



Payload 3 Daily Flight Report



Date: 2024-05-29

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 03 (Southeast)

Sites Flown: JERC_P1 (Jones Ecological Research Center Priority 1)

Days left in Domain: 4

Report Author: Mike

Lidar Operators: Mike

Flight Hours: 02:36

Spectrometer Operators: Elissa

Hours until maintenance: 57.10

Pilots: Justin, Jacob

GPS Instruments: 01 - JERC, 04 - KEY

Summary

An attempt was made for the D03 JERC site today. Conditions and forecast were desirable for a green collect, however the previously dissipating cirrus changed course and developed over the site during the 1.2 hour transit to the site. The crew estimated the cloud coverage to be around 20% and increasing. Despite being better conditions than the previous JERC collect, we made the disappointing decision to abort the mission. D08 sites were also covered by cirrus, so no collections were made.

Concerns

Aircraft power continues to dip during prop feathering, causing the input voltage to drop below 24V. This caused the system to switch to UPS power for a brief moment during taxi. Crew is advised to continue to monitor and opt out of feathering if possible.

Comments

QA's for flights 2024052113 DELA/TALL and 2024052615 LENO are being re-run.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

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: 100% (35/35)

Green: 46% (16/35)

Yellow: 43% (15/35)

Red: 11% (4/35)

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: 100% (26/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 100% (26/26)

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)

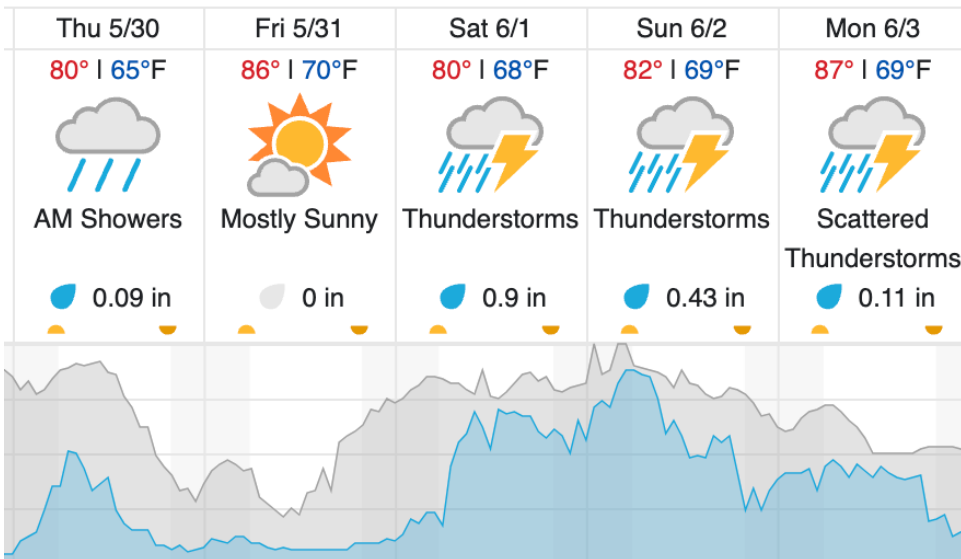
Green: 0% (0/26)

Yellow: 38% (10/26)

