



April 27, 2018 Payload 3 Daily Flight Report



Date: 2018-04-27

Flight Campaign ID: 2018_P3C1

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

Domain: 08

Sites Flown: Camera Test Flight at TALL (Talladega National Forest)

Days left in Domain: 16

Report Author: Ivana Vu

Flight Crew: Ivana Vu, Robb Walker

Flight Hours: 01:47

Ground/GPS: Abe Morrison

Hours until maintenance: 53.68

Pilots: Ross Rice, Paul Muth

Additional Personnel: None

GPS Instruments: 08 - TALL, 09 - FBO_KTCL

Summary

The day started with low overcast clouds which eventually dissipated enough for another camera test flight. All D08 sites had more than 10% cloud cover so crew went to the nearest one, TALL, to complete 10 lines with the camera disconnected.

Concerns

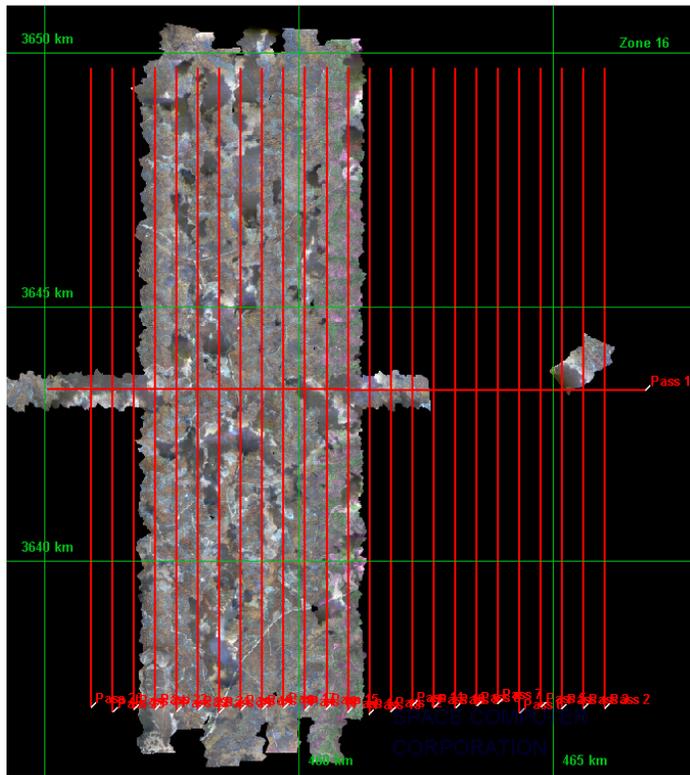
Discussions of removing the camera for repairs continue. The lidar appeared to function properly with the camera disconnected today, however, further investigation is required to ensure that data can be still be extracted and processed. Until this is verified, crew will continue to conduct science collects using the full system with the camera.

Comments

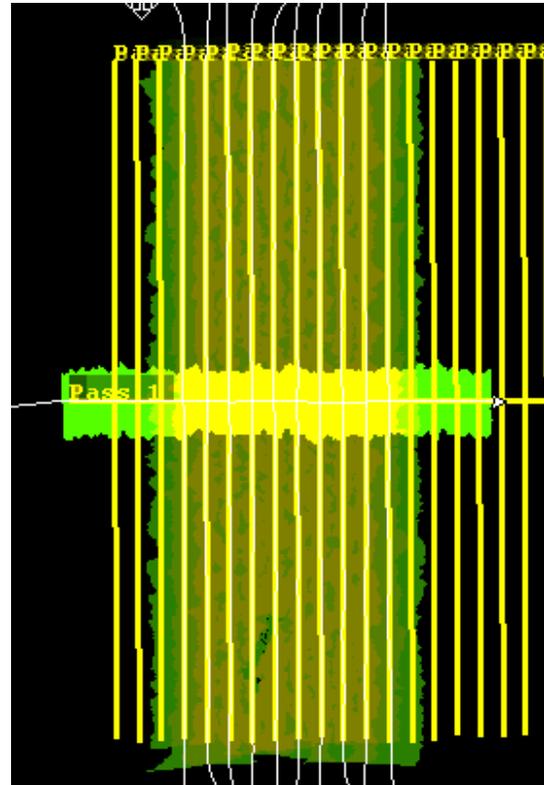
- Initial coverage completed over priority airshed lines at TALL
- Mike Wussow retrieved GPS03 (CLBJ) in D11
- Mitch Haynes departed D11
- NIS chamber pressure increased to $3e-4$ Torr and was vacuum-pumped tonight. The getter will be re-activated tomorrow after flights.

