



Payload 2 Daily Flight Report



Date: 2020-08-13

Flight Campaign ID: P2C1

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

Domain: 00 (Training & Calibration)

Sites Flown: O10A (NIS Offset)

Days left in Domain: 18

Report Author: Robb Walker

Lidar Operators: Robb Walker

Flight Hours: 00:21:00, 00:19:00, 00:19:00, 00:18:00, 00:21:00

Spectrometer Operators: John Adler

Hours until maintenance: 22.55

Pilots: Chad Evans, Stephen Brawders

GPS Instruments: AOP_KBDU

Ground Crew: Ivana Vu

Summary

Smoke continues to flow into front range preventing engineering flights at CPER and Radiometric Calibration at Table Mountain. However, cumulus did delay long enough for Payload 2 to complete the NIS Offset under mostly yellow conditions.

Concerns

None

Comments

-Pine Gulch and Big Creek fires still burning with westerly winds bringing smoke to the front range. This trend with unfavorable winds will likely continue for the next few days.

Daily Coverage

Estimated Cloud Cover Key

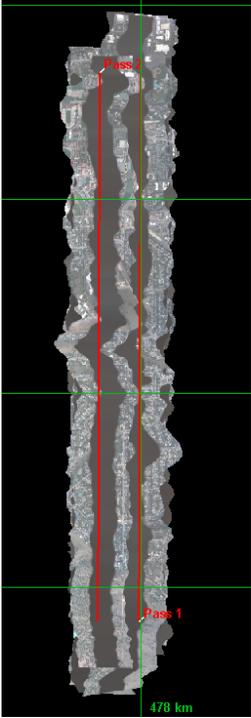
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|O10A

Line #	1	2
Lidar	✓	✓
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover	Yellow	Yellow

Total number of lines flown: 2

Flight Screenshots



Pictures



Layer of smoke across the front range this morning

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: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

D00|R10A (Table Mountain Radiometric Calibration)

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|W10B (Wiggle Timing Test)

1	2
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Flown: 100% (2/2)

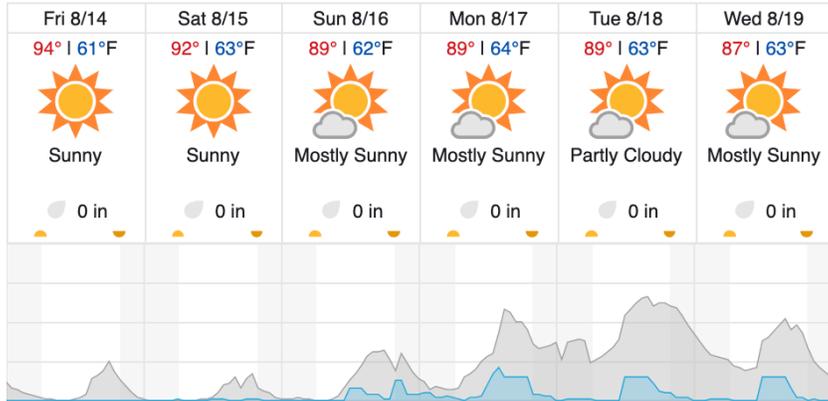
Green: 0% (0/2)

Yellow: 0% (0/2)

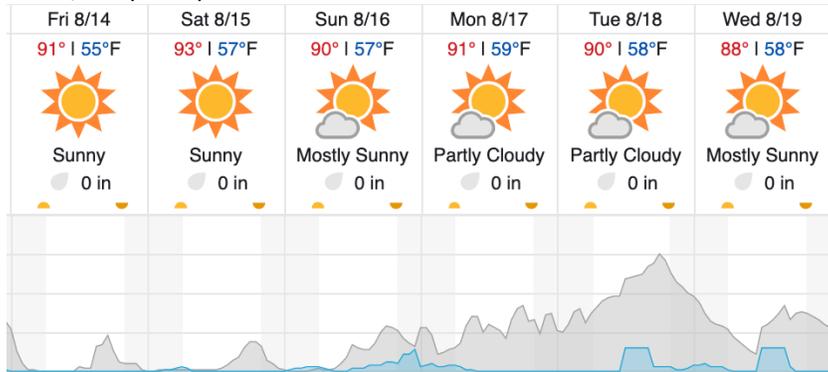
Red: 100% (2/2)

Weather Forecast

Boulder, CO



Nunn, CO (CPER)



Flight Collection Plan for 14 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

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

Flight Collection Plan for 15 August 2020

Flyority: Same as previous day

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