



April 29, 2018 Payload 3 Daily Flight Report



Date: 2018-04-29

Flight Campaign ID: 2018_P3C1

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

Domain: 08

Sites Flown: LENO (Lenoir Landing), TALL (Talladega National Forest)

Days left in Domain: 14

Report Author: Abe Morrison

Flight Crew: Abe Morrison, Robb Walker, Ivana Vu

Ground/GPS: Ivana Vu

Pilots: Ross Rice, Paul Muth

Additional Personnel:

GPS Instruments: 06 – LENO, 08 - TALL, 09 - FBO_KTCL

Flight Hours: 03:03; 03:20

Hours until maintenance: 44.35

Summary

The crew was greeted with crisp blue skies this morning and throughout the entire day today!!! We were able to collect 36 lines total at 2 different sites LENO and TALL. These collections finished the LENO site with all lines under green conditions. The 17 lines we collected under green conditions at the TALL site today leave just 7 lines there to finish. The next few days in Alabama are also forecast to be quite clear.

Concerns

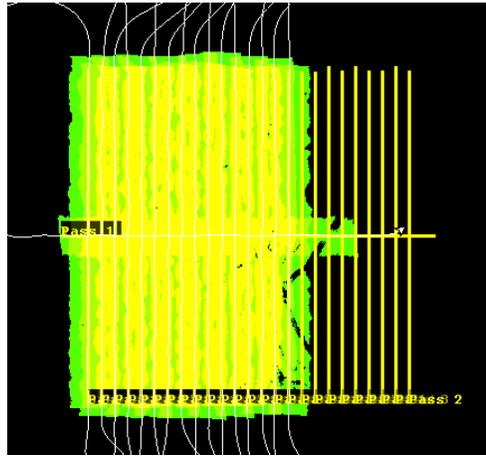
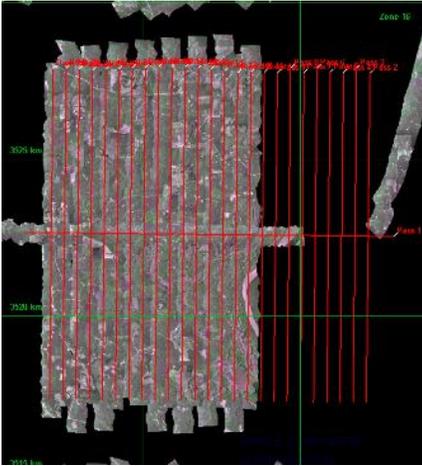
-Our pilots identified a problem with one of the fuel pumps during today's flight. This issue has not grounded the otter but TOIL is dispatching a mechanic and parts to fix the issue in the next couple of days. The aircraft will continue to fly pending these repairs.

Comments

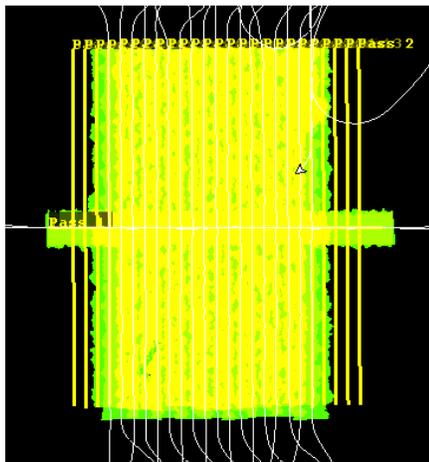
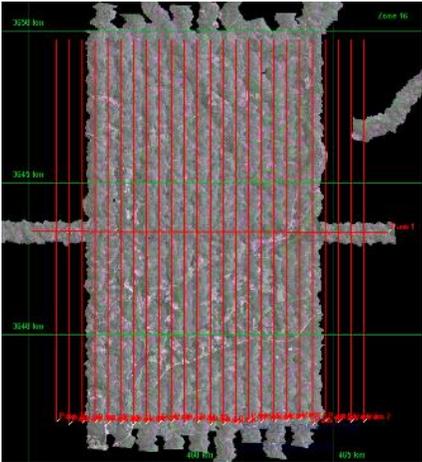
-Abe Morrison completed his certification on the Riegl Lidar system today.

Flight Screenshots

LENO



TALL



Daily Coverage

D08 LENO	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	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:	17							

D08 TALL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	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
Flown:	19							

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: 0% (0/26)
 Green: 0% (0/26)
 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)

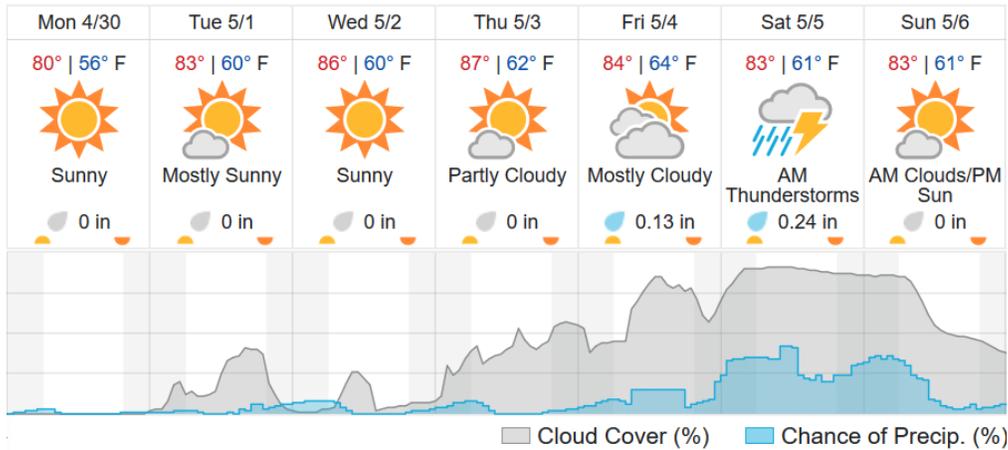
TALL

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: 73% (19/26)
 Green: 73% (19/26)
 Yellow: 0% (0/26)
 Red: 42% (11/26)

Weather Forecast

Tuscaloosa AL



Flight Collection Plan for 30 April 2018

Flyority 1:

Collection Area: Talladega National Forest (TALL)

Flight Plan Name: D08_TALL_C1_P1_v2_Q780

Lines: If green, re-fly lines 14-23

On-station Time: 1430 UTC / 0930 L

Flyority 2:

Collection Area: Dead Lake (DELA)

Flight Plan Name: D08_DELA_R1_P1_v2_Q780

On-station Time: 1430 UTC / 0930 L

Crew: Robb Walker (Lidar), Ivana Vu (NIS), Abe Morrison (Ground/GPS)

Flight Collection Plan for 30 April 2018

Flyority: Same as previous day

Crew: Ivana Vu (Lidar), Robb Walker (NIS), Abe Morrison (Ground/GPS)

New Issues

Fault: Camera	Open Date: 4/29/2018
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	

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.

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.