Payload 1 Daily Flight Report

Date: 2022-06-22
Flight Campaign ID: P1C1
Airport, FBO ID, City: Bozeman Yellowstone International Airport (KBZN) - Belgrade, MT
Aircraft: N331AR

Domain: 12 (Northern Rockies)
Sites Flown: YELL (Yellowstone Northern Range)
Days left in Domain: 8

Report Author: Cameron
Lidar Operators: Cameron
Flight Hours: 04:03
Spectrometer Operators: Mitch
Hours until maintenance: 43.28
Pilots: Justin, Jeremy
GPS Instruments: 06-KBZN, U-MAWY, U-P720

Summary
The crew took advantage of a beautiful day at Yellowstone and covered 30 lines in “green” sky conditions before cumulus clouds began to develop..

Concerns
- The crew had to switch the “Hotel KIt Room” due to a mysterious flooding incident. No equipment appears to be affected.

Comments
- None

Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
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D12|YELL

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<tr>
<th>Line #</th>
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Total number of lines flown: 30

Flight Screenshots:
- Lidar
- NIS

Pictures

Payload 1 preparing doing engine starts preparation for data collection at YELL
Photos taken during today’s flight above YELL

Cumulative Domain Coverage

D12|N12A (D12 Nominal Runway)

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

D12|YELL (Yellowstone Northern Range)

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: 36% (31/85)  
Green: 36% (31/85)  
Yellow: 0% (0/85)  
Red: 0% (0/85)

Weather Forecast
Gardiner, MT

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<tbody>
<tr>
<td>**82°</td>
<td>46°F**</td>
<td>**68°</td>
<td>39°F**</td>
<td>**68°</td>
<td>40°F**</td>
<td>**74°</td>
</tr>
<tr>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
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source: wunderground.com

Flight Collection Plan for 23 June 2022

**Flyority 1**
Collection Area: Yellowstone Northern Range (YELL) 2-45 & 76-85  
Flight Plan Name: D12_YELL_C1_P1_v4_650AGL_Max_PRM.xml  
On-station Time: 1540 UTC / 0940 L

**Flyority 2**
Collection Area: Nominal Runway – D12  
Flight Plan Name: D12_N12A_Nominal_Runway_Test_v1_PRM.xml  
On-station Time: N/A

**Flight Crew:**
Mitch (Lidar), Cam (NIS)