

# Payload 1 Daily Flight Report



Date: 2022-05-30 Flight Campaign ID: P1C1 Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA Aircraft: N331AR

Domain: 02 (Mid-Atlantic) Sites Flown: SCBI (Smithsonian Conservation Biology Institute), SERC (Smithsonian Ecological Research Center) Days left in Domain: 3

Report Author: Mitch	
Lidar Operators: Mitch	Flight Hours: 03:45 + 03:21
Spectrometer Operators: Abe	Hours until maintenance: 71.82
Pilots: Magnus , Paul	GPS Instruments: 06 - KOKV, AOP_SCBI, S-LOYF

### Summary

Awoken with high hopes of clear skies and green data in D02, the crew were dismissed to see several high layers of cirrus clouds spread across the region. With a less than promising remaining forecast and no cumulus clouds at our flight altitudes, the team buckled down for a double turn, completing initial coverage over both SCBI and SERC.

#### Concerns

• The NIS had a HIS Timestamp Error that resulted in the DCC needing an in-air reboot while flying SCBI

#### Comments

- RAID 2022\_P1C1\_04 will be shipped tomorrow.
- HK1's D:Drive is filling up very quickly. Might need some previous RAIDs to be cleared before extracting today's second flight.

#### **Daily Coverage**

Estimated Cloud Cover Key

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

#### D02|SCBI

Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	$\checkmark$																			
Spectrometer	$\checkmark$																			
Camera	$\checkmark$																			
Cloud Cover																				

Line #	21	22	23	24	25	26	27	28	29	30	31	32
Lidar	$\checkmark$											
Spectrometer	$\checkmark$											
Camera	$\checkmark$											
Cloud Cover												

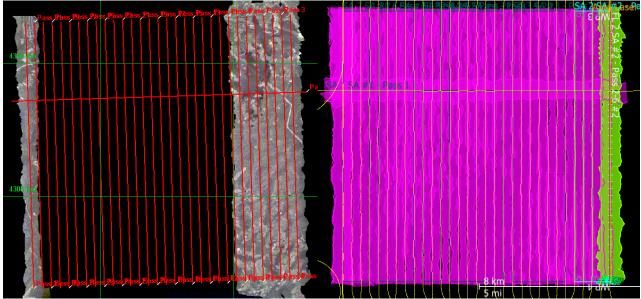
# Total number of lines flown: 32

## D02|SERC

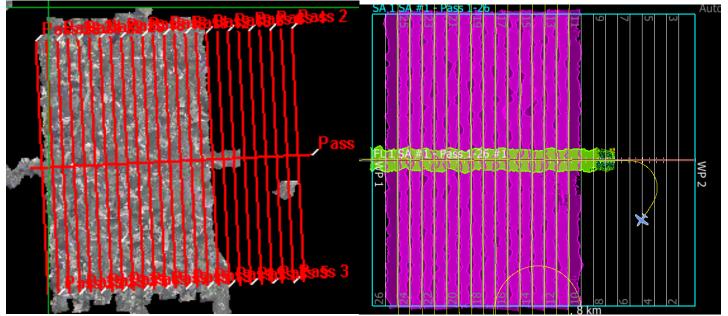
Line #	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lidar	$\checkmark$														
Spectrometer	$\checkmark$														
Camera	$\checkmark$														
Cloud Cover															

Total number of lines flown: 15

# **Flight Screenshots**



Top left: NIS Screenshot at SCBI (taken after reboot) Bottom left: SERC NIS Screenshot Top Right: SCBI lidar screen Bottom Right: SERC Lidar Screenshot



Pictures: Photos from today's flights over SCBI (above) and SERC (below).



### **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 )

7 15 19 1 2 3 4 5 8 9 10 11 12 13 14 16 17 18 20 6 21 22 23 24 25 26 27 28 29 30 31 32 Flown: 100% (32/32) Green: 0% (0/32) Yellow: 100% (32/32) Red: 0% (0/32)

D02 | SERC (Smithsonian Ecological Research Center )

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
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 13
 14
 15
 16
 17
 18
 19
 20

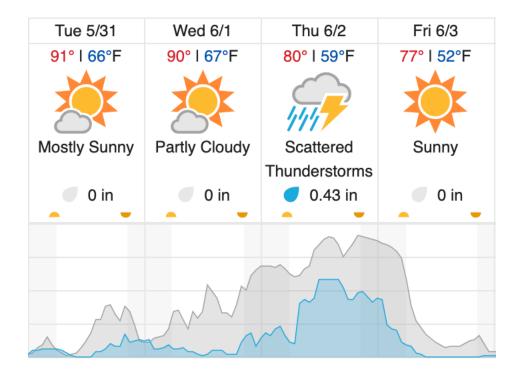
 21
 22
 23
 24
 25
 26

 Flown: 100% (26/26)

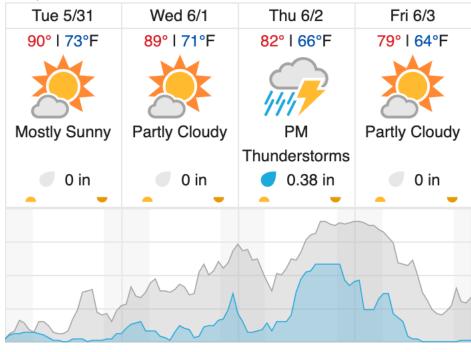
Green: 27% (7/26) Yellow: 73% (19/26) Red: 0% (0/26)

Weather Forecast

Winchester, VA



Annapolis, MD



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

source: wunderground.com

#### Flight Collection Plan for 31 May 2022 Flyority 1

Collection Area: Smithsonian Conservation Biology Institute (SCBI) \*Only if green\* Flight Plan Name: D02\_SCBI\_C1\_P1\_v1\_PRM.xml On-station Time: 1330 UTC / 0930 L

### Flyority 2

Collection Area: Smithsonian Environmental Research Center (SERC) \*Only if green\* Flight Plan Name: D02\_SERC\_R1\_P1\_v1\_PRM.xml On-station Time: 1330 UTC / 0930 L

### Flyority 3

Collection Area: Blandy Experimental Farm (BLAN) \*Only if green\* Flight Plan Name: D02\_BLAN\_R2\_P1\_v3\_PRM.xml On-station Time: 1330 UTC / 0930 L

## Flight Crew:

Abe (Lidar), Mitch (NIS)