



Payload 3 Daily Flight Report



Date: 2023-06-20

Flight Campaign ID: P3C1

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

Aircraft: N934MU

Domain: 09 (Northern Plains)

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

Days left in Domain: 13

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 03:00

Spectrometer Operators: Abe

Hours until maintenance: 30.02

Pilots: Jeff, Jon

GPS Instruments: 02 - KBIS, AOP_WOOD

Summary

The crew had a narrow window to collect data this morning at the WOOD_DCFS site. Upon arriving we were greeted with hazy but blue skies. With winds gusting 30 – 60 mph, the pilots could not maintain data collection speed (97kts) from the Southern end flying North. The slowest speed achievable was ~127 kts. Thus, all lines flown today were from North to South. We were able to fly 8 priority lines in green conditions before clouds moved in.

Concerns

- None

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

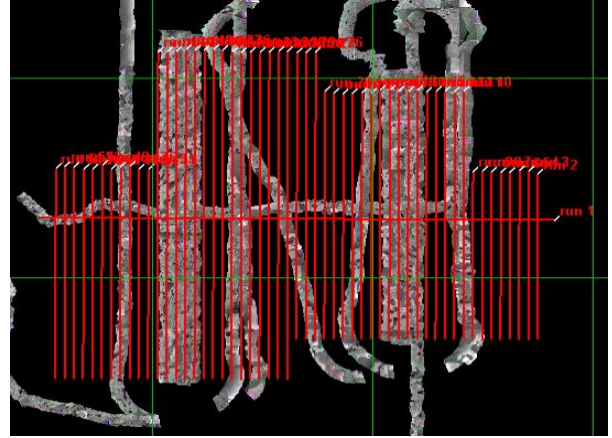
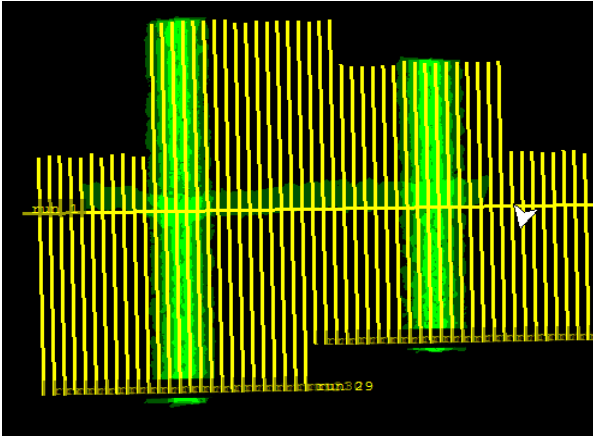
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D09|WOOD_DCFS

Line #	1	15	16	17	18	39	40	41	42
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 9

Flight Screenshots



Pictures



Above: The crew towing the aircraft out of the hangar this morning!
Below: A view out the window while flying the WOOD_DCFS site today.



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: 0% (0/26)
 Green: 0% (0/26)
 Yellow: 0% (0/26)
 Red: 0% (0/26)

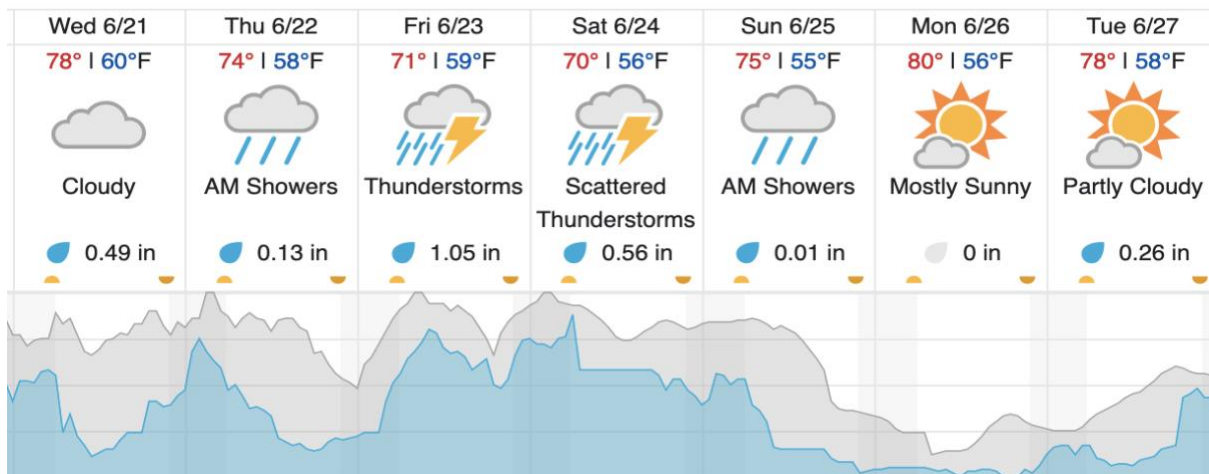
D09|WOOD_DCFS (Woodworth and Dakota Coteau Field School)

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						

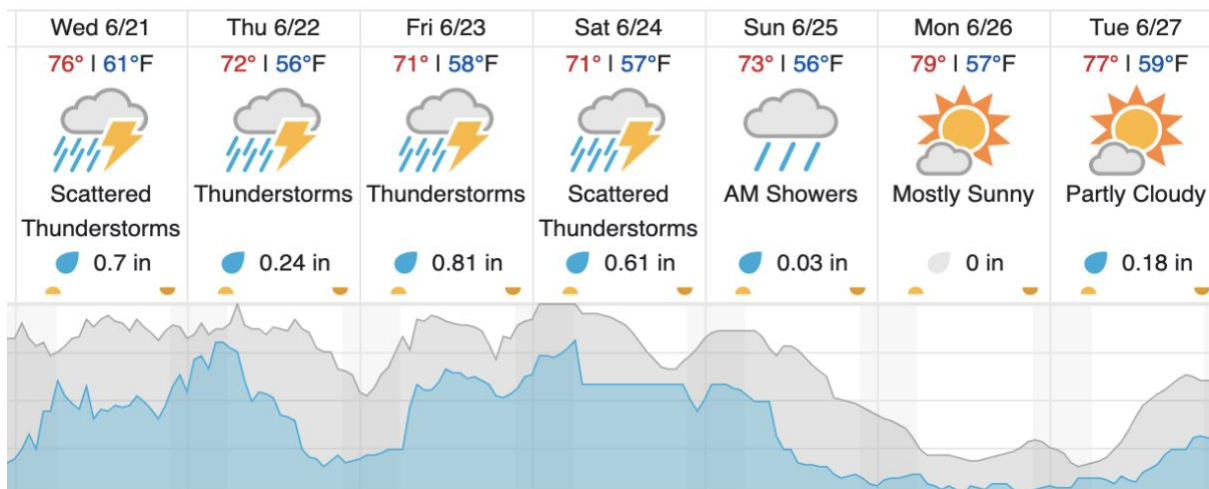
Flown: 17% (9/54)
 Green: 15% (8/54)
 Yellow: 2% (1/54)
 Red: 0% (0/54)

Weather Forecast

Bismarck, ND (NOGP)



Woodworth, ND (DCFS, WOOD)



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

Flight Collection Plan for June 21, 2023

Flyority 1

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

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: Abe (Lidar), Cameron (NIS)