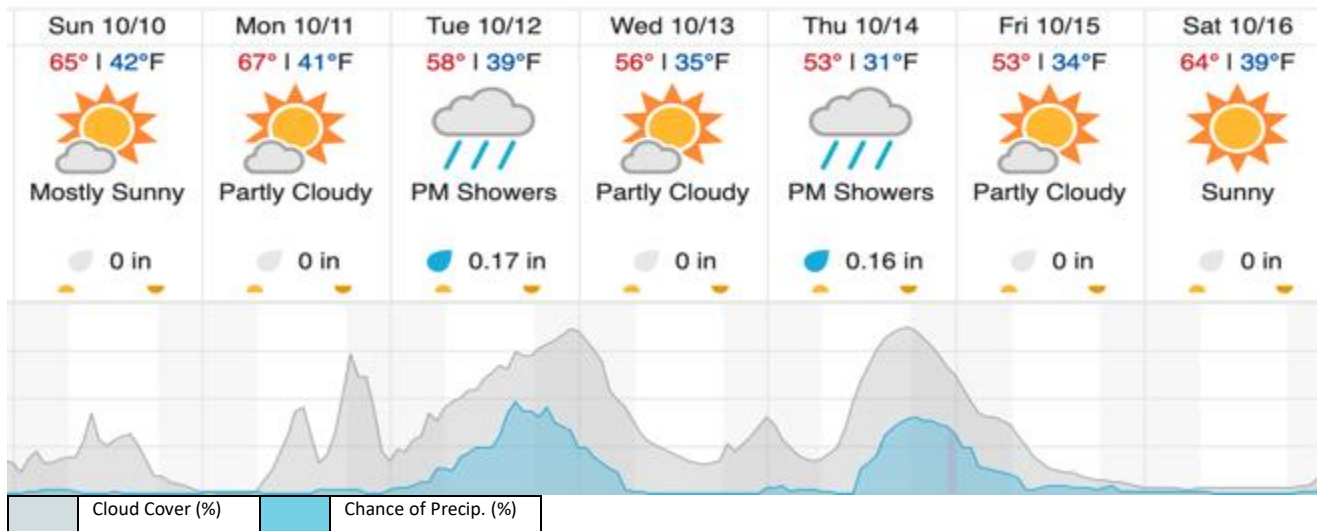
Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

Weather Forecast

Boulder, CO (KBDU)



source: wunderground.com

Flight Collection Plan for 10 October 2021

No flights scheduled; continue pumping and cooling the spectrometer.

Crew: Elissa (**Lidar**), Abe (**NIS**), Cameron (**Ground**)

Flight Collection Plan for 11 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: Nominal Runway Survey Flight Plan

Name: D10_N10F_Nominal_Rnwy_v9_PRM

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

Additional Considerations: Runway should not be wet.

Flyority 3

Collection Area: Wiggle Timing Test

Name: D10_W10D_Wiggle_Test_v5_PRM

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

Flyority 4

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 5

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v1_PRM

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

Flyority 6

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 7

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM

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

Flyority 8

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 9

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