



Payload 1 Daily Flight Report



Date: 2026-06-21

Flight Campaign ID: P1C1

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

Aircraft: N537AR

Domain: 09 (Northern Plains)

Sites Flown: None

Days left in Domain: 13

Report Author: Mike

Lidar Operators: Mike

Spectrometer Operators: John

Pilots: Manning, Jeff

Flight Hours: 00:24

Hours until maintenance: 84.27

GPS Instruments: None

Summary

The crew got airborne today to chip away some lines at WOOD/DCFS with only high cirrus present and a less-than-ideal upcoming forecast. However, during takeoff the BSE stopped supplying power to the lidar system, similar to what occurred a week prior. The decision was made to abort the mission rather than risk another failure mid-collect.

Concerns

The BSE appears to be the culprit in the string of intermittent lidar system shutoffs. After the system was found to be off in-air, we noticed that the UPDU switch of the BSE was On but the light was Off, indicating no power was being routed to the UPDU. We restarted the system in-air and within a few minutes we witnessed the disruption again, with the entire lidar system losing power in the same way. At this point the mission was aborted.

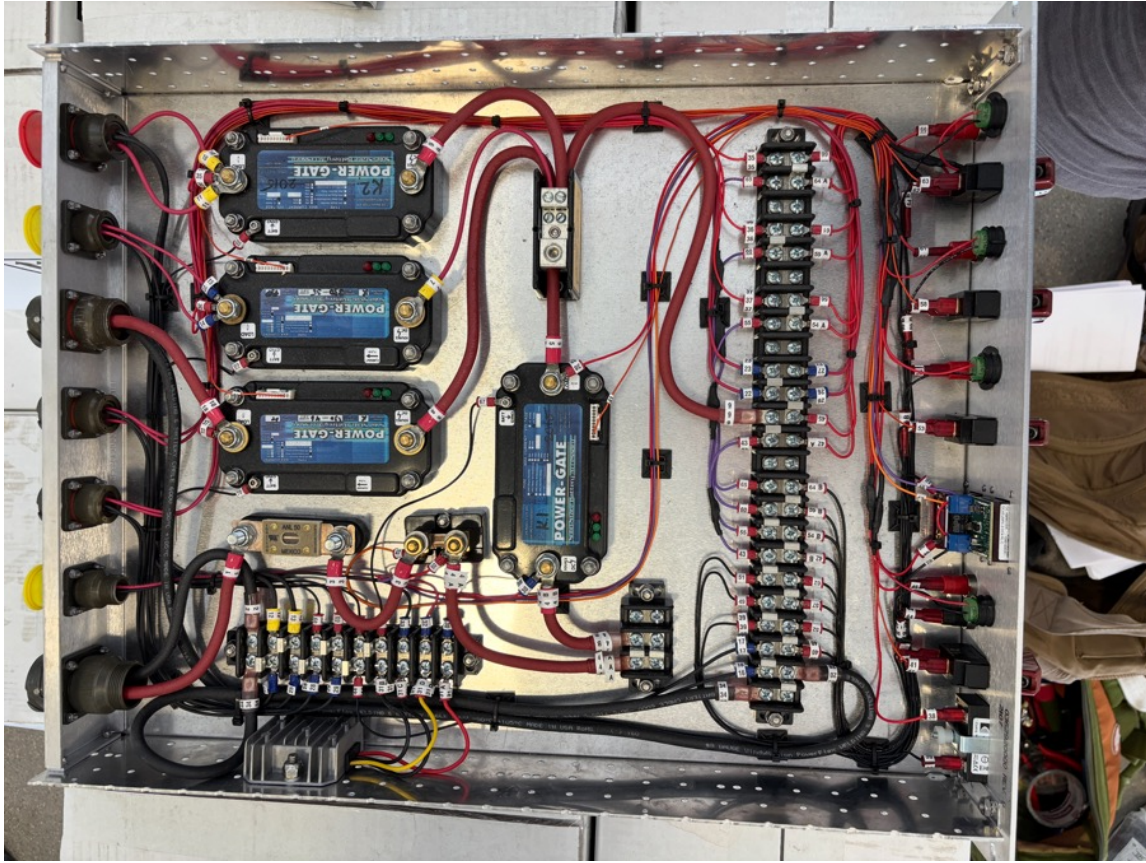
Comments

The BSE was disconnected and pulled from the rack. The top was opened, but no loose, broken, or burned components were found. A meeting with the lab will occur tomorrow.

