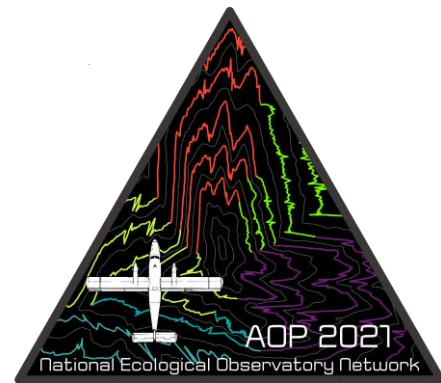




## Payload 3 Daily Flight Report



**Date:** 2021-05-07

**Flight Campaign ID:** P3C1

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

**Aircraft:** N615AR

**Domain:** 08 (Ozarks Complex)

**Sites Flown:** DELA (Dead Lake ), LENO (Lenoir Landing )

**Days left in Domain:** 2

**Report Author:** Abe Morrison

**Lidar Operators:** Abe Morrison

**Spectrometer Operators:** Cameron Chapman

**Pilots:** Stephen Brawders, Vince Maarschalkerweerd

**Flight Hours:** 03:46:00, 03:00:00

**Hours until maintenance:** 53.30

**GPS Instruments:** 03 - LENO, 07 - DELA, 09 - FBO\_KTCL

### **Summary**

The crew woke up to the forecast clear skies this morning and took to the air with big intentions. 5 hours of collections needed to be done and 7 hours of solar angle to do it in. The DELA P1 flight box was flown first and completed just prior to a fuel stop in Meridian Mississippi. The crew made a quick turn around after some delicious snacks at one of our favorite FBOs, unfortunately when the crew returned to the air on their way to finish the LENO flight box it was discovered that the pilot display had stopped functioning during the fuel stop. Some time was spent troubleshooting the pilot display issue and when it was finally resolved another fault in the RiAcquire system popped up. More time was spent resolving the RiAcquire issue before the system was finally ready. In all, about an hour was spent resolving issues before we started to collect at LENO. 3 priority lines were collected at LENO before the end of solar angle started to encroach on us. We decided to shift focus to the P2 box at DELA. All lines in the DELA P2 box were collected in "green" sky conditions with the final line being collected just after the solar angle ended. This was a very successful day with almost 7 hours of flight time.

### **Concerns**

None

### **Comments**

-Raid 2021\_P3C1\_04 Will be shipped tomorrow.

-After a morning flight tomorrow the mobile GPS units will be picked up and shipped back to boulder.

-The crew continues to monitor the weather for the transit back to boulder. The transit is due to start on Sunday but may be delayed.

**Pictures:**



ASO Abe Morrison enjoys an ice cream cone during a fuel stop in Meridian MS. Pic by Cam C.

**Daily Coverage**

Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	11-50%	>50%

D08|LENO

Line #	10	11	12
Lidar	✓	✓	✓
Spectrometer	✓	✓	✓
Camera	✓	✓	✓
Cloud Cover			

Total number of lines flown: 3

D08|DELA

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																					

Line #	22	23	24	25	26	28	29	30	31	32	33	34	35
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover													

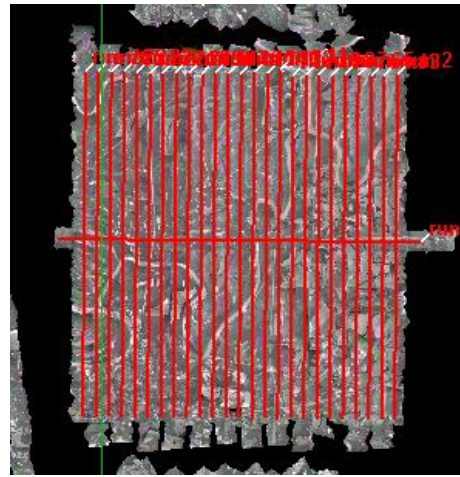
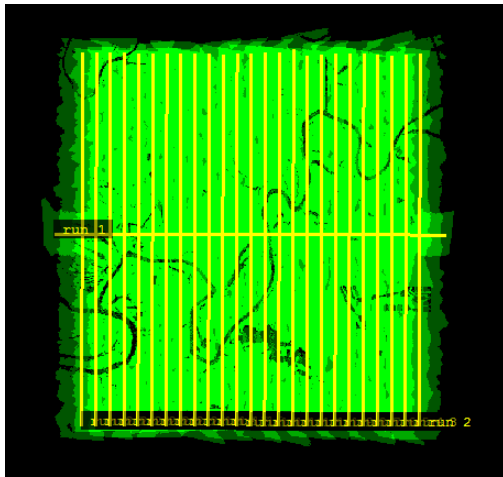
Total number of lines flown: 33

