

Payload 1 Daily Flight Report



Date: 2023-05-31

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 02 (Mid-Atlantic), 07 (Appalachians & Cumberland Plateau) **Sites Flown**: SCBI (Smithsonian Conservation Biology Institute)

Days left in Domain: 21

Report Author: Cameron

Lidar Operators: Cameron Flight Hours: 00:23

Spectrometer Operators: Abe Hours until maintenance: 34.80

Pilots: Justin, Will

Summary

With a promising forecast and no tower cameras at the D2 sites, the crew mobilize to the airport with the hope of collecting SCBI. The crew observed a moderate layer of haze from the ground. The sky condition still appeared to be 'green'. We took to the sky and flew the very short transit to SCBI. Unfortunately, upon arriving, we observed a much more pronounced haze/smoke layer coupled with a high cirrus layer obscuring the sun. No data was collected.

Concerns

-

Comments

Crew deployed mobile GPS at FBO.

- Ancillary GPU equipment arrived from D08.

Daily Coverage

Estimated Cloud Cover Key

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

Pictures



Above: A hazy and cloudy view over SCBI.



Cumulative Domain Coverage

D07 | MLBS (Mountain Lake Biological Station)

	<u> </u>																		
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							

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

D02|BLAN (Blandy Experimental Farm)

		. (,																
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: 0% (0/32) Green: 0% (0/32) Yellow: 0% (0/32) Red: 0% (0/32)

D02 | N02B (D02 Nominal Runway)

1

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

D02 | SCBI (Smithsonian Conservation Biology Institute)

502 Sebi (Simensoman conservation biology institute)																			
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: 0% (0/31) Green: 0% (0/31) Yellow: 0% (0/31) Red: 0% (0/31)

D02|SERC (Smithsonian Ecological Research Center)

0021	502 SERVE (SITHERSOMAN ECOLOGICAL RESCALCT CENTER)																		
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: 0% (0/25) Green: 0% (0/25) Yellow: 0% (0/25) Red: 0% (0/25) **Weather Forecast**

Winchester, VA (BLAN)

0 in	0 in	Thunderstorms 0.3 in	0.01 in	0 in	0.15 in	0 in
Sunny	Sunny	1/1/1 PM	AM Showers	Partly Cloudy	Partly Cloudy	Partly Cloudy
83° I 53°F	89° I 59°F	88° I 53°F	73° I 51°F	77° I 55°F	77° I 55°F	78° I 54°F
Thu 6/1	Fri 6/2	Sat 6/3	Sun 6/4	Mon 6/5	Tue 6/6	Wed 6/7

Front Royal, VA (SCBI)

Thu 6/1	Fri 6/2	Sat 6/3	Sun 6/4	Mon 6/5	Tue 6/6	Wed 6/7
83° I 53°F	88° I 59°F	87° I 52°F	71° I 49°F	75° I 54°F	76° I 54°F	76° I 53°F
		444				
Sunny	Sunny	PM	AM Clouds/PM	Partly Cloudy	Partly Cloudy	Partly Cloudy
		Thunderstorms	Sun			
0 in	0 in	0.26 in	0 in	0 in	0 .02 in	0 in

Annapolis, MD (SERC)

Thu 6/1	Fri 6/2	Sat 6/3	Sun 6/4	Mon 6/5	Tue 6/6	Wed 6/7
81° I 61°F	86° I 65°F	80° I 58°F	71° I 57°F	76° I 62°F	77° I 61°F	77° I 61°F
		1111			1111	
Mostly Sunny	Partly Cloudy	PM	Partly Cloudy	Partly Cloudy	PM	Partly Cloudy
		Thunderstorms			Thunderstorms	
0 in	0 in	0.43 in	0.01 in	0 in	0.18 in	0 in

Pembroke, VA (MLBS)

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Thu 6/1	Fri 6/2	Sat 6/3	Sun 6/4	Mon 6/5	Tue 6/6	Wed 6/7
79° I 54°F	83° I 56°F	83° I 59°F	72° I 52°F	73° I 53°F	74° I 53°F	73° I 54°F
Mostly Sunny	Sunny	Isolated	Mostly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
Wostry Curring	Curiny	Thunderstorms	Wostry Cloudy	1 artiy Oloudy	r artiy Oloudy	1 artiy Oloddy
0 in	0 in	0.06 in	0 in	0 in	0 in	0 in
		M				
Cloud Cover (%)	Chance of Pred	cip. (%)				

source: wunderground.com

Flight Collection Plan for June 1, 2023

Flyority 1

Collection Area: Mountain Lake Biological Station (MLBS)

Flight Plan Name: D07_MLBS_R1_P1_v7_PRM.xml

On-Station Time: 1340UTC/0940 L

Flyority 2

Collection Area: Smithsonian Conservation Biology Institute (SCBI)

Flight Plan Name: D02_SCBI_C1_P1_v2_PRM.xml

On-Station Time: 1330 UTC/ 0930 L

Flyority 3

Collection Area: Smithsonian Environmental Research Center (SERC)

Flight Plan Name: D02_SERC_R1_P1_v1_PRM.xml

On-Station Time: 1330 UTC/ 0930 L

Flyority 4

Collection Area: Blandy Experimental Farm (BLAN) Flight Plan Name: D02_BLAN_R2_P1_v3_PRM.xml

On-Station Time: 1330 UTC/ 0930 L

Flyority 5

Collection Area: Nominal Runway – D02 - KOKV

Flight Plan Name: D02_N02B_Nominal_Runway_Test_v1_PRM.xml

On-Station Time: N/A

Crew: abe (Lidar), Cam (NIS)