July 10, 2019 Payload 2 Daily Flight Report

Date: 2019-07-10
Flight Campaign ID: 2019_P2C1
Airport, FBO ID, City: Deadhorse Airport (PASC) - Deadhorse, AK

Domain: 18
Sites Flown: None
Days left in Domain: 16

Report Author: Michael Wussow
Flight Crew: Matt Devoe, Michael Wussow
Flight Hours: 00:00
Ground/GPS: None
Hours until maintenance: 63.13
Pilots: Mark Solper, Stephen Brawders
Additional Personnel:
GPS Instruments: None

Summary
Very low clouds and IFR conditions prevented the Otter from departing Deadhorse today. No flights conducted.

Concerns
None

Comments
Andrew and Alok investigated failures of past NIS lines and believe that an aging on-board calibration (OBC) bulb is having some effect on bad detector element (BDE) counts, not pointing to serious failures. Some changes have been made in the QAQC code and FlightOps 2 crew will not update the SVN code base until further notice from Andrew.

Cumulative Domain Coverage

<table>
<thead>
<tr>
<th>BARR_P1</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>
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<th>11</th>
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<tbody>
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<td>34</td>
<td>35</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Flown: 31% (11/35)
Green: 0% (0/35)
Yellow: 31% (11/35)
Red: 0% (0/35)

<table>
<thead>
<tr>
<th>BARR_P2</th>
<th>36</th>
<th>37</th>
<th>38</th>
<th>39</th>
<th>40</th>
<th>41</th>
<th>42</th>
<th>43</th>
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<th>46</th>
<th>47</th>
<th>48</th>
<th>49</th>
<th>50</th>
</tr>
</thead>
</table>
Flown: 0% (0/15)
Green: 0% (0/15)
Yellow: 0% (0/15)
Red: 0% (0/15)

<table>
<thead>
<tr>
<th>N18A</th>
<th>1</th>
</tr>
</thead>
</table>
Flown: 0% (0/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 0% (0/1)
Weather Forecast
Prudhoe Bay, AK (PASC)

<table>
<thead>
<tr>
<th>Thu 7/11</th>
<th>Fri 7/12</th>
<th>Sat 7/13</th>
<th>Sun 7/14</th>
<th>Mon 7/15</th>
<th>Tue 7/16</th>
<th>Wed 7/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°</td>
<td>33° F</td>
<td>47°</td>
<td>38° F</td>
<td>56°</td>
<td>46° F</td>
<td>57°</td>
</tr>
</tbody>
</table>

Partly Cloudy
0 in
Partly Cloudy
0 in
Partly Cloudy
0 in
Mostly Cloudy
0 in
Partly Cloudy
0.02 in
AM Showers
0.01 in
Partly Cloudy
0.09 in

Toolik Lake, AK (TOOL)

<table>
<thead>
<tr>
<th>Thu 7/11</th>
<th>Fri 7/12</th>
<th>Sat 7/13</th>
<th>Sun 7/14</th>
<th>Mon 7/15</th>
<th>Tue 7/16</th>
<th>Wed 7/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>64°</td>
<td>56° F</td>
<td>63°</td>
<td>57° F</td>
<td>64°</td>
<td>55° F</td>
<td>66°</td>
</tr>
</tbody>
</table>

Partly Cloudy
0 in
Partly Cloudy
0 in
Partly Cloudy
0 in
PM Showers
0.03 in
AM Showers
0.02 in
Mostly Cloudy
0.08 in
Showers
0.15 in

Cloud Cover (%) | Chance of Precip. (%)
Flight Collection Plan for 11 July 2019

**Flyority 1:**
Collection Area: Toolik (TOOL)
Flight Plan Name: D18_TOOL_C1_P1_v1.pln
On-station Time: 1840 – 0120 UTC / 1040 – 1720 L (35° solar angle)

**Flyority 2:**
Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v4.pln
On-station Time: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

**Flyority 3:**
Collection Area: Barrow Environmental Observatory (BARR) - Priority 2 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v4.pln
On-station time: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

**Flyority 4**
Collection Area: Barrow Environmental Observatory (BARR) - Priority 3 Flight Box
Flight Plan Name: D18_BARR_R1_P1_P2_P3_v4.pln
On-station time: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

**Flyority 5**
Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box – 750m AGL Initial Collect
Flight Plan Name: D18_BARR_R1_P1_v3b_760m_AGL.pln (use only if cloud heights do not permit flights at 1000m AG)
On-station time: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

**Flyority 6**
Collection Area: Nominal Runway – D18
Flight Plan Name: D18_N18A_Nominal_Runway_Test_v1.pln
On-station time: N/A
Crew: Matt DeVoe (Lidar), Michael Wussow (NIS)

Flight Collection Plan for 12 July 2019
**Flyority 1-6:** Same as previously briefed
Crew: Michael Wussow (Lidar), Matt DeVoe (NIS)