



Payload 2 Daily Flight Report



Date: 2020-06-26

Flight Campaign ID: P2C1

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

Domain: 09 (Northern Plains)

Sites Flown: NOGP (Northern Great Plains), WOOD_DCFS (Woodworth and Dakota Coteau Field School)

Days left in Domain: 6

Report Author: Robb Walker

Lidar Operators: Robb Walker

Flight Hours: 1:25, 2:58

Spectrometer Operators: Michael Wussow

Hours until maintenance: 79.02

Pilots: Stephen Brawders, Will Matthews

GPS Instruments: 02 - FBO_KBIS, AOP_WOOD

Summary

Crew were met with clear skies this morning and began collecting at NOGP. Cumulus began to form, but not before completing collection of all priority lines in green conditions. Focus then shifted to WOOD_DCFS in afternoon to collect remaining lines and complete initial coverage, as Bismarck is forecast more clear skies tomorrow morning to finish NOGP flight box in green conditions.

Concerns

During second flight pilots noticed a lag in display before starting collection and began to see at Lidar station as well. Unable to resolve during in-flight trouble-shooting, but pilots were able to fly lines using KML's and display once tracking line.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D09|NOGP

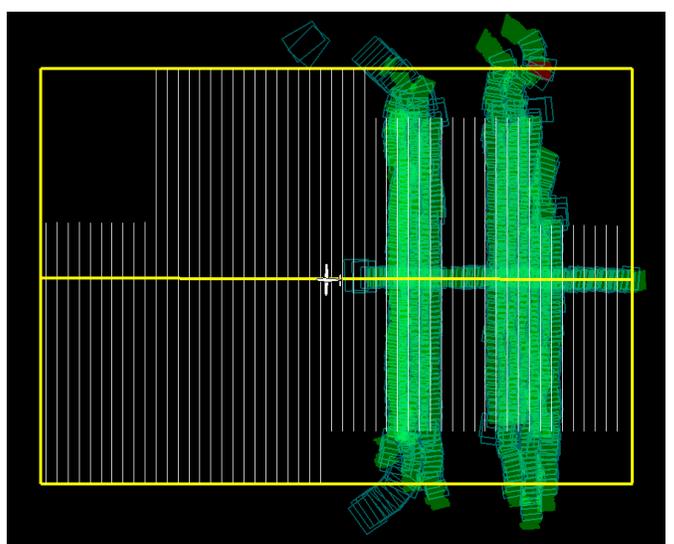
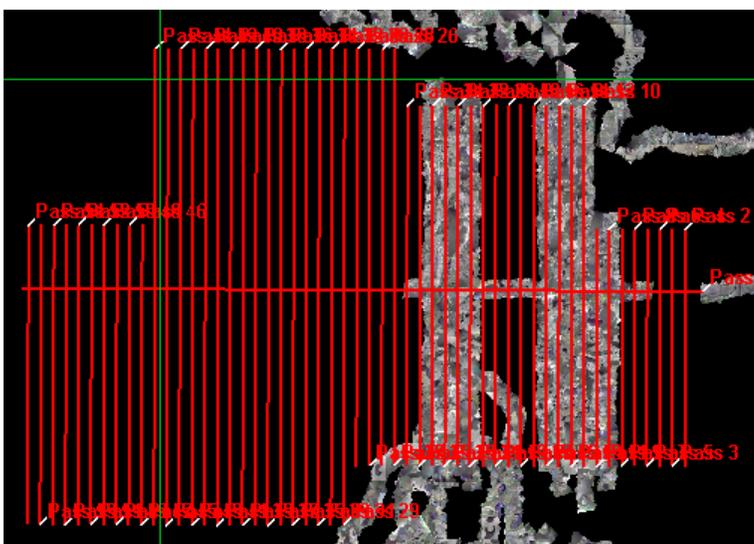
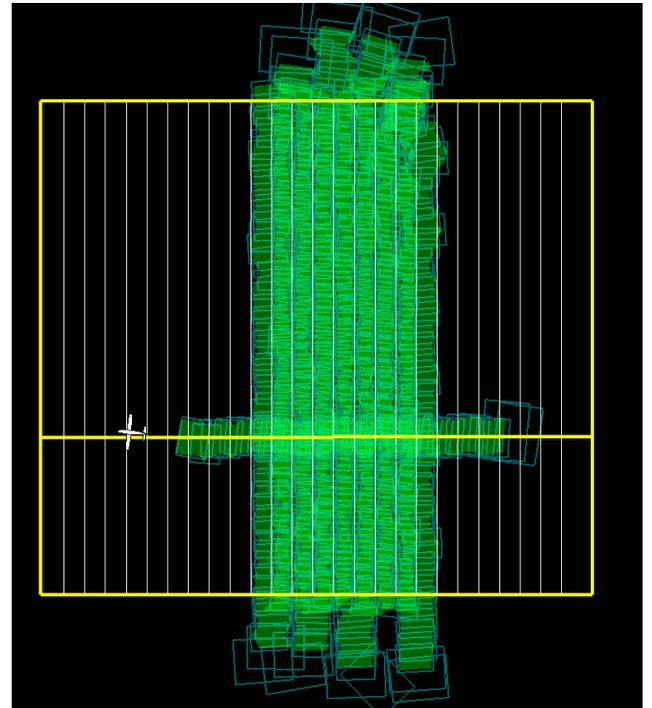
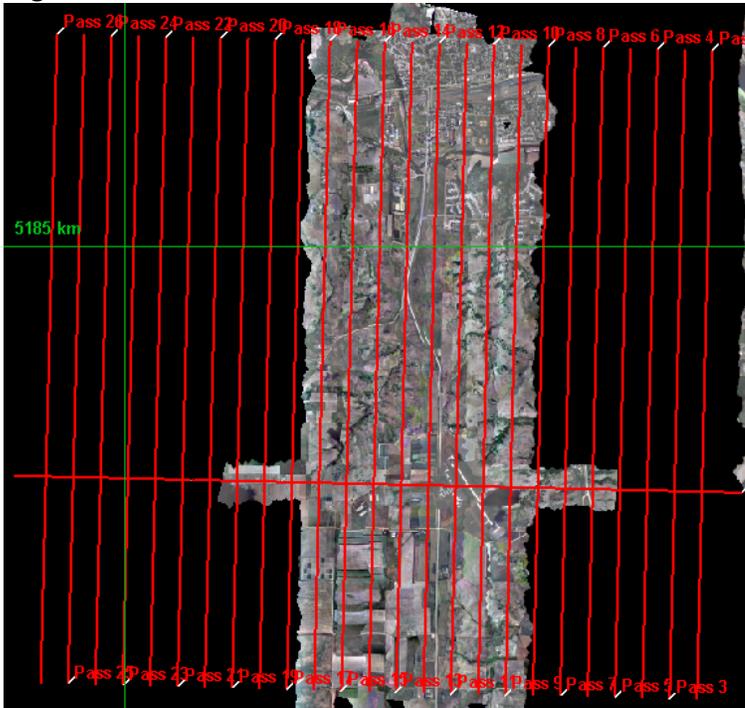
Line #	9	10	11	12	13	14	15	16
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

