



## Payload 3 Daily Flight Report



**Date:** 2024-05-22

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Bessemer Municipal Airport - Mitchell Field (KEY) - Bessemer, AL

**Aircraft:** N821AR

**Domain:** 08 (Ozarks Complex)

**Sites Flown:** None

**Days left in Domain:** 11

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Flight Hours:** 00:00

**Spectrometer Operators:** Mike **Hours until maintenance:** 67.88

**Pilots:** Will, Justin

### Summary

We thought we might get another green window this afternoon, but cumulus clouds replaced the morning's cirrus and didn't disperse as hoped. No flights were conducted.

### Concerns

- The CRIO went out again yesterday shortly after we left the airport. It was reset today and telemetry data have been restored. However, we are still not receiving email alerts, either from payload telemetry or from the hotel kit. We will closely monitor telemetry manually until the issue is resolved.
- The battery in GPS04 at DELA died again today, indicating that either two batteries have gone bad or, more likely, there is an issue with the charge controller. The battery in GPS07 at TALL has also been showing a lower charge than expected.

### Comments

- The day was spent at the airport, as the Otter had to be moved multiple times to accommodate another plane in the very crowded hangar.
- No emails were sent, but extraction and QA of yesterday's flight did run to completion.
- Since the forecast is not favorable for data collection tomorrow, we are planning a no-fly day in order to address the issues with our GPS ground stations. GPS02, which has been working reliably, was taken down from KEY this afternoon. It will be swapped with GPS04 at DELA so as to (hopefully) avoid a third maintenance visit to the distant site. We have received new batteries from Boulder and will install them in the units at DELA and TALL.

## Cumulative Domain Coverage

### Estimated Cloud Cover Key

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

### Solar Angle Less Than 40 degrees

Line #
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### D08 | DELA (Dead Lake, P1 and P2 Flight Boxes)

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: 40% (14/35)

Green: 14% (5/35)

Yellow: 26% (9/35)

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: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

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: 50% (13/26)

Green: 0% (0/26)

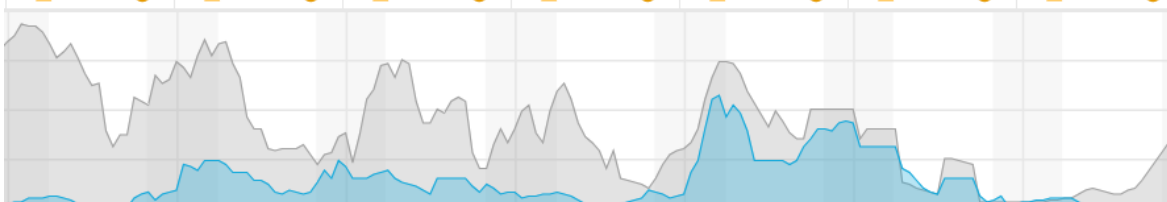
Yellow: 38% (10/26)

Red: 12% (3/26)

