



April 30, 2018 Payload 3 Daily Flight Report



Date: 2018-04-30

Flight Campaign ID: 2018_P3C1

Airport, FBO ID, City: Tuscaloosa Regional Airport (KTCL) - Tuscaloosa, AL

Domain: 08

Sites Flown: DELA (Dead Lake), TALL (Talladega National Forest)

Days left in Domain: 13

Report Author: Robb Walker

Flight Crew: Robb Walker, Ivana Vu

Ground/GPS: Abe Morrison

Pilots: Ross Rice, Paul Muth

Additional Personnel:

GPS Instruments: 07 - DELA, 08 - TALL, 09 - FBO_KTCL

Flight Hours: 05:11

Hours until maintenance: 39.17

Summary

The crew of Payload 3 was blessed with another "severe clear" day. We were able to collect 34 lines at two sites, DELA and TALL. All three collection sites have now been completed under green conditions pending extraction and approval of data.

Concerns

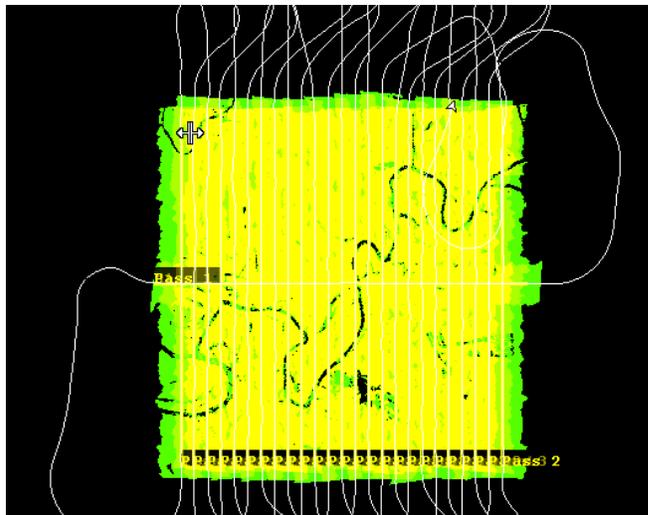
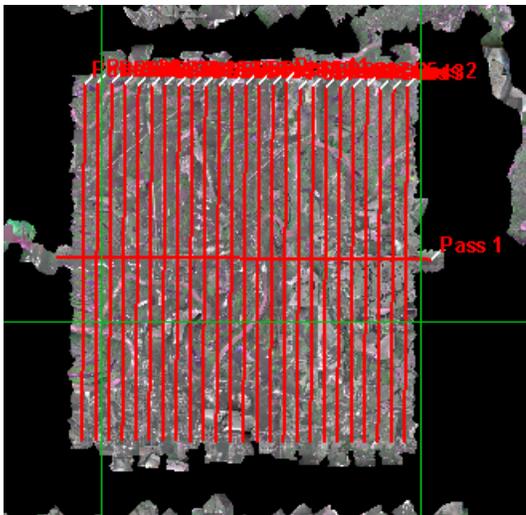
One of Twin Otter's technicians will arrive tomorrow to begin repairs on the fuel pump later in the afternoon.

