



Payload 1 Daily Flight Report



Date: 2023-05-15

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 08 (Ozarks Complex)

Sites Flown: LENO (Lenoir Landing)

Days left in Domain: 14

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Cameron

Pilots: Jeff, Eric

Flight Hours: 03:05

Hours until maintenance: 50.47

GPS Instruments: 04 - LENO, 07 - FBO_KEYY

Summary

Another clear morning had the crew heading down to Lenoir Landing to collect more green lines before quickly building cumulus clouds at our altitude forced us to abort collect and RTB.

Concerns

None

Comments

- Once again observed the same overheating error preventing the Sherpa from charging during today's flight. This may be connected to some missing telemetry alerts over the weekend. Following the flight it was replaced with the spare Sherpa.
- Yesterday's flight is currently being re-extracted. May delay to the start of extraction for today's flight.

Daily Coverage

Estimated Cloud Cover Key

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

D08|LENO

Line #	1	7	8	11	12	13	14	15	16	17	18	19	20
Lidar		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cloud Cover													

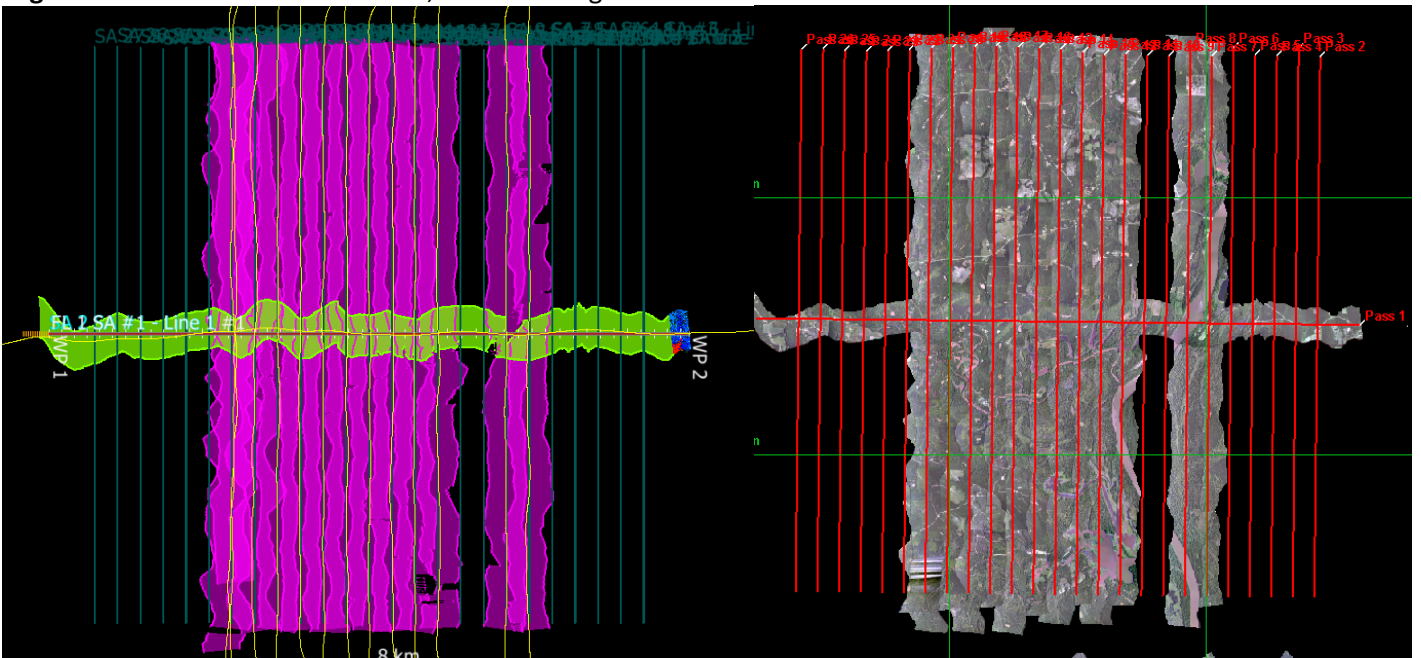
Total number of lines flown: 13

Pictures



Above: Moderate haze, but an otherwise clear morning over LENO.

