Date: 2023-05-26
Flight Campaign ID: P3C1
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS
Aircraft: N934MU

Domain: 06 (Prairie Peninsula)
Sites Flown: KONZ_KONA (Konza Prairie Biological Station), UKFS (University of Kansas Field Station)
Days left in Domain: 7

Report Author: Mike
Lidar Operators: Mike
Spectrometer Operators: John
Pilots: Paul, Shane

Flight Hours: 03:21
Hours until maintenance: 59.25
GPS Instruments: 02 - KFOE, AOP_UKFS, U-KSU1

Summary
Nice weather near Lawrence allowed us to finish off the priority site, UKFS, in clear conditions today. While in the air, we started collecting data at KONZ-KONA as the forecast is not currently showing clear conditions there for the next week.

Concerns
None

Comments
-6 green lines were collected at UKFS
-11 red and yellow lines were collected on the east side of KONZ-KONA

Daily Coverage

Estimated Cloud Cover Key

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

D06|UKFS

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Spectrometer</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Cloud Cover</td>
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<td>✓</td>
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<td>✓</td>
<td>✓</td>
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Total number of lines flown: 7
D06|KONZ_KONA

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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<td>Lidar</td>
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<tr>
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<tr>
<td>Camera</td>
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</tbody>
</table>

Total number of lines flown: 12

**Flight Screenshots**

UKFS Lidar

UKFS NIS

KONZ_KONA lidar

KONZ_KONA NIS
Morning skies at UKFS from the AOP tower camera

### Cumulative Domain Coverage

<table>
<thead>
<tr>
<th>Domain</th>
<th>Coverage Details</th>
</tr>
</thead>
</table>
| D06|KONZ\_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site) | Flown: 31% (11/35)  
Green: 0% (0/35)  
Yellow: 9% (3/35)  
Red: 23% (8/35) |
| D06|MCDI (McDiffett Creek) | Flown: 0% (0/19)  
Green: 0% (0/19)  
Yellow: 0% (0/19)  
Red: 0% (0/19) |
| D06|UKFS (University of Kansas Field Station) | Flown: 100% (25/25)  
Green: 100% (25/25)  
Yellow: 0% (0/25)  
Red: 0% (0/25) |
Weather Forecast

Manhattan, KS

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Thunderstorms</td>
<td>Thunderstorms</td>
<td>Thunderstorms</td>
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<tr>
<td>Temperature</td>
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<td>85°</td>
<td>87°</td>
<td>89°</td>
<td>88°</td>
<td>89°</td>
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<tr>
<td>Humidity</td>
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<td>63°F</td>
<td>63°F</td>
<td>63°F</td>
<td>64°F</td>
<td>PM</td>
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<tr>
<td>Precipitation</td>
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<td>0 in</td>
<td>0.05 in</td>
<td>0.04 in</td>
<td>0.1 in</td>
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</tbody>
</table>

source: wunderground.com

Flight Collection Plan for May 27 2023

Flyority 1
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)
Flight Plan Name: D06_KONZ_KONA_C1_P1_v4_Q780
On-Station Time: 14:50 UTC/ 09:50 L

Flyority 2
Collection Area: McDiffett Creek (MCDI) *If green conditions exist
Flight Plan Name: D06_MCDI_C1_P2_v3_Q780
On-Station Time: 14:50 UTC/ 09:50 L

Crew: John (lidar), Mike (NIS)