



Payload 3 Daily Flight Report



Date: 2020-06-10

Flight Campaign ID: P3C1

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

Domain: 00 (Training & Calibration)

Sites Flown: O10B (NIS Offset - Riegl)

Days left in Domain: 19

Report Author: Cameron Chapman

Lidar Operators: Cameron Chapman

Spectrometer Operators: Elissa Barris

Pilots: Mike Francis, Justin Eddington

Ground Crew: Mitch Haynes

Flight Hours: 02:03

Hours until maintenance: 113

GPS Instruments: 06 - FBO_KBDU, NGN-KBDU

Summary

- Good weather conditions in Boulder allowed for the successful completion of the NIS offset flight.

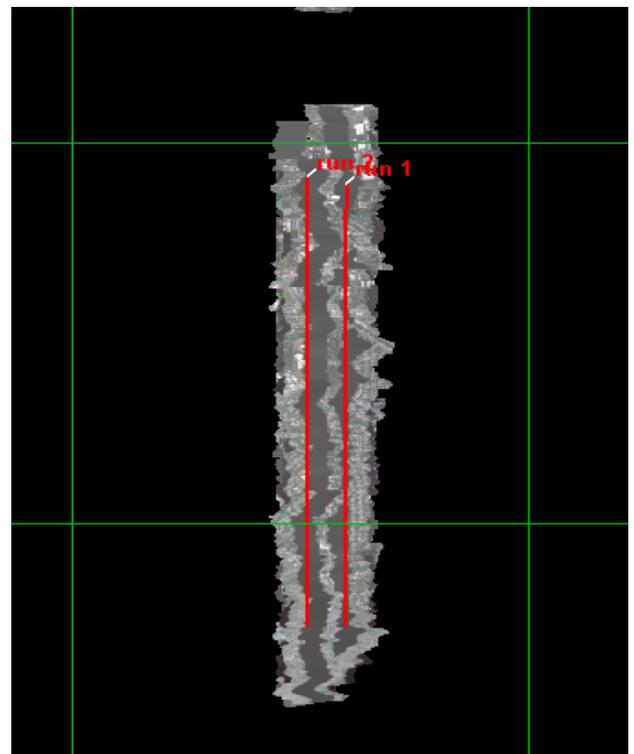
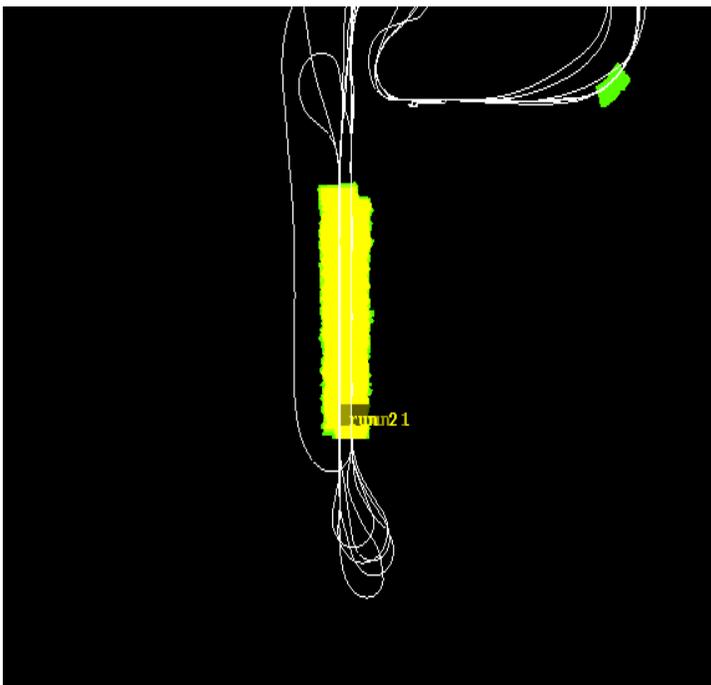
Concerns

- Flight database not generating daily report, Ivana Vu is investigating.
- We will continue to monitor the POS system for issues.

Comments

- Collin Williams from the outreach team spent the day observing payload 3. He captured photos and videos which will potentially be use to update the AOP website and create a virtual tour.

Flight Screenshots



Pictures:



Above: Payload 3 practices social and physical distancing as payload 2 is spotted in the distance. (Photo credit Elissa)
Below: Beautiful view this morning for the NIS Offset calibration flight. (Photo credit Cam)



D00|O10B

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

Total number of lines flown: 2 (5 times)

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|H10C (NEON Headquarters Lidar Test - Riegl)

1	2
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Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

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: 62% (16/26)

Red: 31% (8/26)

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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|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: 7% (2/29)

Green: 0% (0/29)

Yellow: 0% (0/29)

Red: 7% (2/29)

