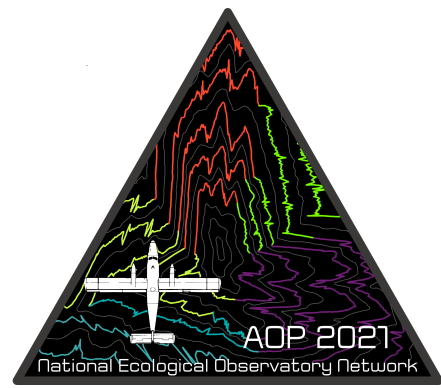




Payload 3 Daily Flight Report



Date: 2021-04-26

Flight Campaign ID: P3C1

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

Aircraft: N615AR

Domain: 08 (Ozarks Complex)

Sites Flown: TALL (Talladega National Forest)

Days left in Domain: 13

Report Author: Cameron Chapman

Lidar Operators: Cameron Chapman

Spectrometer Operators: Abe Morrison

Pilots: Stephen Brawders, Vince Maarschalkerweerd

Flight Hours: 03:33

Hours until maintenance: 65.08

GPS Instruments: 01 - TALL, 09 - FBO_KTCL

Summary

High cirrus clouds dominated the sky today but with the D08 crew at **TALL** sampling canopy leaves and very few cloud free days forecasted, the crew took to the sky and collected the entire TALL flight box in one flight under “red” conditions.

Concerns

- None

Comments

- The twin otter will have minor maintenance this week.
- Crew will drive to LENO to check the unresponsive GPS unit on next no fly day.
- GPS Validation point collection will also be conducted on next no fly day.

Daily Coverage

Estimated Cloud Cover Key

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

D08|TALL

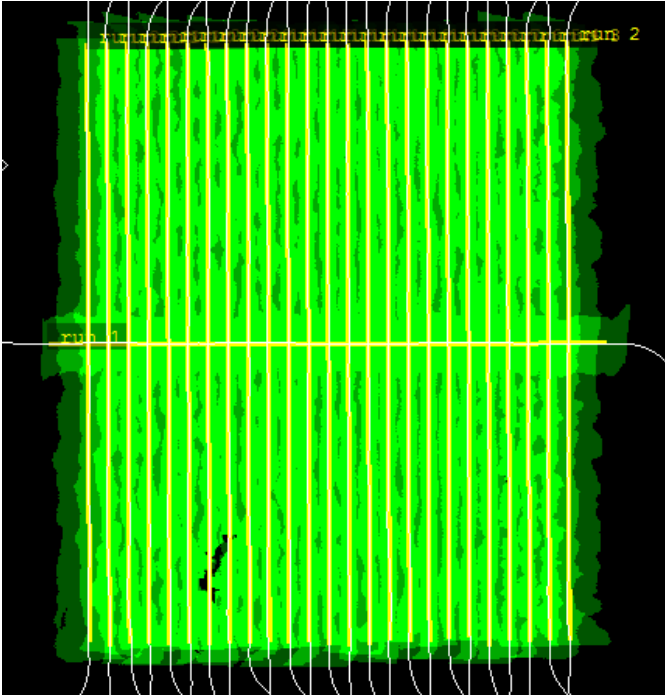
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

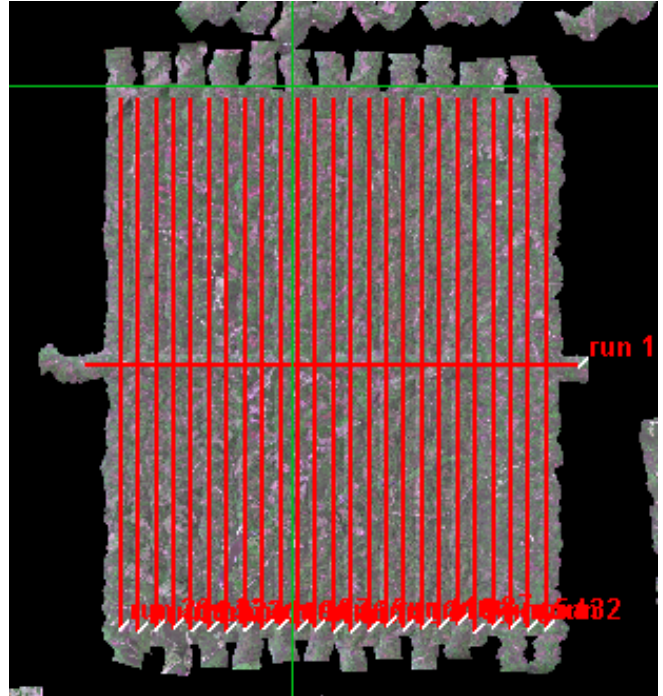
Total number of lines flown: 25

Flight Screenshots

Lidar Swath Coverage



NIS Geopaint Coverage



Pictures: A tornado scar can be seen for several miles across the TALL box.



