



Payload 3 Daily Flight Report



Date: 2020-08-23

Flight Campaign ID: P3C1

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

Domain: 00 (Training & Calibration)

Sites Flown: V10C (Boulder City South)

Days left in Domain: 25

Report Author: John Adler

Lidar Operators: John Adler

Flight Hours: 00:43

Spectrometer Operators: Ivana Vu

Hours until maintenance: 31.88

Pilots: Justin Eddington, Mike Francis

GPS Instruments: AOP_KBDU

Adt'I Flight Crew: Cameron Chapman

Ground Crew: Robb Walker

Summary: Today John Adler completed his Riegl lidar checkflight; conditions were poor for any other flight activity due to the smoke throughout the region.

Concerns: The HotelKit-3 RAID drive problems could force the crew to use the backup HotelKit-5, which would require extractions to happen at Headquarters in the Lab.

Comments: Today the AXE ground power indicated voltages (~20-28) even when we were on Survey Power with ground power removed.

Daily Coverage

Estimated Cloud Cover Key

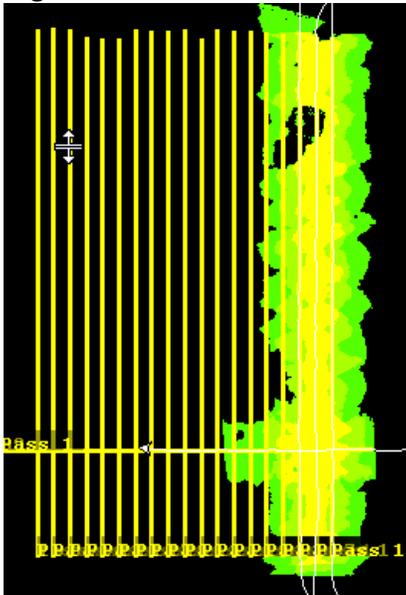
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|V10C

Line #	1	2	3	29
Lidar	✓	✓	✓	
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	
Cloud Cover				

Total number of lines flown: 4

Flight Screenshots



Riegl lidar screenshot.

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)

11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Flown: 0% (0/14)

Green: 0% (0/14)

Yellow: 0% (0/14)

Red: 0% (0/14)

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	3	4
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Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 100% (4/4)

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

6	7	8	9	10	11
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Flown: 0% (0/6)

Green: 0% (0/6)

Yellow: 0% (0/6)

Red: 0% (0/6)

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

2	3	4	5	6	7
---	---	---	---	---	---

Flown: 0% (0/6)
Green: 0% (0/6)
Yellow: 0% (0/6)
Red: 0% (0/6)

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: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

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|V10C (Boulder City South)

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												

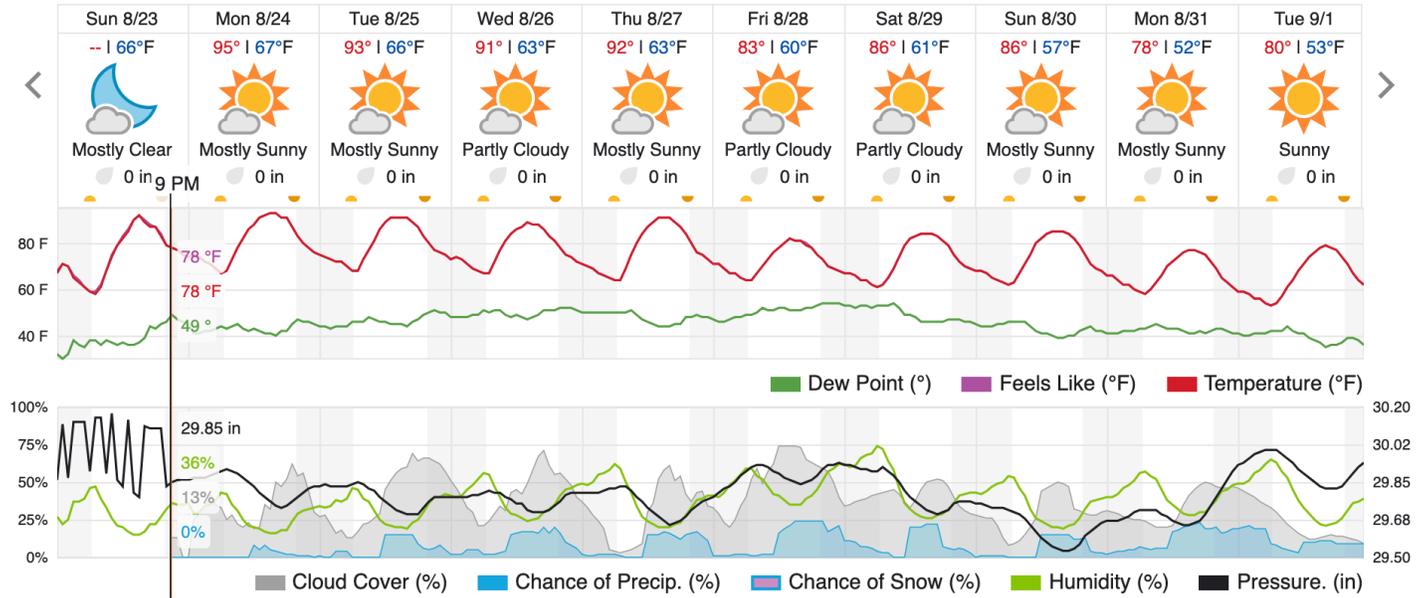
Flown: 17% (5/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 17% (5/29)

