



April 29, 2019 Payload 2 Daily Flight Report



**Date:** 2019-04-29

**Flight Campaign ID:** 2019\_P2C1

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

**Domain:** 08

**Sites Flown:** DELA (Dead Lake )

**Days left in Domain:** 12

**Report Author:** Cameron Chapman

**Flight Crew:** Cameron Chapman, Robb Walker

**Ground/GPS:** Abe Morrison

**Pilots:** David Little, Wesley Wyatt

**Additional Personnel:**

**GPS Instruments:** 01 - FBO\_KFAT, U-MUSB, 00 - AOP\_DELA, 00 - AOP\_TALL, 02 - DELA, 05 - FBO\_KTCL, 12 - TALL

**Flight Hours:** 03:44

**Hours until maintenance:** 51.75

**Summary**

A layer of high cirrus clouds mixed with a few low cumulus clouds pushed the data collection into “yellow” conditions. We were able to collect the entire flight box under this sky condition.

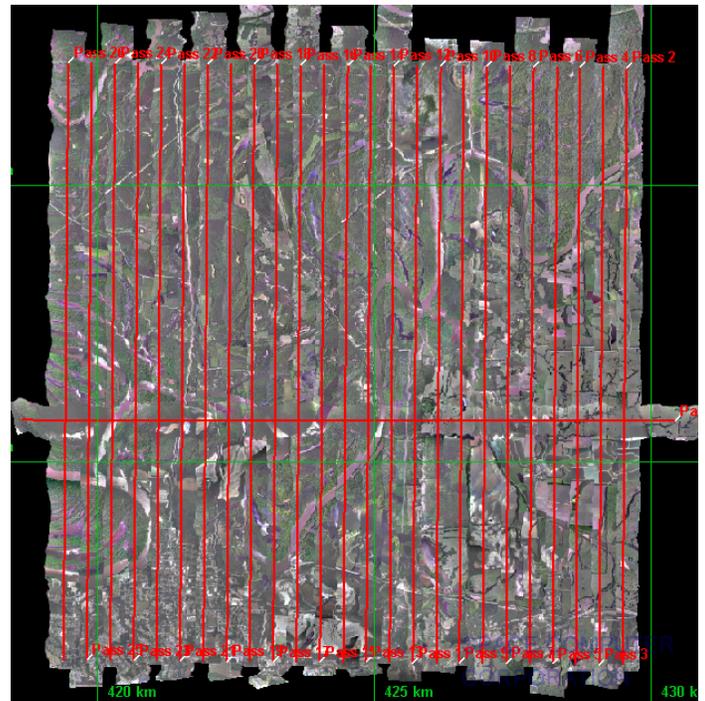
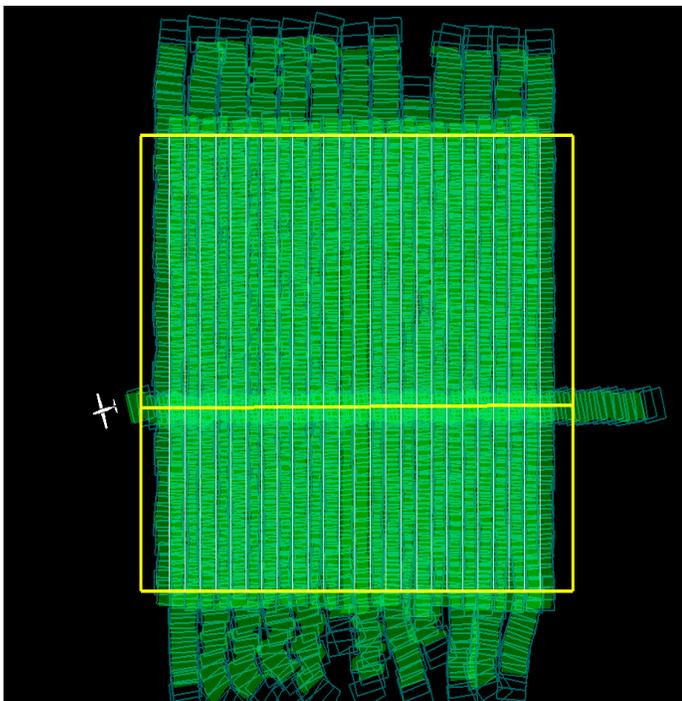
**Concerns**

- Hotel internet is causing Hotel Kit access issues, AOP’s WIFI jetpack also has spotty connectivity in this area.

