



## Payload 1 Daily Flight Report



**Date:** 2022-05-15

**Flight Campaign ID:** P1C1

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

**Aircraft:** N331AR

**Domain:** 02 (Mid-Atlantic)

**Sites Flown:** None

**Days left in Domain:** 18

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Flight Hours:** 00:00

**Spectrometer Operators:** Cameron

**Hours until maintenance:** 86.03

**Pilots:** Magnus, Justin

### Summary

Troubleshooting continued today on the Payload 1 NIS equipment. We arrived at the payload shortly after the heaters had turned on. We could still smell a faint burning so we swapped the heater driver. We then turned on the NIS system, attempting to recreate the startup conditions that produced smoke during the transit. Smoke was once again observed, seemingly coming from the cables plugged into the back of the heater driver, but potentially from cables below them going into the ECS. We shut down the system and attempted a second restart, but this time it appeared that the cRIO had lost communication with the cryocoolers, and full startup was not possible.

### Concerns

NIS still inoperable; cooling has been suspended.

### Comments

Ian will join us tomorrow afternoon to continue troubleshooting on the cabling and the ECS.

### Cumulative Domain Coverage

Estimated Cloud Cover Key

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

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: 0% (0/33)

Green: 0% (0/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

## D02 | N02A (D02 Nominal Runway)

1

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

## 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 )

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

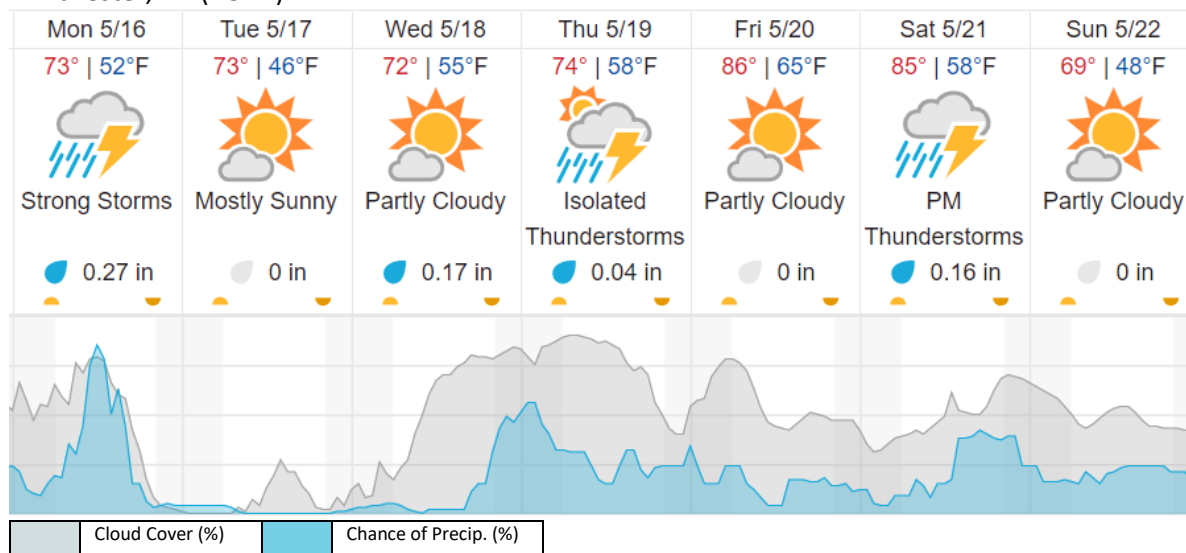
## D02 | SERC (Smithsonian Ecological Research Center )

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

## Weather Forecast

Winchester, VA (KOKV)



source: wunderground.com

## Flight Collection Plan for 16 May 2022

No flights planned - Continue troubleshooting NIS with Ian.

**Crew:** Cameron (Lidar), Elissa (NIS)