



Payload 3 Daily Flight Report



Date: 2020-08-30
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00 (Training & Calibration)
Sites Flown: B10E (Riegl Bovesight Calibration - 1600m, 1000m, 500m)
Days left in Domain: 18

Report Author: Robb Walker
Lidar Operators: Robb Walker **Flight Hours:** 02:42
Spectrometer Operators: Cameron Chapman **Hours until maintenance:** 25.85
Pilots: Jeff Quintanilla, Justin Eddington **GPS Instruments:** AOP_KBDU, U-CHLL
Ground Crew: Mitch Haynes

Summary

Payload-3 was able to collect Bovesight Calibration this morning before clouds and wind increased. A couple of lines at the higher altitude could not be kept at 100knts due to high tailwinds.

Concerns

None

Comments

-Some lines in lower flight level kml's did not match summary flight line numbering, but summary sequence was followed. This may have been due to loading B10D_1600m, B10D_1000m, and B10D_500m kmls, rather than B10E_Bovesight_Q780_ftlines_all and hopefully won't be an issue during extraction.

Daily Coverage

Estimated Cloud Cover Key

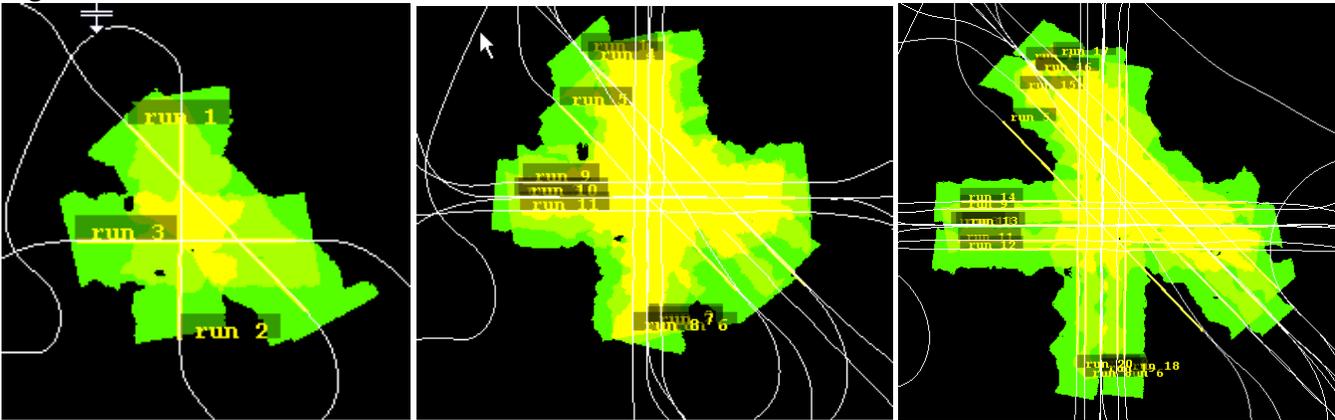
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|B10E

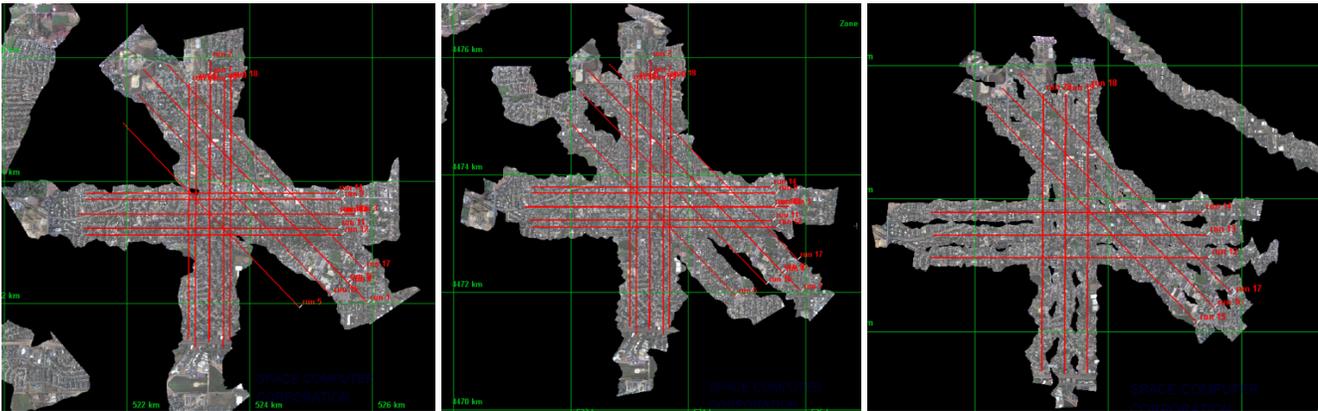
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



Lidar



NIS

Pictures



Skies over Greeley this morning.

