June 29, 2018 Payload 3 Daily Flight Report

Date: 2018-06-30  
Flight Campaign ID: 2018_P3C1  
Airport, FBO ID, City: Bozeman Yellowstone International Airport (KBZN) - Belgrade, MT

Domain: 12  
Sites Flown: None  
Days left in Domain: 6

Report Author: Mitch Haynes  
Flight Crew: Heather Rogers, Cameron Chapman, Mitch Haynes  
Flight Hours: 00:00  
Ground/GPS:  
Pilots: Mike Francis, Dylan Malfatti  
Additional Personnel:  
GPS Instruments:

Summary
Cumulus clouds hovered at and below flight altitude over Yellowstone National Park preventing any attempts at a collect today.

Concerns
The NIS chamber pressure sensor appears to be displaying an incorrect readout.

Comments
- The spectrometer remains within spec and functioning nominal.
- Swapped battery out at FBO GPS.
- The system of webcams provided by the NPS within Yellowstone are proving to be a huge asset in determining cloud coverage.

Cumulative Domain Coverage

| YELL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Flown: | 0% (0/85) |
| Green: | 0% (0/85) |
| Yellow: | 0% (0/85) |
| Red: | 0% (0/85) |
Pictures: Here are some delayed photos from the transit into Bozeman last Monday, 6/25.

Above: Bighorn Canyon National Recreation Area, Wyoming/Montana
Below: Bald Ridge within the Shoshone National Forest, Wyoming
Above: Confluence of Sunlight Creek and Clarks Fork River near Dead Indian Hill, Shoshone National Forest

Below: Flying above Beartooth Highway (WY/MT border) with the Beartooth Mountain Range visible in the distance.
Weather Forecast
Gardiner, MT

<table>
<thead>
<tr>
<th>Sun 7/1</th>
<th>Mon 7/2</th>
<th>Tue 7/3</th>
<th>Wed 7/4</th>
<th>Thu 7/5</th>
<th>Fri 7/6</th>
</tr>
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<tbody>
<tr>
<td>74°</td>
<td>43° F</td>
<td>77°</td>
<td>41° F</td>
<td>73°</td>
<td>44° F</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
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Cloud Cover (%)  Chance of Precip. (%)

Flight Collection Plan for 31 June 2018
Flyority 1 (Flight Priority 1):
Collection Area: Yellowstone Northern Range (YELL)
Flight Plan Name: D12_YELL_C1_P1_v2_Q780
On-Station Time: 15:50 UTC / 0950 L:
Crew: Heather Rogers (Lidar), Cameron Chapman (Lidar Trainer), Mitch Haynes (NIS)