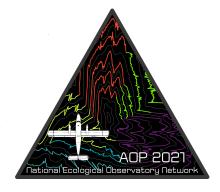


Payload 1 Daily Flight Report



Date: 2021-04-18

Flight Campaign ID: P1C2

Airport, FBO ID, City: Rocky Mountain Metropolitan Airport (KBJC) - Broomfield, CO

Aircraft: N331AR

Domain: 00 (Training & Calibration)

Sites Flown: BLKF (Black Forest Waveform Range Test - Galaxy)

Days left in Domain: 12

Report Author: Ivana Vu **Lidar Operators**: Ivana Vu

Lidar Operators: Ivana Vu

Flight Hours: 03:23

Spectrometer Operators: Robb Walker Hours until maintenance: 104.33

Pilots: Justin Eddington, Will Mathews **GPS Instruments**: AOP_KBDU, S-COSG, U-P041 **Ground Crew**: Michael Wussow

. Wilchael Wussov

Summary

While the weather appeared to be good for flights at the Boulder Airport this morning, by the time we arrived on station, there were low clouds and virga over the runway. After we attempted 1 lower-altitude line of the Nominal Runway and experienced an eye-safety shutoff, we diverted to the Black Forest flight box where conditions were more ideal for data collection.

Concerns

POSFT Client lost connection while POS files were being copied to desktop and UPDU had to be restarted to copy remaining files.

Comments

TOIL pilot rotation: Will Mathews replaced Ashley Taylor

N331AR repositioned to KBDU

Daily Coverage

Estimated Cloud Cover Key

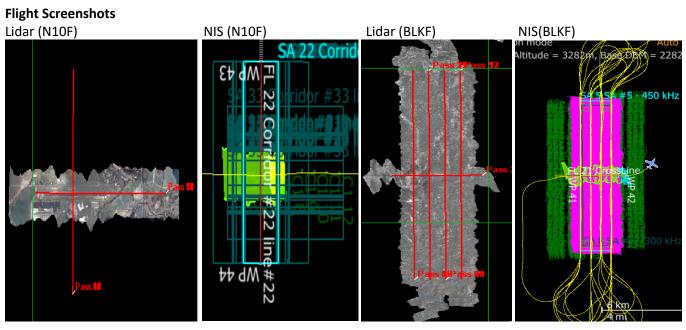
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|BLKF

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
Lidar	\
Spectrometer	✓
Camera	✓
Cloud Cover	

Total number of lines flown: 21



Pictures

Black Forest site showing the burn scar from 2013



Cumulative Domain Coverage

D00 | B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

Doo Dio (Complete dieeley Bolesight deocalibration - 1300m, 1000m, 350m - Galaxi															aianyj					
	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: 100% (20/20) Yellow: 0% (0/20) Red: 0% (0/20)

D00|BLKF (Black Forest Waveform Range Test - Galaxy)

 Boo BERT (Black Forest Waverorm Range Fest Galaxy)																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21																			

Flown: 100% (21/21) Green: 0% (0/21) Yellow: 100% (21/21) Red: 0% (0/21)

D00 | H10D (NEON Headquarters Lidar Validation - Galaxy)

1 2 3 4

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

D00 | N10F (Nominal Runway at KBDU - Galaxy)

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	30	31	32	33	34	35					

Flown: 43% (15/35) Green: 0% (0/35) Yellow: 0% (0/35) Red: 43% (15/35)

D00 | O10C (NIS Offset - Galaxy)

1 2

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

D00 | R10E (Table Mountain Radiometric Calibration - Galaxy)

1 2 3 4 5

Flown: 100% (5/5) Green: 100% (5/5) Yellow: 0% (0/5) Red: 0% (0/5)

D00 | V10F (Boulder City Nominal - Galaxy)

boo vio (boalact city womman					iiai	Gaia	` ' ' ' '												
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: 38% (11/29) Green: 14% (4/29) Yellow: 0% (0/29) Red: 24% (7/29)

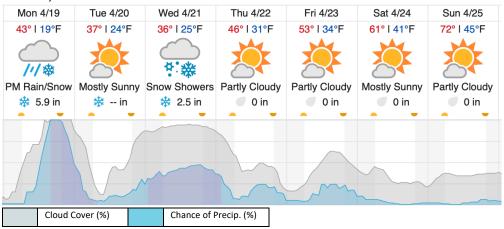
D00 | W10D (Wiggle Timing Test - Galaxy)



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

Weather Forecast

Boulder, CO



source: wunderground.com

Flight Collection Plan for 19 April 2021

Flyority 1

Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey Flight Plan

Name: D10_N10F_Nominal_Rnwy_v9_PRM.xml On-Station Time: Daylight – No solar angle restrictions.

Additional Considerations: Runway should not be wet, or snow covered.

Flyority 2

Collection Area: NIS Offset Flight

Flight Plan Name: D10 O10C NIS Offset v2 PRM.xml

On-station Time: 1600 UTC / 1000 L

Crew: Matt (Lidar), Mike (NIS), Elissa (Ground)