Comments

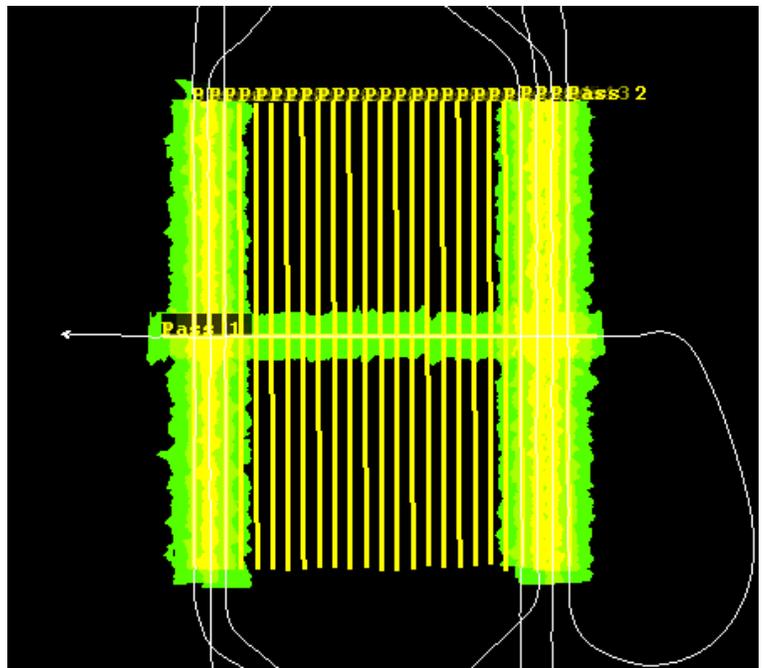
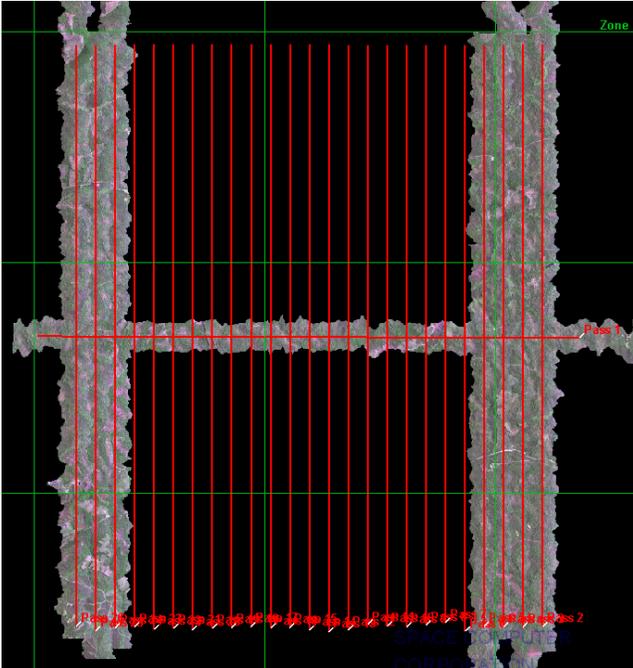
- GPS at LENO was picked up today, TALL GPS battery was replaced and DELA GPS was checked.
- TALL Line 2 and the cross-strip were collected approximately 7 minutes out of solar angle.
- Pending extraction and data approval Payload 3 may transit early to Domain 17 (Ashland, NC).
- Tour planned for domain personnel later this week.

Flight Screenshots

DELA



TALL



Daily Coverage

D08 DELA	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
	21				✓	✓	✓	NLC
	22				✓	✓	✓	NLC
	23				✓	✓	✓	NLC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC

Flown:	26							
--------	----	--	--	--	--	--	--	--

D08 TALL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
Flown:	8							

Cumulative Domain Coverage

DELA

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: 104% (27/26)
 Yellow: 0% (0/26)
 Red: 0% (0/26)

