



July 30, 2019 Payload 3 Daily Flight Report



Date: 2019-07-30

Flight Campaign ID: 2019_P3C1

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

Domain: 09

Sites Flown: WOOD_DCFS (Woodworth and Dakota Coteau Field School)

Days left in Domain: 1

Report Author: Cameron Chapman

Flight Crew: Cameron Chapman, Mitch Haynes

Flight Hours: 03:42

Ground/GPS: Cameron Chapman, Mitch Haynes

Hours until maintenance: 75.35

Pilots: Dylan Malfatti, Paul Nunemann

Additional Personnel: None

GPS Instruments: 03 - FBO_KBIS, AOP_WOOD-DCFS

Summary

Early morning clouds eventually cleared allowing for the completion of WOOD in mixed sky conditions. In addition, we were able to acquire better coverage on several lines that were previously collected under yellow conditions. The clouds ultimately formed again in the early afternoon.

Concerns

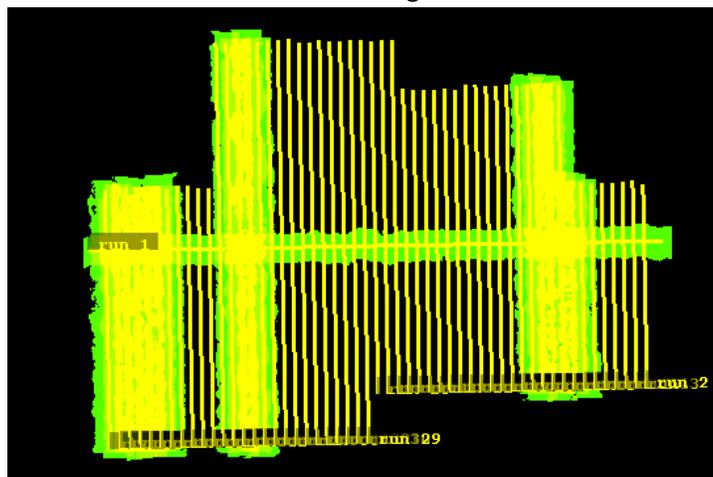
- The CMIGITS began to display a negative value during today's flight causing the geopaint to display seemingly inverted. A simple software restart did not resolve the issue. The entire NON-ECS was restarted and the issue did not reoccur during the flight.

Comments

- P3's vacuum pump was shipped today to boulder ahead of the anticipated transit
- A D09 tour of P3 is scheduled for Thursday Aug 1 at 10am.
- The flight crew will analyze the weather and may depart D09 Thursday afternoon weather dependent.

Flight Screenshots

Lidar Swath coverage



Pictures: None

Daily Coverage

D09 WOOD_DCFS	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	39				✓	✓	✓	NLC
	40				✓	✓	✓	NLC
	41				✓	✓	✓	NLC
	42				✓	✓	✓	NLC
	48				✓	✓	✓	NLC
	49				✓	✓	✓	NLC
	50				✓	✓	✓	NLC
	51				✓	✓	✓	NLC
	52				✓	✓	✓	NLC
	53				✓	✓	✓	NLC
	54				✓	✓	✓	NLC
Flown:	18							

Cumulative Domain Coverage

NOGP

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: 100% (26/26)
 Yellow: 4% (1/26)
 Red: 0% (0/26)

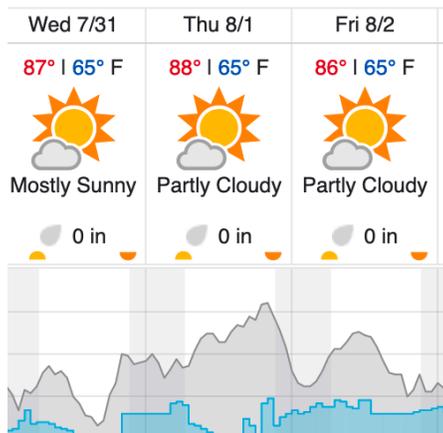
WOOD_DCFS

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						

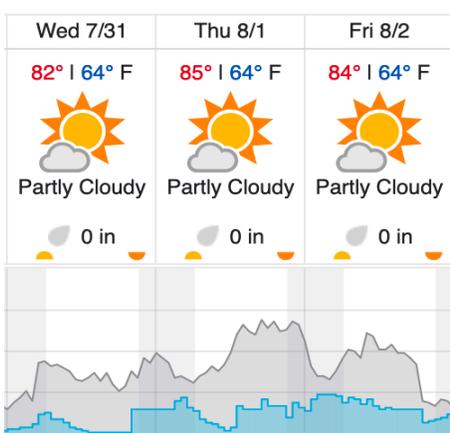
Flown: 100% (54/54)
 Green: 74% (40/54)
 Yellow: 39% (21/54)
 Red: 0% (0/54)

Weather Forecast

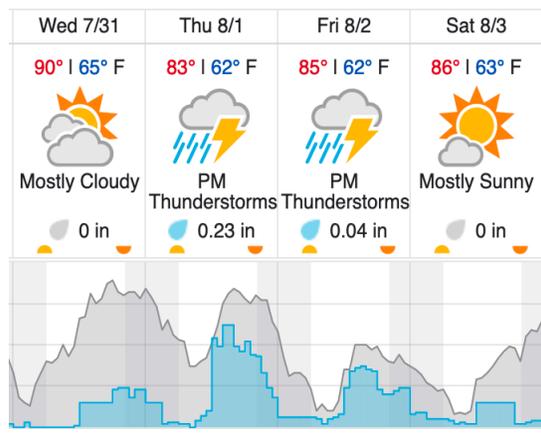
Bismarck, ND



Woodworth, ND



Boulder, CO



Flight Collection Plan for 31 July 2019

Flyority 1:

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

Flight Plan Name: D09_WOOD_DCFS_C1_P1_v4_Q780

On-station Time: 1520 / 1020L

Crew: Mitch Haynes (Lidar), Cameron Chapman (NIS/GPS)