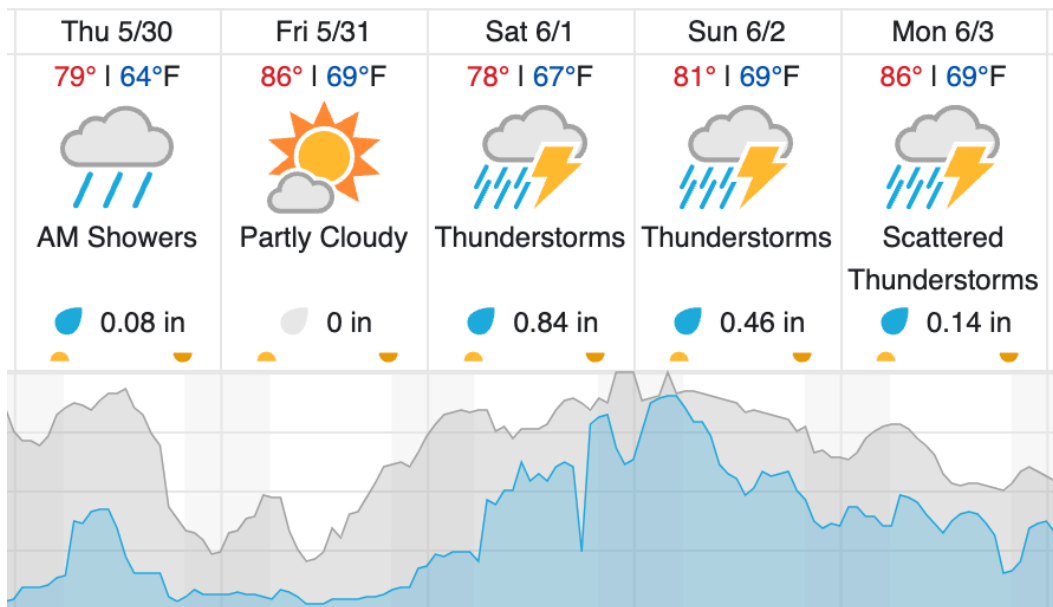
Red: 62% (16/26)

Weather Forecast

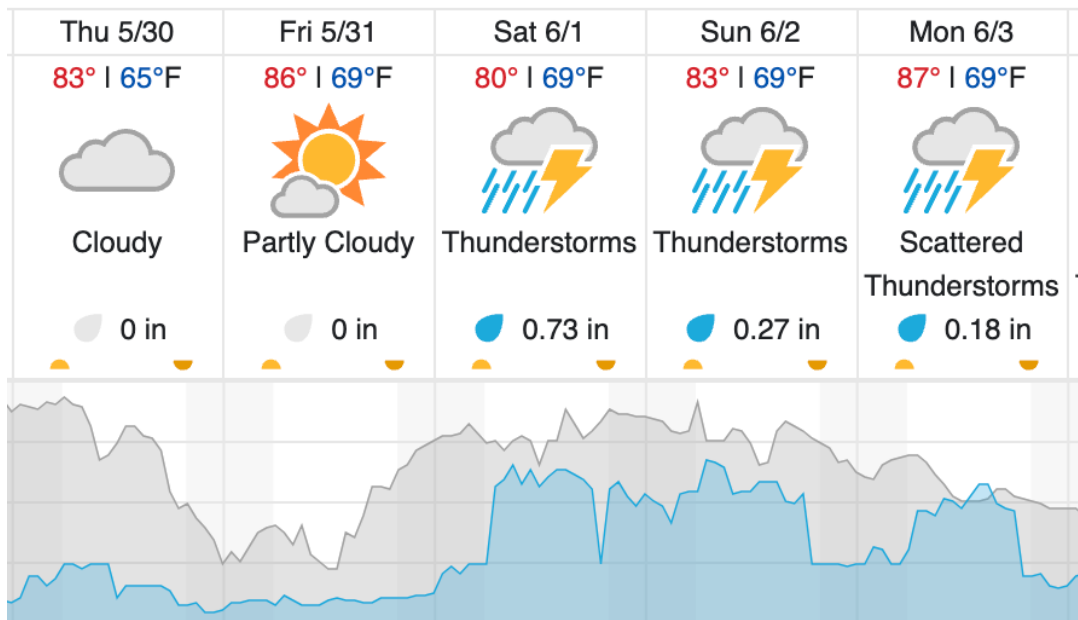
Demopolis, AL (DELA)



Moundville, AL (TALL)



Coffeeville, AL (LENO)



source: wunderground.com

Flight Collection Plan for 30 May 2024

Flyority 1

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

Flight Plan Name: D08_DELA_R1_P1_v2_Q780

On-Station Time: 1410 UTC/ 0910 L

Flyority 2

Collection Area: Talladega National Forest (TALL) – *if green*

Flight Plan Name: D08_TALL_C1_P1_v2_Q780

On-Station Time: 1410 UTC/ 0910 L

Flyority 3

Collection Area: Lenoir Landing (LENO) – *if green*

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 – *if green*

Flight Plan Name: D03_JERC_R2_P1_P2_v4_PRM.xml

On-Station Time: 1410 UTC/ 0910 L

Crew: Elissa (Lidar), Mike (NIS)