Payload 1 Daily Flight Report

Date: 2022-09-29
Flight Campaign ID: P1C1
Airport, FBO ID, City: Asheville Regional Airport (KAVL) - Fletcher, NC
Aircraft: N331AR

Domain: 07 (Appalachians & Cumberland Plateau)
Sites Flown: GRSM_P1 (Great Smoky Mountains National Park Priority 1)
Days left in Domain: 13

Report Author: Elissa
Lidar Operators: Elissa
Flight Hours: 03:30
Spectrometer Operators: Mitch
Hours until maintenance: 95.52
Pilots: Justin, Terry
GPS Instruments: 04 - FBO_KAVL, AOP_GRSM

Summary

Poor weather has already closed in on MLBS, but we were able to complete collections of the priority box at GRSM ahead of incoming rain and winds from tropical storm Ian.

Concerns

The NIS had to be restarted twice in flight today to bring C-Midgits online.

Comments

Cam departed early this morning – thanks Cam!

Daily Coverage

Estimated Cloud Cover Key

| Green: 0-10% | Yellow: 11-50% | Red: >50% |

D07|GRSM_P1

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<td>Lidar</td>
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## Cumulative Domain Coverage

### D07|GRSM_P1 (Great Smoky Mountains National Park Priority 1)

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- Flown: 100% (69/69)
- Green: 100% (69/69)
- 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 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |

- Flown: 71% (24/34)
- Green: 68% (23/34)
- Yellow: 3% (1/34)
- Red: 0% (0/34)
D07|N07A (D07 Nominal Runway)

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>Fri 9/30</th>
<th>Sat 10/1</th>
<th>Sun 10/2</th>
<th>Mon 10/3</th>
<th>Tue 10/4</th>
<th>Wed 10/5</th>
<th>Thu 10/6</th>
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</thead>
<tbody>
<tr>
<td>67°F</td>
<td>50°F</td>
<td>59°F</td>
<td>50°F</td>
<td>62°F</td>
<td>50°F</td>
<td>68°F</td>
</tr>
<tr>
<td>PM Showers</td>
<td>0.78 in</td>
<td>Rain</td>
<td>0.4 in</td>
<td>Showers</td>
<td>0.19 in</td>
<td>Partly Cloudy</td>
</tr>
</tbody>
</table>

Pembroke, VA (MLBS)

<table>
<thead>
<tr>
<th>Fri 9/30</th>
<th>Sat 10/1</th>
<th>Sun 10/2</th>
<th>Mon 10/3</th>
<th>Tue 10/4</th>
<th>Wed 10/5</th>
<th>Thu 10/6</th>
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<tr>
<td>56°F</td>
<td>52°F</td>
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<td>52°F</td>
<td>57°F</td>
<td>49°F</td>
<td>59°F</td>
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<tr>
<td>PM Rain</td>
<td>1.61 in</td>
<td>Rain</td>
<td>0.66 in</td>
<td>Rain</td>
<td>0.38 in</td>
<td>AM Showers</td>
</tr>
</tbody>
</table>

source: wunderground.com
Flight Collection Plan for 30 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: 15:10 UTC /11:10L

Flyority 2
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: 15:10 UTC / 11:10L

Flyority 3
Collection Area: Nominal Runway – D07
Flight Plan Name: D07_N07A_Nominal_Runway_Test_v2_PRM.xml
40° On-station Time: N/A

Crew: Mitch (Lidar), Elissa (NIS)