Date: 2018-04-28  
Flight Campaign ID: 2018_P3C1  
Airport, FBO ID, City: Tuscaloosa Regional Airport (KTCL) - Tuscaloosa, AL

Domain: 08  
Sites Flown: LENO (Lenoir Landing)  
Days left in Domain: 15

Report Author: Robb Walker  
Flight Crew: Robb Walker, Ivana Vu  
Flight Hours: 02:57  
Ground/GPS: Abe Morrison  
Hours until maintenance: 50.73  
Pilots: Ross Rice, Paul Muth

Additional Personnel:

GPS Instruments: 06 - LENO, 09 - FBO_KTCL

Summary
Day began with clear skies in all collection areas. Ferried to Lenoir Landing collection area and completed collection of airshed (10 lines) under green conditions, except for line 11 under partial yellow. Cloud cover had reached greater than 50% cloud cover before finishing the cross strip. All collection areas were under red conditions after returning to KTCL.

Concerns
Spectrometer chamber pressure was rising close to specification threshold. System getter was activated today and system pumped down.

Comments
- Mike Wussow departed Domain 11 (Wichita Falls, TX) today.
- Initial coverage of airshed at LENO site was completed under green conditions.
- Getter reactivated and system pumped down.
- Camera was reconnected and we will continue to collect science flights until decision is made on whether to remove the camera for repair.
- Most of photos collected today appeared uncorrupted, with only a few photos at the start of each line showing banding anomaly.
- Trouble-shooting of flight data extraction of data with disconnected camera continues.
### Flight Screenshots

**Lidar**

**NIS**

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### Pictures

**Lenoir Landing, Alabama (Start of acquisition)**

**Lenoir Landing (Mid-day)**

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### Daily Coverage

<table>
<thead>
<tr>
<th>D08</th>
<th>LENO</th>
<th>Line</th>
<th>SpecG</th>
<th>SpecY</th>
<th>SpecR</th>
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<th>Lidar</th>
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**Flown:** 11
Cumulative Domain Coverage

DELA

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

Flown: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

LENO

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Flown: 42% (11/26)
Green: 35% (9/26)
Yellow: 8% (2/26)
Red: 4% (1/26)

TALL

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Flown: 42% (11/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 42% (11/26)

Weather Forecast

<table>
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<tr>
<th>Sun 4/29</th>
<th>Mon 4/30</th>
<th>Tue 5/1</th>
<th>Wed 5/2</th>
<th>Thu 5/3</th>
<th>Fri 5/4</th>
<th>Sat 5/5</th>
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<tbody>
<tr>
<td>73°</td>
<td>46° F</td>
<td>79°</td>
<td>54° F</td>
<td>83°</td>
<td>58° F</td>
<td>86°</td>
</tr>
</tbody>
</table>

- Sunny
- Sunny
- Mostly Sunny
- Mostly Sunny
- Mostly Sunny
- Cloudy
- Cloudy

Percentage of Precipitation:

- Cloud Cover (%)
- Chance of Precip. (%)
Flight Collection Plan for 29 April 2018

Flight Priority (Flyority) 1:
Collection Area: Lenoir Landing (LENO)
Flight Plan Name: D08_LENO_R2_P1_v2_Q780
On-station Time: 1430 UTC / 0930 L

Flyority 2:
Collection Area: Talladega National Forest (TALL)
Flight Plan Name: D08_TALL_C1_P1_v2_Q780
Lines: If green, re-fly lines 14-23
On-station Time: 1430 UTC / 0930 L

Flyority 3:
Collection Area: Dead Lake (DELA)
Flight Plan Name: D08_DELA_R1_P1_v2_Q780
On-station Time: 1430 UTC / 0930 L
Crew: Abe Morrison (Lidar), Ivana Vu (Certifier), Robb Walker (NIS)

Flight Collection Plan for 30 April 2018

Flyority: Same as previous day
Crew: Robb Walker (Lidar), Ivana Vu (NIS), Abe Morrison (Ground/GPS)

On-Going Issues

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<th>Fault</th>
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<td>Database</td>
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<td>Database crash during flight. Sometimes to both operators simultaneously, but also to both NIS and Lidar operator individually. This has been a re-occurring issue, but is only being added now. 20180404 Database no longer crashes when minimizing and maximizing. 20180410 Database experienced same network connection issues and crashed several times during both flights. Lidar Crystal Computer VNC was open on the DCC for training purposes. 20180418 Database crashed in-flight, 2 times on NIS DCC computer and 3 times on Lidar Crystal computer. 20180419 Database crashed on Lidar Crystal computer once on the ground during system startup and once in-flight on the NIS DCC computer. Andrew is investigating whether this is due to a networking issue. 20180423 Database crashed on Lidar Crystal computer 4 times in-flight 2018042413 Database crashed once on Lidar Crystal computer in-flight 2018042716 Database crashed 2 times in-flight, simultaneously on the Lidar Crystal and NIS DCC computers</td>
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<table>
<thead>
<tr>
<th>HotelKit</th>
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</thead>
<tbody>
<tr>
<td>No Extraction completion or QAQC completion emails are being sent out from Hotel Kit when it is known to have internet 20180426 Same issue at different hotel and while connected to Mifi</td>
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