



Payload 2 Daily Flight Report

Date: 2020-06-27
Flight Campaign ID: P2C1
Airport, FBO ID, City: Bismarck Municipal Airport (KBIS) - Bismarck, ND

Domain: 09 (Northern Plains)
Sites Flown: NOGP (Northern Great Plains)
Days left in Domain: 5

Report Author: Michael Wussow
Lidar Operators: Michael Wussow **Flight Hours:** 02:33
Spectrometer Operators: Robb Walker **Hours until maintenance:** 76.47
Pilots: Stephen Brawders, Will Matthews **GPS Instruments:** 02 - FBO_KBIS, AOP_WOOD

Summary

The clouds held off just long enough for the crew to get the majority of NOGP covered under “green” sky conditions. Both survey areas have been flown completely and hopefully there will be another chance at clear skies at WOOD_DCFS for “green-up.”

Concerns

QA coverage report from yesterday’s flight is showing conflicting information with regard to the lidar data collected at WOOD_DCFS. It is showing the covered lines as flown and as a gap. All other clues point suggest that data is there, but a more in-depth look into the discrepancy is desired on Monday by AOP Science.

Comments

- The lidar lag issue seen yesterday seemed to be resolved by a power cycle overnight and all systems worked nominally today.
- Thanks to P3’s Mitch Haynes for getting the Tower Cam Computer back online and flight condition pictures recording

Daily Coverage

Estimated Cloud Cover Key

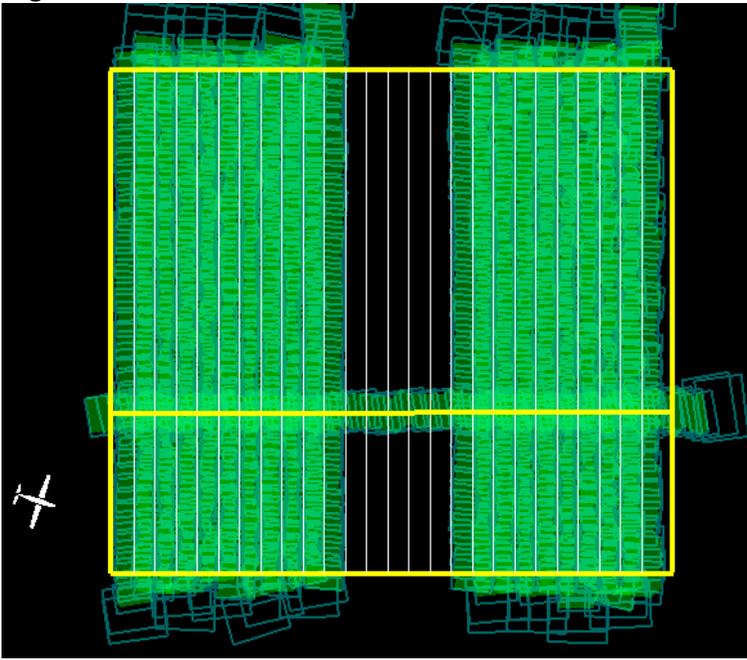
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D09|NOGP

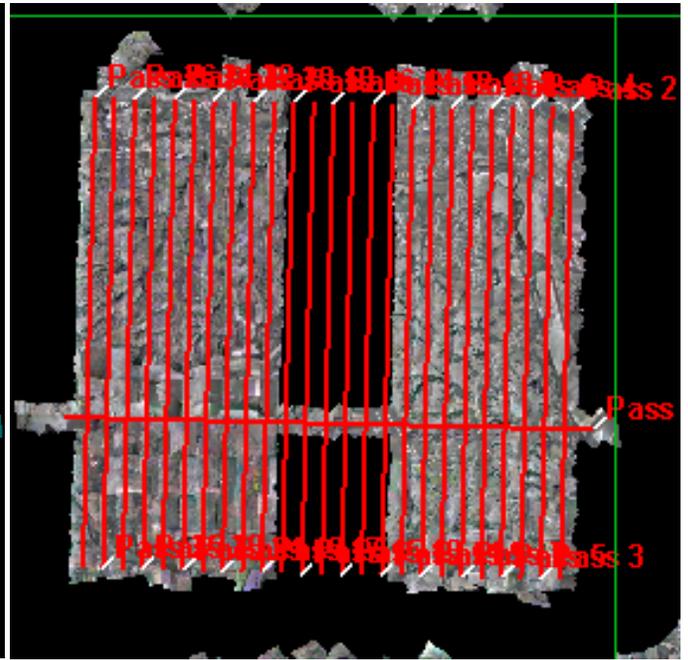
Line #	2	3	4	5	6	7	8	9	10	17	18	19	20	21	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

