Date: 2020-07-05  
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)  
Days left in Domain: 12

Report Author: John Adler  
Lidar Operators: John Adler  
Spectrometer Operators: Ivana Vu  
Pilots: Chad Evans, Will Matthews  
Flight Hours: 02:23

Hours until maintenance: 63.75  
GPS Instruments: 04 - FBO_KBZN, U-MAWY, U-P720

Summary  
Early morning tower camera showed 95% cloud free, but once on-station the clouds began forming. We flew the western portion of the flight box under mostly yellow conditions. Unfortunately, we lost survey power on landing, so the SBET will need some extra attention to provide good results.

Concerns  
None.

Comments  
Science team to look at the SBET in detail on this flight due to the power outage.

Daily Coverage  
Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>D12</th>
<th>YELL</th>
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<tbody>
<tr>
<td>Line #</td>
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</tr>
<tr>
<td>Lidar</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
</tr>
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<td>Camera</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td></td>
</tr>
</tbody>
</table>
Flight Screenshots

Cumulative Domain Coverage

D12|N12A (D12 Nominal Runway)

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

D12|YELL (Yellowstone Northern Range)

Flown: 20% (17/85)
Green: 6% (5/85)
Yellow: 14% (12/85)
Red: 0% (0/85)

Weather Forecast
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