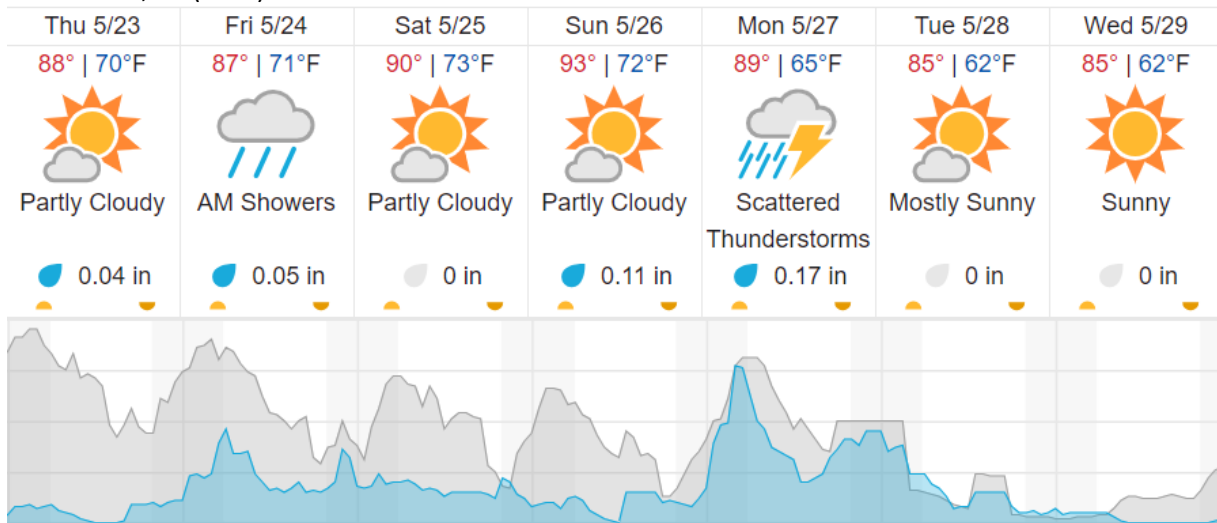
## Weather Forecast

### Demopolis, AL (DELA)

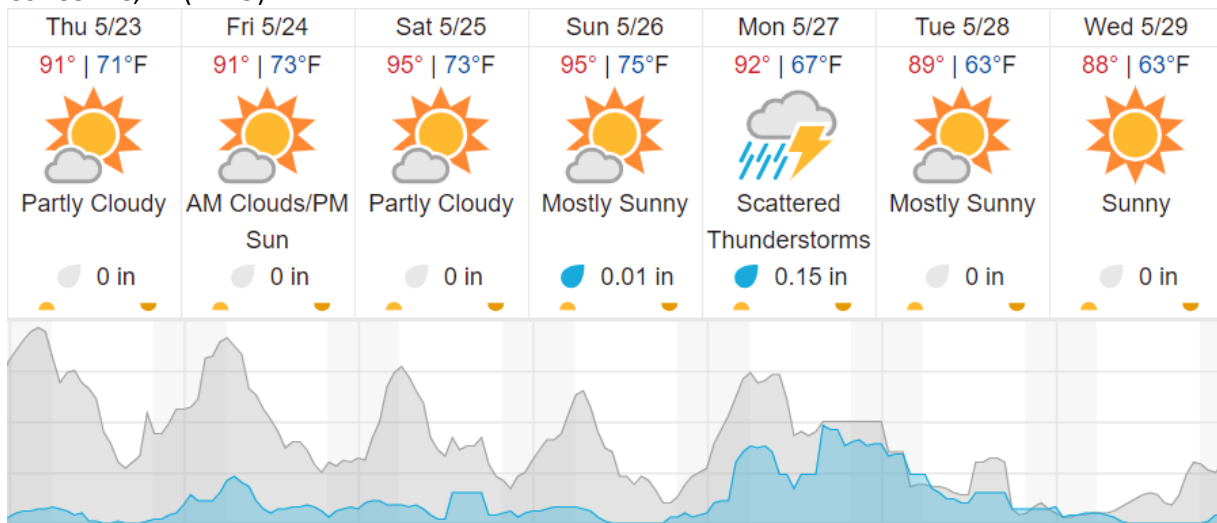
Thu 5/23	Fri 5/24	Sat 5/25	Sun 5/26	Mon 5/27	Tue 5/28	Wed 5/29
90°   71°F	89°   73°F	93°   73°F	95°   74°F	91°   66°F	87°   63°F	86°   63°F
Partly Cloudy	Partly Cloudy	Partly Cloudy	Mostly Sunny	Scattered Thunderstorms	Mostly Sunny	Sunny
0 in	0 in	0 in	0.05 in	0.15 in	0 in	0 in



Moundville, AL (TALL)



Coffeeville, AL (LENO)



source: wunderground.com

**Flight Collection Plan for 23 May 2024**

Assuming no “green” conditions, drive to DELA and TALL to swap GPS units and batteries.

**Crew:** Mike (Lidar), Elissa (NIS)

## **Flight Collection Plan for 24 May 2024**

### **Flyority 1**

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

Flight Plan Name: D08\_DELA\_R1\_P1\_v2\_Q780

On-Station Time: 1410 UTC/ 0910 L

### **Flyority 2**

Collection Area: Talladega National Forest (TALL)

Flight Plan Name: D08\_TALL\_C1\_P1\_v2\_Q780

On-Station Time: 1410 UTC/ 0910 L

### **Flyority 3**

Collection Area: Lenoir Landing (LENO)

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

On-Station Time: 1410 UTC/ 0910 L

### **Flyority 4**

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

Flight Plan Name: D08\_DELA\_R1\_P2\_v2\_Q780

On-Station Time: 1410 UTC/ 0910 L

### **Flyority 5**

Collection Area: Jones Ecological Research Center (JERC) P1

Flight Plan Name: D03\_JERC\_R2\_P1\_P2\_v4\_PRM.xml

On-Station Time: 1410 UTC/ 0910 L

**Crew:** Elissa (Lidar), Mike (NIS)