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

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
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D02|SCBI

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Cloud Cover
Total number of lines flown: 32

**DO2 | SERC**

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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)**

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

**D02|N02B (D02 Nominal Runway)**

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

**D02|SCBI (Smithsonian Conservation Biology Institute)**

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

**D02|SERC (Smithsonian Ecological Research Center)**

- Flown: 100% (26/26)
- Green: 27% (7/26)
- Yellow: 73% (19/26)
- Red: 0% (0/26)

**Weather Forecast**

Winchester, VA
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)