Pictures



Top: UPDU switch On but no power, Below: Inside of BSE



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: 85% (22/26)

Yellow: 15% (4/26)

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: 24% (13/54)

Green: 0% (0/54)

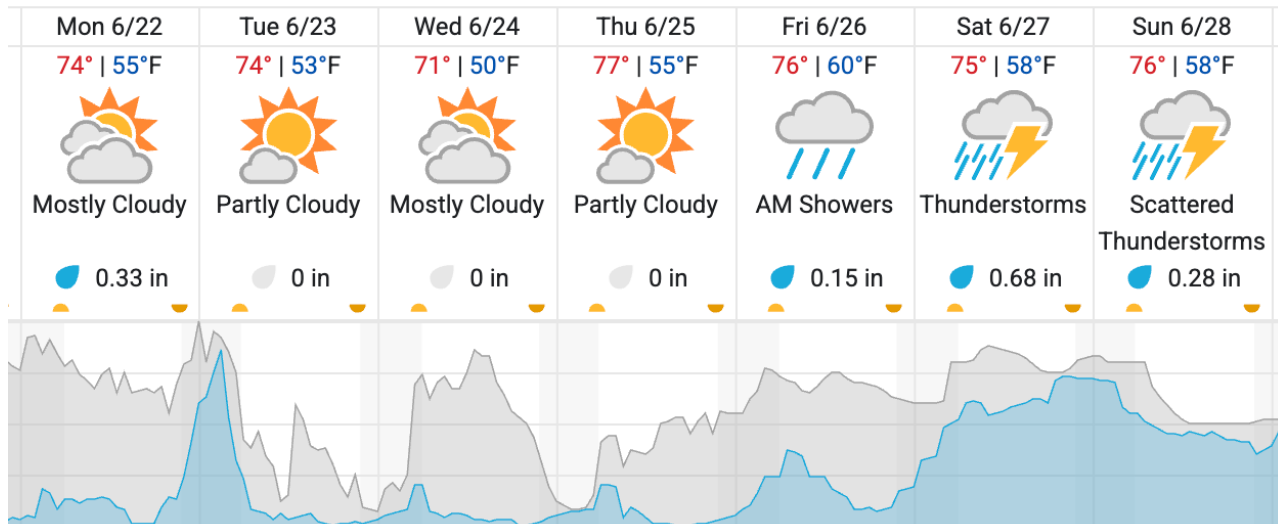
Yellow: 7% (4/54)

Red: 17% (9/54)

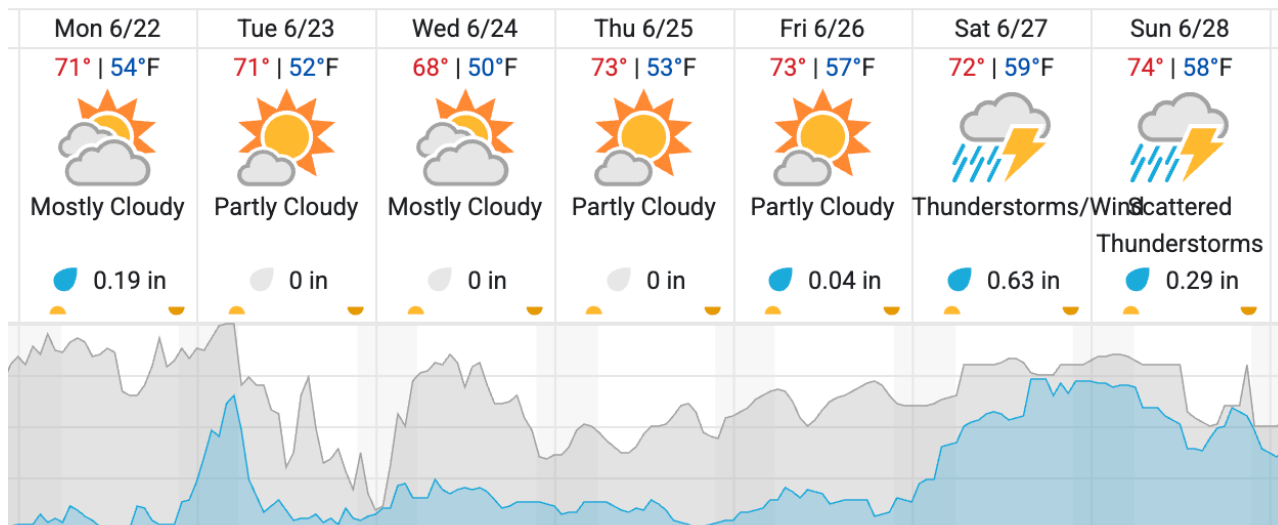
* Flown within 35deg solar angle

Weather Forecast

Bismarck, ND (NOGP)



Woodworth, ND (WOOD/DCFS)



source: wunderground.com

Flight Collection Plan for 22 June 2026

Troubleshooting BSE with Lab

Crew: John (Lidar), Mike (NIS)