



Payload 2 Daily Flight Report



Date: 2020-08-15

Flight Campaign ID: P2C1

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

Domain: 00 (Training & Calibration)

Sites Flown: B10B (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 500m)

Days left in Domain: 16

Report Author: Robb Walker

Lidar Operators: Robb Walker

Flight Hours: 02:06

Spectrometer Operators: John Adler

Hours until maintenance: 18.22

Pilots: Chad Evans, Stephen Brawders

GPS Instruments: AOP_KBDU, U-CHLL

Ground Crew: Michael Wussow

Summary

Smoke continues to prevent collection at CPER as four fires burn uncontained. Payload 2 was able to collect the Greeley Boresight Geocalibration needed for new camera.

Concerns

None

Comments

-Four fires are burning in Colorado and contributing to the smoke problem in the front range: Pine Gulch (7% contained), Grizzly Creek (0% contained), Cameron Peak (0% contained) and Williams Fork (0% contained)

-Hg Lamp calibration collected today with pictures taken for Alok and JPL.

Daily Coverage

Estimated Cloud Cover Key

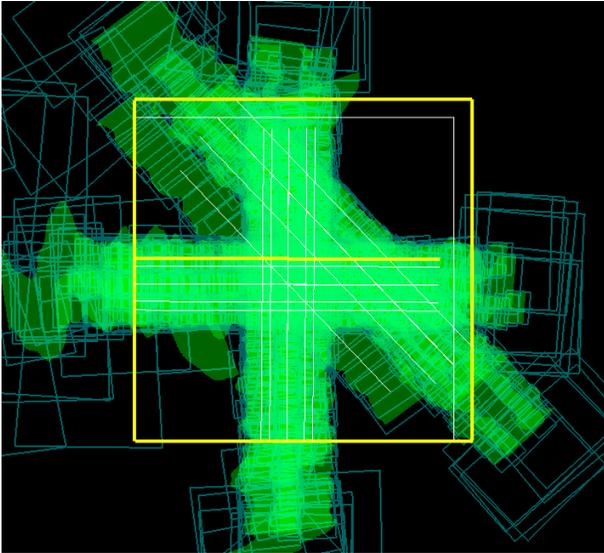
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|B10B

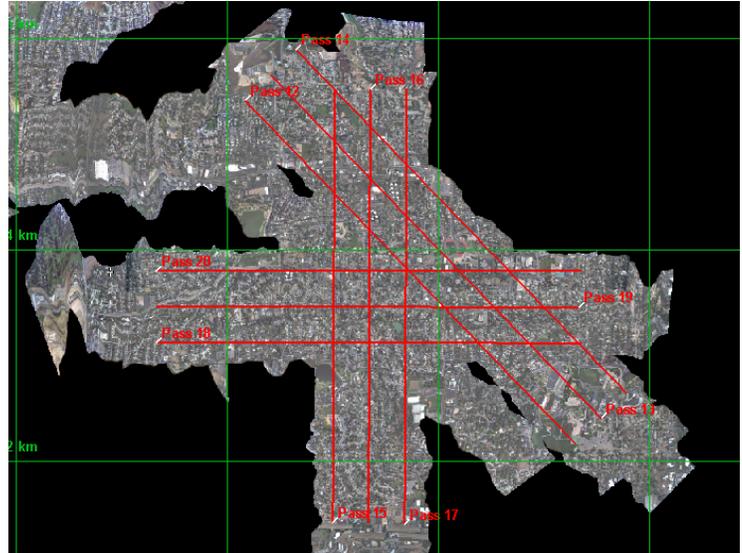
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



Lidar (B10B)



NIS (B10B)

Pictures



Smoke settling in over the front range.

Cumulative Domain Coverage

D00|B10B (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 500m)

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: 100% (20/20)

Yellow: 100% (20/20)

Red: 0% (0/20)

D00|CPER (Satellite Overpass Coincident Collection - Central Plains Ecological Range)

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|F10A (D10 BRDF Flight - Central Plains Ecological Range)

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|H10B (NEON Headquarters Lidar Test - modified cross-track)

1	2	3	4
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Flown: 100% (4/4)
 Green: 50% (2/4)
 Yellow: 50% (2/4)
 Red: 0% (0/4)

D00|N10C (Nominal Runway at KBDU - Optech)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (14/14)
 Green: 0% (0/14)
 Yellow: 0% (0/14)
 Red: 100% (14/14)

D00|O10A (NIS Offset)