Total number of lines flown: 8

Line #	8	9	10	11	12	13	19	20	21	22
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

Total number of lines flown: 10

Flight Screenshots



NIS

LIDAR

Pictures



Skies over NOGP at start of flight



Clouds followed us to WOOD_DCFS this afternoon

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: 38% (10/26)

Green: 23% (6/26)

Yellow: 12% (3/26)

Red: 4% (1/26)

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)

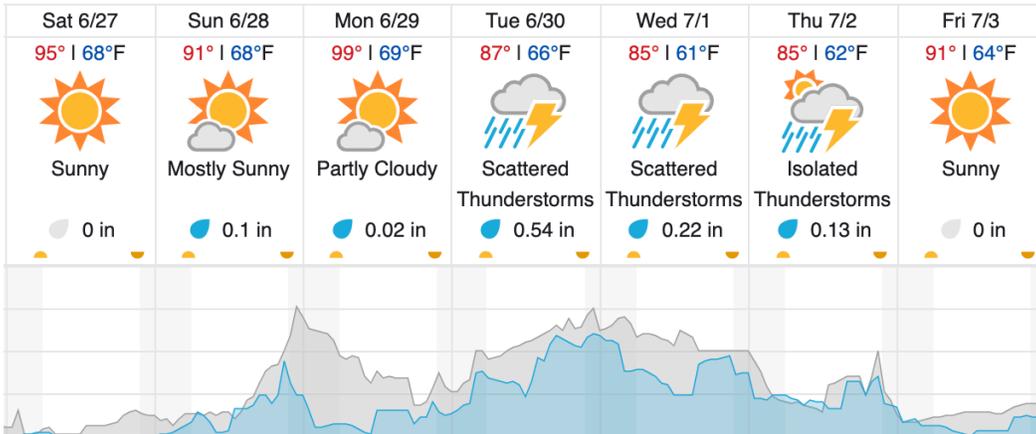
Green: 31% (17/54)

Yellow: 17% (9/54)

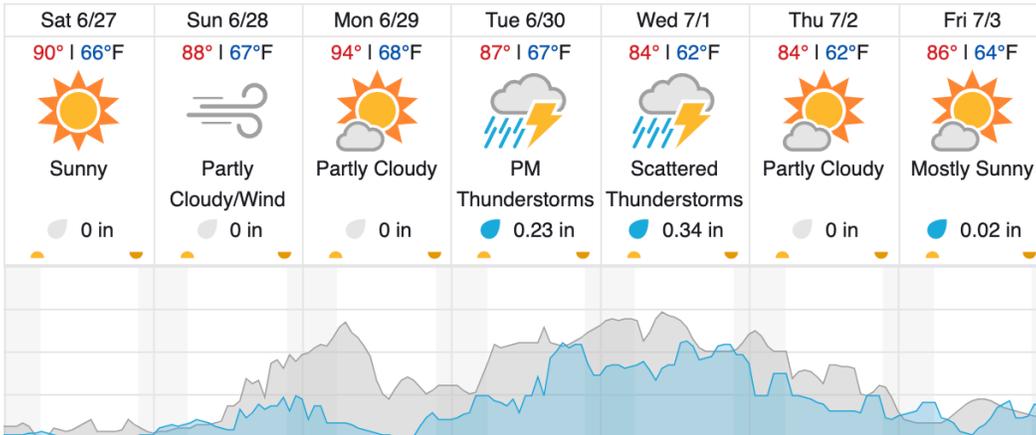
Red: 52% (28/54)

Weather Forecast

Bismarck, ND



Woodworth, ND



Flight Collection Plan for 27-28 June 2020

Flyority 1

Collection Area: Northern Great Plains (NOGP)

Flight Plan Name: D09_NOGP_R2_P1_v1.pln

On-station Time: 1010 – 1720 Local / 1510 – 2220 UTC

Flyority 2

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