**Payload 3 Daily Flight Report**

**Date:** 2021-07-12  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Fairbanks International Airport (PAFA) - Fairbanks, AK  
**Aircraft:** N615AR

**Domain:** 19 (Taiga)  
**Sites Flown:** HEAL  
**Days left in Domain:** 36

**Report Author:** John Adler  
**Lidar Operators:** John Adler  
**Spectrometer Operators:** Elissa Barris  
**Pilots:** Vince Maarschalkerweerd, Stephen Brawders  
**Flight Hours:** 03:19  
**Hours until maintenance:** 97.6  
**GPS Instruments:** C-FAI1, U-GRNX

**Summary:** Luckily we were able to collect many Green lines before smoke from forest fires began to roll in, along with some clouds.

**Concerns:** None.

**Comments:** Updated the D19 database, then extracted today’s flight.

### Daily Coverage

**Estimated Cloud Cover Key**

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

<table>
<thead>
<tr>
<th>D00</th>
<th>HEAL</th>
<th>Line #</th>
<th>1</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
<th>27</th>
<th>28</th>
<th>29</th>
<th>30</th>
<th>31</th>
<th>32</th>
<th>33</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<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>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<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>
<td>✓</td>
<td>✓</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>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total number of lines flown: 20
Flight Screenshots

Lidar

NIS

Pictures

Denali
Weather Forecast

<table>
<thead>
<tr>
<th></th>
<th>Tue 7/13</th>
<th>Wed 7/14</th>
<th>Thu 7/15</th>
<th>Fri 7/16</th>
<th>Sat 7/17</th>
<th>Sun 7/18</th>
<th>Mon 7/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>79°F</td>
<td>72°F</td>
<td>77°F</td>
<td>77°F</td>
<td>76°F</td>
<td>77°F</td>
<td>77°F</td>
</tr>
<tr>
<td>Low</td>
<td>61°F</td>
<td>54°F</td>
<td>53°F</td>
<td>55°F</td>
<td>56°F</td>
<td>56°F</td>
<td>56°F</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>Partly Cloudy</td>
<td>Showers</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Cloudy</td>
<td>Mostly Cloudy</td>
</tr>
<tr>
<td>Precip.</td>
<td>0 in</td>
<td>0.12 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 13-16 July 2021

Flyority 1
Collection Area: Healy (HEAL)
Flight Plan Name: D19_HEAL_R3_P1_v1_Q780
On-station Time: 1830 UTC / 1030 L

Flyority 2
Collection Area: Caribou Creek – Poker Flats Watershed (BONA)
Flight Plan Name: D19_BONA_C1_P1_v1_Q780
On-station Time: 1830 UTC / 1030 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: 1820 UTC / 1020 L

Flight Crew: John, Elissa