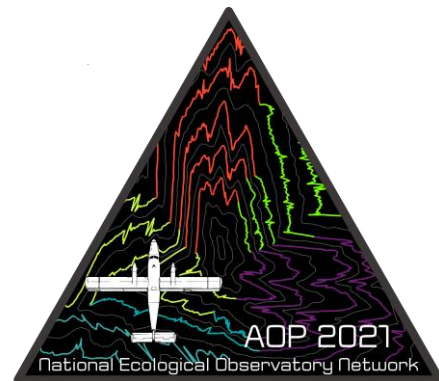




Payload 3 Daily Flight Report



Date: 2021-09-17

Flight Campaign ID: P3C1

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

Aircraft: N615AR

Domain: 10 (Central Plains)

Sites Flown: N10D (Nominal Runway at KBDU - Riegl), W10C (Wiggle Timing Test - Riegl)

Days left in Domain: 7

Report Author: Abe Morrison

Lidar Operators: Abe Morrison

Spectrometer Operators: Nick Marusich

Pilots: Scott Hayward, Will Mathews

Ground Crew: Matt Devoe

Flight Hours: 02:22

Hours until maintenance: 9.20

GPS Instruments: AOP_KBDU

Summary

After waiting for the overcast to clear this morning, the Nominal Runway flight was conducted as was the Wiggle Timing flight. The only remaining calibration flight is the Greeley Boresight.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D10|N10D

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																				

Line #	21	22	23	24
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 24

D10|W10C

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

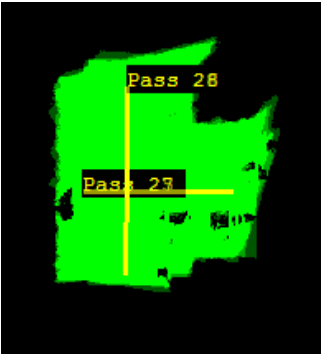
Total number of lines flown: 2

Flight Screenshots

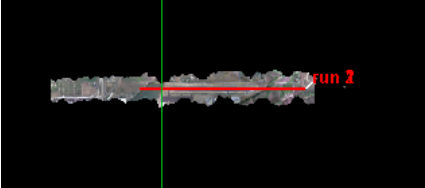
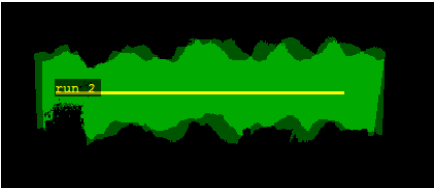
Lidar

NIS

N10D



W10C



Cumulative Domain Coverage

D10|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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

Flown: 30% (6/20)
Green: 20% (4/20)
Yellow: 10% (2/20)
Red: 0% (0/20)

D10|H10C (NEON Headquarters Lidar Test - Riegl)

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

Flown: 100% (4/4)
Green: 100% (4/4)
Yellow: 0% (0/4)
Red: 0% (0/4)

D10|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: 0% (0/28)
Yellow: 86% (24/28)
Red: 0% (0/28)

D10|O10B (NIS Offset - Riegl)

1	2
---	---

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

D10|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)

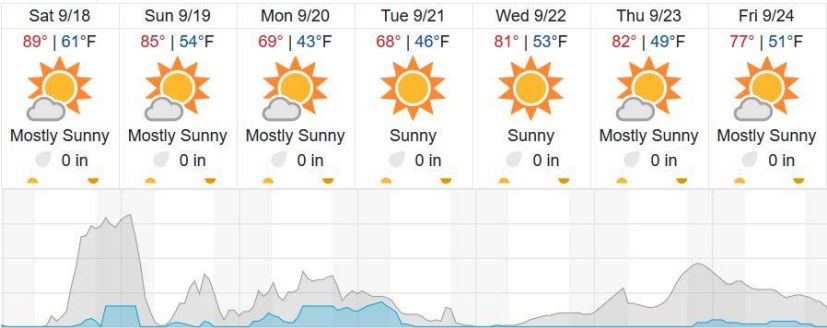
D10|W10C (Wiggle Timing Test - Riegl)

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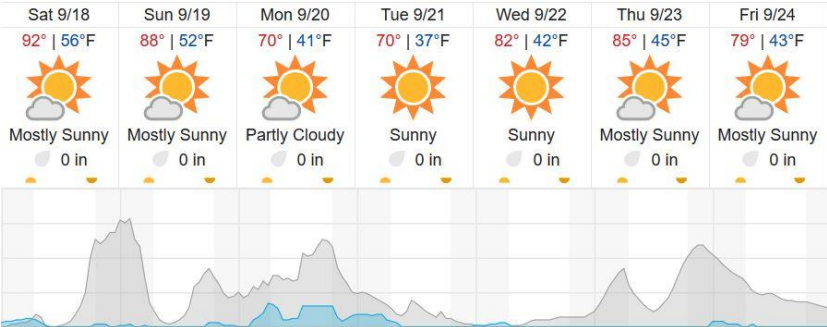
Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)

Weather Forecast

Boulder, CO



Greeley, CO



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for 18 September 2021

Flyority 1

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1600m_Q780

Flight Plan Name: D10_B10E_Boresight_1000m_Q780

Flight Plan Name: D10_B10E_Boresight_500m_Q780

On-station Time: 15:30 UTC / 09:30 L

Crew: Nick-Lidar, Matt-NIS, Abe-Ground