July, 2019 Payload 1 Daily Flight Report

Date: 2019-07-16
Flight Campaign ID: 2019_P1C1
Airport, FBO ID, City: Forbes Field, KFOE, Topeka, Kansas

Domain: 06
Sites Flown: KONZ, KONA
Days left in Domain: 1

Report Author: John Adler
Flight Crew: John Adler, Mitch Haynes
Ground/GPS: N/A
Pilots: Chad Evans, David Little
Additional Personnel: none
GPS Instruments: GPS-5 (GFBO), U-KSU1

Flight Hours: 2:28
Hours until maintenance: 100.7

Summary
The nominal runway was flown, then the rest of the KONZ_KONA lines were flown under Yellow and Red conditions.

Concerns
None.

Comments
Mercury Lamp data was collected after the mission flight.

Flight Screenshots

Lidar: Nominal Runway
Lidar: KONZ_KONA
**Cumulative Domain Coverage**

<table>
<thead>
<tr>
<th>KONZ_KONA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>21</td>
</tr>
</tbody>
</table>

Flown: 95% (36/38)
Green: 50% (19/38)
Yellow: 16% (6/38)
Red: 29% (11/38)

**Weather**

Manhattan KS

<table>
<thead>
<tr>
<th>Wed 7/17</th>
<th>Thu 7/18</th>
<th>Fri 7/19</th>
<th>Sat 7/20</th>
<th>Sun 7/21</th>
<th>Mon 7/22</th>
<th>Tue 7/23</th>
</tr>
</thead>
<tbody>
<tr>
<td>102°F</td>
<td>80°F</td>
<td>100°F</td>
<td>80°F</td>
<td>101°F</td>
<td>79°F</td>
<td>100°F</td>
</tr>
</tbody>
</table>

- Mostly Sunny  
- Partly Cloudy  
- Sunny  
- Mostly Sunny  
- Partly Cloudy  
- AM Showers  
- Sunny

- 0 in  
- 0 in  
- 0 in  
- 0.02 in  
- 0.01 in  
- 0.0 in  
- 80°F

- Temperature (°F)  
- Cloud Cover (%)  
- Chance of Precip. (%)  
- Chance of Snow (%)  
- Pressure (in)
Flight Collection Plan for 17 July 2019

Flyority 1
To be flown only if Green conditions exist.
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)
Flight Plan Name: D06_KONZ_KONA_C1_P1_v3
On-station Time: 1450 – 2210Z / 9:50-5:10 L

Crew: Mitch Haynes (lidar), John Adler (NIS)

Flight Collection Plan for 18 July 2019
Transit to Bozeman, MT