Date: 2022-06-16
Flight Campaign ID: P1C1
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS
Aircraft: N331AR

Domain: 06 (Prairie Peninsula)
Sites Flown: UKFS (University of Kansas Field Station)
Days left in Domain: 1

Report Author: Cameron
Lidar Operators: Abe
Spectrometer Operators: Abe
Pilots: Justin, Jeremy
Flight Hours: 00:24
Hours until maintenance: 53.33
GPS Instruments: 06 - KFOE, AOP_UKFS

Summary
With the forecast reporting clearing skies over our UKFS site and the tower camera seemingly confirming, the crew took to the sky hoping to "green up" the data. Upon arriving on site, a thick layer of haze with a solid cloud layer atop was observed. Additionally small cumulus clouds were developing over the site. No data was collected.

Concerns
- An active "Excessive Heat Advisory" is in effect for the region.

Comments
- The weather forecast isn’t accounting for this strange thick haze layer in the region.

Daily Coverage
Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Color</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>0-10%</td>
</tr>
<tr>
<td>Yellow</td>
<td>11-50%</td>
</tr>
<tr>
<td>Red</td>
<td>&gt;50%</td>
</tr>
</tbody>
</table>

Flight Screenshots: None

Pictures: Small clouds forming atop the Haze layer at UKFS
A thick haze layer was observed during today's attempted data collection at UKFS.

**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>20</th>
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<tbody>
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<td>21</td>
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<td>36</td>
<td>37</td>
<td>38</td>
<td></td>
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</tr>
</tbody>
</table>

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

**D06|MCDI (McDiffett Creek)**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |

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

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

| 1 |

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

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 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>Fri 6/17</th>
<th>Sat 6/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>99°F</td>
<td>73°F</td>
</tr>
<tr>
<td>Sunny</td>
<td>Sunny</td>
</tr>
</tbody>
</table>

Cloud Cover (%) | Chance of Precip. (%)

source: wunderground.com

Lawrence, KS

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</tr>
</tbody>
</table>

Flight Collection Plan for 17 June 2022

**Flyority 1**
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA) **If “Green” Sky Conditions**
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.xml
On-station Time: 1440 UTC / 0940 L

**Flyority 3**
Collection Area: McDiffett Creek (MCDI) **If “Green” Sky Conditions**
Flight Plan Name: D06_MCDI_C1_P2_v3_PRM.xml
On-station Time: 1450 UTC / 0950 L

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