



Payload 1 Daily Flight Report



Date: 2023-04-06

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 00 (Training & Calibration)

Sites Flown: Transit, R10F (Boulder Airport Radiometric Calibration - Galaxy)

Days left in Domain: 8

Report Author: Cameron

Lidar Operators: Nick

Flight Hours: 02:22, 00:40

Spectrometer Operators: Cameron

Hours until maintenance: 97.70

Pilots: Jeff, Will

GPS Instruments: AOP_KBDU

Ground Crew: Mike

Summary

Payload 1 completed the transit from D17 this morning. The flight crew was greeted with clear skies in Boulder. We completed the Radiometric Calibration flight in "Green" sky conditions.

Concerns

- None

Comments

- Nick completed P1 Lidar Recertification

Daily Coverage

Estimated Cloud Cover Key

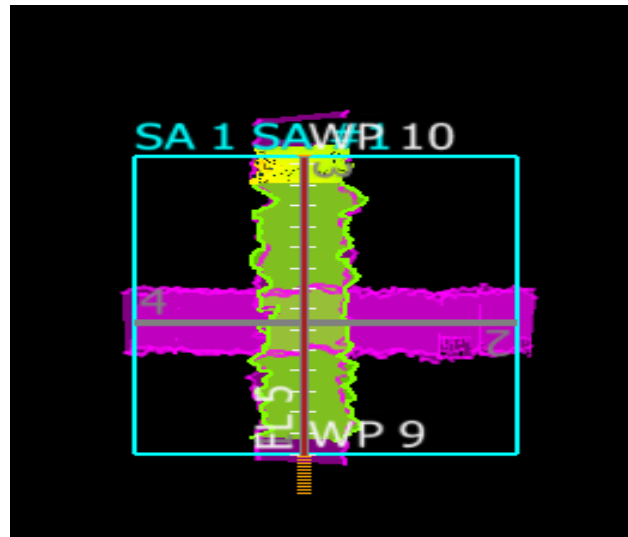
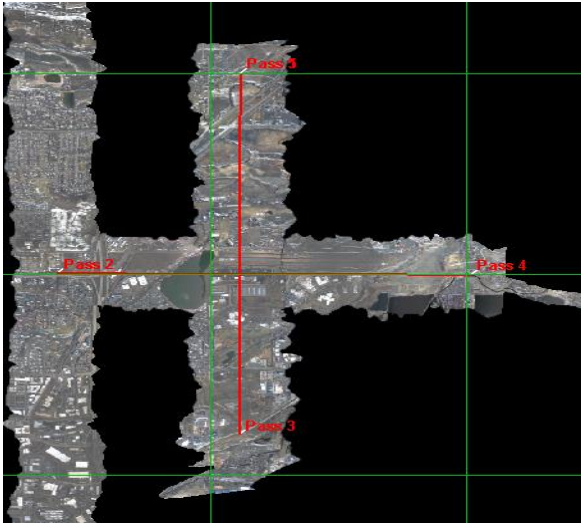
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|R10F

Line #	1	2	3	4	5
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

Flight Screenshots



Pictures



Above: The traps used for the radiometric calibration were deployed at KBDU and can be seen on the tarmac
Below: A beautiful view of the front range.



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
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Flown: 100% (20/20)

Green: 0% (0/20)

Yellow: 75% (15/20)

Red: 25% (5/20)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

1	2	3	4
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Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 100% (4/4)

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	36	37			

Flown: 100% (37/37)

Green: 14% (5/37)

Yellow: 86% (32/37)

Red: 0% (0/37)

D00|O10C (NIS Offset - Galaxy)

1	2
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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: 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
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Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|V10F ()

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											

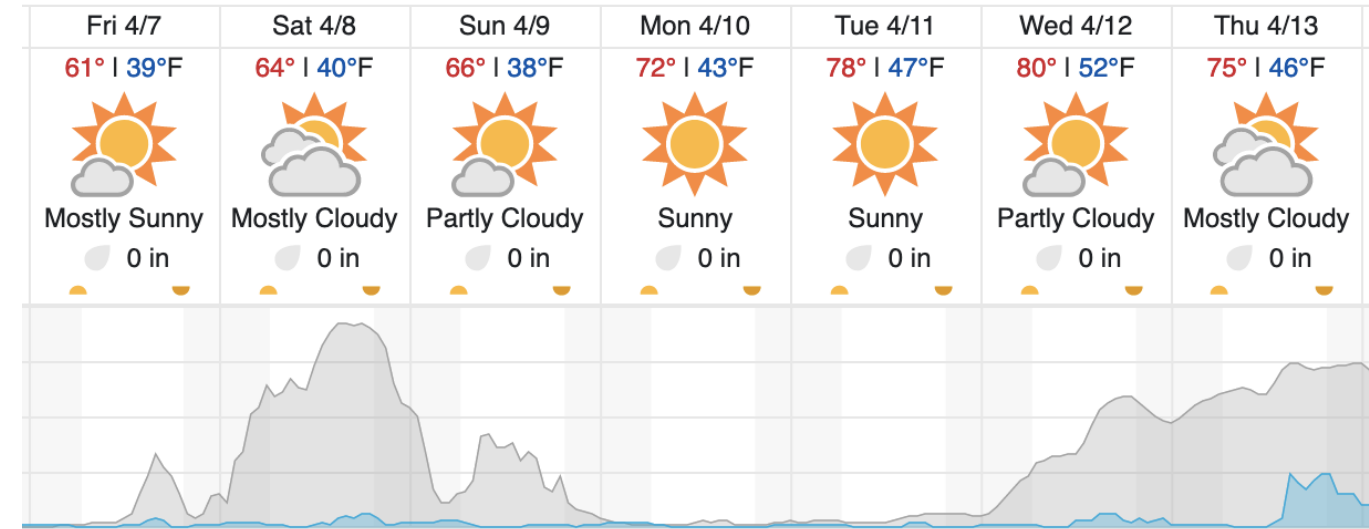
Flown: 14% (4/29)
Green: 0% (0/29)
Yellow: 14% (4/29)
Red: 0% (0/29)

D00|W10D (Wiggle Timing Test - Galaxy)

1	2
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Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 100% (2/2)

Weather Forecast



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

Flight Collection Plan for 7 April 2023

Flyority 1

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM.xml

35° On-station Time: 1620 UTC / 1030 L

Flight Crew

Mike (Lidar), Mitch (NIS), Abe (Ground)