



## 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

**Spectrometer Operators:** Cameron

**Pilots:** Justin, Jon

**Flight Hours:** 01:51

**Hours until maintenance:** 115.67

**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

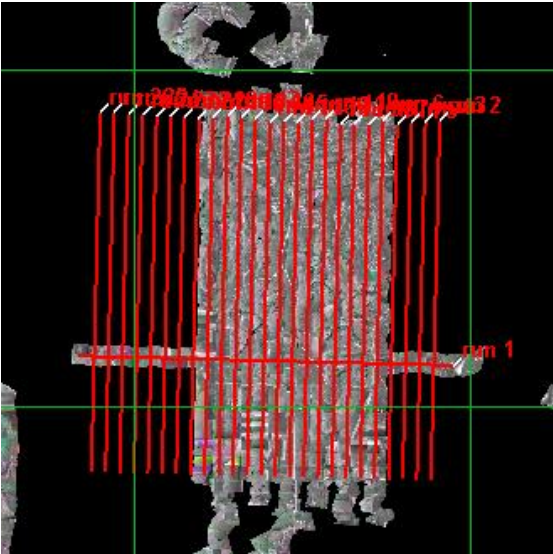
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D09|NOGP

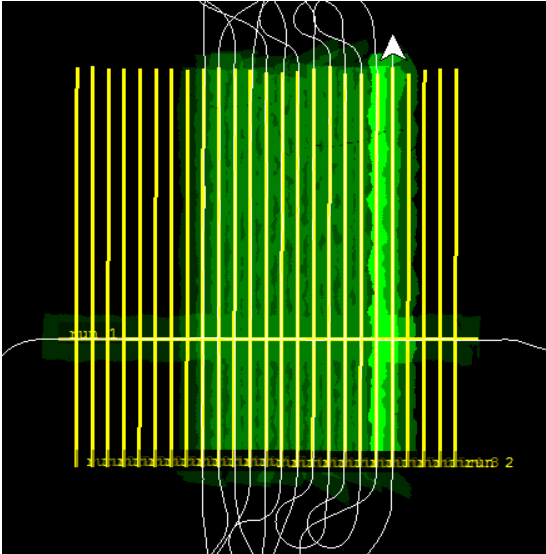
Line #	1	6	7	8	9	10	11	12	13	14	15	16	17	18
Lidar		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 14

Flight Screenshots



2023070113 NIS screenshot



202307013 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)

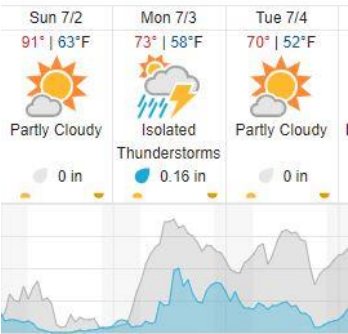
D09|WOOD\_DCFS (Woodworth and Dakota Coteau Field School )

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						

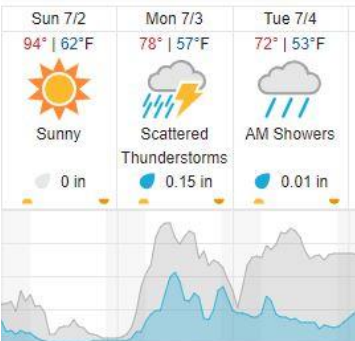
Flown: 100% (54/54)  
Green: 37% (20/54)  
Yellow: 31% (17/54)  
Red: 31% (17/54)

Weather Forecast

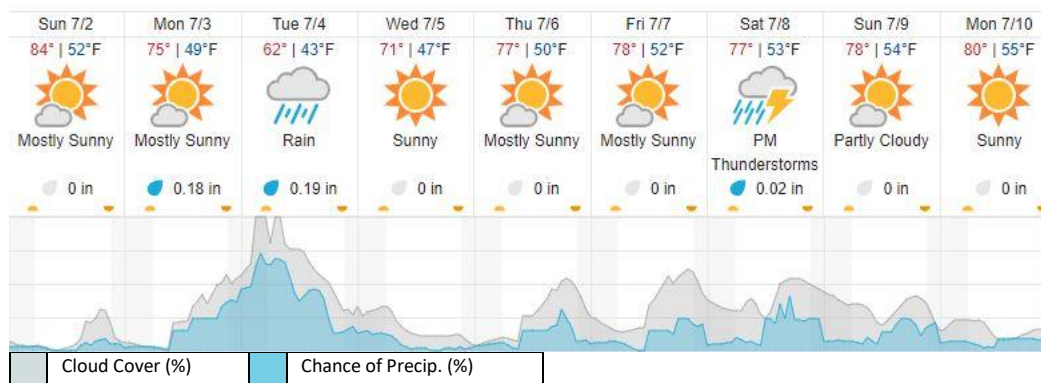
Woodworth MD (Wood\_DCFS)



Bismarck ND (NOGP)



## Bozeman MT



source: wunderground.com

## 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)