



Payload 3 Daily Flight Report



Date: 2023-06-26

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: 7

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 02:59

Spectrometer Operators: Nick

Hours until maintenance: 27.03

Pilots: Justin, Jon

GPS Instruments: 02 - KBIS

Summary

The crew decided to collect the entire NOGP flight box in "red" sky conditions based on the extended forecast in D09.

Concerns

- The pilot display exhibited an infrequent lag of about 3 sec proceeded by a rapid speed up during today's flight.

Comments

- Matt departed D09 today.
- Aircraft maintenance will occur Wednesday to take advantage of anticipated poor weather.

Daily Coverage

Estimated Cloud Cover Key

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

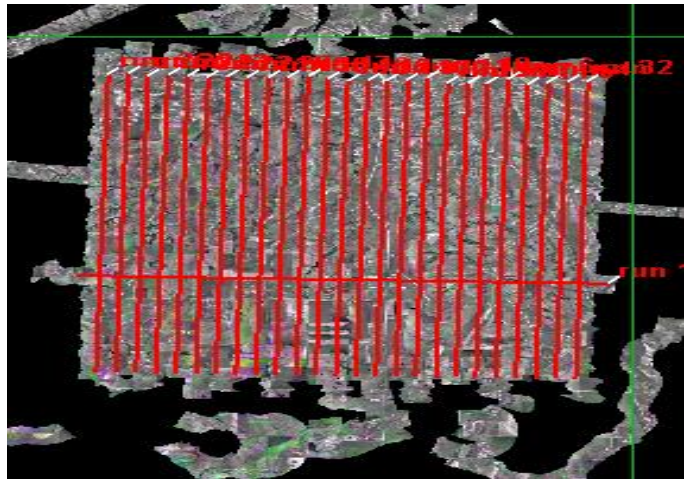
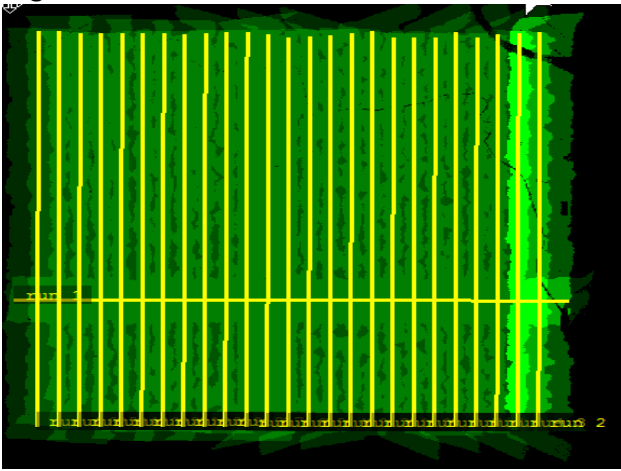
D09|NOGP

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



Pictures



Above: A view over NOGP looking toward the tower.

Below: Looking down at the tower at NOGP.



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: 0% (0/26)

Yellow: 0% (0/26)

Red: 100% (26/26)

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)

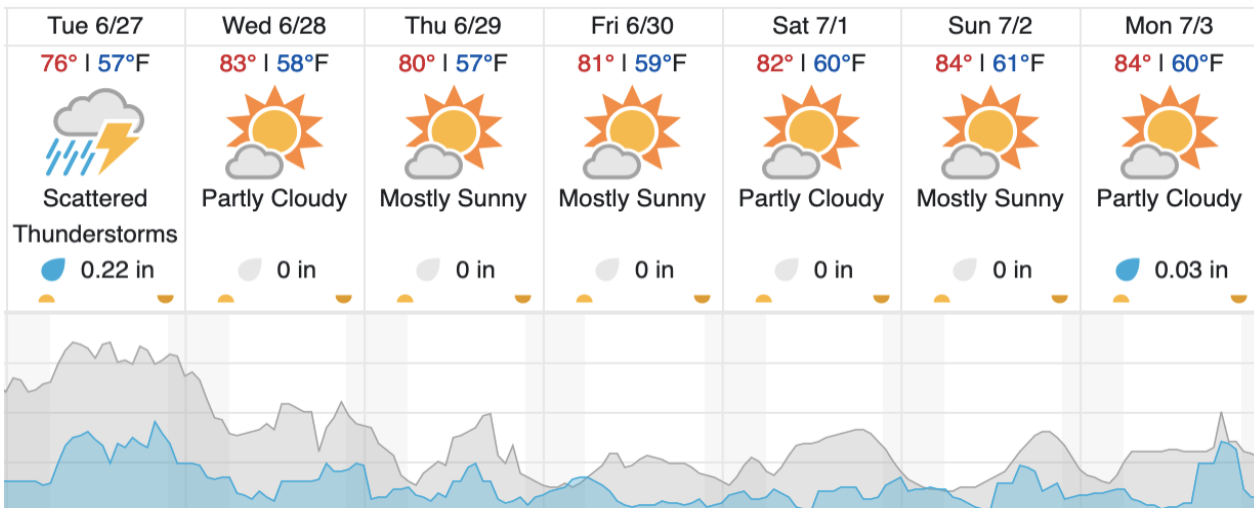
Green: 15% (8/54)

Yellow: 2% (1/54)

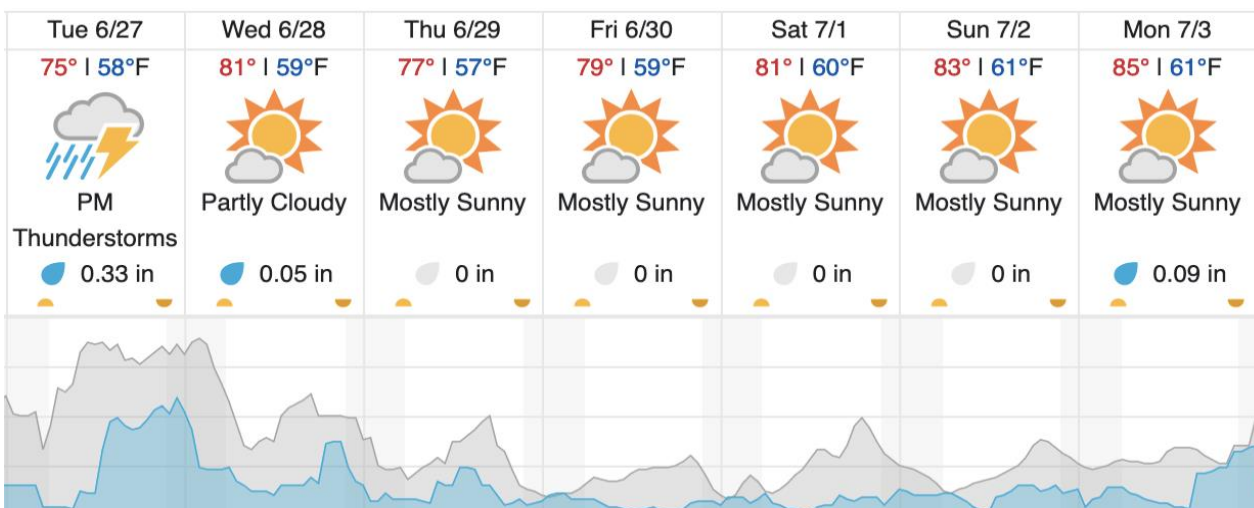
Red: 0% (0/54)

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 27, 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 (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: Nick (Lidar), Cameron (NIS)