Date: 2022-08-19
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: 7

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

Flight Hours: 03:13
Hours until maintenance: 68.33
GPS Instruments: 06 - KASH, AOP_BART

Summary:
Overcast conditions, but we did complete 50% of the BART site as this was the best forecasted weather day for BART for the next week.

Concerns
None.

Comments
None.

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>

D01|BART

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
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</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Spectrometer</td>
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<td>✓</td>
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<tr>
<td>Camera</td>
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</tbody>
</table>

Total number of lines flown: 19
Flight Screenshots

Lidar screenshot  NIS screenshot

Cumulative Domain Coverage

D01|BART (Bartlett Experimental Forest)

Flown: 53% (19/36)
Green: 0% (0/36)
Yellow: 0% (0/36)
Red: 53% (19/36)

D01|HARV_P1 (Harvard Forest Priority 1)

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

D01|HARV_P2 (Harvard Forest Priority 2)

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

D01|HOPB (Hop Brook)

Flown: 100% (10/10)
Green: 0% (0/10)
Yellow: 100% (10/10)
Red: 0% (0/10)
Weather Forecast
Petersham, MA (HARV)

<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Condition</th>
<th>Chance of Precip.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat 8/20</td>
<td>88°</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Sun 8/21</td>
<td>80°</td>
<td>Partly Cloudy</td>
<td>0.02 in</td>
</tr>
<tr>
<td>Mon 8/22</td>
<td>73°</td>
<td>Rain</td>
<td>0.52 in</td>
</tr>
<tr>
<td>Tue 8/23</td>
<td>79°</td>
<td>Scattered Thunderstorms</td>
<td>0.13 in</td>
</tr>
<tr>
<td>Wed 8/24</td>
<td>84°</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Thu 8/25</td>
<td>85°</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Fri 8/26</td>
<td>85°</td>
<td>Partly Cloudy</td>
<td>0.02 in</td>
</tr>
</tbody>
</table>

Source: wunderground.com

Bartlett, NH (BART)

<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Condition</th>
<th>Chance of Precip.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat 8/20</td>
<td>85°</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Sun 8/21</td>
<td>85°</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Mon 8/22</td>
<td>73°</td>
<td>Showers</td>
<td>0.39 in</td>
</tr>
<tr>
<td>Tue 8/23</td>
<td>76°</td>
<td>Scattered Thunderstorms</td>
<td>0.19 in</td>
</tr>
<tr>
<td>Wed 8/24</td>
<td>80°</td>
<td>Showers</td>
<td>0.09 in</td>
</tr>
<tr>
<td>Thu 8/25</td>
<td>82°</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Fri 8/26</td>
<td>81°</td>
<td>Partly Cloudy</td>
<td>0.02 in</td>
</tr>
</tbody>
</table>

Flight Collection Plan for 20 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 (Lidar), John (NIS)