Date: 2022-09-14  
Flight Campaign ID: P1C1  
Airport, FBO ID, City: Asheville Regional Airport (KAVL)- Asheville, NC  
Aircraft: N331AR  

Domain: 07  
Sites Flown: None  
Days left in Domain: 27  

Report Author: Mike  
Lidar Operators: N/A  
Flight Hours: 00:00  
Spectrometer Operators: N/A  
Hours until maintenance: 114.97  
Pilots: Magnus, Steven  
Ground Crew: Cameron  

Summary  
The pumping and cooling process continued throughout the day. Coordination with the lab and HQ on firmware updates and data extraction also continued.  

Concerns  
None  

Comments  
-Catch up on extraction of large D14 flights commenced.  
-Galaxy firmware update was postponed as the shipment with necessary hardware was delayed. Hopefully the package will arrive tomorrow.  

Cumulative Domain Coverage  

D07|GRSM_P1 (Great Smoky Mountains National Park 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 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |  |  |  |  |  |  |  |  |  |  |  |
Flown: 0% (0/69)  
Green: 0% (0/69)  
Yellow: 0% (0/69)  
Red: 0% (0/69)  

D07|GRSM_P2 (Great Smoky Mountains National Park Priority 2)  
| 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Flown: 0% (0/20)  
Green: 0% (0/20)  
Yellow: 0% (0/20)  
Red: 0% (0/20)
D07|MLBS (Mountain Lake Biological Station)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Flown: 0% (0/34)  
Green: 0% (0/34)  
Yellow: 0% (0/34)  
Red: 0% (0/34) |

D07|N07A (D07 Nominal Runway)

<table>
<thead>
<tr>
<th>1</th>
</tr>
</thead>
</table>
| Flown: 0% (0/1)  
Green: 0% (0/1)  
Yellow: 0% (0/1)  
Red: 0% (0/1) |

**Weather Forecast**

Gatlinburg, TN (GRSM)

<table>
<thead>
<tr>
<th>Thu 9/15</th>
<th>Fri 9/16</th>
<th>Sat 9/17</th>
<th>Sun 9/18</th>
<th>Mon 9/19</th>
<th>Tue 9/20</th>
<th>Wed 9/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>81°</td>
<td>57°F</td>
<td>81°</td>
<td>58°F</td>
<td>82°</td>
<td>57°F</td>
<td>83°</td>
</tr>
<tr>
<td>Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
</tr>
</tbody>
</table>

Pembroke, VA (MLBS)

<table>
<thead>
<tr>
<th>Thu 9/15</th>
<th>Fri 9/16</th>
<th>Sat 9/17</th>
<th>Sun 9/18</th>
<th>Mon 9/19</th>
<th>Tue 9/20</th>
<th>Wed 9/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>79°</td>
<td>54°F</td>
<td>81°</td>
<td>56°F</td>
<td>81°</td>
<td>54°F</td>
<td>82°</td>
</tr>
<tr>
<td>Mostly Sunny 0 in</td>
<td>Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Mostly Sunny 0 in</td>
<td>Sunny 0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com
Flight Collection Plan for 15 September 2022

Payload pumping and cooling.

Flight Collection Plan for 16 September 2022

Flyority 1
Collection Area: Mountain Lake Biological Station (MLBS)
Flight Plan Name: D07_MLBS_R1_P1_v6_PRM.xml
40° On-station Time: 14:40 UTC / 10:40L

Flyority 2
Collection Area: Great Smokey Mountains National Park (GRSM) – Priority 1 Flight Box – Variable Altitude Plan
Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
40° On-station Time: 14:50 UTC / 10:50L

Flyority 3
Collection Area: Great Smokey Mountains National Park (GRSM) – Priority 2 Flight Box – Variable Altitude Plan
Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
40° On-station Time: 14:50 UTC / 10:50L

Flyority 4
Collection Area: Nominal Runway – D07
Flight Plan Name: D07_N07A_Nominal_Runway_Test_v2_PRM.xml
40° On-station Time: N/A