

Payload 3 Daily Flight Report



Date: 2024-09-11

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 00 (Training & Calibration)

Sites Flown: None Days left in Domain: 11

Report Author: Elissa

Lidar Operators: Elissa **Flight Hours**: 00:00

Spectrometer Operators: Mitch Hours until maintenance: 46.60

Pilots: Vince, Manning

Summary

Priority was given to the other payload to fly flight plans over the Boulder airport this morning, and weather was not favorable for the boresight collection in Greeley. Afternoon cloud buildup with a chance of thunderstorms kept us on the ground, but we will be able to make up time with an early flight tomorrow morning.

Concerns

None.

Comments

None.

Cumulative Domain Coverage

Estimated Cloud Cover Kev

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

Solar Angle Less Than 40 degrees

Line #

D00 | B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

L	1		3	4	Э	O	/	٥	9	10	TT	12	13	14	12	10	1/	10	19	20
	1	2	2	1		C	_	0	\sim	10	11	12	12	1 1	1 [16	17	10	10	\sim

Flown: 0% (0/20) Green: 0% (0/20) Yellow: 0% (0/20) Red: 0% (0/20)

D00 | H10C (NEON Headquarters Lidar Test - Riegl)

1	2	3	4

Flown: 0% (0/4) Green: 0% (0/4) Yellow: 0% (0/4) Red: 0% (0/4)

D00 | N10D (Nominal Runway at KBDU - Riegl)

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: 0% (0/28) Green: 0% (0/28) Yellow: 0% (0/28) Red: 0% (0/28)

D00 | O10B (NIS Offset - Riegl)

1 2

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

D00 | R10C (Table Mountain Radiometric Calibration - Riegl)

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

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

D00 | R10D (Boulder Airport Radiometric Calibration)

1 2 3 4 5

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

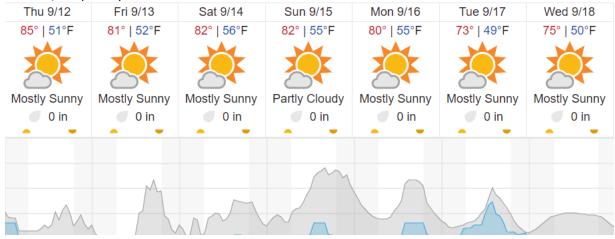
D00 | W10C (Wiggle Timing Test - Riegl)

1 2

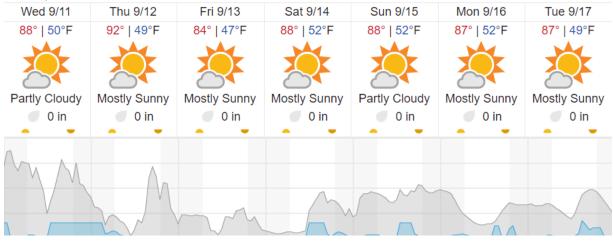
Flown: 0% (0/2) Green: 0% (0/2) Yellow: 0% (0/2) Red: 0% (0/2)

Weather Forecast

Boulder, CO (KBDU)



Greeley, CO (B10E)



source: wunderground.com

Cloud Cover (%)

Flight Collection Plan for 12 September 2024

Flyority 1

Collection Area: Table Mountain Radiometric Calibration Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

Chance of Precip. (%)

 40° On-station Time: 1630 UTC / 1030 L | 45° On-station Time: 1700 UTC / 1100 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: Boresight Calibration - Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RiAcquire name: D10_B10E_Boresight_Apx_Q780)

30° On-station Time: 1530 UTC / 0930 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3

Collection Area: Nominal Runway Survey

Flight Plan Name: D10_N10D_Nominal_Rnwy_v8_Q780

40° On-station Time: 1620 UTC / 1030 L

Flyority 4

Collection Area: NEON HQ Lidar Validation Flight Plan Name: D10_H10C_HQ_val_v1_Q780

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

Flyority 5

Collection Area: Wiggle Timing Test

Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780

 40° On-station Time: 1630 UTC / 1030 L

Additional Considerations: Runway should not be wet, or snow covered.

Flyority 6

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

35° On-station Time: 1600 UTC / 1000 L

Flight Crew

Mitch (Lidar), Elissa (NIS)