**Payload 3 Daily Flight Report**

**Date:** 2023-07-01  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Bismarck Municipal Airport (KBIS) - Bismarck, ND  
**Aircraft:** N934MU

**Domain:** 09 (Northern Plains)  
**Sites Flown:** NOGP (Northern Great Plains)  
**Days left in Domain:** 2

**Report Author:** Nick  
**Lidar Operators:** Nick  
**Flight Hours:** 01:51  
**Spectrometer Operators:** Cameron  
**Hours until maintenance:** 115.67  
**Pilots:** Justin, Jon  
**GPS Instruments:** 02 - KBIS

**Summary**

The crew took advantage of clear skies before a front moved in to green up 13 lines at NOGP. The initial intent was to green up WOOD/DCFS, but with a weather front approaching Bismarck and clear skies at NOGP, the crew prioritized NOGP. 2 non-priority lines were collected slightly before solar angle, and 11 lines, including the airshed and TOS boundaries, were collected under green sky conditions before the clouds from the approaching front moved in.

The crew will evaluate departing Domain 9 early to avoid transit weather to D12 scheduled on Tuesday. An opportunity to green up may be present tomorrow afternoon before the weather system arrives Monday morning.

**Concerns**

None

**Comments**

None

**Daily Coverage**

**Estimated Cloud Cover Key**

| Green: 0-10% | Yellow: 11-50% | Red: >50% |

**D09|NOGP**

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Total number of lines flown: 14
**Flight Screenshots**

[Image of Flight Screenshots]

**2023070113 NIS screenshot**

**2023070113 Lidar screenshot**

**Pictures**

None

**Cumulative Domain Coverage**

**D09|NOGP (Northern Great Plains)**

| 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Flown: 100% (26/26)
Green: 54% (14/26)
Yellow: 0% (0/26)
Red: 46% (12/26)

**D09|WOOD_DCFS (Woodworth and Dakota Coteau Field School)**

| 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 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |   |   |   |   |   |   |

Flown: 100% (54/54)
Green: 37% (20/54)
Yellow: 31% (17/54)
Red: 31% (17/54)

**Weather Forecast**

**Woodworth MD (Wood_DCFS)**

- Sun 7/2: 91°/83°F, Mostly Sunny, 0.16 in.
- Mon 7/3: 73°/69°F, Mainly Sunny, 0 in.
- Tue 7/4: 79°/62°F, Partly Cloudy, 0 in.

**Bismarck ND (NOGP)**

- Sun 7/2: 94°/62°F, Sunny, 0 in.
- Mon 7/3: 78°/57°F, Scattered Thunderstorms, 0.15 in.
- Tue 7/4: 72°/52°F, AM Showers, 0.01 in.
Flight Collection Plan for 02 July 2023

Flyority 1 (If Green)
Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)
Flight Plan Name: D09_WOOD_DCFS_C1_P1_v4_Q780
On-Station Time: 15:00 UTC/ 10:00 L

Flyority 2 (If Green)
Collection Area: Northern Great Plains (NOGP)
Flight Plan Name: D09_NOGP_R2_P1_v2_Q780
On-Station Time: 15:10 UTC/ 10:10 L

Crew: Cameron (Lidar), Nick (NIS)