## Payload 1 Daily Flight Report

**Date:** 2022-07-20  
**Flight Campaign ID:** P1C1  
**Airport, FBO ID, City:** Deadhorse Airport (PASC) – Prudhoe Bay, AK  
**Aircraft:** N331AR  

**Domain:** D18  
**Sites Flown:** None  
**Days left in Domain:** 33

**Report Author:** Elissa  
**Lidar Operators:** Elissa  
**Flight Hours:** 00:00  
**Spectrometer Operators:** Mike  
**Hours until maintenance:** 85.75  
**Pilots:** Jeremy, Vince  
**GPS Instruments:** None

### Summary
We began pumping down the NIS chamber this morning and began cooling this afternoon. The system should be ready for collection by Friday.

### Concerns
None

### Comments
- The Toolik tower camera is scheduled to be installed on 7/27, which is the domain staff’s next site visit.  
- The pallet with the rest of our equipment arrived this afternoon.

### Weather Forecast
Prudhoe Bay – Deadhorse, AK

<table>
<thead>
<tr>
<th>Thu 7/21</th>
<th>Fri 7/22</th>
<th>Sat 7/23</th>
<th>Sun 7/24</th>
<th>Mon 7/25</th>
<th>Tue 7/26</th>
<th>Wed 7/27</th>
</tr>
</thead>
<tbody>
<tr>
<td>44°F</td>
<td>36°F</td>
<td>41°F</td>
<td>36°F</td>
<td>40°F</td>
<td>35°F</td>
<td>47°F</td>
</tr>
<tr>
<td>Mostly Cloudy</td>
<td>Cloudy</td>
<td>Showers</td>
<td>AM Showers</td>
<td>Cloudy</td>
<td>Showers</td>
<td>Mostly Cloudy</td>
</tr>
<tr>
<td>0 in</td>
<td>0.08 in</td>
<td>0.18 in</td>
<td>0.01 in</td>
<td>0.03 in</td>
<td>0.19 in</td>
<td>0.03 in</td>
</tr>
</tbody>
</table>
Salcha, AK (TOOL)

<table>
<thead>
<tr>
<th>Thu 7/21</th>
<th>Fri 7/22</th>
<th>Sat 7/23</th>
<th>Sun 7/24</th>
<th>Mon 7/25</th>
<th>Tue 7/26</th>
<th>Wed 7/27</th>
</tr>
</thead>
<tbody>
<tr>
<td>66°</td>
<td>47°F</td>
<td>57°</td>
<td>41°F</td>
<td>64°</td>
<td>43°F</td>
<td>69°</td>
</tr>
<tr>
<td>Cloudy</td>
<td>Showers</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Cloudy</td>
<td>Showers</td>
<td>Mostly Cloudy</td>
</tr>
<tr>
<td>0.04 in</td>
<td>0.16 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0.07 in</td>
<td>0.18 in</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Utqiagvik, AK (BARR)

<table>
<thead>
<tr>
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<th>Sat 7/23</th>
<th>Sun 7/24</th>
<th>Mon 7/25</th>
<th>Tue 7/26</th>
<th>Wed 7/27</th>
</tr>
</thead>
<tbody>
<tr>
<td>41°</td>
<td>35°F</td>
<td>40°</td>
<td>34°F</td>
<td>38°</td>
<td>34°F</td>
<td>39°</td>
</tr>
<tr>
<td>Mostly Cloudy/Wind</td>
<td>Cloudy</td>
<td>Cloudy</td>
<td>Showers</td>
<td>Cloudy/Wind</td>
<td>Showers</td>
<td>Rain/Snow Showers</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0.08 in</td>
<td>0.04 in</td>
<td>0.02 in</td>
<td>0.26 in</td>
<td>0.06 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for July 21, 2022

Pumping and Cooling

Crew: Mike (Lidar), Elissa (NIS)
Flight Collection Plan for July 22, 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