Total number of lines flown: 19

Flight Screenshots



Lidar



NIS

Pictures



Clear skies at NOGP today

Cumulative Domain Coverage

D09 | N09A (D09 Nominal Runway)

1

Flown: 100% (1/1)

Green: 0% (0/1)

Yellow: 0% (0/1)

Red: 100% (1/1)

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														

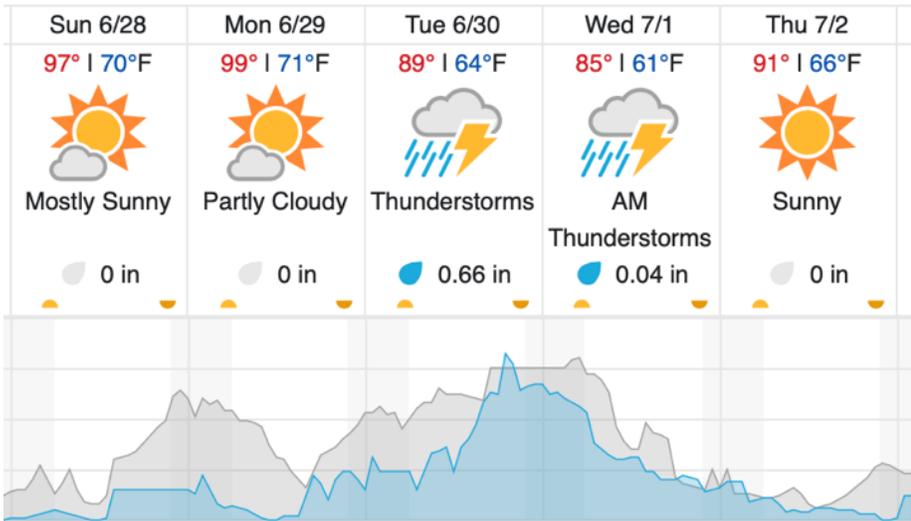
Flown: 100% (26/26)
 Green: 88% (23/26)
 Yellow: 12% (3/26)
 Red: 0% (0/26)

D09 | WOOD_DCFS (Woodworth and Dakota Coteau Field School)

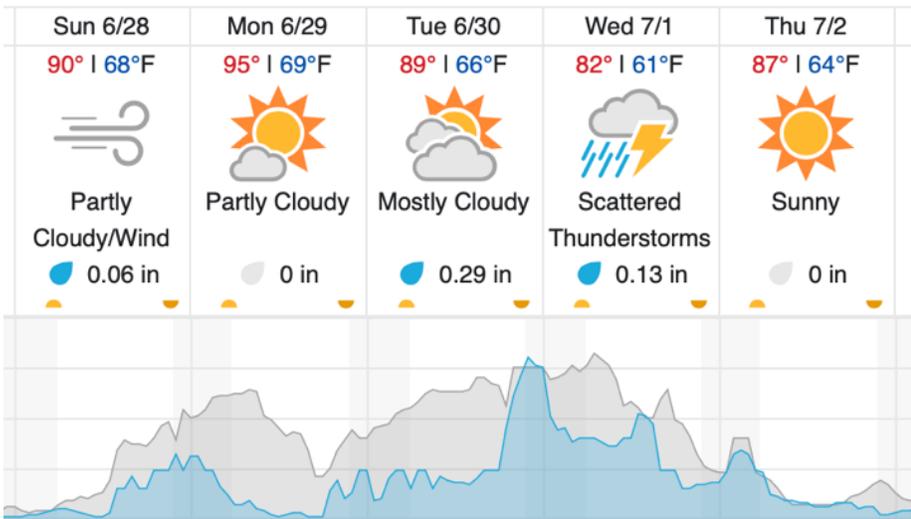
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54						

Flown: 100% (54/54)
 Green: 31% (17/54)
 Yellow: 17% (9/54)
 Red: 52% (28/54)

Weather Forecast
Bismarck, ND



Woodworth, ND



	Cloud Cover (%)		Chance of Precip. (%)
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Flight Collection Plan for 26-27 June 2020

Flyority 1

Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)

Flight Plan Name: D09_WOOD_DCFS_C1_P1_v3.pln

On-station Time: 1000 – 1720 Local / 1500 – 2220 UTC

*Lines 8-13, 19-38, and 46-54 if clear conditions exist