August 10, 2019 Payload 1 Daily Flight Report

Date: 2019-08-10
Flight Campaign ID: 2019_P1C1
Airport, FBO ID, City: Nashua Airport (KASH) - Nashua, NH

Domain: 01
Sites Flown: HARV_P1 (Harvard Forest Priority 1)
Days left in Domain: 25

Report Author: Mitch Haynes
Flight Crew: Mitch Haynes, Matt DeVoe
Flight Hours: 00:23
Ground/GPS: Hours until maintenance: 55.55
Pilots: David Little, Jeff Quintanilla
Additional Personnel:
GPS Instruments:

Summary
Woke up to clear skies here on our first flight day in D01. However, between towing out of our hangar in Nashua and arriving on station at Harvard Forest, quickly building cumulus clouds had developed at our flight altitude, preventing any collections from occurring.

Concerns
- Welding on TOIL tow bar head has been compromised (unsure of when it started breaking down). New head will arrive on Tuesday, and in the meantime, Infinity Aviation in Nashua is allowing us to borrow one of their heads.

Comments
None

Pictures: Compromised tow bar head.
Cumulative Domain Coverage

BART

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 | 34 | 35 | 36 |

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

HARV_P1

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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: 0% (0/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 0% (0/29)

HARV_P3

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

N01A

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Weather Forecast

Petersham, MA (HARV)

<table>
<thead>
<tr>
<th>Sun 8/11</th>
<th>Mon 8/12</th>
<th>Tue 8/13</th>
<th>Wed 8/14</th>
<th>Thu 8/15</th>
<th>Fri 8/16</th>
<th>Sat 8/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>**77°</td>
<td>56° F**</td>
<td>**83°</td>
<td>63° F**</td>
<td>**75°</td>
<td>60° F**</td>
<td>**78°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Scattered Thunderstorms</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0.63 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>
Flight Collection Plan for 11 August 2019

Flyority 1:
Collection Area: Harvard Forest – Priority 1 (HARV_P1)
Flight Plan Name: D01_HARV_C1_P1_v1.pln
On-station Time: 1340 UTC / 0940 L

Flyority 1:
Collection Area: Bartlett Experimental Forest (BART)
Flight Plan Name: D01_BART_R1_P1_v1.pln
On-station Time: 1340 UTC / 0940 L

Flyority 3:
Collection Area: Harvard Forest – Priority 2 (HARV_P3)
Flight Plan Name: D01_HARV_C1_P3_v1.pln
On-station Time: 1340 UTC / 0940 L

Crew: Matt DeVoe (Lidar), Mitch Haynes (NIS/GPS)