Date: 2022-06-11
Flight Campaign ID: P1C1
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS
Aircraft: N331AR

Domain: 06 (Prairie Peninsula)
Sites Flown: None
Days left in Domain: 5

Report Author: Abe
Lidar Operators: Abe
Spectrometer Operators: Cameron
Pilots: Jeremy, Justin
Flight Hours: 00:00
Hours until maintenance: 62.05
GPS Instruments: 06 - KFOE

Summary
The day started off promising. However, during the preflight inspection the pilots found a problem with the propeller on the #2 engine. TOIL maintenance was called, and their decision was to not allow a flight. A TOIL maintenance crew immediately flew out to us here in Topeka to address the problem. The issue was fixed by the end of the day, but there was no time left to make any collections. The otter is currently ready for the next flight.

Concerns
None

Comments
-The vacuum pump arrived last night, and due to the maintenance on the otter today we had time to reactivate the getter. Lab staff was hopeful that this reactivation would fix our ion pump “Arcing” alert we were receiving during our last flight. After the reactivation we have not seen the alert yet. The NIS never went out of spec and continues to be ready for the next flight.

Pictures

TOIL maintenance staff repairing the issue with the propeller. Pic by Abe
Cumulative Domain Coverage

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

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Floven: 0% (0/35)
Green: 0% (0/35)
Yellow: 0% (0/35)
Red: 0% (0/35)

D06|MCDI (McDiffett Creek)

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

Floven: 0% (0/19)
Green: 0% (0/19)
Yellow: 0% (0/19)
Red: 0% (0/19)

D06|N06A (D06 Nominal Runway)

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

D06|UKFS (University of Kansas Field Station)

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Floven: 100% (25/25)
Green: 0% (0/25)
Yellow: 0% (0/25)
Red: 100% (25/25)

Weather Forecast

Manhattan, KS

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<tbody>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Isolated Thunderstorms</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
<td>Sunny</td>
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<tr>
<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
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Lawrence, KS

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<tbody>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy/Wind</td>
<td>Sunny</td>
<td>PM</td>
<td>Partly Cloudy</td>
<td>Sunny</td>
<td>Sunny</td>
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<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
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source: wunderground.com
Flight Collection Plan for 12 June 2022

Flyority 1
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)
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)
Flight Plan Name: D06_MCDI_C1_P2_v3_PRM.xml
On-station Time: 1450 UTC / 0950 L

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