



Payload 2 Daily Flight Report

**Date:** 2026-05-13  
**Flight Campaign ID:** P2C1  
**Airport, FBO ID, City:** Bessemer Municipal Airport - Mitchell Field (KEYK) - Bessemer, AL  
**Aircraft:** N821AR

**Domain:** 08 (Ozarks Complex)  
**Sites Flown:** DELA (Dead Lake)  
**Days left in Domain:** 5

**Report Author:** Mitch  
**Lidar Operators:** Mitch      **Flight Hours:** 03:33  
**Spectrometer Operators:** John      **Hours until maintenance:** 50.80  
**Pilots:** Justin, Jonathon      **GPS Instruments:** 02 - KEYK, 07 - DELA

**Summary**

Initially non-green conditions present this morning, the crew mobilized towards our lower priority Dead Lake (DELA) flight box. After flying a couple yellow lines, the sky cleared up enough to transition into green conditions, where a majority of the priority 1 flight box was collected under. Conditions then began to deteriorate with the formation of cumulus clouds at and below our flight altitude, which eventually forced collections to cease and a return to Bessemer.

**Concerns**

A camera configuration error was present during the first 3 lines of collect. Photos appeared to continue to be taken until the error was eventually resolved and cleared, however it's unclear if there was an impact to the camera data while the error was present. It is believed that this camera error is unrelated to yesterday's camera incident, and rather user error, likely from an improperly applied camera configuration.

**Comments**

None

**Daily Coverage**

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	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Line #	22	23	24	25	26	28	29
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

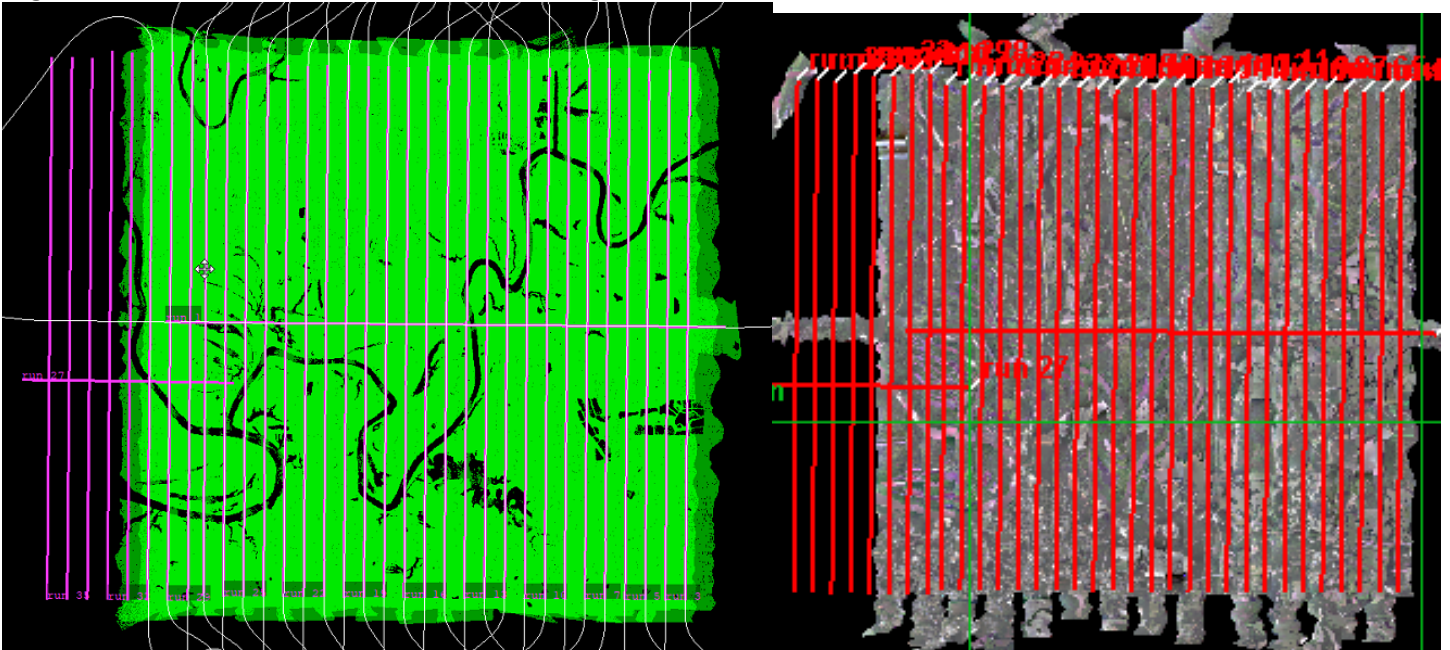
**Estimated Cloud Cover Key**

<b>Green:</b>	<b>Yellow:</b>	<b>Red:</b>
0-10%	11-50%	>50%

Solar Angle Less Than 40 degrees: (\*)

Total number of lines flown: 27

Flight Screenshots: Lidar on the left, NIS on the right



Pictures: Looking east at the Black Warrior River and the former site of the NEON Dead Lake Tower.



