May 25, 2019 Payload 3 Daily Flight Report

Date: 2019-05-25  
Flight Campaign ID: 2019_P3C1  
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS

Domain: 06  
Sites Flown: UKFS (University of Kansas Field Station)  
Days left in Domain: 2

Report Author: Michael Wussow  
Flight Crew: Michael Wussow, John Adler  
Flight Hours: 01:36  
Ground/GPS: Elissa Barris  
Hours until maintenance: 41.22  
Pilots: Gina Moore, Stephen Brawders

Additional Personnel:  
GPS Instruments: 00 - AOP_UKFS, 03 - FBO_KFOE

Summary  
The weather in The Plains continues to be unstable and un-cooperative. We were able to survey nine lines at UKFS under red conditions before the cloud deck lowered and we were forced to abort. The red conditions were mostly due to thick haze/stratocumulus and cumulus on the periphery.

Concerns  
Waveform QA did not generate and the Coverage .kml did not generate properly for yesterday’s flight, 2019052413.

Comments  
-Pilot Stephen Brawders departs this evening and Jeff Quintanilla arrives. Thanks Stephen!
-FltOps3 will make a weather call for Monday by Sunday night in order to give the NIS3 system ample time to warm up during the transit to D05, scheduled for Tuesday. The warm-up is a preventative measure taken to prevent blue-light ghosting within the system.

Flight Screenshots

Lidar

NIS
Thick haze or stratocumulus over Lawrence today

Additional cumulus and thick haze
Daily Coverage

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<th>UKFS</th>
<th>Line</th>
<th>SpecG</th>
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Flown: 9

Cumulative Domain Coverage

**KONZ_KONA**

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Flown: 100% (38/38)

Green: 0% (0/38)

Yellow: 50% (19/38)

Red: 53% (20/38)

**UKFS**

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Flown: 81% (21/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 85% (22/26)

Weather Forecast

**Topeka, KS**

- **Sun 5/26**: 79°F | 68°F (PM Thunderstorms 0.38 in)
- **Mon 5/27**: 83°F | 69°F (AM Clouds/PM Sun 0 in)
- **Tue 5/28**: 81°F | 60°F (PM Thunderstorms 0.49 in)

**Lawrence, KS**

- **Sun 5/26**: 79°F | 67°F (Scattered Thunderstorms 0.35 in)
- **Mon 5/27**: 85°F | 69°F (Cloudy/Wind 0 in)
- **Tue 5/28**: 81°F | 61°F (PM Thunderstorms 0.57 in)

Cloud Cover (%)  Chance of Precip. (%)
Flight Collection Plan for 26 May 2019

**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: 1450 – 2200Z
**If Green conditions exist

**Flyority 2**
Collection Area: University of Kansas Field Station (UKFS)
Flight Plan Name: D06_UKFS_R1_P1_v3_Q780
On-station Time: 1440 – 2150Z

**Crew:** Elissa Barris (Lidar), Mike Wussow (NIS), John Adler (GPS/Ground)