Date: 2021-08-19  
Flight Campaign ID: P1C2  
Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA  
Aircraft: N331AR  

Domain: 02 (Mid-Atlantic)  
Sites Flown: N02B (D02 Nominal Runway), T02A ()  
Days left in Domain: 6  

Report Author: John Adler  
Lidar Operators: John Adler  
Spectrometer Operators: Abe Morrison  
Pilots: Justin Eddington, Nick Koukoutsakis  

Flight Hours: 01:15  
Hours until maintenance: 53.15  
GPS Instruments: AOPS, AOP SCBI  

Summary  
A partial completion of the lidar digitizer test flight was completed today. One set of seven lines done without a cross strip, due to cumulous clouds below flight altitude arriving on the scene. We completed the Nominal at the airfield on the way back.

Concerns  
None  

Comments  
Lidar digitizer seems to be working, thanks Marcus!  
Abe is heading to D14 tomorrow, appreciate the great work here in D02. Cameron arrives here tonight.

Daily Coverage  

Estimated Cloud Cover Key  
| Green: 0-10% | Yellow: 11-50% | Red: >50% |

D02|T02A  

<table>
<thead>
<tr>
<th>Line #</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
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<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<td>Cloud Cover</td>
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Total number of lines flown: 6
<table>
<thead>
<tr>
<th>Line #</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Cloud Cover: 🔴🔴

Total number of lines flown: 2

**Flight Screenshots**

- Lidar on Nominal runway
- Spectrometer on Nominal runway
- Lidar on digitizer test flight
- Spectrometer on digitizer test flight

**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)

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

D02|SERC (Smithsonian Ecological Research Center)

- Flown: 88% (23/26)
- Green: 0% (0/26)
- Yellow: 0% (0/26)
- Red: 88% (23/26)

D02|T02A

- Flown: 32% (6/19)
- Green: 0% (0/19)
- Yellow: 0% (0/19)
- Red: 32% (6/19)

Weather Forecast
Annapolis, MD (SERC)
Flight Collection Plan for 20 August 2021

Flyority 1 – if Green
Collection Area: Smithsonian Environmental Research Center (SERC)
Flight Plan Name: D02_SERC_R1_P1_v1_PRM.xml
On-Station Time: 1350 UTC/ 0950 L

Flyority 2 – if Green
Collection Area: Smithsonian Conservation Biology Institute (SCBI)
Flight Plan Name: D02_SCBI_C1_P1_v1_PRM.xml
On-Station Time: 1400 UTC/ 1000 L

Flyority 3 – if Green
Collection Area: Blandy Experimental Farm (BLAN)
Flight Plan Name: D02_BLAN_R2_P1_v3_PRM.xml
On-Station Time: 1400 UTC/ 1000 L

Flyority 4 – Continued flight testing of the lidar system
Collection Area: Smithsonian Conservation Biology Institute (SCBI)
Flight Plan Name: D02_T02A_C1_P1_v1_PRM dig_test.xml
On-Station Time: anytime

Crew: John, Cameron