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: 100% (20/20)

Green: 70% (14/20)

Yellow: 30% (6/20)

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: 92% (24/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 92% (24/26)

D00|O10B (NIS Offset - Riegl)

1 2

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

Flown: 100% (5/5)
 Green: 100% (5/5)
 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

Flown: 0% (0/18)
 Green: 0% (0/18)
 Yellow: 0% (0/18)
 Red: 0% (0/18)

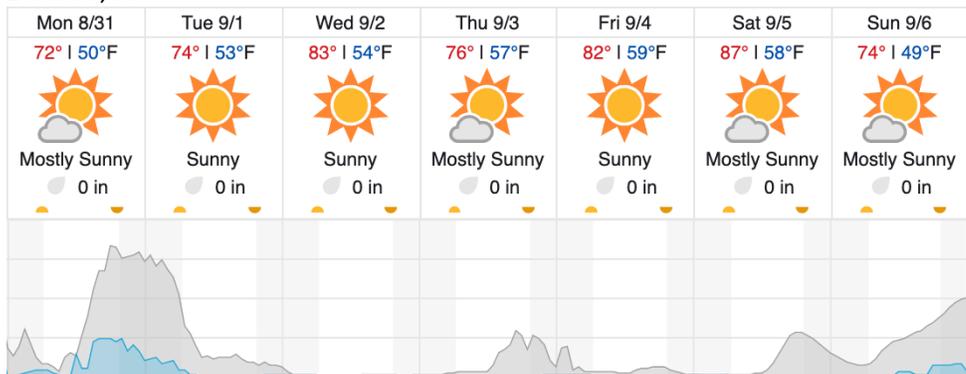
D00|W10C (Wiggle Timing Test - Riegl)

1 2

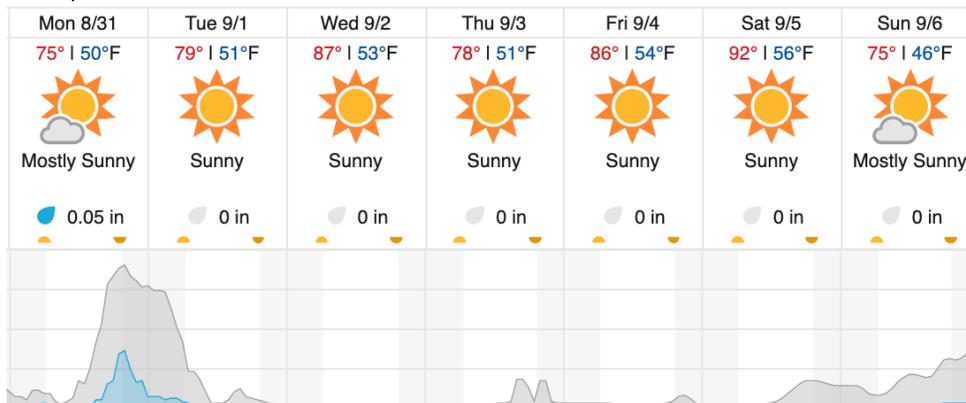
Flown: 100% (2/2)
 Green: 0% (0/2)
 Yellow: 0% (0/2)
 Red: 100% (2/2)

Weather Forecast

Boulder, CO



Nunn, CO



Cloud Cover (%) Chance of Precip. (%)

Flight Collection Plan for 31 August 2020

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: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

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

Monday 8/31 Crew: Cam (Lidar), Ivana (NIS), Robb (Ground)

Tuesday 9/1 Crew: Mitch (Lidar), Robb (NIS), Cam (Ground)

Wednesday 9/2 Crew: Robb (Lidar), Cam (NIS), Mitch (Ground)