



Payload 2 Daily Flight Report

**Date:** 2026-05-03

**Flight Campaign ID:** P2C1

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

**Aircraft:** N821AR

**Domain:** 08 (Ozarks Complex)

**Sites Flown:** TALL (Talladega National Forest), Transit

**Days left in Domain:** 15

**Report Author:** Cameron

**Lidar Operators:** Cameron      **Flight Hours:** 02:35, 01:45

**Spectrometer Operators:** John      **Hours until maintenance:** 54.35

**Pilots:** Justin, Jonathon      **GPS Instruments:** 02 - KEYK, AOP\_TALL

**Summary**

Following the anticipated departure of last night's storms, the crew successfully completed the transit to D08. While cumulus clouds began developing south near Lenoir Landing, Talladega National Forest remained clear for most of the morning. This window allowed us to complete 11 lines under green conditions before the weather deteriorated.

**Concerns**

- The GPU cabling has become loose and is at risk of disconnecting from the unit.

**Comments**

- Mobile GPS at airport has been deployed.
- D03 GPS data uploaded to GCS.

**Daily Coverage**

Estimated Cloud Cover Key

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

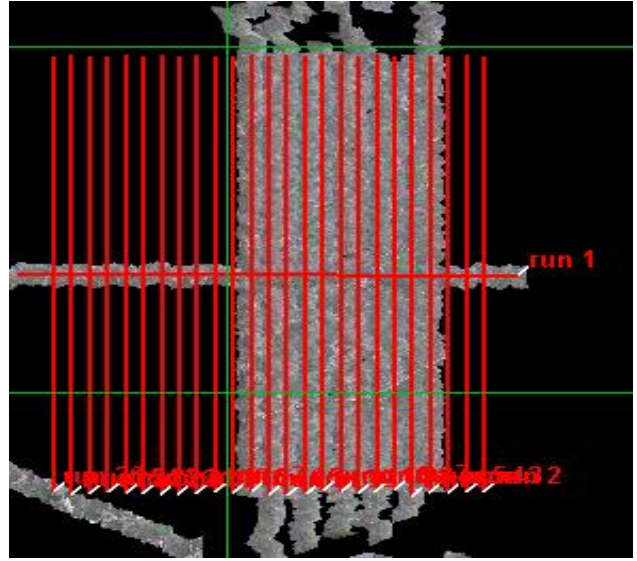
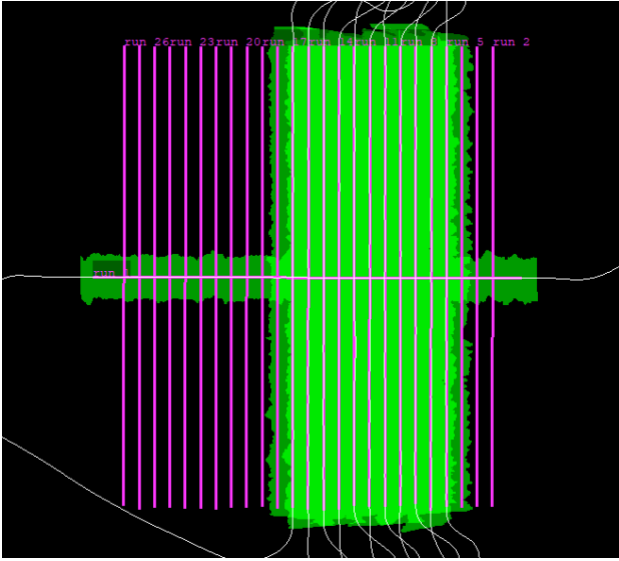
Solar Angle Less Than 40 degrees: (\*)

D08|TALL

Line #	5	6	7	8	9	10	11	12	13	14	15
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover											

Total number of lines flown: 11

## Flight Screenshots



Pictures: Clear sky over TALL



## 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: 0% (0/35)

Green: 0% (0/35)

Yellow: 0% (0/35)

Red: 0% (0/35)

\* 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)

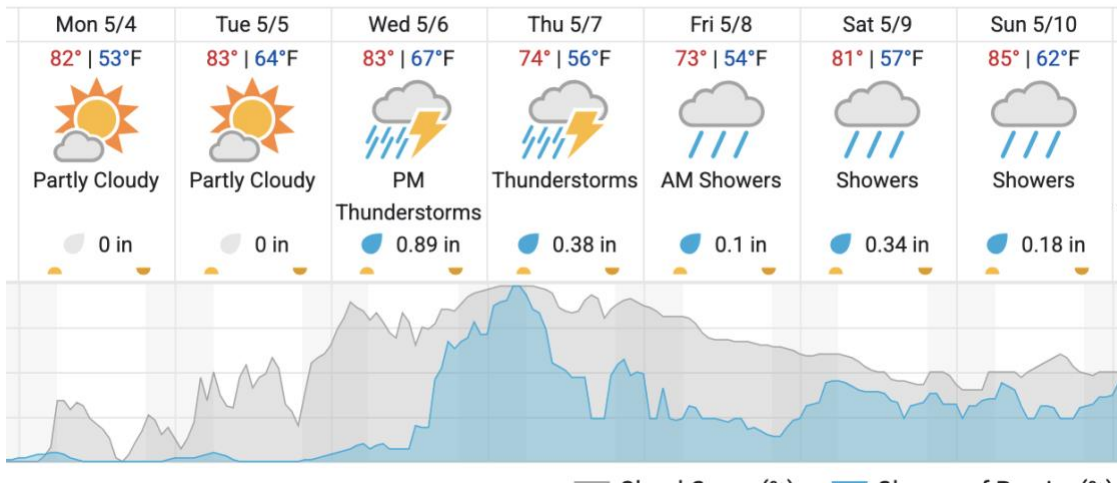
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26															

