



Payload 2 Daily Flight Report

Date: 2020-08-09

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: 22

Report Author: Michael Wussow

Lidar Operators: Michael Wussow

Flight Hours: 02:11

Spectrometer Operators: Ivana Vu

Hours until maintenance: 24.57

Pilots: Justin Eddington, Stephen Brawders

GPS Instruments: AOP_KBDU, U-CHLL

Ground Crew: John Adler

Summary

While primarily cloudless in north central Colorado, smoke from the Pine Gulch fire near Grand Junction blanketed much of the area in a smoky haze. These conditions were not ideal for spectrometer research flights but considered acceptable for the Greeley Boresight flight with consistent illumination of the ground. The entire B10B flight plan was flown today.

Concerns

Smoke from the Pine Gulch fire may persist as the fire grows.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

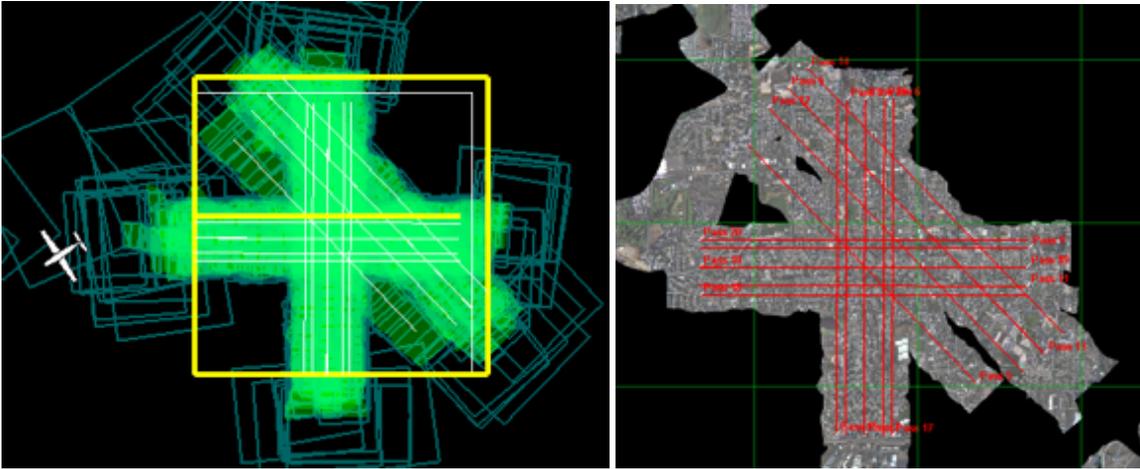
Green:	Yellow:	Red:
0-10%	11-50%	>50%

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



Pictures



Moderate haze when looking southeast

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: 0% (0/20)

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

D00|R10A (Table Mountain Radiometric Calibration)

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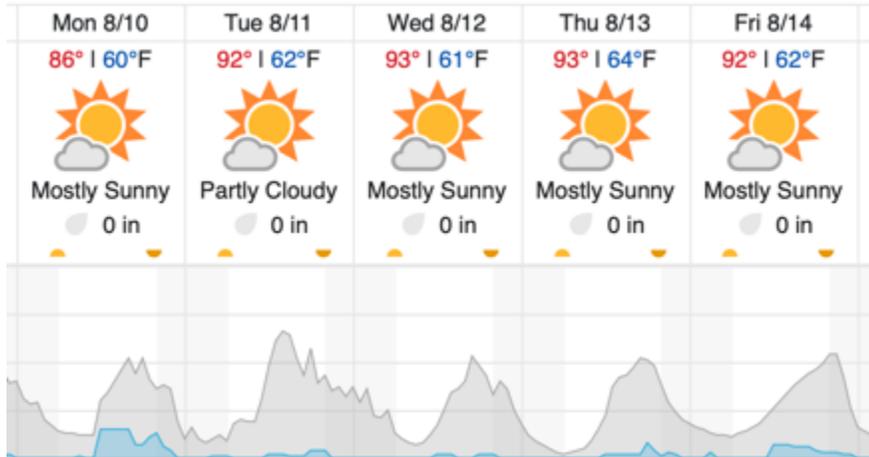
Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|W10B (Wiggle Timing Test)

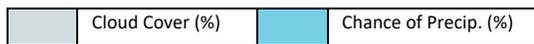
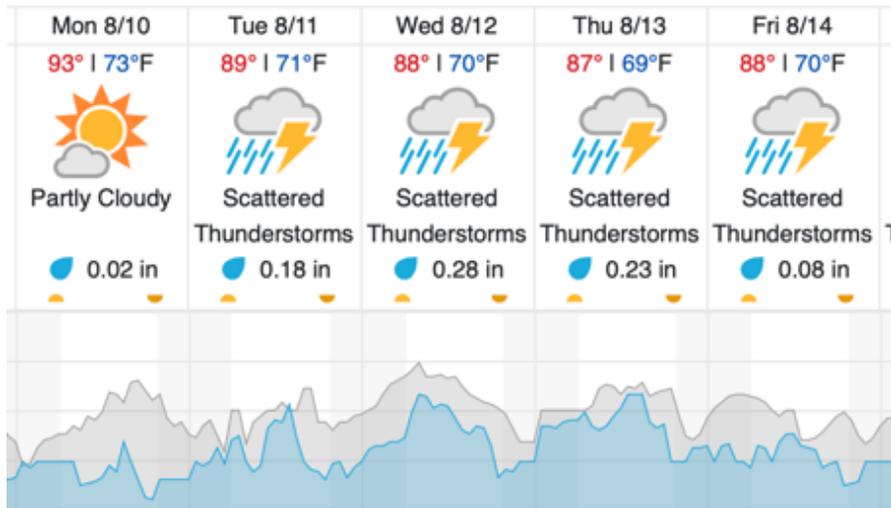
1	2
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Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 100% (2/2)

Weather Forecast
Boulder, CO



Nunn, CO



Flight Collection Plan for 10 August 2020

Flyority 1

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 2

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 3

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 4

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10A_NIS_Offset_v1.pln

On-station Time: 0930 – 1650 Local / 1530 – 2250 UTC

Crew members: Ivana (Lidar), Mike (NIS), John (Ground); Tristan, Alok, Robb (Tarps)

Flight Collection Plan for 11 August 2020

Flyority: Same as previous day

Crew members: Mike (Lidar), Ivana (NIS), John (Ground); Tristan, Alok, Robb (Tarps)