Date: 2021-07-22  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Fairbanks International Airport (PAFA) - Fairbanks, AK  
**Aircraft:** N615AR  
**Domain:** 19 (Taiga)  
**Sites Flown:** DEJU (Delta Junction)  
**Days left in Domain:** 0  
**Report Author:** John Adler  
**Lidar Operators:** John Adler  
**Spectrometer Operators:** Michael Wussow  
**Pilots:** Stephen Brawders, Vince Maarschalkerweerd  
**Flight Hours:** 02:52  
**Hours until maintenance:** 90.7  
**GPS Instruments:** C-FAI1, U-AC71, U-AC72  

**Summary:** Extreme smoke in the Fairbanks region this morning, so much we had to leave under IFR conditions to Delta Junction. The Restricted Areas were available to us today at Delta Junction, and minimal smoke as compared other sites, so we completed the P1 area under cloudy conditions.

**Concerns:** None.

**Comments:** The FBO is allowing us to use the GPU at no additional cost while the electrical connection external to the hangar gets fixed. Bridget and Murph are returning to Fairbanks tomorrow to continue with ground collection efforts.

**Daily Coverage**

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

D19|DEJU

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Total number of lines flown: 10
Flight Screenshots:

Lidar

NIS

Pictures

Smokey skies on takeoff over Fairbanks.
South end of DEJU flight area.

**Cumulative Domain Coverage**

<table>
<thead>
<tr>
<th>D19</th>
<th>BONA (Caribou Creek and Poker Flats Watershed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>41</td>
<td>42</td>
</tr>
</tbody>
</table>

- Flown: 7% (3/46)
- Green: 7% (3/46)
- Yellow: 0% (0/46)
- Red: 0% (0/46)

<table>
<thead>
<tr>
<th>D19</th>
<th>DEJU (Delta Junction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
</tr>
</tbody>
</table>

- Flown: 31% (10/32)
- Green: 0% (0/32)
- Yellow: 0% (0/32)
- Red: 31% (10/32)

<table>
<thead>
<tr>
<th>D19</th>
<th>HEAL (Healy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
</tr>
</tbody>
</table>

- Flown: 79% (26/33)
- Green: 70% (23/33)
- Yellow: 9% (3/33)
- Red: 0% (0/33)
Weather Forecast
Fairbanks, AK (PAFA, BONA)

Healy, AK (HEAL)

Delta Junction, AK (DEJU)

source: wunderground.com
Flight Collection Plan for 23 July 2021

Flyority 1
Collection Area: Healy (HEAL)
Flight Plan Name: D19_HEAL_R3_P1_v1_Q780
On-station Time: 1850 UTC / 1050 L

Flyority 2
Collection Area: Caribou Creek – Poker Flats Watershed (BONA)
Flight Plan Name: D19_BONA_C1_P1_v1_Q780
On-station Time: 1850 UTC / 1050 L

Flyority 3
Collection Area: Delta Junction (DEJU) – Priority Flight Box 1 & 2
Flight Plan Name: D19_DEJU_R1_P1_v5_Q780, D19_DEJU_R1_P2_v5_Q780
On-station Time: 1830 UTC / 1030 L

Crew: Mike (Lidar), John (NIS)