1	2	3	4	5
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Flown: 100% (5/5)
 Green: 100% (5/5)
 Yellow: 0% (0/2)
 Red: 0% (0/2)

D00|R10A (Table Mountain Radiometric Calibration)

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)

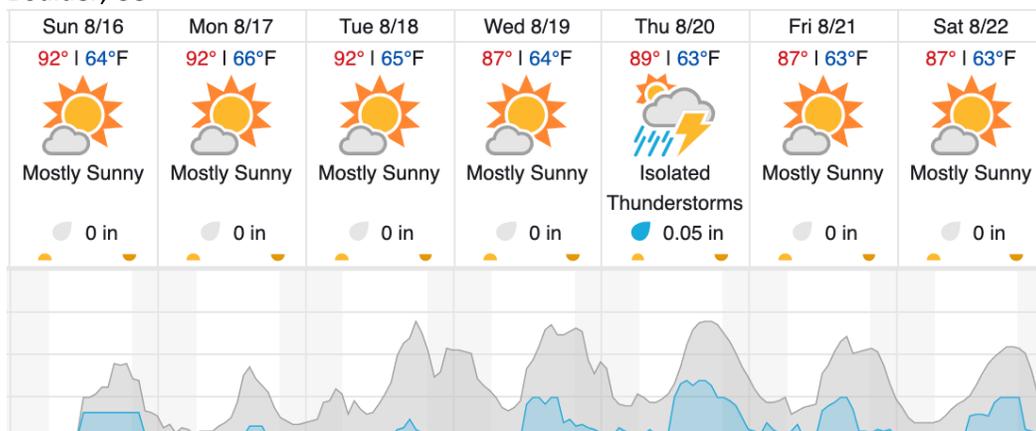
D00|W10B (Wiggle Timing Test)

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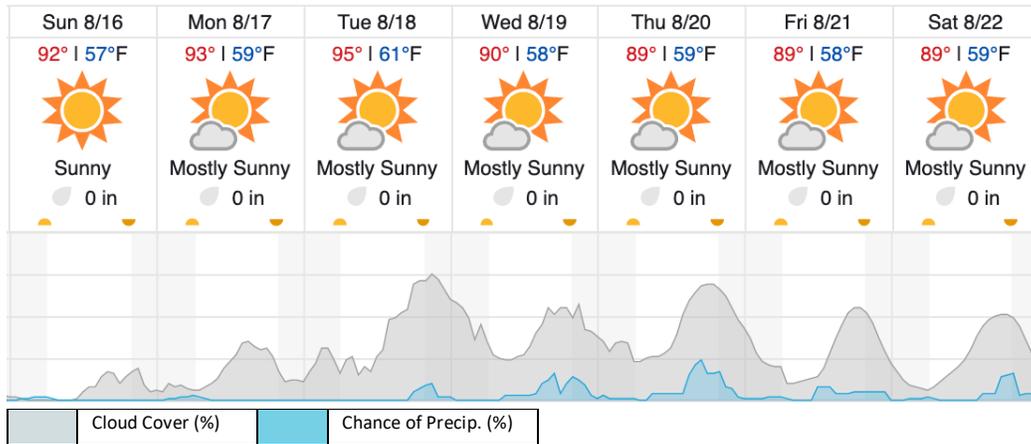
Flown: 100% (2/2)
 Green: 0% (0/2)
 Yellow: 0% (0/2)
 Red: 100% (2/2)

Weather Forecast

Boulder, CO



Nunn, CO (CPER)



Flight Collection Plan for 16 August 2020

Flyority 1

Collection Area: Radiometric Calibration at Table Mountain

Flight Plan Name: D10_R10A_Radiometric_Calibration_Table_Mountain_v1.pln

On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

Flyority 2

Collection Area: Satellite Overpass Coincident Collection – Central Plains Ecological Range (only if conditions are “green”)

Flight Plan Name: D10_CPER_C1_P1_v4.pln

On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

Flyority 3

Collection Area: D10 BRDF Flight – Central Plains Ecological Range (only if conditions are “green”)

Flight Plan Name: D10_F10A_BRDF_v1.pln

On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC

Flyority 4

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10_V10C_Boulder_City_v6.pln

On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

Crew members: John (Lidar), Robb (NIS), Mike (Ground); Bridget, Dave (Tarps)

Flight Collection Plan for 17 August 2020

Flyority: Same as previous day

Crew members: Ivana (Lidar), Robb (NIS), Mike (Ground); Bridget, Dave (Tarps)