Flown: 46% (12/26)  
 Green: 42% (11/26)  
 Yellow: 4% (1/26)  
 Red: 0% (0/26)

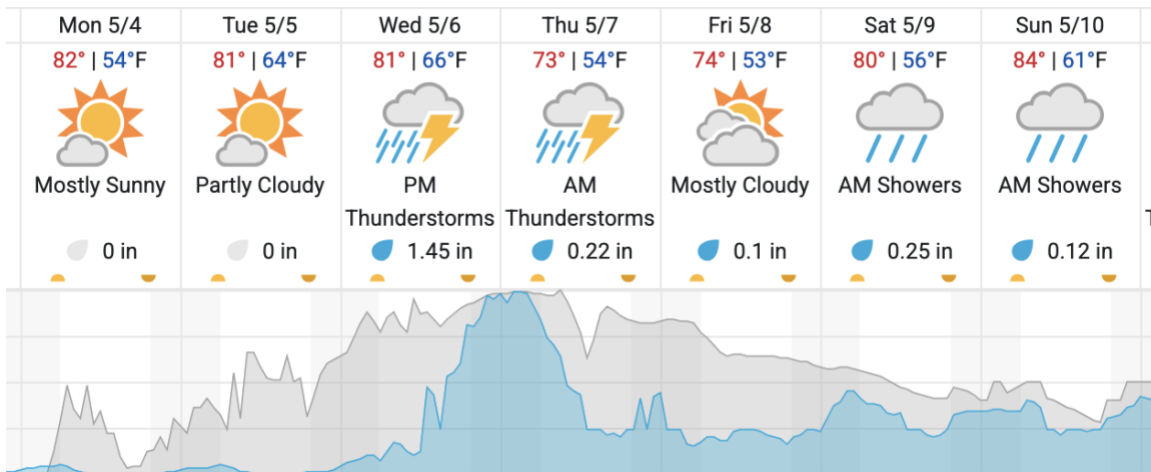
\* Flown within 35deg solar angle

**Weather Forecast**

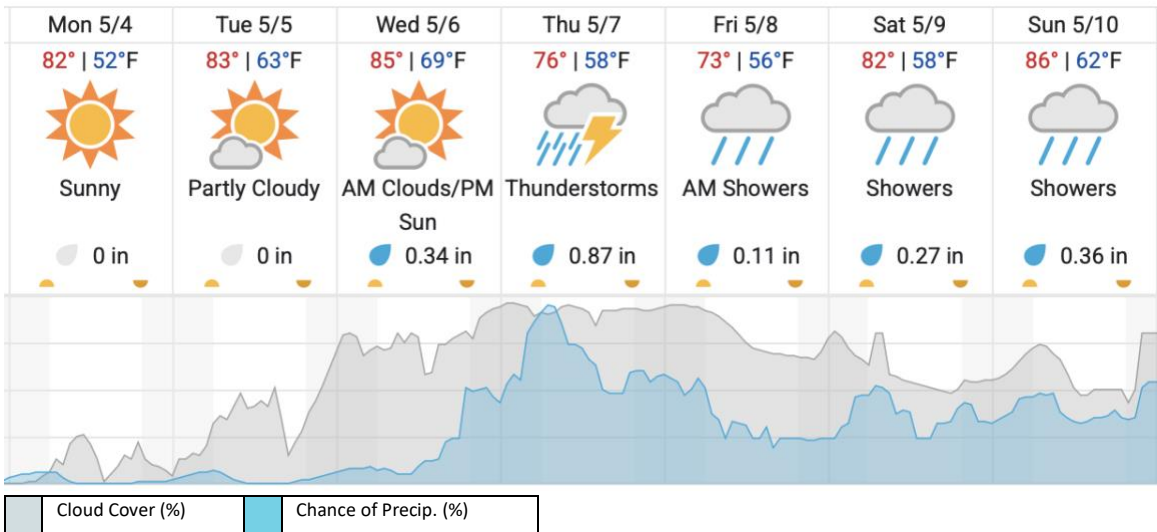
Demopolis, AL (DELA)



Moundville, AL (TALL)



Coffeeville, AL (LENO)



source: wunderground.com

**Flight Collection Plan for May 4, 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 6, 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), Cam (NIS)