D00|W10C (Wiggle Timing Test - Riegl)

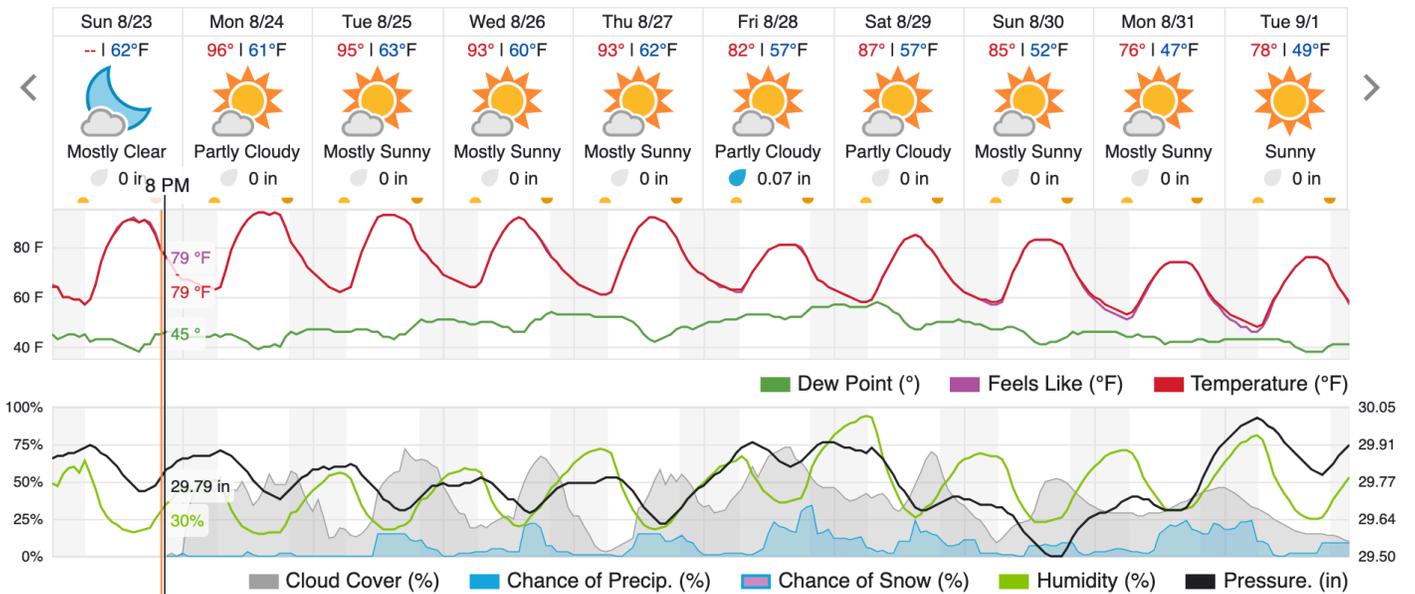
1	2
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Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 100% (2/2)

Weather Forecast Boulder, CO



Weather Forecast Nunn, CO (CPER)



Flight Collection Plan for 24 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: Mitch (Lidar), Cameron (NIS), Matt (Ground)