Date: 2022-06-23
Flight Campaign ID: P1C1
Airport, FBO ID, City: Bozeman Yellowstone International Airport (KBZN) - Belgrade, MT
Aircraft: N331AR

Domain: 12 (Northern Rockies)
Sites Flown: N12A (D12 Nominal Runway), YELL (Yellowstone Northern Range)
Days left in Domain: 7

Report Author: Mitch
Lidar Operators: Mitch Flight Hours: 02:00
Spectrometer Operators: Cameron Hours until maintenance: 41.28
Pilots: Jeremy, Justin GPS Instruments: 06 - KBZN, U-MAWY, U-P720

Summary
A high stratus layer to the southeast of Yellowstone was the only clouds in an otherwise clear sky morning, allowing the crew to finish off the western portion of the YELL flight box before clouds grew close enough to push collections into non-green conditions. A nominal runway was collected on the return to KBZN.

Concerns
None

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>
</tr>
</thead>
</table>

D12|YELL

<table>
<thead>
<tr>
<th>Line #</th>
<th>76</th>
<th>77</th>
<th>78</th>
<th>79</th>
<th>80</th>
<th>81</th>
<th>82</th>
<th>83</th>
<th>84</th>
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<tbody>
<tr>
<td>Lidar</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Camera</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Cloud Cover</td>
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<td>✓</td>
<td>✓</td>
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Total number of lines flown: 10

D12|N12A

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<tbody>
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<tr>
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<tr>
<td>Camera</td>
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<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Total number of lines flown: 2
Cumulative Domain Coverage
D12|N12A (D12 Nominal Runway)

Flown: 100% (2/2)
Green: 100% (2/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

D12|YELL (Yellowstone Northern Range)

Flown: 48% (41/85)
Green: 48% (41/85)
Yellow: 0% (0/85)
Red: 0% (0/85)

Weather Forecast
Gardiner, MT

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>70°</td>
<td>36°F PM</td>
<td>67°</td>
<td>35°F</td>
<td>76°</td>
<td>44°F</td>
<td>81°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>0.14 in Thunderstorms</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
<td>0 in</td>
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</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 24 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

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