# Flight Screenshots

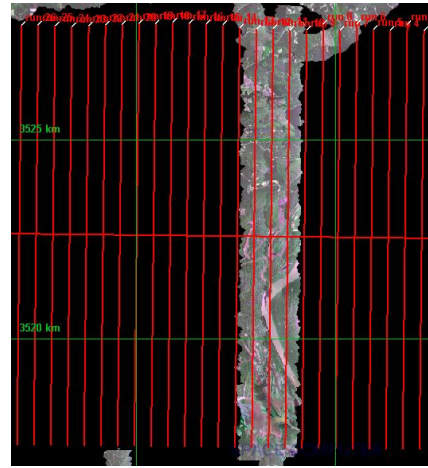
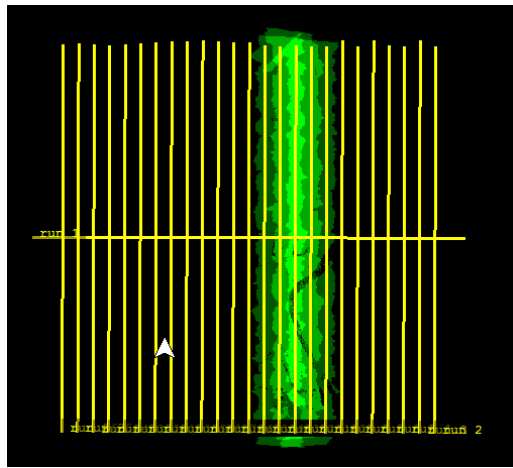
LIDAR

NIS

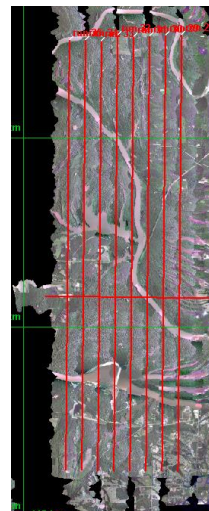
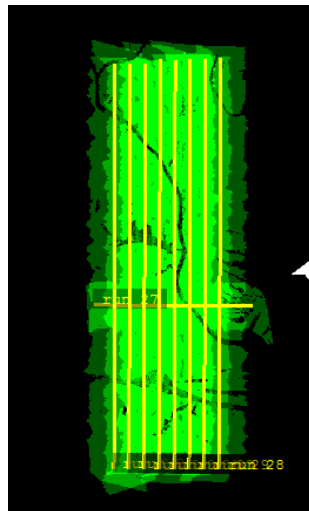
DELA P1



LENO



DELA P2



## Cumulative Domain Coverage

### D08 | DELA (Dead Lake )

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						

Flown: 100% (35/35)

Green: 100% (35/35)

Yellow: 0% (0/35)

Red: 0% (0/35)

### D08 | LENO (Lenoir Landing )

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: 65% (17/26)

Yellow: 8% (2/26)

Red: 0% (0/26)

### D08 | TALL (Talladega National Forest )

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)

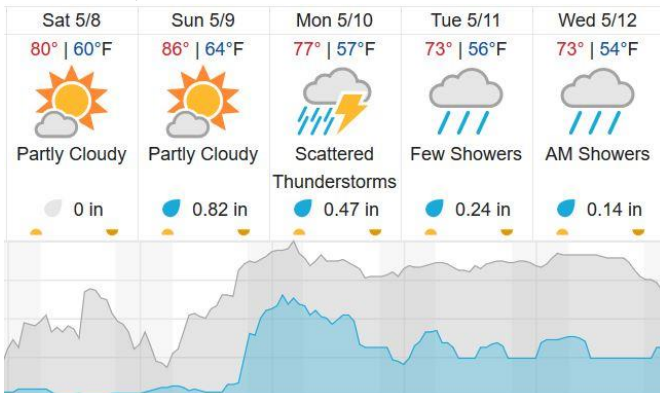
Green: 100% (26/26)

Yellow: 0% (0/26)

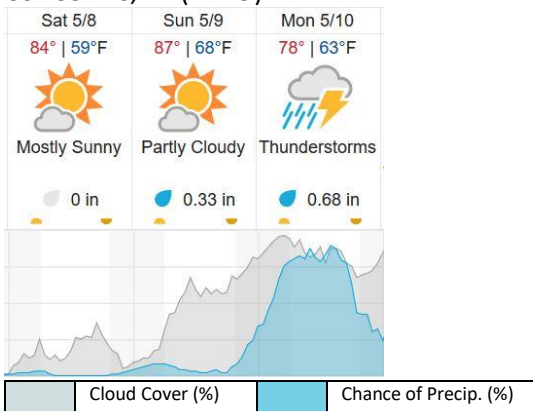
Red: 0% (0/26)

## Weather Forecast

### Tuscaloosa, AL



### Coffeeville, AL (LENO)



source: wunderground.com

**Flight Collection Plan for 08 May 2021**

Flyority 1

Collection Area: Lenoir Landing (LENO)

Flight Plan Name: D08\_LENO\_R2\_P1\_v2\_Q780

On-station Time: 1430 UTC / 0930 L

Flight Crew: Cameron Chapman, Abrahams Morrison