Payload 1 Daily Flight Report

Date: 2021-07-22
Flight Campaign ID: P1C2
Airport, FBO ID, City: Portland-Hillsborough Airport (KHIO) - Hillsboro, OR
Aircraft: N331AR

Domain: 16 (Pacific Northwest)
Sites Flown: N16A (D16 Nominal Runway), MCRA (McRae Creek)
Days left in Domain: 5

Report Author: Abe Morrison
Lidar Operators: Abe Morrison
Spectrometer Operators: Mitch Haynes
Pilots: Justin Eddington, Nick Koukoutsakis
GPS Instruments: 05 - FBO_KHIO, U-P383, U-P385

Flight Hours: 02:00
Hours until maintenance: 90.82

Summary
With low cumulus clouds over the ABBY and WREF sites this morning, the crew turned attention to the MCRA site. All 9 lines were flown in “green” sky conditions. The nominal runway plan was also flown on the return leg of today’s flight.

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>

D16|MCRA

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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</thead>
<tbody>
<tr>
<td>Lidar</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>Camera</td>
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<tr>
<td>Cloud Cover</td>
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Total number of lines flown: 9
D16|N16A

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</table>

Total number of lines flown: 2

**Flight Screenshots**

**Lidar**

**MCRA**

**NIS**

**N16A**

**Pictures**
Cumulative Domain Coverage

D16|ABBY (Abby Road)

Flown: 30% (13/44)
Green: 30% (13/44)
Yellow: 0% (0/44)
Red: 0% (0/44)

D16|MCRA (McRae Creek)

Flown: 100% (9/9)
Green: 100% (9/9)
Yellow: 0% (0/9)
Red: 0% (0/9)

D16|N16A (D16 Nominal Runway)

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

D16|WREF_P1 (Wind River Experimental Forest Priority 1)

Flown: 100% (57/57)
Green: 100% (57/57)
Yellow: 0% (0/57)
Red: 0% (0/57)

D16|WREF_P2 (Wind River Experimental Forest Priority 2)

Flown: 0% (0/25)
Green: 0% (0/25)
Yellow: 0% (0/25)
Red: 0% (0/25)

Weather Forecast

Carson WA (ABBY, WREF)

source: wunderground.com
Flight Collection Plan for July 23 2021

Flyority 1
Collection Area: Abby Road (ABBY)
Flight Plan Name: D16_ABBY_R1_P1_v2_PRM.xml
On-Station Time: 1650 UTC/ 0950 L

Flyority 2
Collection Area: Wind River Experimental Forest (WREF) - Priority 2 Flight Box
Flight Plan Name: D16_WREF_C1_P1_P2_v3_PRM.xml
On-Station Time: 1640 UTC/ 0940 L

Crew: Abe, Mitch