

Payload 1 Daily Flight Report



Date: 2024-09-12

Flight Campaign ID: P1C1

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

Aircraft: N615AR

Domain:

Sites Flown: B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

Days left in Domain: 0

Report Author: Matt

Lidar Operators: Matt Flight Hours: 01:49

Spectrometer Operators: Nick Hours until maintenance: 28.77

Pilots: Will, Justin GPS Instruments: AOP_KBDU, S-COWI

Summary

The crew took advantage of relatively clear conditions over Greeley, CO to complete the Boresight Cal. flight.

Tomorrows forecast looks favorable for a Radiometric Cal. Flight over Table Mountain.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

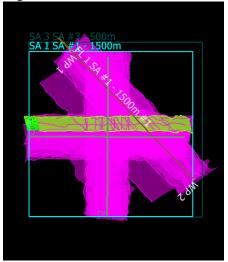
Line#

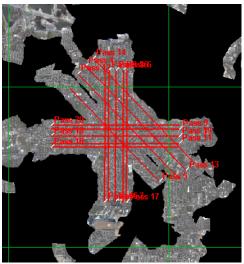
D00|B10F

Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	√	✓	✓	✓	✓	√	✓	✓	\	\	✓	✓	✓	/	\	\	\	✓	✓
Spectrometer	√	✓	✓	√	✓	√	✓	✓	✓	✓	√	√								
Camera	√	√	✓	✓	✓	√	√	✓	√											
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots





LIDAR NIS

Cumulative Domain Coverage

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

Flown: 100% (20/20) Green: 10% (2/20) Yellow: 90% (18/20) Red: 0% (0/20)

D00 | H10D (NEON Headquarters Lidar Validation - Galaxy)

1 2 3 4

Flown: 100% (4/4) Green: 0% (0/4) Yellow: 100% (4/4) Red: 0% (0/4)

D00 | N10F (Nominal Runway at KBDU - Galaxy)

1																			
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	36	37			

Flown: 100% (37/37) Green: 0% (0/37) Yellow: 100% (37/37) Red: 0% (0/37)

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
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Flown: 100% (5/5) Green: 100% (5/5) Yellow: 0% (0/5) Red: 0% (0/5)

D00 R10F (Boulder Airport Radiometric Calibration - Galaxy)

1	2	3	4	5

Flown: 80% (4/5) Green: 80% (4/5) Yellow: 0% (0/5) Red: 0% (0/5)

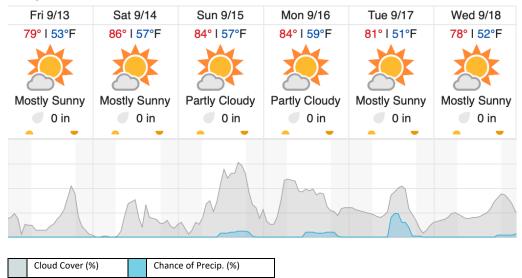
D00 | W10D (Wiggle Timing Test - Galaxy)

1 2

Flown: 100% (2/2) Green: 0% (0/2) Yellow: 100% (2/2) Red: 0% (0/2)

Weather Forecast

KBDU



source: wunderground.com

Flight Collection Plan for 13 September 2024

Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v_PRM

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: Nominal Runway Survey

Flight Plan Name: D10_N10D_Nominal_Rnwy_v8_Q780

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

Flyority 3

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10_H10D_HQ_LIDAR_Validation_v2_PRM

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

Flyority 4

Collection Area: Wiggle Timing Test

Flight Plan Name: D10_W10D_Wiggle_Test_v7_PRM

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

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

Flyority 5

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10C_NIS_Offset_v3_PRM

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

Flight Crew

Nick (Lidar), Matt (NIS)