Date: 2022-06-14  
Flight Campaign ID: P1C1  
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS  
Aircraft: N331AR  

Domain: 06 (Prairie Peninsula)  
Sites Flown: KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site), MCDI (McDiffett Creek)  
Days left in Domain: 2  

Report Author: Cameron  
Lidar Operators: Cameron  
Spectrometer Operators: Abe  
Pilots: Justin, Jeremy  

Flight Hours: 02:54:00, 02:09:00  
Hours until maintenance: 53.73  
GPS Instruments: 06 - KFOE, U-KSU1  

Summary  
A very windy and hazy day over the Prairie Peninsula. A thick layer of haze was visible from the ground and air. The crew decided to take advantage of the lack of cloud cover and collected 40 total lines in yellow sky conditions to complete coverage at all sites in D06.  

Concerns  
HSI time stamp issue occurred again today. A software reset was initially tried however after restart, the NIS swath failed to paint. A full restart of the DCC was preformed and the issue did not reoccur during the flight.  

Comments  
- None  

Daily Coverage  

Estimated Cloud Cover Key  

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
</table>

D06|KONZ_KONA  

| Line # | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
|--------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Lidar  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Camera   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Cloud Cover | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |

Total number of lines flown: 20
Flight Screenshots:

Lidar (KONZ_KONA)

NIS (KONZ_KONA)

Lidar (MCDI)

NIS (MCDI)
A hazy day over KONZ_KONA

Cumulative Domain Coverage

**D06|KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)**

<table>
<thead>
<tr>
<th>1</th>
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<th>18</th>
<th>19</th>
<th>20</th>
</tr>
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<tbody>
<tr>
<td>21</td>
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<td>23</td>
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<td>36</td>
<td>37</td>
<td>38</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flown: 97% (37/38)
Green: 21% (8/38)
Yellow: 76% (29/38)
Red: 0% (0/38)

**D06|MCDI (McDiffett Creek )**

<table>
<thead>
<tr>
<th>1</th>
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<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
</table>

Flown: 95% (19/20)
Green: 0% (0/20)
Yellow: 95% (19/20)
Red: 0% (0/20)

**D06|N06A (D06 Nominal Runway )**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|    |

Flown: 100% (1/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 100% (1/1)

**D06|UKFS (University of Kansas Field Station )**

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 | 21 |
|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|    |

Flown: 96% (25/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 96% (25/26)
Weather Forecast
Manhattan, KS

<table>
<thead>
<tr>
<th></th>
<th>Wed 6/15</th>
<th>Thu 6/16</th>
<th>Fri 6/17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>92°F</td>
<td>96°F</td>
<td>100°F</td>
</tr>
<tr>
<td></td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Sunny</td>
</tr>
<tr>
<td></td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

Lawrence, KS

<table>
<thead>
<tr>
<th></th>
<th>Wed 6/15</th>
<th>Thu 6/16</th>
<th>Fri 6/17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>93°F</td>
<td>96°F</td>
<td>99°F</td>
</tr>
<tr>
<td></td>
<td>PM</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td></td>
<td>0.22 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 15 June 2022

Flyority 1
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)**If Green Sky Condition**
Flight Plan Name: D06_KONZ_KONA_C1_P1_v4_PRM.xml
On-station Time: 1450 UTC / 0950 L

Flyority 2
Collection Area: University of Kansas Field Station (UKFS) **If “Green” Sky Conditions**
Flight Plan Name: D06_UKFS_R1_P1_v3_PRM.xlm
On-station Time: 1440 UTC / 0940 L

Flyority 3
Collection Area: McDiffett Creek (MCDI)
Flight Plan Name: D06_MCDI_C1_P2_v3_PRM.xml
On-station Time: 1450 UTC / 0950 L

Flight Crew: Abe (Lidar), Cam (NIS)