



Payload 2 Daily Flight Report



Date: 2025-06-24

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: 0

Report Author: Alyssa

Lidar Operators: Alyssa

Flight Hours: 04:12

Spectrometer Operators: Cameron

Hours until maintenance: 65.78

Pilots: Manning, Vince

Summary

- Collected the last of the lines at WOOD/DCFS today and re-flew the previously red lines.
- Payload powered down for plane maintenance and transit.
- Rebuilt RAID 2025_P2C1_03 was shipped to Boulder today, along with the spare turbo pump in a separate shipment.

Concerns

- Lidar camera disk from set #2 was not writing fast enough and some of the pictures were not written to the disk. This only happened on some of the lines, most of the lines were unaffected.

Comments

- TOIL maintenance crew arrived and began the EMMA Inspection after flights.
- Support Equipment for Alaska is being palatized and has been arranged for pickup tomorrow.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

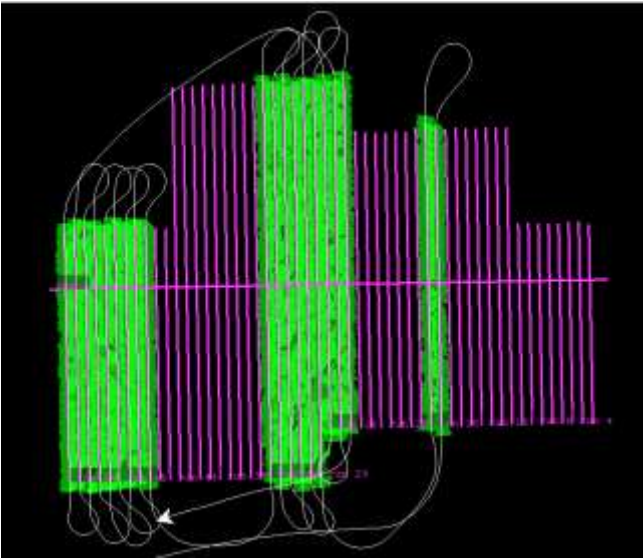
D09|WOOD_DCFS

Line #	17	18	26	27	28	29	30	31	32	33	34	46	47	48	49	50	51	52	53	54
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

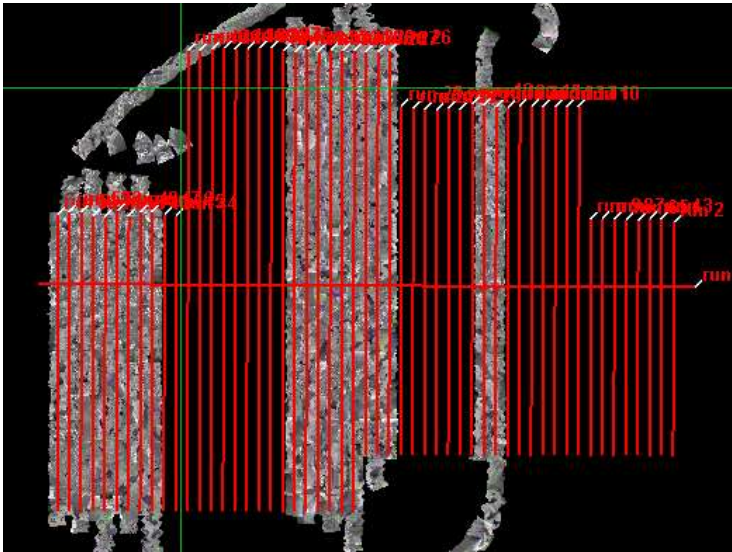
Total number of lines flown: 20

Flight Screenshots

Lidar



NIS



Pictures

Lovely final day of data collection!



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: 100% (54/54)

Green: 78% (42/54)

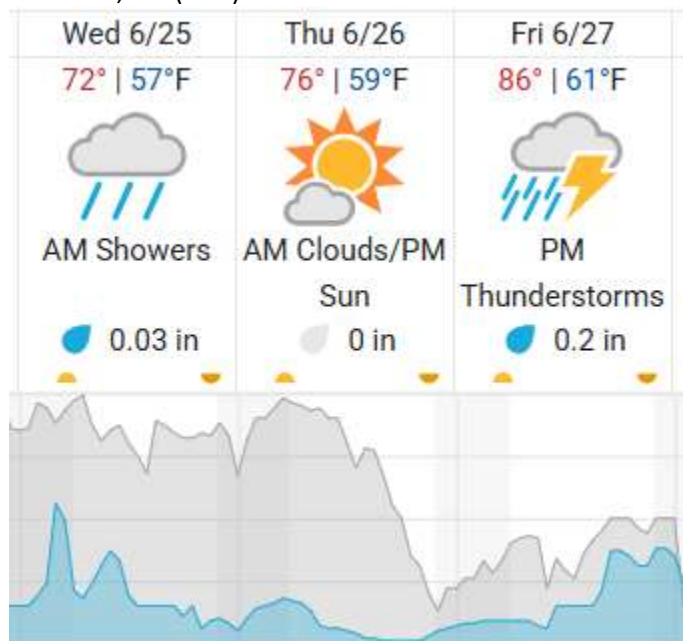
Yellow: 22% (12/54)

Red: 0% (0/54)

* Flown within 35deg solar angle

Weather Forecast

Bismarck, ND (FBO)



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