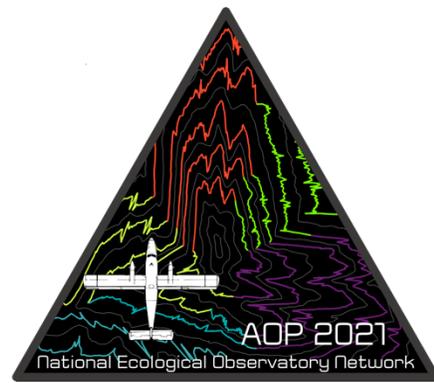




Payload 3 Daily Flight Report



Date: 2021-03-27
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N615AR

Domain: 00 (Training & Calibration)
Sites Flown: B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)
Days left in Domain: 2

Report Author: Matt Devoe
Lidar Operators: Matt Devoe
Spectrometer Operators: Robb Walker
Pilots: Justin Eddington, Micah Hoogeveen
Adt'l Flight Crew: John Adler

Flight Hours: 02:07
Hours until maintenance: 110.80
GPS Instruments: AOP_KBDU, U-CHLL
Ground Crew: Michael Wussow

Summary

GeoCal boresight was completed today under yellow conditions. Cumulus clouds in the area with minimal shadows observed in the target area.

Concerns

Thumbnail and histogram were observed during test firing but not during collections.

Comments

Radiometric and NIS offset Cal. flights remaining.

Daily Coverage

Estimated Cloud Cover Key

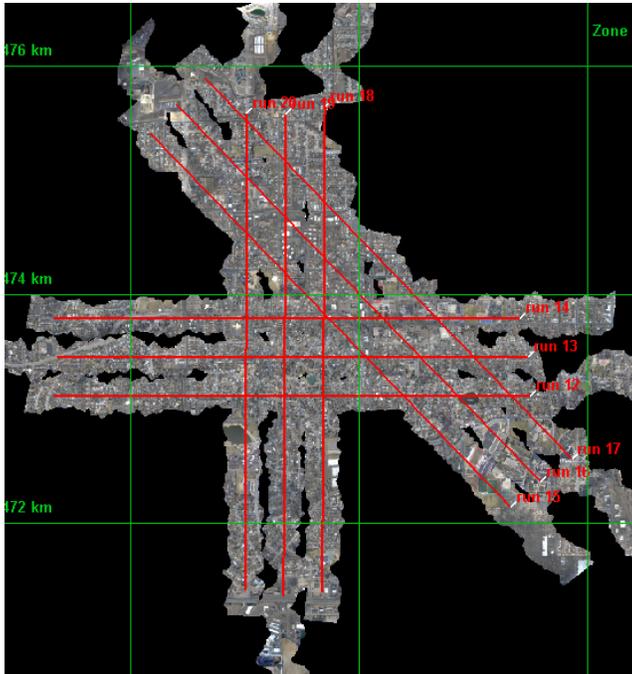
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|B10E

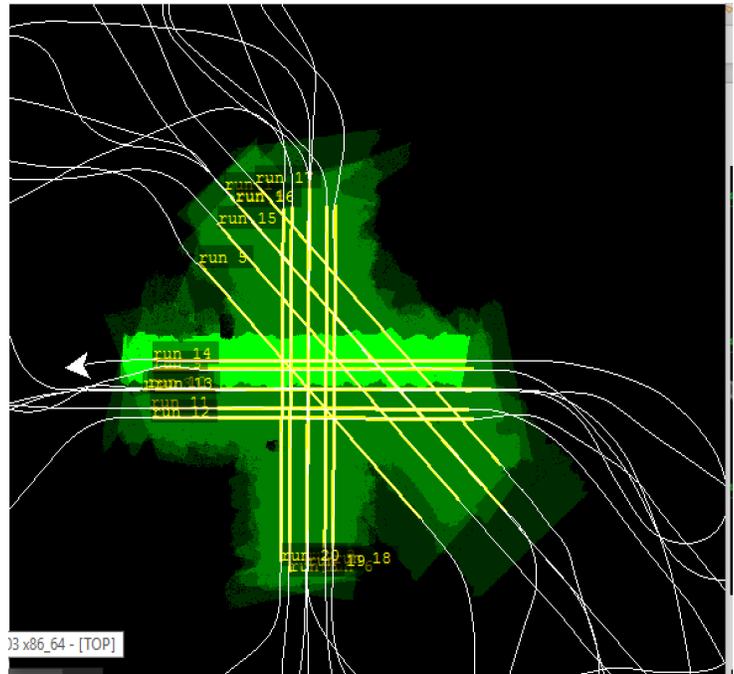
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



NIS



LIDAR

Cumulative Domain Coverage

D00|B10E (Riegl Borelight Calibration - 1600m, 1000m, 500m)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

Flown: 100% (20/20)

Green: 0% (0/20)

Yellow: 100% (20/20)

Red: 0% (0/20)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

1	2	3	4
---	---	---	---

Flown: 100% (4/4)

Green: 0% (0/4)

Yellow: 0% (0/4)

Red: 100% (4/4)

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	27	28												

Flown: 86% (24/28)

Green: 46% (13/28)

Yellow: 0% (0/28)

Red: 39% (11/28)

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: 0% (0/5)
 Green: 0% (0/5)
 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											

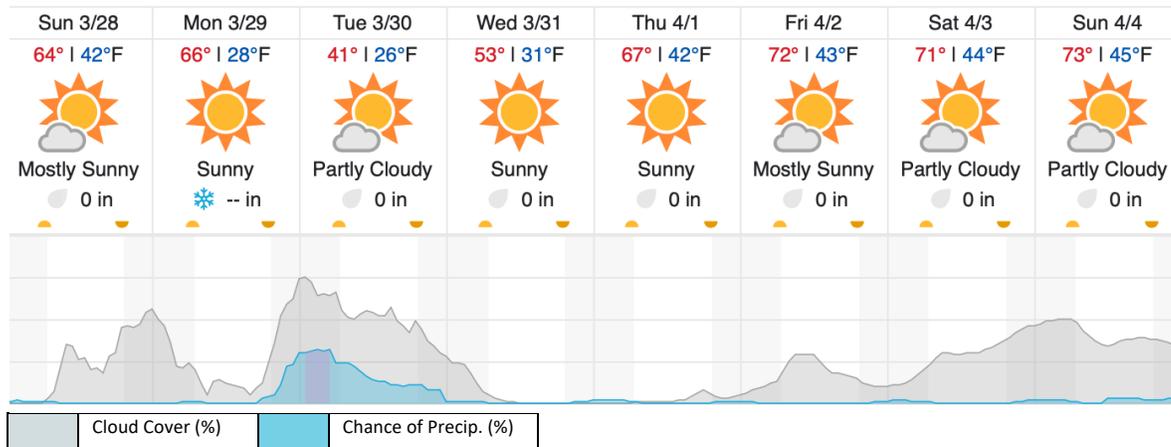
Flown: 31% (9/29)
 Green: 0% (0/29)
 Yellow: 0% (0/29)
 Red: 31% (9/29)

D00 | W10C (Wiggle Timing Test - Riegl)

1	2
---	---

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

Weather Forecast



source: wunderground.com

Flight Collection Plan for March 28th, 2021

Flyority 1

Collection Area: Table Mountain Radiometric Calibration – Boulder Airport
 Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
 On-station Time: 1700 UTC / 1100 L
 Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: NIS Offset Flight
 Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
 On-station Time: 1630 UTC / 1030 L

Flight Crew: Mike, John, Robb, Matt, Bridgett