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



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: 65% (17/26)
 Green: 65% (17/26)
 Yellow: 0% (0/26)
 Red: 0% (0/26)

D08 | N08A (D08 Nominal Runway)

1

Flown: 100% (1/1)
 Green: 0% (0/1)
 Yellow: 100% (1/1)
 Red: 0% (0/1)

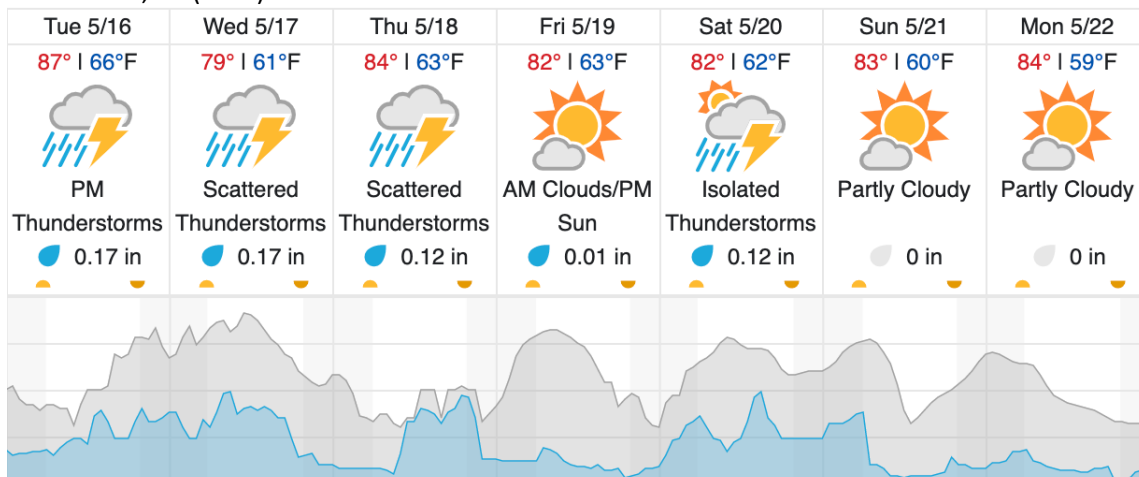
D08 | TALL (Talladega National Forest)

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															

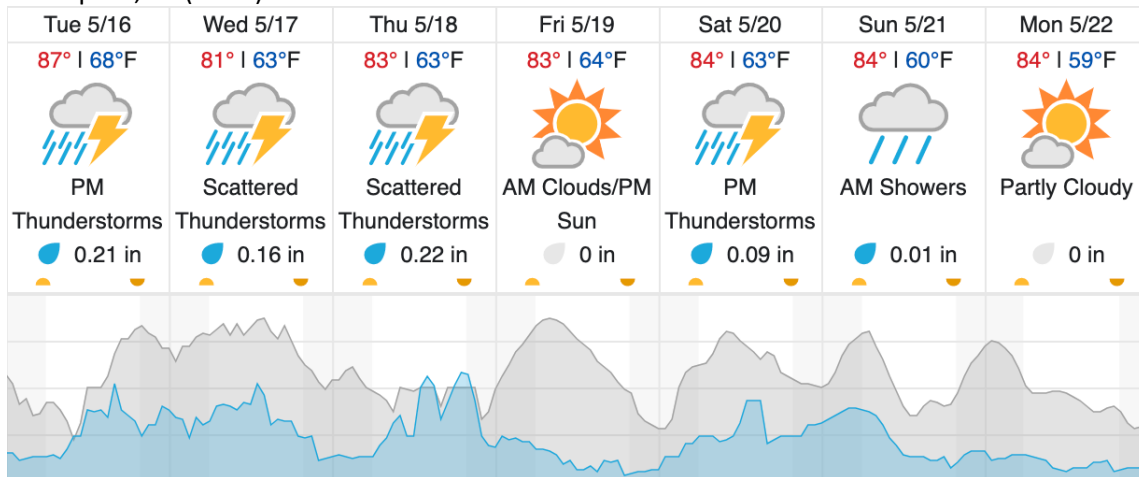
Flown: 0% (0/26)
 Green: 0% (0/26)
 Yellow: 0% (0/26)
 Red: 0% (0/26)

