



Payload 3 Daily Flight Report



Date: 2023-07-02

Flight Campaign ID: P3C1

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

Aircraft: N934MU

Domain: 12 (Northern Rockies), 00 (Training & Calibration)

Sites Flown: Transit ()

Days left in Domain: 13

Report Author: Cameron

Lidar Operators: Cameron **Flight Hours:** 02:30:00, 00:51:00

Spectrometer Operators: **Hours until maintenance:** 112.32

Pilots: Justin, Jon

Ground Crew: Nick

Summary

An early morning storm rumbled through the Northern Plains. The clouds eventually began to dissipate, however high cirrus and cumulus clouds remained thus we were not able to "green up" data. With only 2 days remaining in D09 and a very wet / cloudy forecast, it was decided to depart for D12. We arrived in D12 this evening after making one fuel stop in Billings, Montana. This system remained on and is ready for data collection.

Concerns

- None

Comments

- None

Pictures: Cloud to ground lighting captured from the hotel window during the early morning storm in Bismarck.





Above: A photo captured between Billings & Bozeman Montana during the transit.
 Below: The Twin Otter in front of the hangar in Bozeman.



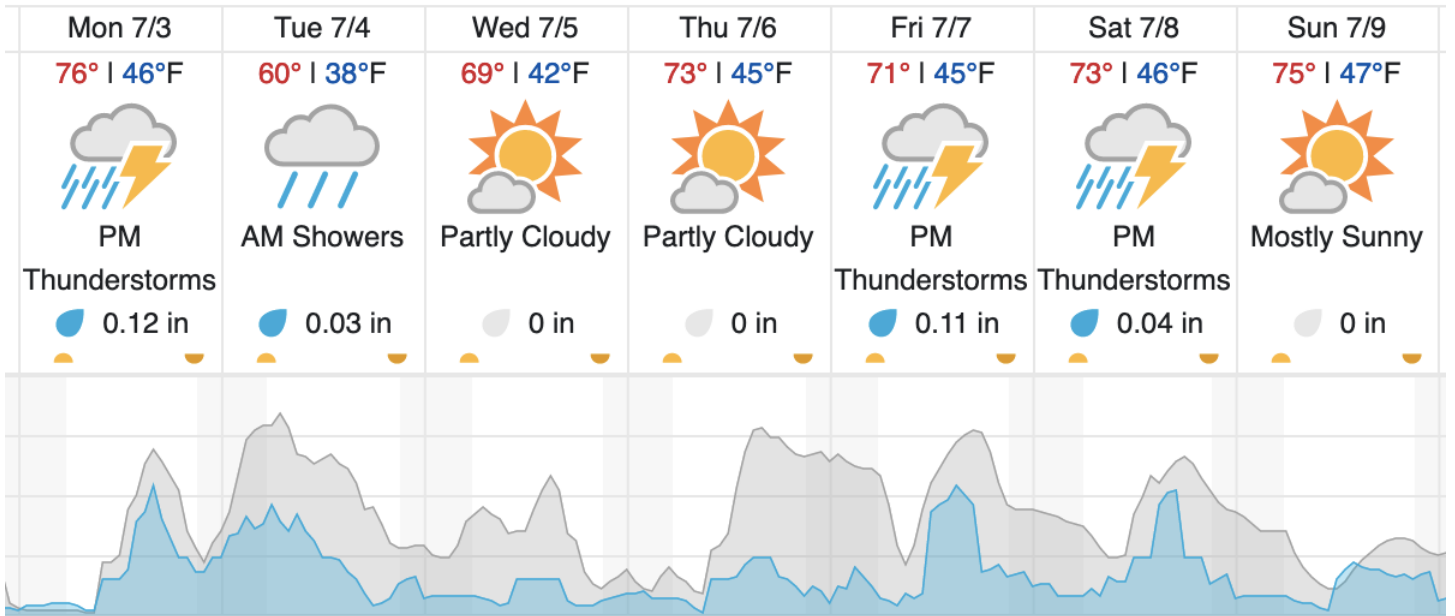
Cumulative Domain Coverage

D12|YELL (Yellowstone Northern Range)

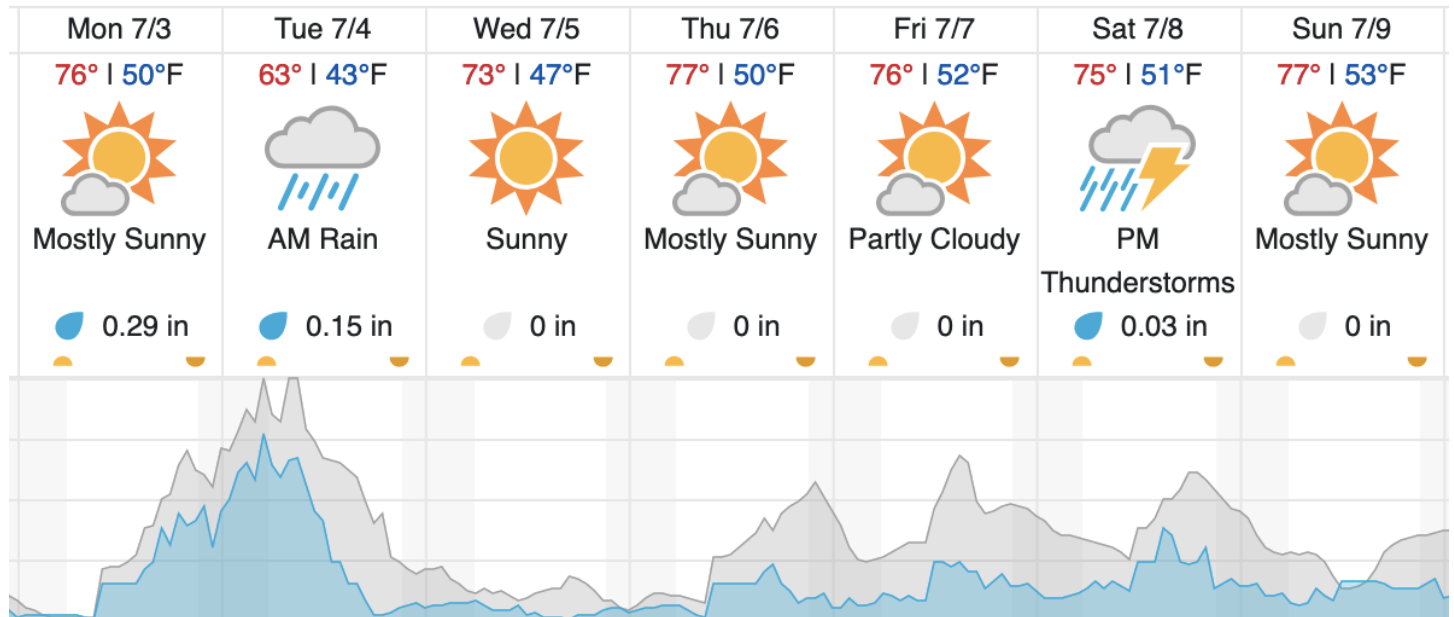
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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | | | | | | | | | | | | | | | |

Flown: 0% (0/85)
 Green: 0% (0/85)
 Yellow: 0% (0/85)
 Red: 0% (0/85)

Weather Forecast
Gardiner, MT (YELL)



Bozeman, MT (FBO)



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for July 3, 2023

Flyority 1 (If Green)

Collection Area: Yellowstone Northern Range (YELL)

Flight Plan Name: D12_YELL_C1_P1_v3_Q780

On-Station Time: 15:50 UTC/ 09:50 L

Crew: Nick (Lidar), Cameron (NIS)