**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: 80% (28/35)

Green: 46% (16/35)

Yellow: 31% (11/35)

Red: 3% (1/35)

\* Flown within 35deg solar angle

### 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: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 0% (0/26)

\* Flown within 35deg solar angle

### 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: 46% (12/26)

Green: 42% (11/26)

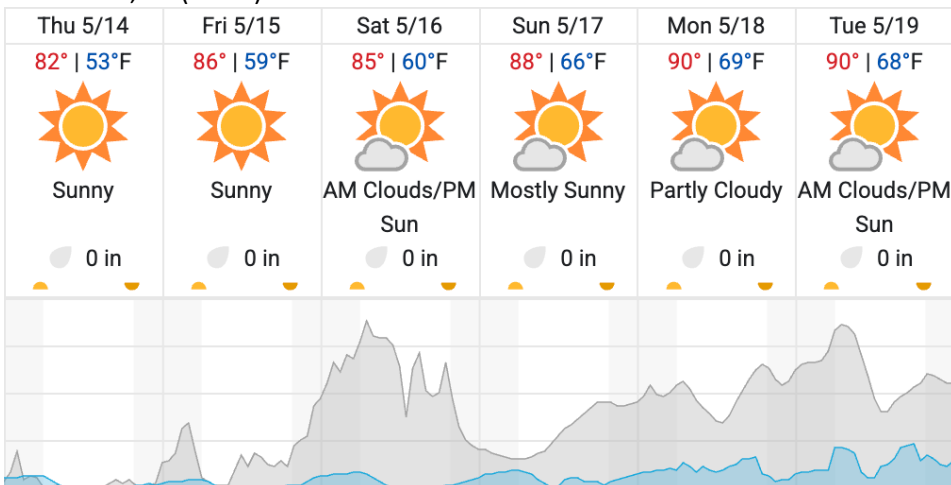
Yellow: 4% (1/26)

Red: 0% (0/26)

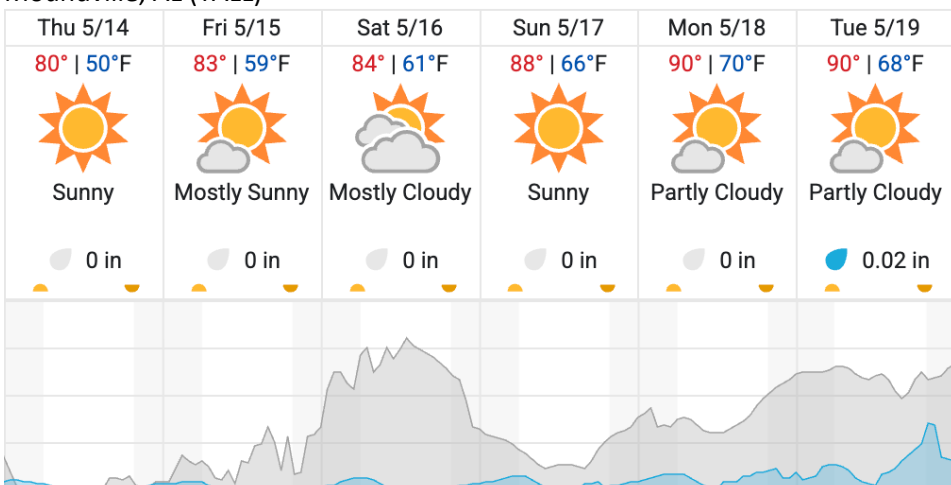
\* Flown within 35deg solar angle

### Weather Forecast

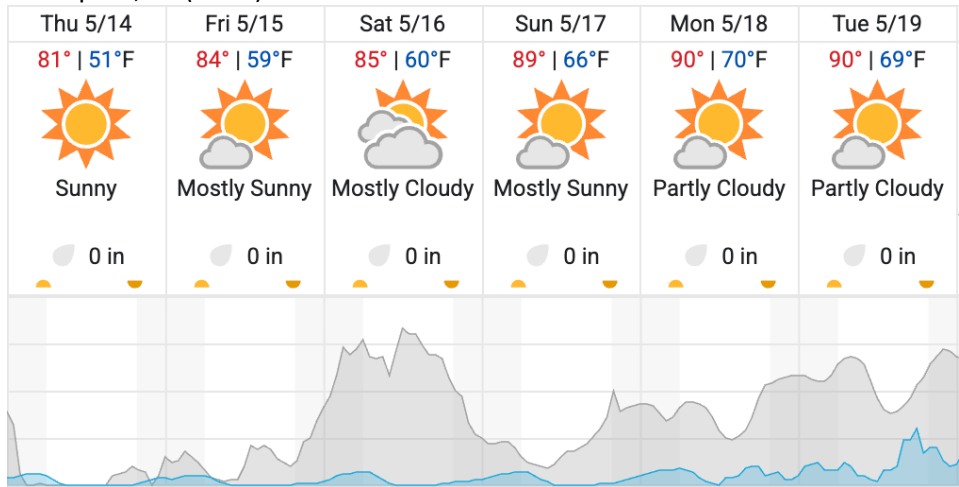
#### Coffeeville, AL (LENO)



#### Moundville, AL (TALL)



Demopolis, AL (DELA)



source: wunderground.com

**Flight Collection Plan for May 14, 2026**

**Flyority 1**

Site: Lenoir Landing (LENO)  
 Flight Plan Name: D08\_LENO\_R2\_P1\_v4\_VQ780  
 Solar Angle Time: 14:30UTC / 09:30L

**Flyority 2**

Site: Talladega National Forest (TALL) Lines 2-4, 16 - 26  
 Flight plan name: D08\_TALL\_C1\_P1\_v4\_VQ780  
 Solar Angle Time: 14:20UTC / 09:20L

**Flyority 3**

Site: Dead Lake (DELA) – Priority 1 Flight Box  
 Flight Plan Name: D08\_DELA\_R1\_P1\_P2\_v4\_VQ780  
 Solar Angle Time: 14:20UTC / 09:20L  
**Request by Jilin Men to fly DELA on May 11, 16, 21, or 26 to coincide with Sentinel-2 overpass.**

**Flyority 4**

Site: Dead Lake (DELA) – Priority 2 Flight Box  
 Flight Plan Name: D08\_DELA\_R1\_P1\_P2\_v4\_VQ780  
 Solar Angle Time: 14:20UTC / 09:20L

**Crew:** John (Lidar), Mitch (NIS)