



Payload 1 Daily Flight Report



Date: 2023-05-31

Flight Campaign ID: P1C1

Airport, FBO ID, City: Winchester 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.

Below: Cameron puts the finishing touches on the GPS set-up at the FBO. (Pic by Abe)



Cumulative Domain Coverage

D07| MLBS (Mountain Lake Biological Station)

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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)

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | | | | | |

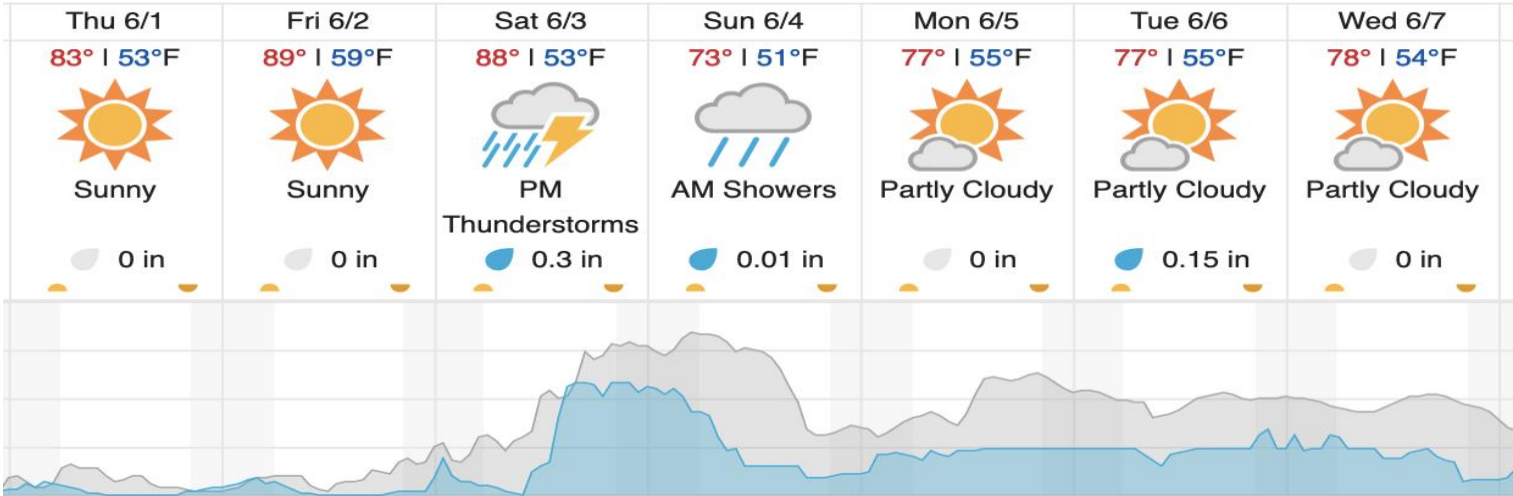
Flown: 0% (0/31)
Green: 0% (0/31)
Yellow: 0% (0/31)
Red: 0% (0/31)

D02| SERC (Smithsonian Ecological Research Center)

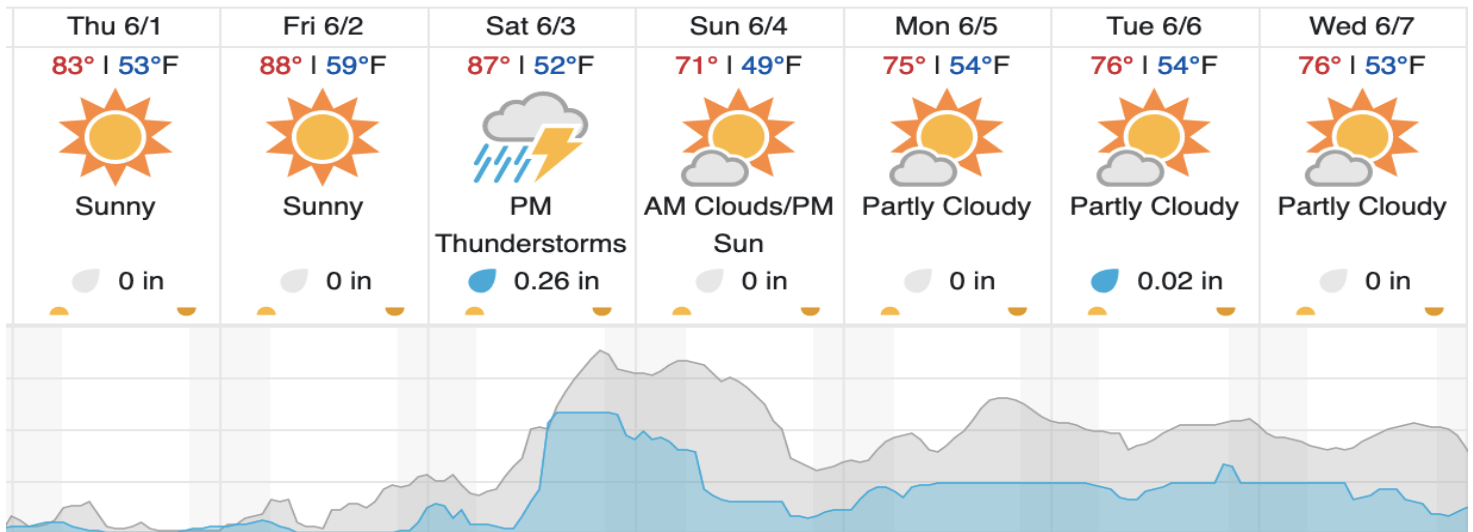
| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | | | | | | | | | | | | | | | |

Flown: 0% (0/25)
Green: 0% (0/25)
Yellow: 0% (0/25)
Red: 0% (0/25)

