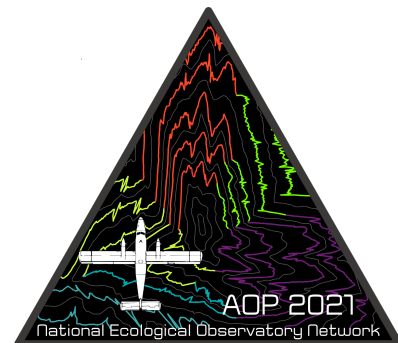




Payload 1 Daily Flight Report



Date: 2021-08-19

Flight Campaign ID: P1C2

Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA

Aircraft: N331AR

Domain: 02 (Mid-Atlantic)

Sites Flown: N02B (D02 Nominal Runway), T02A ()

Days left in Domain: 6

Report Author: John Adler

Lidar Operators: John Adler

Spectrometer Operators: Abe Morrison

Pilots: Justin Eddington, Nick Koukoutsakis

Flight Hours: 01:15

Hours until maintenance: 53.15

GPS Instruments: AOP5, AOP SCBI

Summary

A partial completion of the lidar digitizer test flight was completed today. One set of seven lines done without a cross strip, due to cumulous clouds below flight altitude arriving on the scene. We completed the Nominal at the airfield on the way back.

Concerns

None

Comments

Lidar digitizer seems to be working, thanks Marcus!

Abe is heading to D14 tomorrow, appreciate the great work here in D02. Cameron arrives here tonight.

Daily Coverage

Estimated Cloud Cover Key

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

D02|T02A

Line #	2	3	4	5	6	7
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

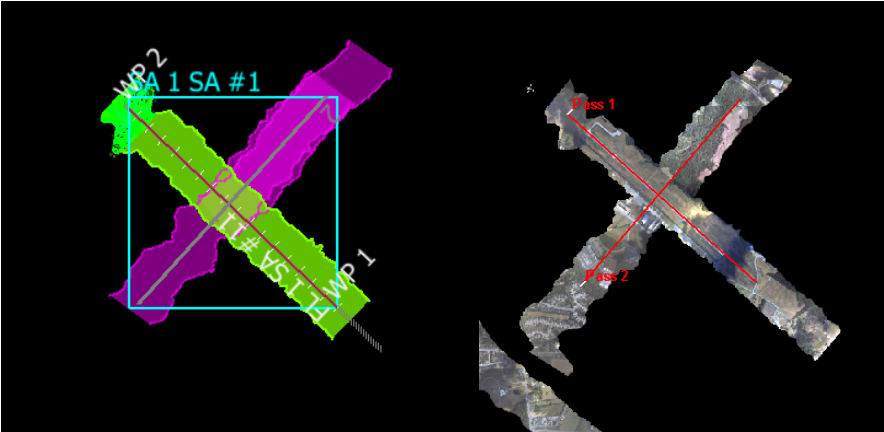
Total number of lines flown: 6

D02|N02B

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

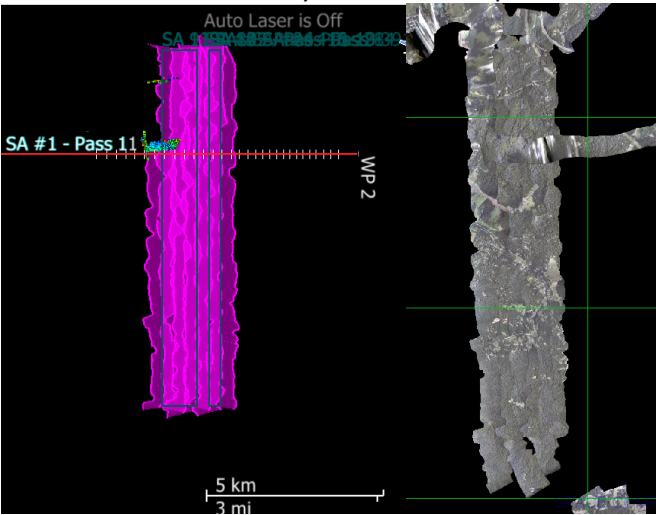
Total number of lines flown: 2

Flight Screenshots



Lidar on Nominal runway

Spectrometer on Nominal runway



Lidar on digitizer test flight

Spectrometer on on digitizer test flight

Cumulative Domain Coverage

D02|BLAN (Blandy Experimental Farm)

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							

Flown: 100% (33/33)
Green: 0% (0/33)
Yellow: 0% (0/33)
Red: 100% (33/33)

