



Payload 2 Daily Flight Report



Date: 2025-06-21

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 09 (Northern Plains)

Sites Flown: WOOD_DCFS (Woodworth and Dakota Coteau Field School)

Days left in Domain: 4

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 03:48

Spectrometer Operators: Alyssa

Hours until maintenance: 69.98

Pilots: Vince, Jacob

Summary

After extreme weather overnight, low-lying cumulus clouds delayed our flight until late morning. Once airborne, we successfully collected 26 lines at WOOD_DCFS in mixed cloud conditions.

Concerns

- Overnight storms caused a temporary power outage at the hangar. Luckily, it didn't last long, and our payload weren't adversely affected.
- Power to AOP_WOOD tower may have been affected by the overnight storm.

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D09|WOOD_DCFS

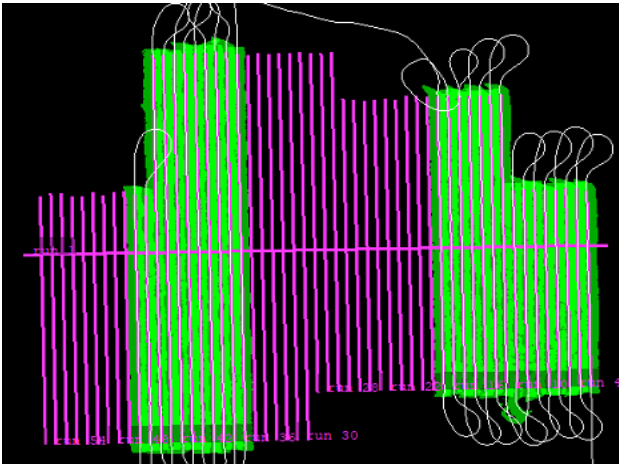
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	35	36	37	38	39
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	40	41	42	43	44	45
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

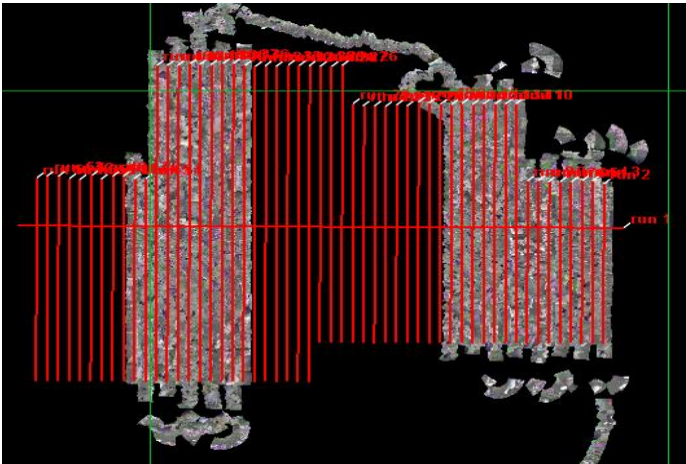
Total number of lines flown: 26

Flight Screenshots

Lidar



NIS



Pictures: Clear afternoon skies over WOOD_DCF5



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: 69% (37/54)

Green: 41% (22/54)

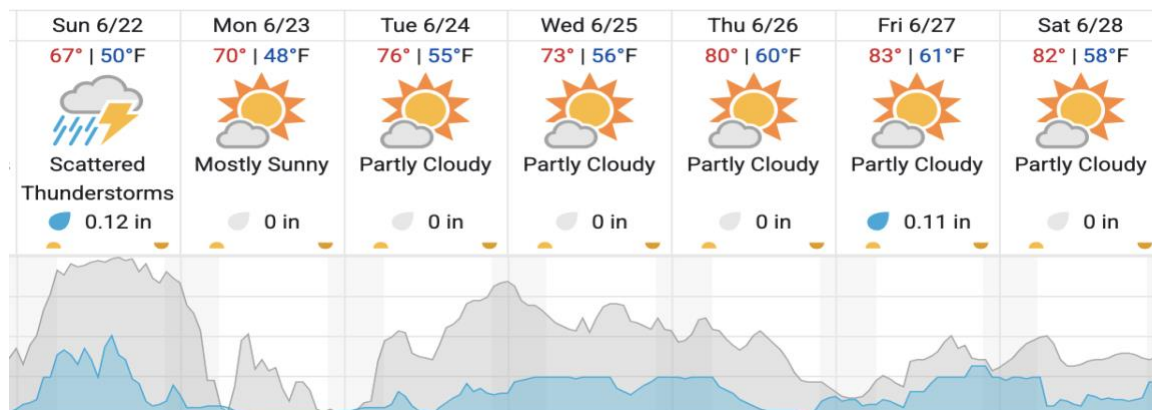
Yellow: 22% (12/54)

Red: 6% (3/54)

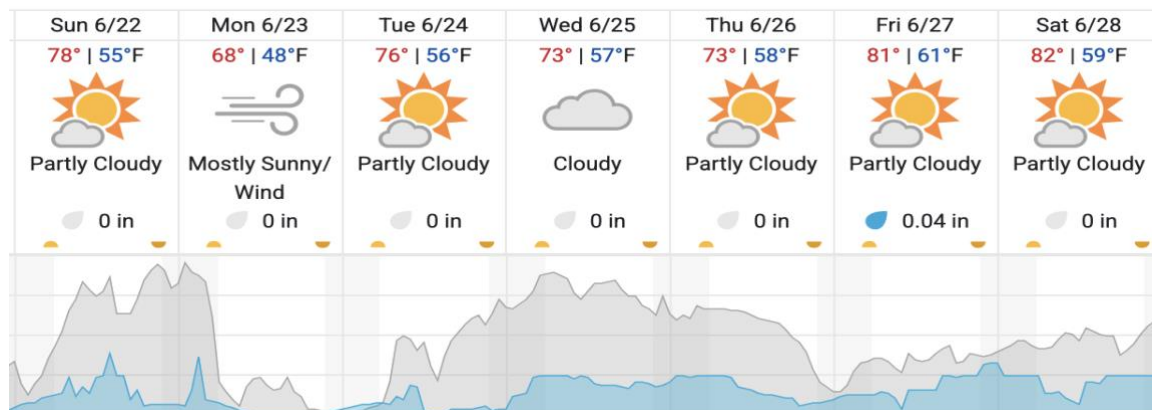
* Flown within 35deg solar angle

Weather Forecast

Bismarck, ND (NOGP)



Jamestown, ND (WOOD)



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

Flight Collection Plan for 22 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) Lines

Flight Plan Name: D09_WOOD_DCFS_C1_P1_v5_VQ780

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

Crew: Alyssa (Lidar), Cam (NIS)