



Payload 2 Daily Flight Report

Date: 2025-06-12

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 09 (Northern Plains)

Sites Flown: None

Days left in Domain: 14

Report Author: Alyssa

Lidar Operators:

Flight Hours: 00:00

Spectrometer Operators:

Hours until maintenance: 79.10

Pilots: Vince, Jacob

Ground Crew: Elissa, Alyssa

Summary

Vacuum pump stopped pumping last night without loss of power, and continued to randomly stop today. Pump is failing to pump down below e^{-4} , despite multiple full resets. It is unclear whether the pressure transducers are reading correctly on the pump and X piece. There also may be an issue with the solenoid. We've closed the chamber until the replacement pump arrives, expected by noon tomorrow. Chamber temperature has reached about 245K.

Concerns

Comments

Raid 4 rebuilt, to be shipped tomorrow.

Domain 09 staff tour tomorrow ^_^

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

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)

* 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: 0% (0/54)

Green: 0% (0/54)

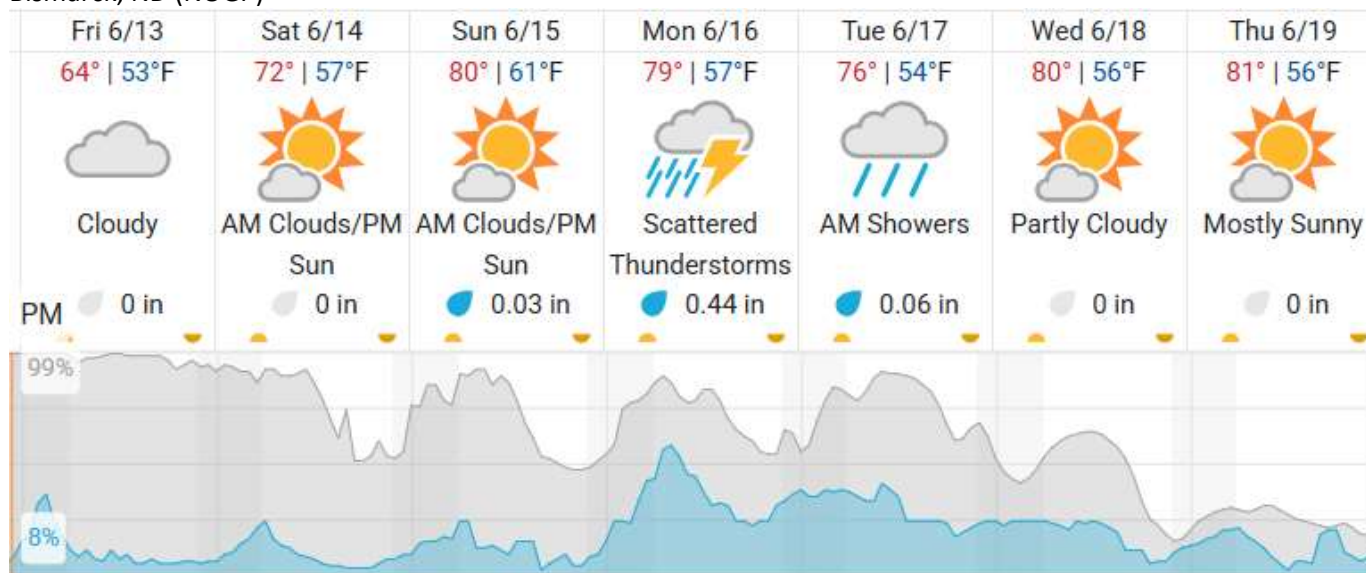
Yellow: 0% (0/54)

Red: 0% (0/54)

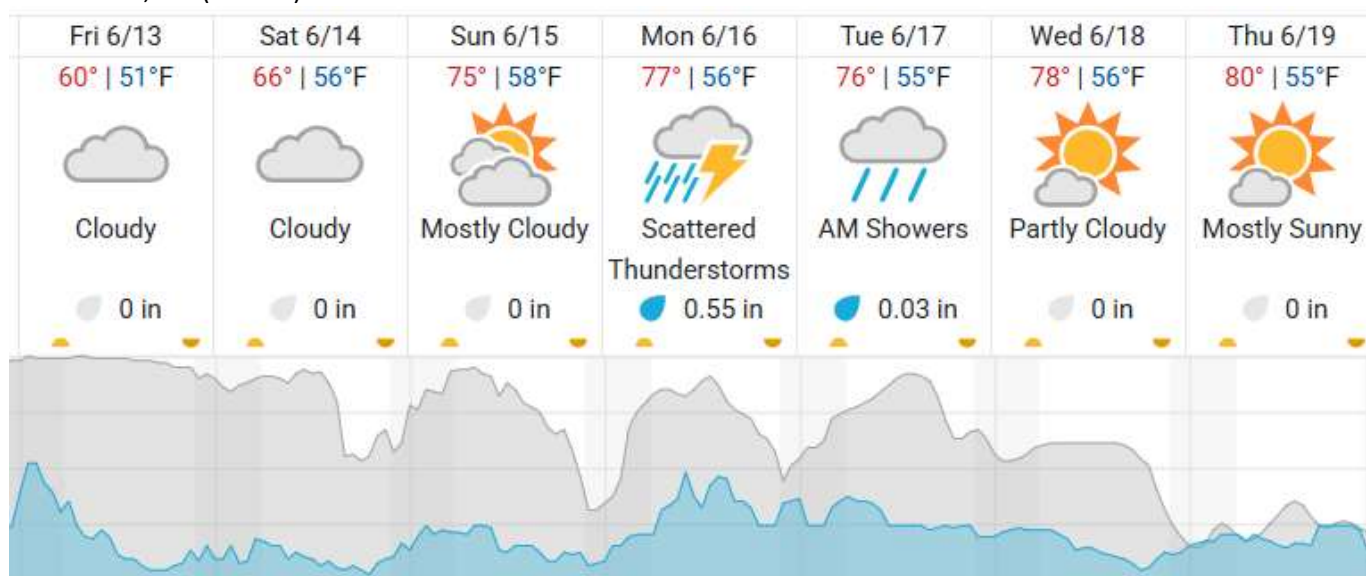
* Flown within 35deg solar angle

Weather Forecast

Bismarck, ND (NOGP)



Jamestown, ND (WOOD)



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

Flight Collection Plan for 13 June 2025

Restart pumping with replacement pump, hopefully begin cooling.

Flight Collection Plan for 14 June 2025

Flyority 1

Northern Great Plains (NOGP)

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

Flyority 3

Lidar training flight.

Crew: Elissa (Lidar), Alyssa (NIS)