Date: 2022-05-29
Flight Campaign ID: P1C1
Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA
Aircraft: N331AR

Domain: 02 (Mid-Atlantic)
Sites Flown: SERC (Smithsonian Ecological Research Center)
Days left in Domain: 4

Report Author: Abe
Lidar Operators: Abe
Spectrometer Operators: Mitch
Pilots: Paul, Magnus
GPS Instruments: 06 - KOKV, S-LOYF

Flight Hours: 03:12
Hours until maintenance: 78.92

Summary
The morning started with clear skies at the beginning of solar angle at the SERC site. The crew collected lines under “Green” sky conditions for about 45 minutes until low cumulus clouds began to form directly at the flight altitude. After trying to dodge the clouds by changing sides of the flight box, the clouds became too prolific and the flight had to be called off. 6 lines were collected in “Green” and another 4 in “yellow” conditions.

Concerns
None

Comments
-Pilot Magnus took over for Justin today.

Pictures
A SERC tower resident assisted the crew with sky condition reports this morning. Pic by Abe.
SERC site, looking from east to west. Pic by Mitch.

Daily Coverage
Estimated Cloud Cover Key

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

D02 | SERC

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>26</th>
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<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Camera</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>Green</td>
<td>Yellow</td>
<td>Red</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total number of lines flown: 11

Flight Screenshots
Lidar

SA 1 SA #1 - Pass 1-26

NIS
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)

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

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: 42% (11/26)
Green: 27% (7/26)
Yellow: 15% (4/26)
Red: 0% (0/26)

Weather Forecast

Winchester, VA

Annapolis, MD

source: wunderground.com
Flight Collection Plan for 30 May 2022

Flyority 1
Collection Area: Smithsonian Conservation Biology Institute (SCBI)
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)
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:
Mitch (Lidar), Abe (NIS)