Payload 2 Daily Flight Report

Date: 2020-07-06
Flight Campaign ID: P2C1
Airport, FBO ID, City: Bozeman Yellowstone International Airport (KBZN) - Belgrade, MT

Domain: 12 (Northern Rockies)
Sites Flown: YELL (Yellowstone Northern Range), N12A (D12 Nominal Runway)
Days left in Domain: 11

Report Author: Ivana Vu
Lidar Operators: Ivana Vu
Spectrometer Operators: John Adler
Pilots: Will Matthews, Chad Evans

Flight Hours: 02:08
Hours until maintenance: 61.62
GPS Instruments: 04 - AOP_KBZN, U-MAWY, U-P720

Summary
Crew started collecting data over the airshed priority lines at YELL until clouds began to form, then moved to the western side of the box until getting clouded out there as well. Seven lines were collected in “green” conditions.

Concerns
Hotel Kit is having connectivity issues and wifi card will be changed when the Payload returns to Boulder. MIFI Jetpack will be used as a backup if necessary.

Comments
- Nominal Runway completed for D12
- Flight 2020072101 extraction troubleshooting will continue tomorrow morning

Daily Coverage
Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th></th>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Total number of lines flown: 8

D12|N12A

<table>
<thead>
<tr>
<th>Line #</th>
</tr>
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<tbody>
<tr>
<td>1</td>
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</tbody>
</table>

Lidar ✓
Spectrometer ✓
Camera ✓
Cloud Cover ✓

Total number of lines flown: 1
Flight Screenshots

YELL

N12A

Pictures

NEON’s Yellowstone Northern Range site
Cumulative Domain Coverage

D12|N12A (D12 Nominal Runway)

- Flown: 100% (1/1)
- Green: 100% (1/1)
- Yellow: 0% (0/1)
- Red: 0% (0/1)

D12|YELL (Yellowstone Northern Range)

- Flown: 28% (24/85)
- Green: 14% (12/85)
- Yellow: 14% (12/85)
- Red: 0% (0/85)

Weather Forecast

Gardiner, MT

<table>
<thead>
<tr>
<th>Tue 7/7</th>
<th>Wed 7/8</th>
<th>Thu 7/9</th>
<th>Fri 7/10</th>
<th>Sat 7/11</th>
<th>Sun 7/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>77°</td>
<td>42°</td>
<td>72°</td>
<td>40°</td>
<td>78°</td>
<td>46°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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<td>0 in</td>
</tr>
</tbody>
</table>

Flight Collection Plan for 6-17 July 2020

Flyority 1

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12_YELL_C1_P1_v4_650AGL_Max.pln

On-station Time: 0950 – 1700 Local / 1550 – 2300 UTC

Crew: John Adler and Ivana Vu