Flight Screenshots

NIS



Lidar



Daily Coverage

D08 TALL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	×	NL
	14				✓	✓	×	NL
	15				✓	✓	×	NL
	16				✓	✓	×	NL
	17				✓	✓	×	NL
	18				✓	✓	×	NL
	19				✓	✓	×	NL
	20				✓	✓	×	NL
	21				✓	✓	×	NL
	22				✓	✓	×	NL
	23				✓	✓	×	NL
Flown:	11							

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

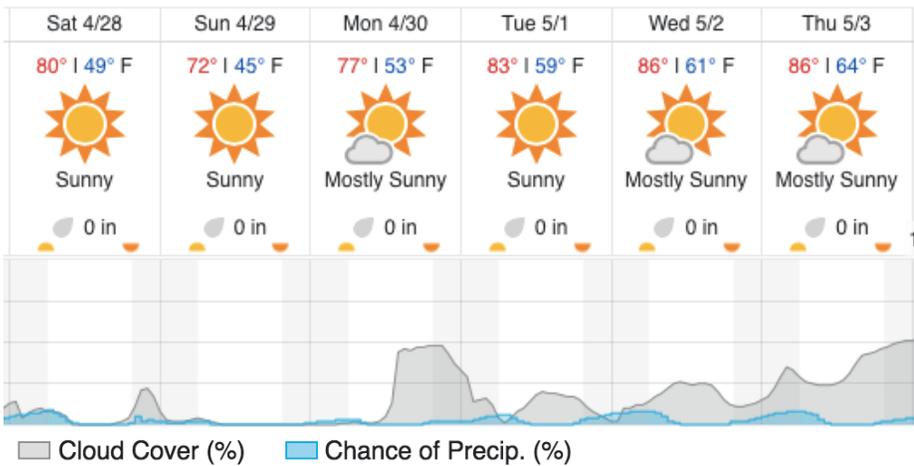
TALL

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

Weather Forecast

Tuscaloosa, AL



Flight Collection Plan for 28 April 2018

Flyority 1:

Collection Area: Lenoir Landing (LENO)
 Flight Plan Name: D08_LENO_R2_P1_v2_Q780
 On-station Time: 1430 UTC / 0930 L

Flyority 2:

Collection Area: Talladega National Forest (TALL)
 Flight Plan Name: D08_TALL_C1_P1_v2_Q780
 On-station Time: 1430 UTC / 0930 L

Flyority 3:

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 29 April 2018

Flyority: Same as previous day

Crew: Abe Morrison (Lidar), Ivana Vu (Certifier), Robb Walker (NIS)

On-Going Issues

Fault: Database	Ticket: INC0013090	Open Date: 4/2/2018
<p>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.</p> <p>20180404 Database no longer crashes when minimizing and maximizing.</p> <p>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.</p> <p>20180418 Database crashed in-flight, 2 times on NIS DCC computer and 3 times on Lidar Crystal computer.</p> <p>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.</p> <p>20180423 Database crashed on Lidar Crystal computer 4 times in-flight</p> <p>2018042413 Database crashed once on Lidar Crystal computer in-flight</p> <p>2018042716 Database crashed 2 times in-flight, simultaneously on the Lidar Crystal and NIS DCC computers</p>		
Fault: HotelKit	Open Date: 4/24/2018	
<p>No Extraction completion or QAQC completion emails are being sent out from Hotel Kit when it is known to have internet</p> <p>20180426 Same issue at different hotel and while connected to Mifi</p>		