

Payload 1 Daily Flight Report



Date: 2023-05-04

Flight Campaign ID: P1C1

Airport, FBO ID, City: Ocala International Airport (KOCF) - Ocala, FL, Southwest Georgia Regional Airport (KABY) -

Albany, GA

Aircraft: N331AR

Domain: 03 (Southeast)

Sites Flown: JERC P1 (Jones Ecological Research Center Priority 1), JERC P2 (Jones Ecological Research Center Priority

2)

Days left in Domain: 7

Report Author: Mitch

Pilots: Justin, Jeff **GPS Instruments**: 03 - JERC, 07 - FBO_KOCF

Summary

Crew once again headed north to Southern Georgia in an attempt for a green collect over our Jones Ecological Research Center flight box, and were once again greeted by a heavy haze and smoke layer from the seemingly high number of prescribed burns in the region. The smoke combined with an intermittent stratocirrus cloud layer limited collections to yellow conditions. All 40 remaining lines at JERC were collected over the course of two flights.

Concerns

None

Comments

 Data extraction continues to lag behind after our fourth consecutive flight day, but the next few days should allow the opportunity to get caught up.

Daily Coverage

Estimated Cloud Cover Key

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

D03 | JERC_P2

Line #	21	28	29	30	31	32	33	34	35	36	37	38	39	40	41	47	48	49	50	51
Lidar	✓	\	\	✓	\	✓	✓	\	\	\	\	✓	/	\	\	✓	✓	\	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓	√	✓	✓	✓	✓	✓	✓	✓
Camera	✓	√	✓	✓	✓	✓	✓	√	✓	\	√	✓	√	√	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

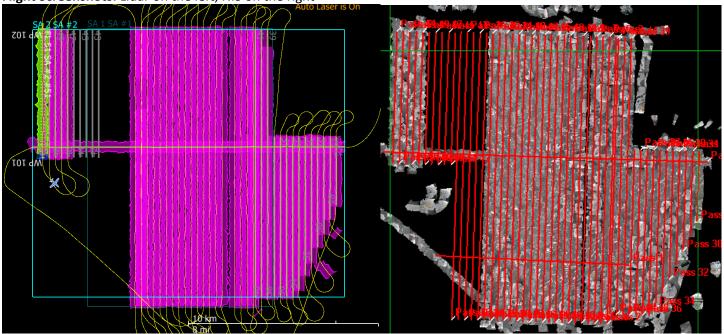
D03|JERC P1

Line #	2	3	4	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	√	✓	✓	√	✓	√	√	√	√	/	√	/	√	✓	√	/	√	√	/

Spectrometer	√	\	√	\	\	√	√	√	√	✓	√								
Camera	✓	√	√	✓	✓	✓	✓	✓	✓	√	✓	√	√	✓	✓	✓	✓	\	✓
Cloud Cover																			

Total number of lines flown: 19

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



Pictures: Looking west down towards the NEON Tower at JERC





Above: Crew counted at least seven different prescribed burns visible from the flight box during today's flight, not to mention numerous other visible during the transits to and from the flight box.

Cumulative Domain Coverage

D03 | DSNY (Disney Wilderness Preserve)

		. ,						,											
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	36				

Flown: 100% (36/36) Green: 86% (31/36) Yellow: 14% (5/36) Red: 0% (0/36)

D03 | JERC P1 (Jones Ecological Research Center Priority 1)

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: 96% (25/26) Green: 23% (6/26) Yellow: 73% (19/26) Red: 0% (0/26)

D03|JERC P2 (Jones Ecological Research Center Priority 2)

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27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
47	48	49	50	51															

Flown: 100% (25/25) Green: 24% (6/25) Yellow: 76% (19/25) Red: 0% (0/25)

D03 | N03B ()

1 2

Flown: 100% (2/2) Green: 0% (0/2) Yellow: 100% (2/2) Red: 0% (0/2)

D03 | OSBS_P1 (Ordway-Swisher Biological Station Priority 1)

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													

Flown: 100% (27/27) Green: 96% (26/27) Yellow: 4% (1/27) Red: 0% (0/27)

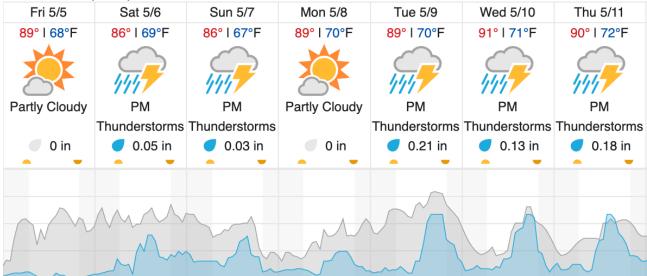
D03 | OSBS_P2 (Ordway-Swisher Biological Station Priority 2)

28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43

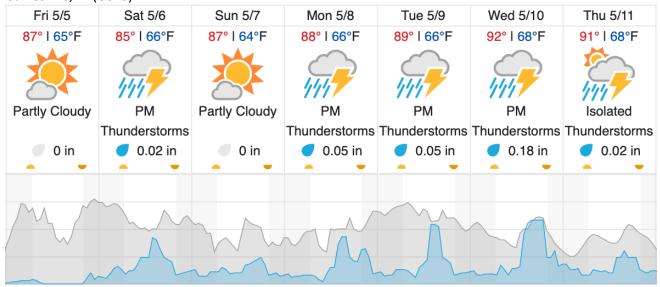
Flown: 100% (16/16) Green: 0% (0/16) Yellow: 100% (16/16) Red: 0% (0/16)

Weather Forecast

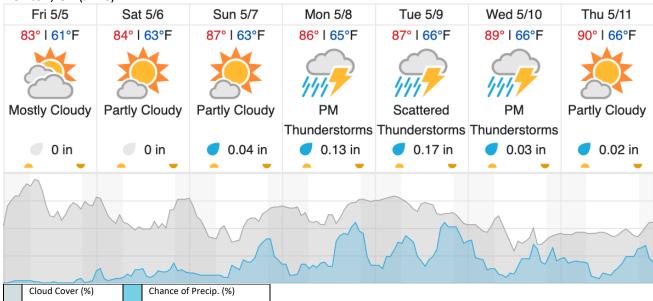
Kissimmee, FL (DSNY)



Gainesville, FL (OSBS)



Newton, GA (JERC)



source: wunderground.com

Flight Collection Plan for May 05, 2023

Flyority 1 (Lines 2 – 5, Only if green)

Collection Area: Disney Wilderness Preserve (DSNY) Flight Plan Name: D03_DSNY_R1_P1_v3_PRM.xml

On-Station Time: 1400 UTC/ 1000 L

Flyority 2 (Only if green)

Collection Area: Jones Ecological Research Center (JERC) P1 Flight Plan Name: D03 JERC R2 P1 P2 v4 PRM.xml

On-Station Time: 1420 UTC/ 1020 L

Flyority 3 (Only if green)

Collection Area: Ordway-Swisher Biological Station (OSBS) P2

Flight Plan Name: D03_OSBS_C1_P1_P2_v3_PRM.xml

On-Station Time: 1410 UTC/ 1010 L

Flyority 4 (Only if green)

Collection Area: Jones Ecological Research Center (JERC) P2

Flight Plan Name: D03_JERC_R2_P1_P2_v4_PRM.xml

On-Station Time: 1420 UTC/ 1020 L

Crew: Elissa (Lidar), Mitch (NIS)