Payload 1 Daily Flight Report

Date: 2022-04-17
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N331AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 15

Report Author: Abe
Lidar Operators: Abe
Spectrometer Operators: Matt
Pilots: Justin, Stephen
Adt'l Flight Crew: Michael

Flight Hours: 00:00
Hours until maintenance: 124.00

Summary
The otter arrived this morning and swapped places with P3 in the hangar. The crew went to work installing the payload and had a very smooth and successful install. The lidar and NIS were function checked in the hangar and operated normally. The system is currently in the pumping and cooling process, which should be done by Wednesday morning.

Concerns
- The new flight line electrical system is not functioning properly and will be looked at by the contractor tomorrow morning.

Comments
None

Pictures
Otter pumping and cooling. Photo by Abe.
Cumulative Domain Coverage

D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/20)
Green: 0% (0/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

D00|BLKF (Black Forest Waveform Range Test - Galaxy)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/21)
Green: 0% (0/21)
Yellow: 0% (0/21)
Red: 0% (0/21)

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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<th>1</th>
<th>2</th>
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Flown: 0% (0/4)
Green: 0% (0/4)
Yellow: 0% (0/4)
Red: 0% (0/4)

D00|N10F (Nominal Runway at KBDU - Galaxy)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/37)
Green: 0% (0/37)
Yellow: 0% (0/37)
Red: 0% (0/37)

D00|O10C (NIS Offset - Galaxy)

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Yellow: 0% (0/2)
Red: 0% (0/2)

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

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Red: 0% (0/5)

D00|W10D (Wiggle Timing Test - Galaxy)

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Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
Weather Forecast
Boulder, CO

<table>
<thead>
<tr>
<th>Date</th>
<th>Temp</th>
<th>Cloud Cover</th>
<th>Precipitation</th>
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<tbody>
<tr>
<td>Mon 4/18</td>
<td>62°</td>
<td>Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Tue 4/19</td>
<td>72°</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Wed 4/20</td>
<td>60°</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Thu 4/21</td>
<td>74°</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Fri 4/22</td>
<td>71°</td>
<td>Partly Cloudy</td>
<td>0.28 in</td>
</tr>
<tr>
<td>Sat 4/23</td>
<td>52°</td>
<td>Showers</td>
<td>0.2 in</td>
</tr>
<tr>
<td>Sun 4/24</td>
<td>59°</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 18 April 2022
Pumping and cooling continues.

Flight Crew:
Abe & Matt