



## Payload 2 Daily Flight Report



**Date:** 2025-06-19

**Flight Campaign ID:** P2C1

**Airport, FBO ID, City:** Bismarck Municipal Airport (KBIS) - Bismarck, ND

**Aircraft:** N615AR

**Domain:** 09 (Northern Plains)

**Sites Flown:** NOGP (Northern Great Plains )

**Days left in Domain:** 6

**Report Author:** Cameron

**Lidar Operators:** Cameron

**Flight Hours:** 02:59

**Spectrometer Operators:** Alyssa

**Hours until maintenance:** 73.78

**Pilots:** Jacob, Vince

### Summary

Initially clear skies over the Northern Great Plains allowed for the collection of 14 flight lines in optimal sky conditions. Although building clouds eventually pushed conditions outside our optimal threshold, we still achieved complete coverage.

### Concerns

- None

### Comments

- None

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

### D09|NOGP

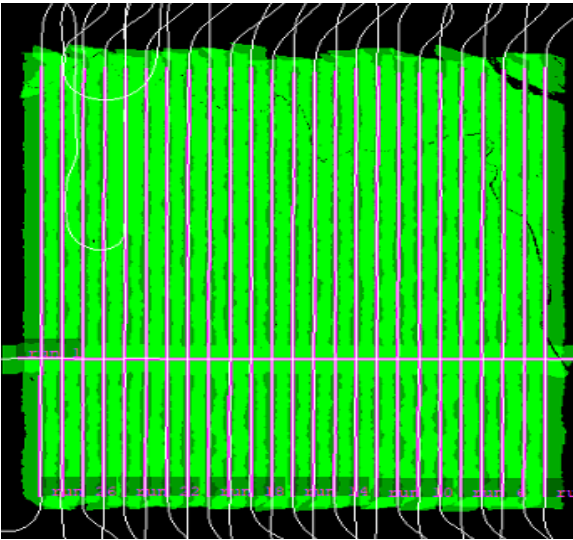
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

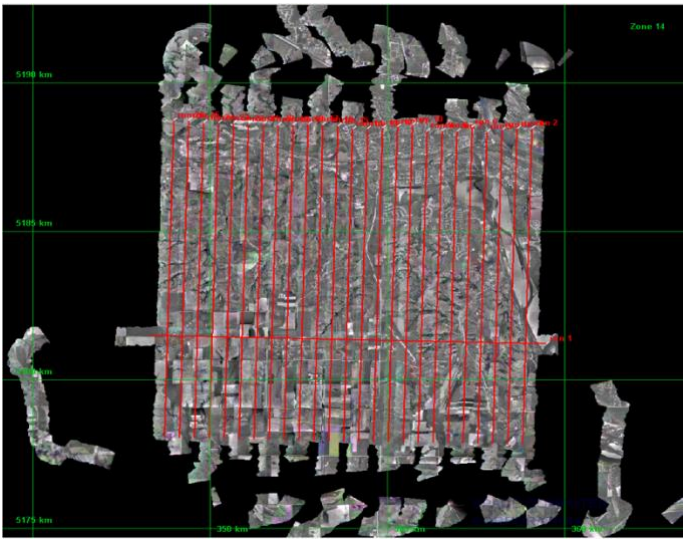
Total number of lines flown: 25

Flight Screenshots

Lidar



NIS



Pictures

Clear skies over NOGP this morning!



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: 46% (12/26)

Red: 0% (0/26)

\* Flown within 35deg solar angle

# 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: 20% (11/54)

Green: 0% (0/54)

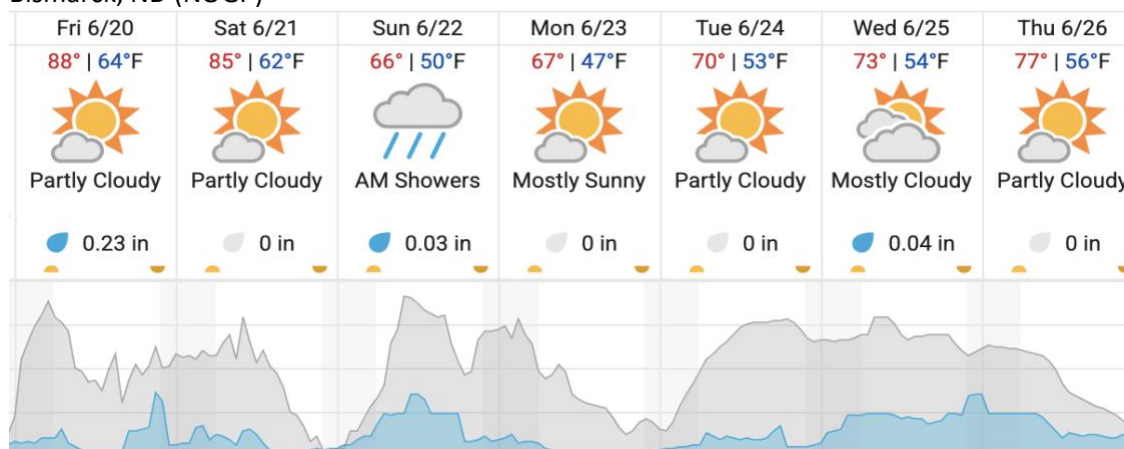
Yellow: 15% (8/54)

Red: 6% (3/54)

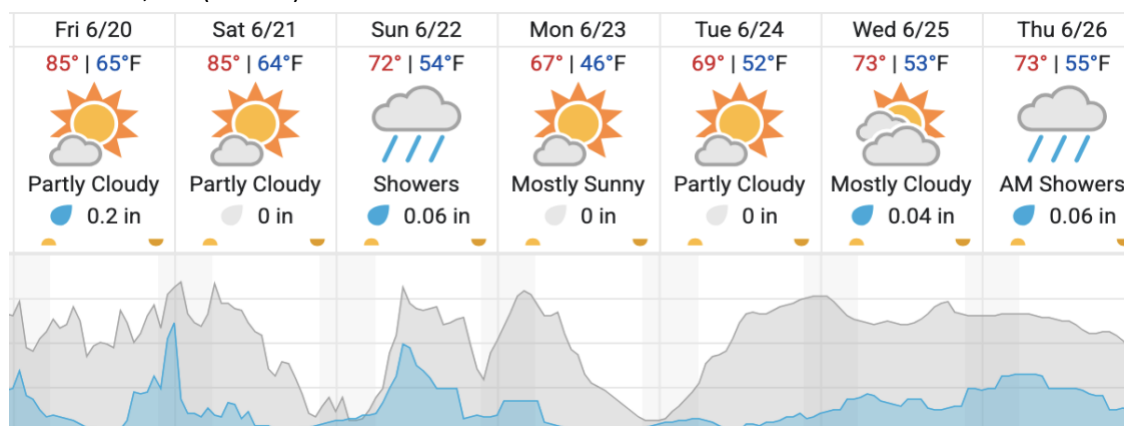
\* Flown within 35deg solar angle

## Weather Forecast

Bismarck, ND (NOGP)



Jamestown, ND (WOOD)



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

## Flight Collection Plan for 20 June 2025

### Flyority 1

Northern Great Plains (NOGP) Lines 2-10, 25-26 If green

Flight Plan Name: D09\_NOGP\_R2\_P1\_v3\_VQ780

On-Station Time: (35 degrees): 1440 UTC / 0940 L

### Flyority 2

Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)

Flight Plan Name: D09\_WOOD\_DCFS\_C1\_P1\_v5\_VQ780

On-Station Time: (35 degrees): 1430 UTC / 0930 L

**Crew:** Alyssa (Lidar), Cam (NIS)