Weather Forecast

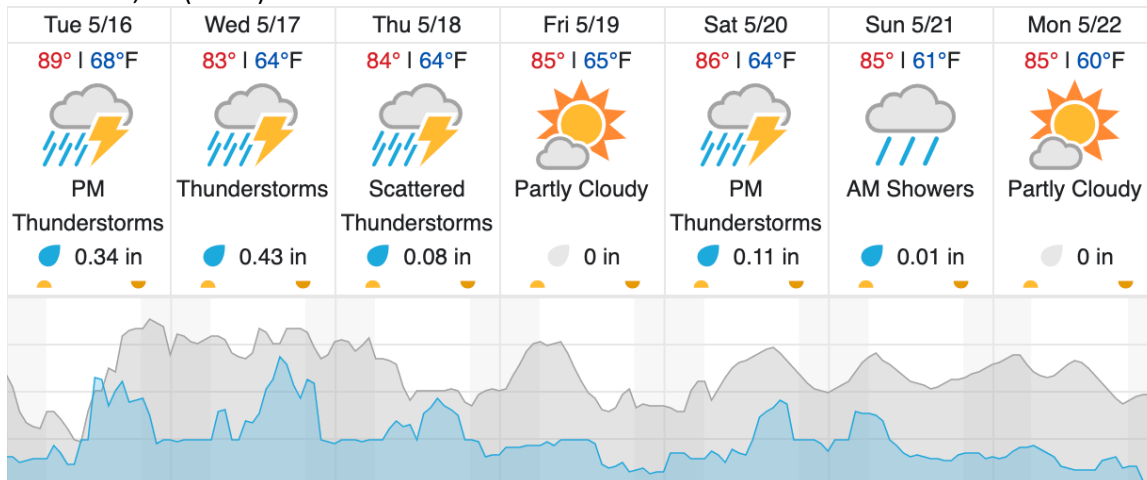
Moundville, AL (TALL)



Demopolis, AL (DELA)



Coffeerville, AL (LENO)



source: wunderground.com

Flight Collection Plan for May 16, 2023

Flyority 1 (Lines 2-4, 7-8, 11-26)

Collection Area: Lenoir Landing (LENO)

Flight Plan Name: D08_LENO_R2_P1_v2_PRM.xml

On-Station Time: 1420 UTC/ 0920 L

Flyority 2

Collection Area: Talladega National Forest (TALL)

Flight Plan Name: D08_TALL_C1_P1_v2_PRM.xml

On-Station Time: 1420 UTC/ 0920 L

Flyority 3

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

Flight Plan Name: D08_DELA_R1_P1_P2_v2_PRM.xml

On-Station Time: 1420 UTC/ 0920 L

Flyority 4

Collection Area: Dead Lake (DELA) – Priority 2 Flight Box
Flight Plan Name: D08_DELA_R1_P1_P2_v2_PRM.xml
On-Station Time: 1420 UTC/ 0920 L

Flyority 5

Collection Area: Nominal Runway – D08 – OA8
Flight Plan Name: D08_N08A_Nominal_Runway_Test_v1_PRM.xml
On-Station Time: N/A

Crew: Cam (Lidar), Mitch (NIS)