



Payload 3 Daily Flight Report



Date: 2020-08-22

Flight Campaign ID: P3C1

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

Domain: 00 (Training & Calibration)

Sites Flown: V10C (Boulder City Nominal Science Flight)

Days left in Domain: 26

Report Author: Robb Walker

Lidar Operators: Robb Walker, Cameron Chapman **Flight Hours:** 00:52

Spectrometer Operators: Mitch Haynes **Hours until maintenance:** 32.65

Pilots: Mike Francis, Lane Taylor

GPS Instruments: AOP_KBDU

Ground Crew: Ivana Vu, John Adler

Summary

With thick smoke in the area and data extraction delays this weekend, crew fill focus on recertifying payload 2 crew on the Riegl lidar.

Concerns

- Data extraction is on hold until Monday
- P3 air conditioning unit is inoperable
- Cabin sensor is not displaying pressure or humidity on Grafana

Comments

-Ivana completed Riegl recertification

-Justin Eddington arrived to replace Lane Taylor. Thanks Lane and welcome back Justin!

Daily Coverage

Estimated Cloud Cover Key

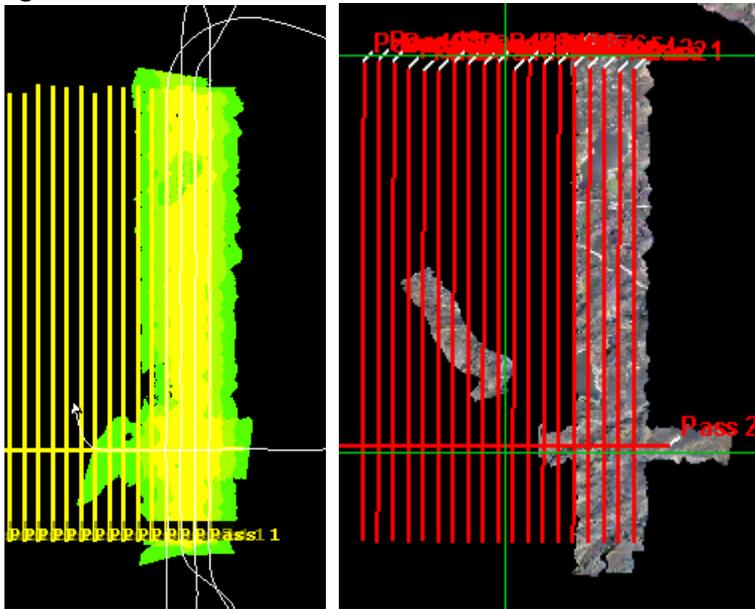
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|V10C

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

Total number of lines flown: 4

Flight Screenshots



Cumulative Domain Coverage

D00 | B10E (Riegl Boresight Calibration - 1600m, 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: 0% (0/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

D00 | CPER (Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER)

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% (0/27)

Green: 0% (0/27)

Yellow: 0% (0/27)

Red: 0% (0/27)

D00 | F10A (D10 BRDF Flight - CPER)

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 | H10C (NEON Headquarters Lidar Test - Riegl)

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 100% (2/2)

D00 | K10A (2000m Multiple Altitude Test Flight - CPER)

2	3	4	5	6	7	8	9	10	11	12	13
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Flown: 0% (0/12)

Green: 0% (0/12)

Yellow: 0% (0/12)

Red: 0% (0/12)

D00|K10B (2000m Multiple Altitude Test Flight - RMNP)

2	3	4	5	6	7	8	9	10	11	12	13
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Flown: 0% (0/12)

Green: 0% (0/12)

Yellow: 0% (0/12)

Red: 0% (0/12)

D00|N10D (Nominal Runway at KBDU - Riegl)

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															

Flown: 92% (24/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 92% (24/26)

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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|RMNP (1000m Multiple Altitude Test Flight - RMNP)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Flown: 0% (0/18)

Green: 0% (0/18)

Yellow: 0% (0/18)

Red: 0% (0/18)

D00|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)

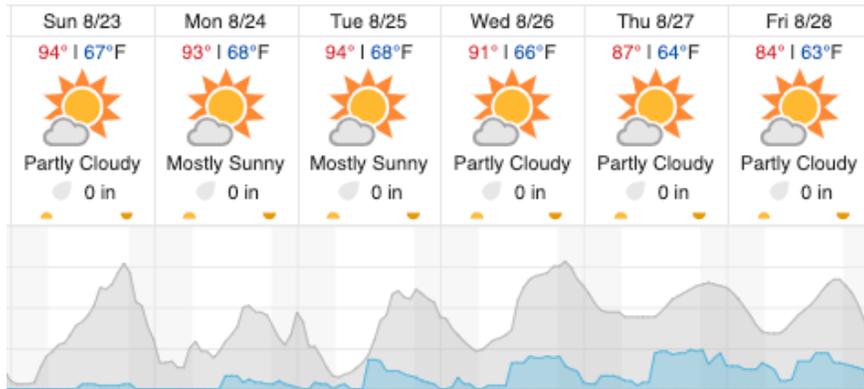
Green: 0% (0/2)