**Comments**

- None

**Flight Screenshots**



**Pictures**

Downtown Tuscaloosa Alabama captured after surveying the DELA Flight box



**Estimated Cloud Cover**

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

**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							

**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: 0% (0/26)  
 Yellow: 100% (26/26)  
 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)

**N08A**

1
---

Flown: 0% (0/1)  
 Green: 0% (0/1)  
 Yellow: 0% (0/1)  
 Red: 0% (0/1)

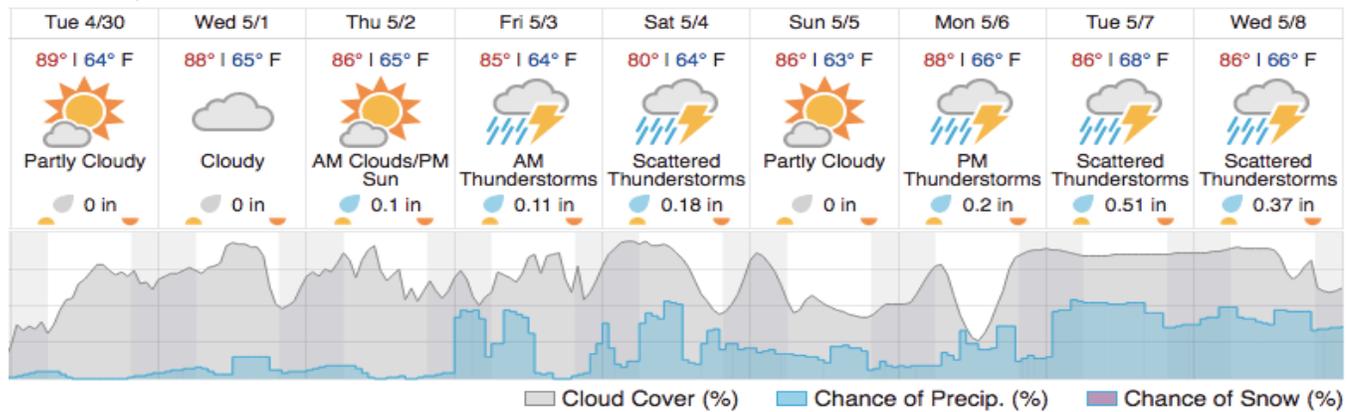
**TALL**

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															

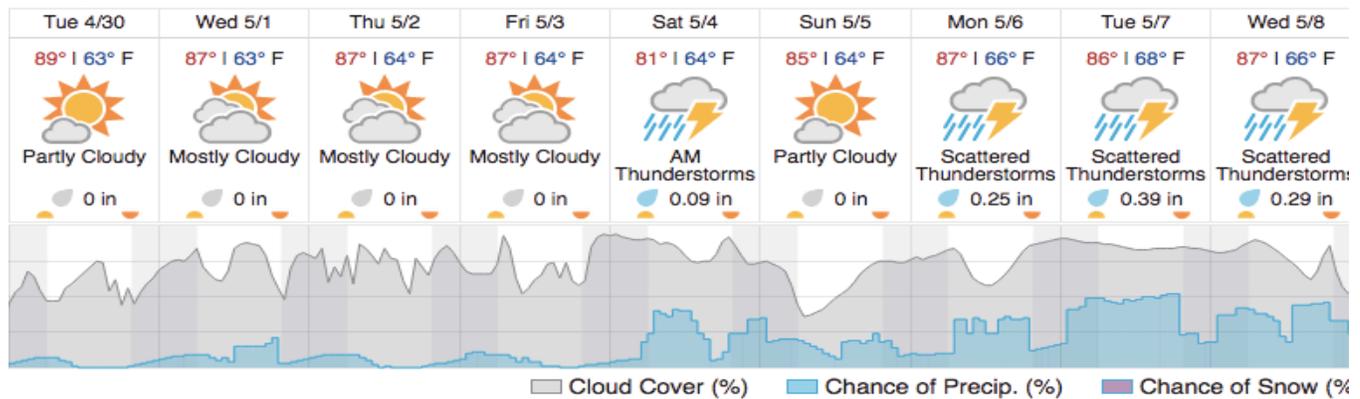
Flown: 100% (26/26)  
 Green: 0% (0/26)  
 Yellow: 0% (0/26)  
 Red: 100% (26/26)