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															

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

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: 62% (16/26)
 Green: 54% (14/26)
 Yellow: 8% (2/26)
 Red: 0% (0/26)

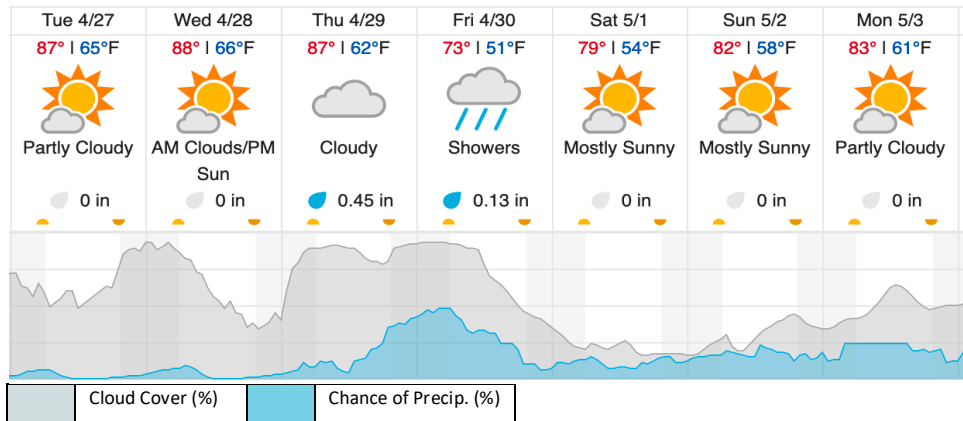
D08 | TALL (Talladega National Forest)

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															

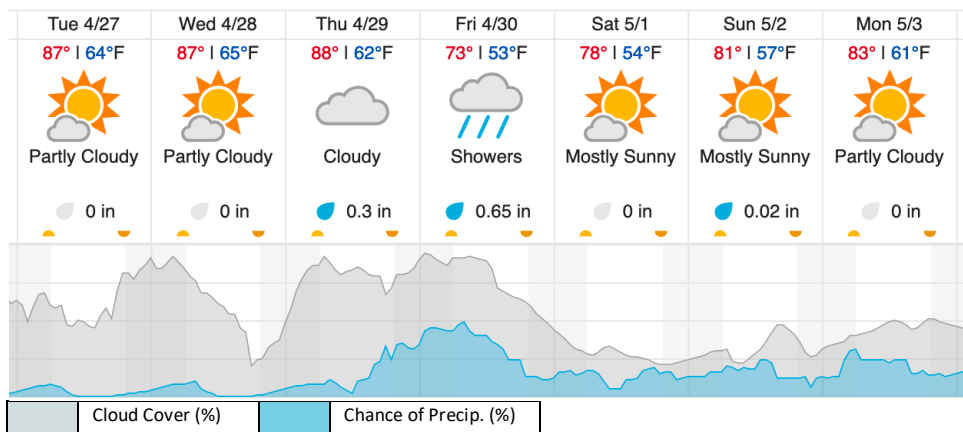
Flown: 100% (26/26)
 Green: 0% (0/26)
 Yellow: 0% (0/26)
 Red: 100% (26/26)

Weather Forecast

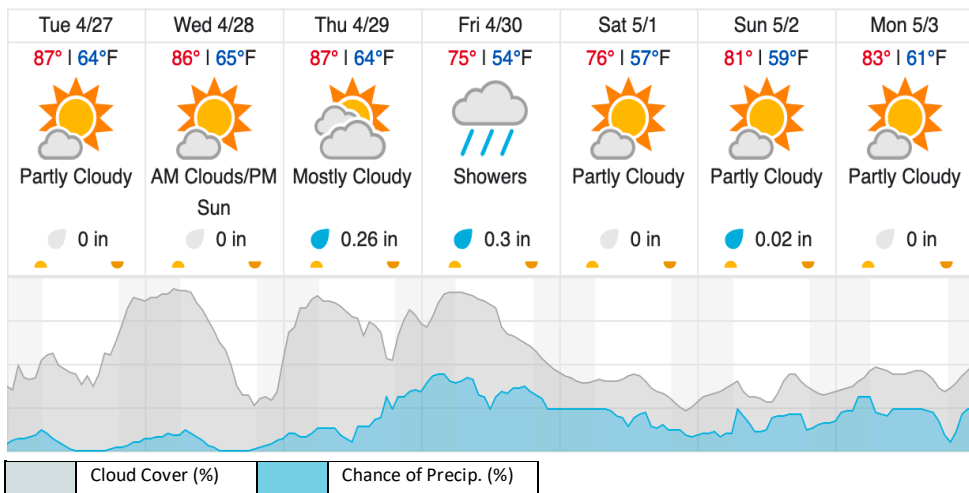
Tuscaloosa, AL (TALL)



Demopolis, AL (DELA)



Coffeeville, AL (LENO)



source: wunderground.com

Flight Collection Plan for 27 April 2021

Flyority 1

Collection Area: Talladega National Forest (TALL)

Flight Plan Name: D08_TALL_C1_P1_v2_Q780

On-station Time: 1430 UTC / 0930 L

Flyority 2

Collection Area: Dead Lake (DELA) – Priority 1 Flight Box

Flight Plan Name: D08_DELA_R1_P1_v2_Q780

On-station Time: 1430 UTC / 0930 L

Flyority 3

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

Flight Plan Name: D08_DELA_R1_P2_v2_Q780

On-station Time: 1430 UTC / 0930 L

Flyority 4

Collection Area: Lenoir Landing (LENO)

Flight Plan Name: D08_LENO_R2_P1_v2_Q780

On-station Time: 1430 UTC / 0930 L

Flight Crew: **Cam**, Abe