Yellow: 0% (0/2)

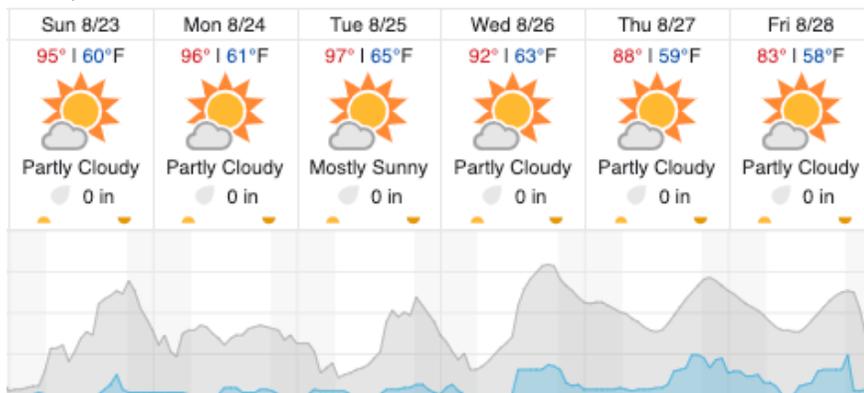
Red: 100% (2/2)

Weather Forecast

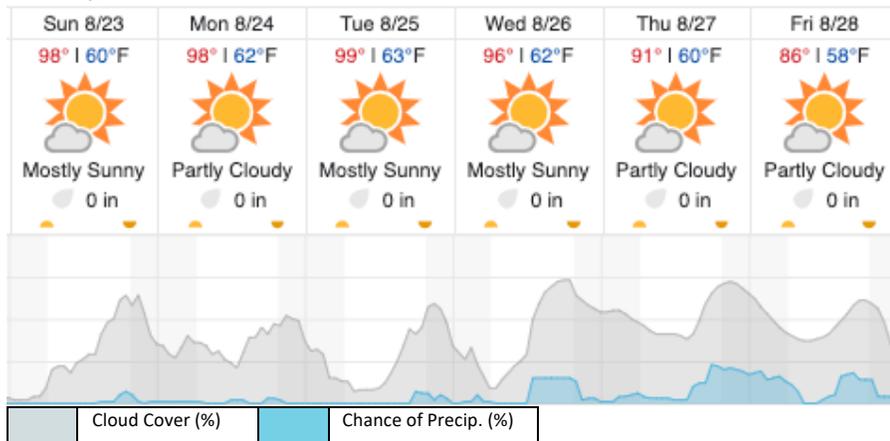
Boulder, CO



Nunn, CO



Greeley, CO



Flight Collection Plan for 23 August 2020

(Flight Order Priority subject to change)

Flyority 1

Collection Area: Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER

Flight Plan Name: D10_CPER_C1_P1_v6_Q780

On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

Flyority 2

Collection Area: 2000m Multiple Altitude Flight - CPER

Flight Plan Name: D10_K10A_Multiple_Alt_2000m_v1

On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

Flyority 3

Collection Area: 1000m Multiple Altitude Test Flight - RMNP

Flight Plan Name: D10_RMNP_R2_P1_v2_Q780

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

Flyority 4

Collection Area: 2000m Multiple Altitude Flight - RMNP

Flight Plan Name: D10_K10B_Multiple_Alt_v2

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

Flyority 5

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

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

Flyority 6

Collection Area: Riegl Boresight Calibration at Greeley

Flight Plan Name: D10_B10E_Boresight_1600m_Q780

On-station Time: 0900 – 1700 Local / 1500 – 2300 UTC

Flyority 7

Collection Area: Nominal Runway

Flight Plan Name: D10_N10D_Nominal_Runway_v8_Q780

Flyority 8

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

On-station Time: 0930 – 1640 Local / 1530 – 2240 UTC

Crew: Cameron (Trainer), John (Lidar), Ivana (NIS), Robb (Ground)

Flight Collection Plan for 24 August 2020

Flyority: Same as previous day

Crew: Mitch (Lidar), Cameron (NIS), Matt (Ground)