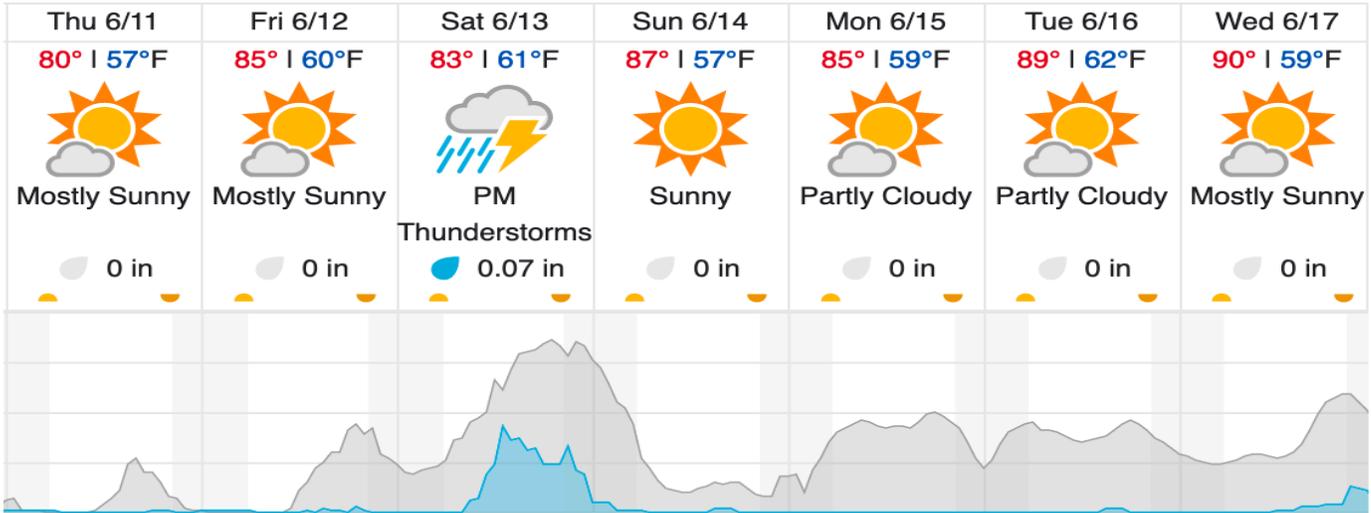
D00|W10C (Wiggle Timing Test - Riegl)

1 2

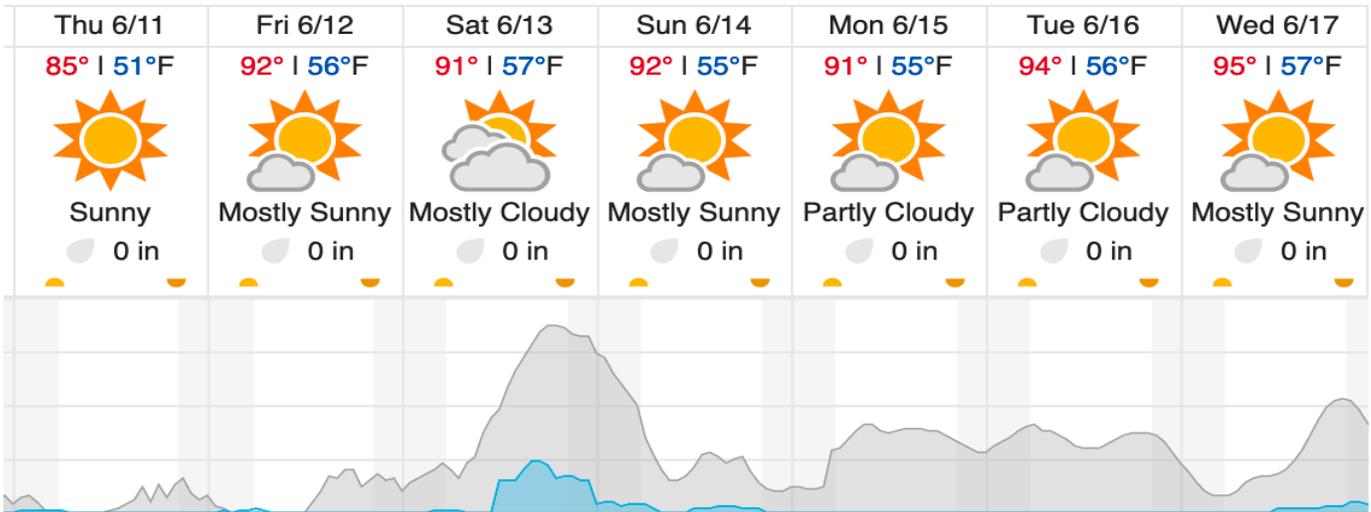
Flown: 100% (2/2)
 Green: 0% (0/2)
 Yellow: 100% (2/2)
 Red: 0% (0/2)

Weather Forecast

Boulder, CO (KBDU)



Greeley, CO



Flight collection plans for 11 June 2020:

Flyority 1

Collection Area: Riegl Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1000m_Q780

On-Station Time: 14:50 UTC / 08:50L

Flight Crew: Elissa Barris (Lidar), Mitch Haynes (NIS), Cameron Chapman (Ground)