Payload 1 Daily Flight Report

Date: 2022-07-25
Flight Campaign ID: P1C1
Airport, FBO ID, City: Deadhorse Airport (PASC) - Deadhorse, AK
Aircraft: N331AR

Domain: 18 (Tundra)
Sites Flown: None
Days left in Domain: 28

Report Author: Elissa
Lidar Operators: Elissa
Flight Hours: 00:00
Spectrometer Operators: Abe
Hours until maintenance: 85.75
Pilots: Vince, Jeremy

Summary
Extremely low, persistent fog prevented flights today, despite somewhat better conditions not too far to the south.

Concerns
None.

Comments
The GPS battery is not staying charged due to cloudy conditions, and will be monitored, charged, and swapped as needed. Mike departed Deadhorse this morning (after a bit of a weather delay). Cam will arrive tomorrow afternoon. Thanks Mike, and safe travels Cam!

Cumulative Domain Coverage

Estimated Cloud Cover Key

| Green: 0-10% | Yellow: 11-50% | Red: >50% |

D18|BARR_P1 (Barrow Environmental Observatory Priority 1)

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<tbody>
<tr>
<td>Flown:</td>
<td>0% (0/35)</td>
<td>Green:</td>
<td>0% (0/35)</td>
<td>Yellow:</td>
<td>0% (0/35)</td>
<td>Red:</td>
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### D18|BARR_P2 (Barrow Environmental Observatory Priority 2)

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- **Flown:** 0% (0/15)
- **Green:** 0% (0/15)
- **Yellow:** 0% (0/15)
- **Red:** 0% (0/15)

### D18|BARR_P3

<table>
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<tr>
<th>54</th>
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</table>

- **Flown:** 0% (0/4)
- **Green:** 0% (0/4)
- **Yellow:** 0% (0/4)
- **Red:** 0% (0/4)

### D18|N18A (D18 Nominal Runway)

| 1 |

- **Flown:** 0% (0/1)
- **Green:** 0% (0/1)
- **Yellow:** 0% (0/1)
- **Red:** 0% (0/1)

### D18|OKSR (Oksrukuyik Creek)

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<th>20</th>
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- **Flown:** 0% (0/21)
- **Green:** 0% (0/21)
- **Yellow:** 0% (0/21)
- **Red:** 0% (0/21)

### D18|TOOL (Toolik)

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- **Flown:** 0% (0/48)
- **Green:** 0% (0/48)
- **Yellow:** 0% (0/48)
- **Red:** 0% (0/48)
Weather Forecast

Deadhorse, AK (FBO)

<table>
<thead>
<tr>
<th></th>
<th>Tue 7/26</th>
<th>Wed 7/27</th>
<th>Thu 7/28</th>
<th>Fri 7/29</th>
<th>Sat 7/30</th>
<th>Sun 7/31</th>
<th>Mon 8/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Temp</td>
<td>57°</td>
<td>43°F</td>
<td>45°</td>
<td>37°F</td>
<td>42°</td>
<td>36°F</td>
<td>41°</td>
</tr>
<tr>
<td>AM Showers</td>
<td>AM Rain/Snow Showers</td>
<td>AM Rain/Snow Showers</td>
<td>AM Rain/Snow Showers</td>
<td>Cloudy</td>
<td>Cloudy</td>
<td>Mostly Cloudy</td>
<td></td>
</tr>
<tr>
<td>Precip</td>
<td>0.15 in</td>
<td>0.31 in</td>
<td>0.17 in</td>
<td>0.02 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

Galbraith Lake, AK (TOOL)

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<thead>
<tr>
<th></th>
<th>Tue 7/26</th>
<th>Wed 7/27</th>
<th>Thu 7/28</th>
<th>Fri 7/29</th>
<th>Sat 7/30</th>
<th>Sun 7/31</th>
<th>Mon 8/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Temp</td>
<td>45°</td>
<td>38°F</td>
<td>45°</td>
<td>36°F</td>
<td>44°</td>
<td>34°F</td>
<td>47°</td>
</tr>
<tr>
<td>Showers</td>
<td>Showers</td>
<td>Showers</td>
<td>Showers</td>
<td>Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Cloudy</td>
<td>Mostly Cloudy</td>
</tr>
<tr>
<td>Precip</td>
<td>0.13 in</td>
<td>0.21 in</td>
<td>0.07 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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Utqiagvik, AK (BARR)

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<tr>
<th></th>
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<th>Sun 7/31</th>
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</tr>
</thead>
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<tr>
<td>AM Temp</td>
<td>38°</td>
<td>34°F</td>
<td>36°</td>
<td>33°F</td>
<td>37°</td>
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<td>38°</td>
</tr>
<tr>
<td>Snow/Wind</td>
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<tr>
<td>Precip</td>
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<td>1 in</td>
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Flight Collection Plan for 26 July 2022

Flyority 1/2
Collection Area: Toolik Lake (TOOL)
Flight Plan Name: D18_TOOL_C1_P1_v3_PRM.xml
On-station Time: 1930 UTC / 1130 L (35deg)

Flyority 1/2
Collection Area: Barrow Environmental Observatory (BARR) – P1 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v5_PRM.xml
On-station Time: 2030 UTC / 1230 L (35deg)

Flyority 3
Collection Area: Oksrukuyik Creek (OKSR)
Flight Plan Name: D18_OKSR_A1_P1_v2_PRM
On-station Time: 1930 UTC / 1130 L (35deg)

Flyority 4
Collection Area: Barrow Environmental Observatory (BARR) – P2 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v5_PRM.xml
On-station Time: 2030 UTC / 1230 L (35deg)

Flyority 5
Collection Area: Barrow Environmental Observatory (BARR) – P3 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v5_PRM.xml
On-station Time: 2030 UTC / 1230 L (35deg)

Flyority 6
Collection Area: Nominal Runway – D18
Flight Plan Name: D18_N18A_Nominal_Runway_Test_v1_PRM.xml
On-station Time: N/A

Crew: Abe (Lidar), Elissa (NIS)