D02 | N02B (D02 Nominal Runway)

1

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

D02 | SCBI (Smithsonian Conservation Biology Institute)

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								

Flown: 100% (32/32)
Green: 0% (0/32)
Yellow: 0% (0/32)
Red: 100% (32/32)

D02 | SERC (Smithsonian Ecological Research Center)

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: 88% (23/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 88% (23/26)

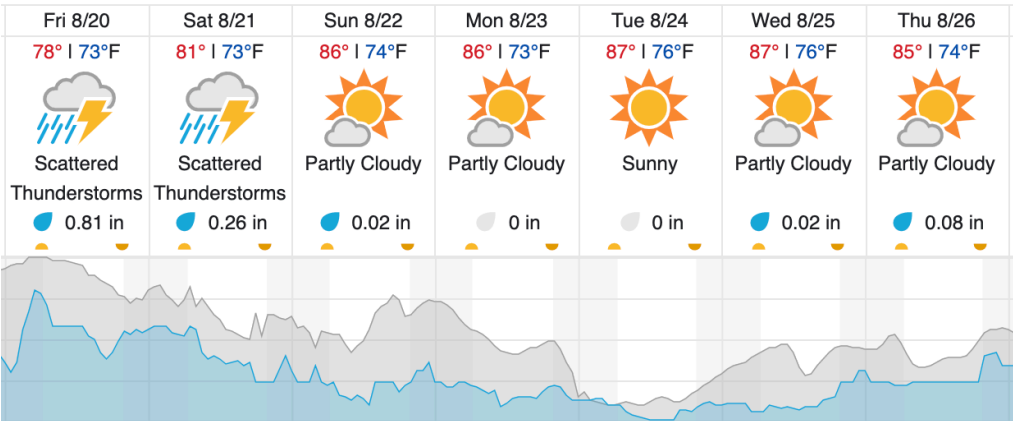
D02 | T02A ()

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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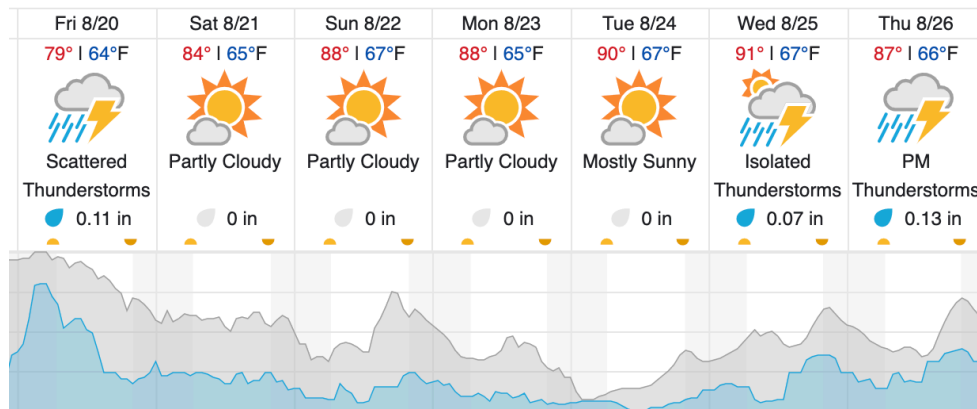
Flown: 32% (6/19)
Green: 0% (0/19)
Yellow: 0% (0/19)
Red: 32% (6/19)

Weather Forecast

Annapolis, MD (SERC)



Winchester, VA (SCBI, BLAN)



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

Flight Collection Plan for 20 August 2021

Flyority 1 – if Green

Collection Area: Smithsonian Environmental Research Center (SERC)

Flight Plan Name: D02_SERC_R1_P1_v1_PRM.xml

On-Station Time: 1350 UTC/ 0950 L

Flyority 2 – if Green

Collection Area: Smithsonian Conservation Biology Institute (SCBI)

Flight Plan Name: D02_SCBI_C1_P1_v1_PRM.xml

On-Station Time: 1400 UTC/ 1000 L

Flyority 3 – if Green

Collection Area: Blandy Experimental Farm (BLAN)

Flight Plan Name: D02_BLAN_R2_P1_v3_PRM.xml

On-Station Time: 1400 UTC/ 1000 L

Flyority 4 – Continued flight testing of the lidar system

Collection Area: Smithsonian Conservation Biology Institute (SCBI)

Flight Plan Name: D02_T02A_C1_P1_v1_PRM_dig_test.xml

On-Station Time: anytime

Crew: John, Cameron