Date: 2022-08-20
Flight Campaign ID: P3C1
Airport, FBO ID, City: Nashua Airport (KASH) - Nashua, NH
Aircraft: N70AR

Domain: 01 (Northeast)
Sites Flown: BART (Bartlett Experimental Forest)
Days left in Domain: 6

Report Author: Cameron
Lidar Operators: Cameron
Spectrometer Operators: John
Pilots: Justin, Brent

Flight Hours: 03:03
Hours until maintenance: 65.28
GPS Instruments: 06 - KASH, AOP_BART

Summary
The crew was able to sneak in under the building cumulus clouds and collect 17 lines in mixed yellow / red sky conditions. It appears we will have an opportunity to “green up” a few lines later next week.

Concerns
- None

Comments
- None

Daily Coverage

<table>
<thead>
<tr>
<th>Estimated Cloud Cover Key</th>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>D01</td>
<td>BART</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line #</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Total number of lines flown: 17
Cumulus clouds building over BART today during data collection.

**Cumulative Domain Coverage**

<table>
<thead>
<tr>
<th></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>11</th>
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<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>22</td>
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<td>25</td>
<td>26</td>
<td>27</td>
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<td>35</td>
<td>36</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Flown: 100% (36/36)
Green: 0% (0/36)
Yellow: 6% (2/36)
Red: 94% (34/36)
### D01 | HARV_P1 (Harvard Forest Priority 1)

| 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 |

- **Flown:** 100% (29/29)
- **Green:** 79% (23/29)
- **Yellow:** 14% (4/29)
- **Red:** 7% (2/29)

### D01 | HARV_P2 (Harvard Forest Priority 2)

<table>
<thead>
<tr>
<th>30</th>
<th>31</th>
<th>32</th>
<th>33</th>
<th>34</th>
<th>35</th>
<th>36</th>
<th>37</th>
</tr>
</thead>
</table>

- **Flown:** 100% (8/8)
- **Green:** 0% (0/8)
- **Yellow:** 100% (8/8)
- **Red:** 0% (0/8)

### D01 | HOPB (Hop Brook)

<table>
<thead>
<tr>
<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>
</tr>
</thead>
</table>

- **Flown:** 100% (10/10)
- **Green:** 0% (0/10)
- **Yellow:** 100% (10/10)
- **Red:** 0% (0/10)

### D01 | R01A (FLARE Radiometric Calibration Flight Plan - New Hampshire)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
</table>

- **Flown:** 0% (0/2)
- **Green:** 0% (0/2)
- **Yellow:** 0% (0/2)
- **Red:** 0% (0/2)

### Weather Forecast

**Petersham, MA (HARV)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun 8/21</td>
<td>87°</td>
<td>60°F</td>
</tr>
<tr>
<td>Mon 8/22</td>
<td>78°</td>
<td>63°F</td>
</tr>
<tr>
<td>Tue 8/23</td>
<td>77°</td>
<td>60°F</td>
</tr>
<tr>
<td>Wed 8/24</td>
<td>82°</td>
<td>58°F</td>
</tr>
<tr>
<td>Thu 8/25</td>
<td>84°</td>
<td>61°F</td>
</tr>
<tr>
<td>Fri 8/26</td>
<td>86°</td>
<td>60°F</td>
</tr>
</tbody>
</table>
Flight Collection Plan for 23 August 2022

Flyority 1: **If Green**
Collection Area: Harvard Forest – Priority 1 (HARV_P1)
Flight Plan Name: D01_HARV_C1_P1_v3_Q780
On-station Time: 1340 UTC / 0940 L

Flyority 2:
Collection Area: Bartlett Experimental Forest (BART)
Flight Plan Name: D01_BART_R1_P1_v1_Q780
On-station Time: 1340 UTC / 0940 L

Flyority 3: **If Green**
Collection Area: Hop Brook (HOPB)
Flight Plan Name: D01_HOPB_A1_P1_v1_Q780
On-station Time: 1340 UTC / 0940 L

Flyority 4: **If Green**
Collection Area: Harvard Forest – Priority 2 (HARV_P2)
Flight Plan Name: D01_HARV_C1_P2_v3_Q780
On-station Time: 1340 UTC / 0940 L

Crew: Cam