Date: 2019-07-27
Flight Campaign ID: 2019_P3C1
Airport, FBO ID, City: Bismarck Municipal Airport (KBIS) - Bismarck, ND

Domain: 09
Sites Flown: WOOD_DCFS (Woodworth and Dakota Coteau Field School)
Days left in Domain: 4

Report Author: Cameron Chapman
Flight Crew: Cameron Chapman, Nick Marusich
Ground/GPS: Cameron Chapman, Nick Marusich
Pilots: Dylan Malfatti, Paul Nunemann
Additional Personnel: None
GPS Instruments: 00 - WOOD_DCFS, 03 - FBO_KBIS

Flight Hours: 02:05
Hours until maintenance: 79.05

Summary
Clear skies in the morning allowed for the collection of 5 priority line over the WOOD site before clouds rolled in.

Concerns
Ongoing QA issues with D16 data.

Comments
- Mitch Arrived today from D12. Welcome to Bismarck!
- Nick departs D09 in the morning. Thanks for bring the good weather with you!

Flight Screenshots

Lidar

NIS
Above: Clear Skies over the WOOD site this morning.
Below: a NEON tower observed during the flight today
Daily Coverage

<table>
<thead>
<tr>
<th>Line</th>
<th>SpecG</th>
<th>SpecY</th>
<th>SpecR</th>
<th>NIS</th>
<th>Lidar</th>
<th>Camera</th>
<th>Cumulative</th>
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<tr>
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Flown: 5

Cumulative Domain Coverage

**NOGP**

<table>
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<tbody>
<tr>
<td>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20</td>
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<tr>
<td>21 22 23 24 25 26</td>
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</table>

**WOOD DCFS**

<table>
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<tr>
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<tr>
<td>41 42 43 44 45 46 47 48 49 50 51 52 53 54</td>
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</table>

Weather Forecast

Bismarck, ND

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<tr>
<th>Sun 7/28</th>
<th>Mon 7/29</th>
<th>Tue 7/30</th>
<th>Wed 7/31</th>
<th>Thu 8/1</th>
<th>Fri 8/2</th>
<th>Sat 8/3</th>
<th>Sun 8/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>84°</td>
<td>57°</td>
<td>F</td>
<td>77°</td>
<td>52°</td>
<td>F</td>
<td>81°</td>
<td>61°</td>
</tr>
</tbody>
</table>

- **Isolated Thunderstorms**
- **Sunny**
- **Mostly Sunny**
- **Partly Cloudy**
- **Scattered Thunderstorms**
- **Sunny**
- **Mostly Sunny**

- 0.11 in
- 0 in
- 0 in
- 0 in
- 0.05 in
- 0.18 in
- 0 in
- 0 in
Flight Collection Plan for 28 July 2019

**Flyority 1:**
Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)
Flight Plan Name: D09_WOOD_DCFS_C1_P1_v4_Q780
On-station Time: 1520 / 1020L

**Flyority 2: Completed**
Collection Area: Northern Great Plains (NOGP)
Flight Plan Name: D09_NOGP_R2_P1_v2_Q780
On-station Time: 1530 / 1030L

**Crew:** Cameron Chapman (Lidar), Mitch Haynes (NIS/GPS)

Flight Collection Plan for 29 July 2019

**Flyority 1:**
Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)
Flight Plan Name: D09_WOOD_DCFS_C1_P1_v4_Q780
On-station Time: 1520 / 1020L

**Flyority 2: Completed**
Collection Area: Northern Great Plains (NOGP)
Flight Plan Name: D09_NOGP_R2_P1_v2_Q780
On-station Time: 1530 / 1030L

**Crew:** Cameron Chapman (Lidar), Mitch Haynes (NIS/GPS)