**Weather Forecast**

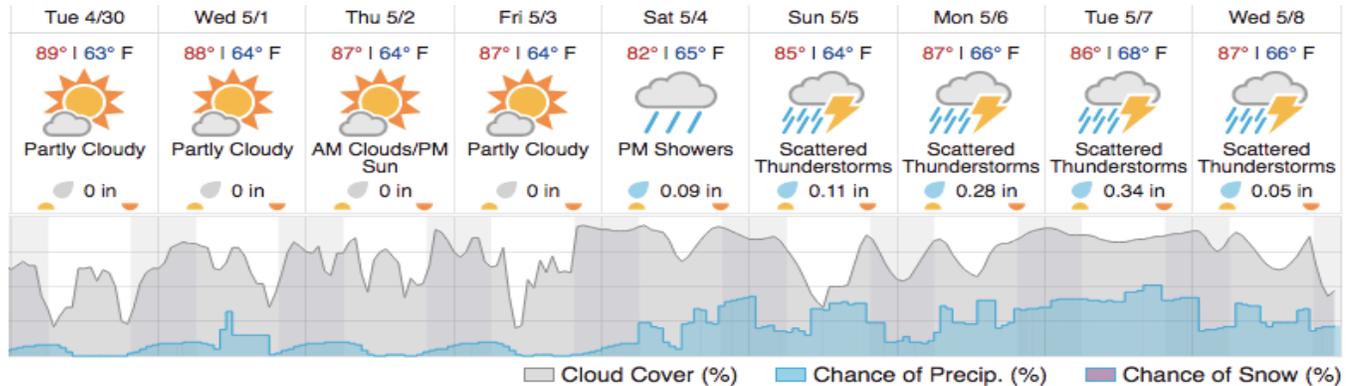
Tuscaloosa, AL



Demopolis, AL



Coffeeville, AL



**Flight Collection Plan for 30 April 2019**

**Flyority 1:**

Collection Area: Dead Lake (DELA) \*\*If “Green” Sky Conditions\*\*

Flight Plan Name: D08\_DELA\_R1\_P1\_v1.pln

On Station Time: 0930 L / 1430 UTC

**Flyority 2:**

Collection Area: Talladega National Forest (TALL) \*\*If “Green” Sky Conditions\*\*

Flight Plan Name: D08\_TALL\_C1\_P1\_v1.pln

On Station Time: 0930 L / 1430 UTC

**Flyority 3:**

Collection Area: Lenoir Landing (LENO)

Flight Plan Name: D08\_LENO\_R2\_P1\_v1.pln

On Station Time: 0930L / 1430 UTC

**Flyority 4:**

Collection Area: Dead Lake (DELA) – Priority 2 Flight Box

Flight Plan Name: D08\_DELA\_R1\_P1\_P2\_v2.pln

On Station Time: 0930 L / 1430 UTC

**Flyority 5:**

Collection Area: Nominal Runway – D08

Flight Plan Name: D08\_N08A\_Nominal\_Runway\_Test\_v1.pln

Purpose: To test LiDAR range accuracies and noise levels at 100 kHz PRF.

On Station Time: N/A

**(LiDAR)** Abe Morrison **(NIS)** Cameron Chapman **(Ground/GPS)** Robb Walker

**Flight Collection Plan for 01 May 2019**

**Flyority 1 – 4** Same as previously briefed

**Crew:** **(LiDAR)** Robb Walker **(NIS)** Abe Morrison **(Ground/GPS)** Cameron Chapman