LENO

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															

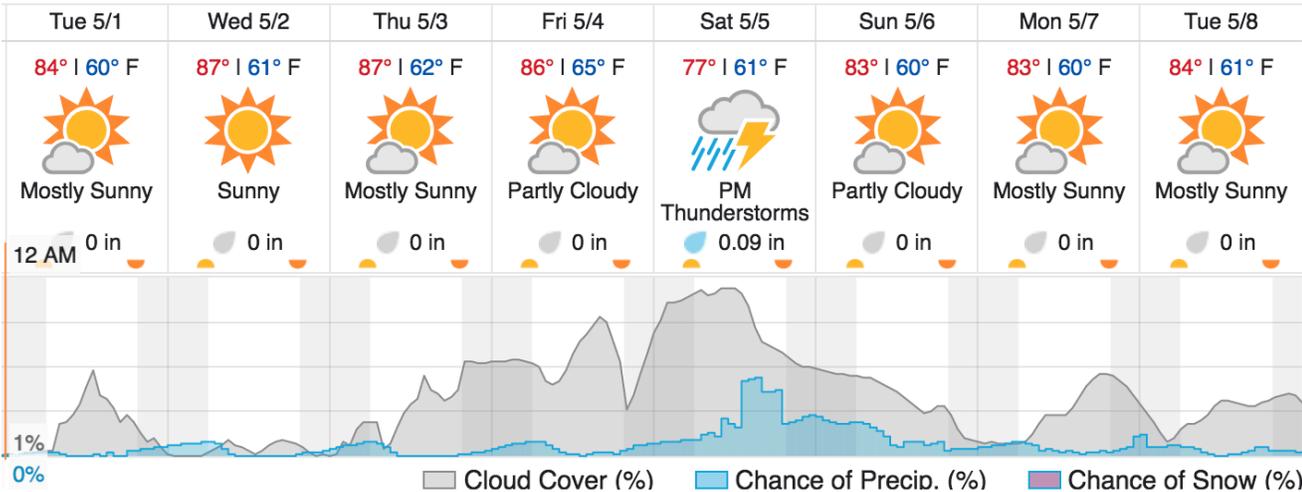
Flown: 100% (26/26)
 Green: 100% (26/26)
 Yellow: 8% (2/26)
 Red: 4% (1/26)

TALL

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: 104% (27/26)
 Yellow: 0% (0/26)
 Red: 42% (11/26)

Weather Forecast



Flight Collection Plan for 1-2 May 2018

No flights anticipated for tomorrow, pending extraction and data approval.

New Issues

Fault: Camera	Open Date: 4/30/2018
2018042913 Camera VNC crashed in-flight in the middle of a line. Photo thumbnails on VNC stopped refreshing and "Connection gracefully closed" prompt appeared. VNC was re-opened and functioned properly for remainder of flight.	
2018042918 Same issue occurred once in-flight	
2018043014 Same issue occurred once in-flight	

On-Going Issues

Fault: Database	Ticket: INC0013090	Open Date: 4/2/2018
Database crash during flight. Sometimes to both operators simultaneously, but also to both NIS and Lidar operator individually. This has been a re-occurring issue, but is only being added now.		
20180404 Database no longer crashes when minimizing and maximizing.		
20180410 Database experienced same network connection issues and crashed several times during both flights. Lidar Crystal Computer VNC was open on the DCC for training purposes.		
20180418 Database crashed in-flight, 2 times on NIS DCC computer and 3 times on Lidar Crystal computer.		
20180419 Database crashed on Lidar Crystal computer once on the ground during system startup and once in-flight on the NIS DCC computer. Andrew is investigating whether this is due to a networking issue.		
20180423 Database crashed on Lidar Crystal computer 4 times in-flight		
2018042413 Database crashed once on Lidar Crystal computer in-flight		
2018042716 Database crashed 2 times in-flight, simultaneously on the Lidar Crystal and NIS DCC computers		
2018042813 Database crashed once in-flight, simultaneously on the Lidar Crystal and NIS DCC computers		
2018042913 Database crashed on Lidar Crystal computer 3 times in-flight		
2018042918 Database crashed on Lidar Crystal 2 times and once on NIS DCC in-flight, at different times.		
2018043014 Database crashed on Lidar Crystal once and NIS DCC 4 times in-flight, at different times. Also crashed 3 times on both computers simultaneously.		
Fault: Camera	Open Date: 4/10/2018	
20180410 Camera thumbnails on SnapSHOT appear corrupted.		
20180423 All camera photos from both flights appeared corrupted.		
2018042413 For majority of flight, first 2-4 images taken on each line appeared corrupted before improving or "correcting" itself.		
2018042419 All camera photos appeared corrupted.		
2018042813 Most photos appeared normal but some had the same banding issue as seen before.		
2018042913 All camera photos appeared corrupted.		
2018042918 Most photos appeared normal but some had the same banding issue as seen before.		
2018043014 All camera photos appeared corrupted.		