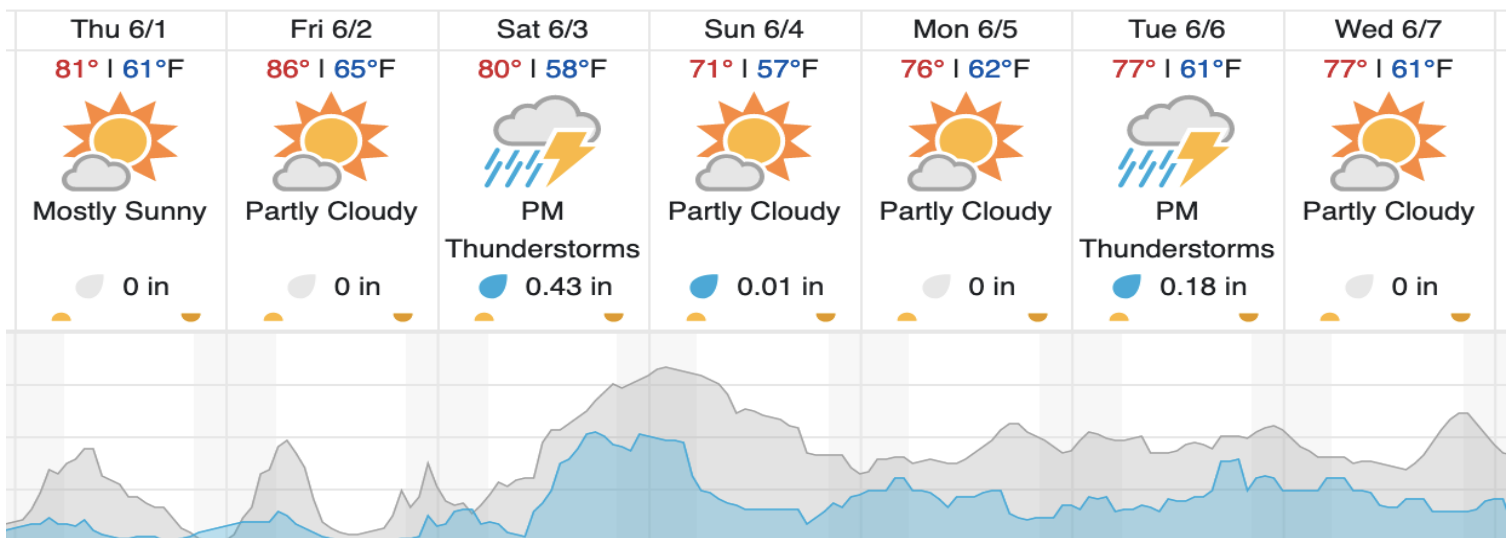
Weather Forecast
Winchester, VA (BLAN)



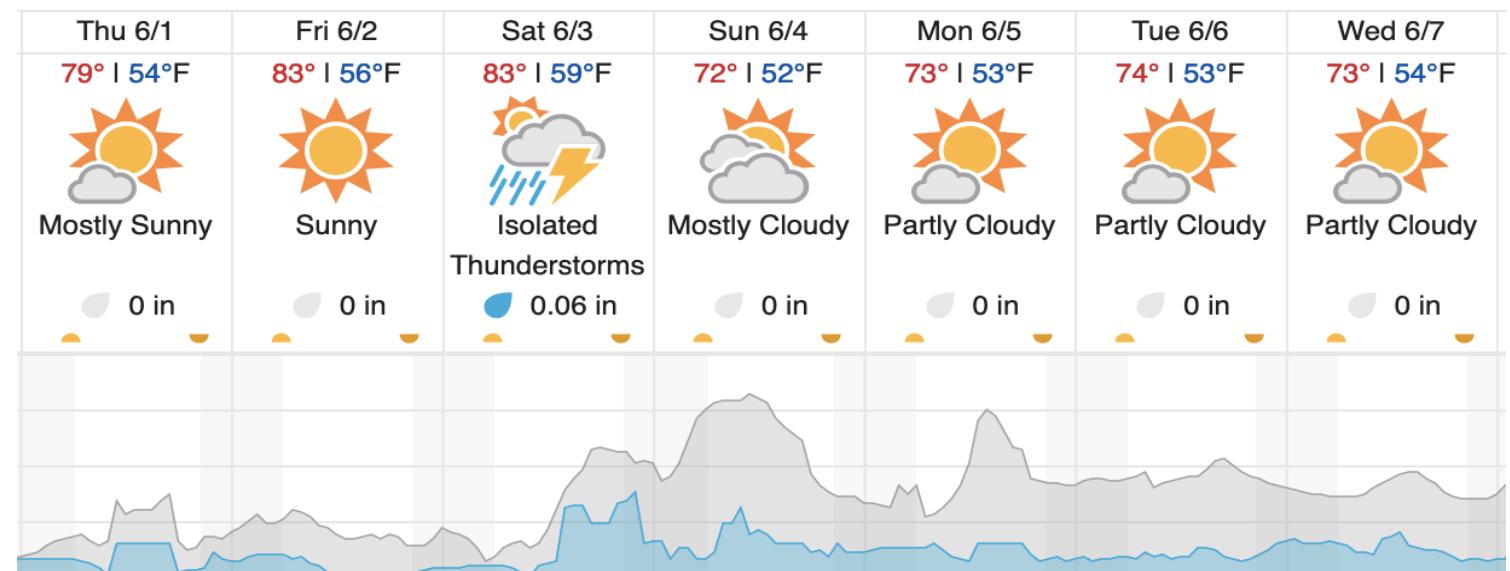
Front Royal, VA (SCBI)



Annapolis, MD (SERC)



Pembroke, VA (MLBS)



Cloud Cover (%) Chance of Precip. (%)

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)