Payload 1 Daily Flight Report

Date: 2021-05-28
Flight Campaign ID: P1C2
Airport, FBO ID, City: Asheville Regional Airport (KA VL) - Fletcher, NC
Aircraft: N331AR

Domain: 07 (Appalachians & Cumberland Plateau)
Sites Flown: None
Days left in Domain: 33

Report Author: Ivana Vu
Lidar Operators: Ivana Vu
Spectrometer Operators: Elissa Barris
Pilots: Justin Eddington, Will Mathews

Flight Hours: 00:00
Hours until maintenance: 79.37

Summary
Low clouds, rain and thunderstorms prevented flights today. A cold front is expected to move through the area this weekend and may allow for initial coverage flights.

Concerns
None

Comments
Completed Hg Lamp Test for D07

Cumulative Domain Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green</th>
<th>Yellow</th>
<th>Red</th>
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<tbody>
<tr>
<td>0-10%</td>
<td>11-50%</td>
<td>&gt;50%</td>
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D07|GRSM_P1 (Great Smoky Mountains National Park Priority 1)

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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)

<table>
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<th>89</th>
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</thead>
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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: 0% (0/34)
- Green: 0% (0/34)
- Yellow: 0% (0/34)
- 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)

### D07 | ORNL (Oak Ridge National Laboratory)

|   | 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|

- Flown: 20% (12/61)
- Green: 0% (0/61)
- Yellow: 20% (12/61)
- Red: 0% (0/61)

### Weather Forecast

#### Gatlinburg, TN (GRSM)

<table>
<thead>
<tr>
<th>Sat 5/29</th>
<th>Sun 5/30</th>
<th>Mon 5/31</th>
<th>Tue 6/1</th>
<th>Wed 6/2</th>
<th>Thu 6/3</th>
<th>Fri 6/4</th>
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</thead>
<tbody>
<tr>
<td>62°</td>
<td>48°F</td>
<td>Showers</td>
<td>AM Showers</td>
<td>Mostly</td>
<td>Thunderstorms</td>
<td>Scattered</td>
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<tr>
<td>0.18 in</td>
<td>0.02 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.15 in</td>
<td>0.36 in</td>
<td>0.21 in</td>
</tr>
</tbody>
</table>

#### Oak Ridge, TN (ORNL)

<table>
<thead>
<tr>
<th>Sat 5/29</th>
<th>Sun 5/30</th>
<th>Mon 5/31</th>
<th>Tue 6/1</th>
<th>Wed 6/2</th>
<th>Thu 6/3</th>
<th>Fri 6/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>63°</td>
<td>50°F</td>
<td>Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly</td>
<td>Scattered</td>
<td>Scattered</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.54 in</td>
<td>0.53 in</td>
<td>0.44 in</td>
</tr>
</tbody>
</table>
Flight Collection Plan for 29 May 2021

Flyority 1
Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 1 Flight Box
Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L

Flyority 2
Collection Area: Oak Ridge National Laboratory (ORNL)
Flight Plan Name: D07_ORNL_C1_P1_v9_PRM.xml
On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L

Flyority 3
Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 2 Flight Box
Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L

Crew: Elissa & Ivana