



Payload 1 Daily Flight Report



Date: 2023-04-23

Flight Campaign ID: P1C1

Airport, FBO ID, City: Ocala International Airport (KOCF) - Ocala, FL

Aircraft: N331AR

Domain: 03 (Southeast)

Sites Flown: OSBS_P1 (Ordway-Swisher Biological Station Priority 1), OSBS_P2 (Ordway-Swisher Biological Station Priority 2), N03B (D03 Nominal Runway)

Days left in Domain: 16

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Cameron

Pilots: Justin, Jeff

Flight Hours: 02:16

Hours until maintenance: 78.28

GPS Instruments: 07 - FBO_KOCF, AOP_OSBS

Summary

A promisingly clear morning here in Florida gave way to dismay as a heavy haze and high cirrus clouds kept conditions in the non-green cloud coverage category. It was decided to focus on the lower priority flight lines at Ordway-Swisher, which are less likely to be re-flown should clear conditions present themselves later on in the domain. A nominal runway was also collected over KGNV.

Concerns

None

Comments

- Collected Hg lamp after today's flight.
- Prescribed burn at OSBS tower site confirmed as postponed till later in the year. Should no longer be a factor during our D03 collection efforts.

Daily Coverage

Estimated Cloud Cover Key

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

D03 | N03B

| Line # | 1 | 2 |
|--------------|--------|--------|
| Lidar | ✓ | ✓ |
| Spectrometer | ✓ | ✓ |
| Camera | ✓ | ✓ |
| Cloud Cover | Yellow | Yellow |

Total number of lines flown: 2

D03 | OSBS_P2

| Line # | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lidar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Camera | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cloud Cover | | | | | | | | | | | | | | | |

Total number of lines flown: 15

D03|OSBS_P1

| | | |
|--------------|----|----|
| Line # | 15 | 16 |
| Lidar | ✓ | ✓ |
| Spectrometer | ✓ | ✓ |
| Camera | ✓ | ✓ |
| Cloud Cover | | |

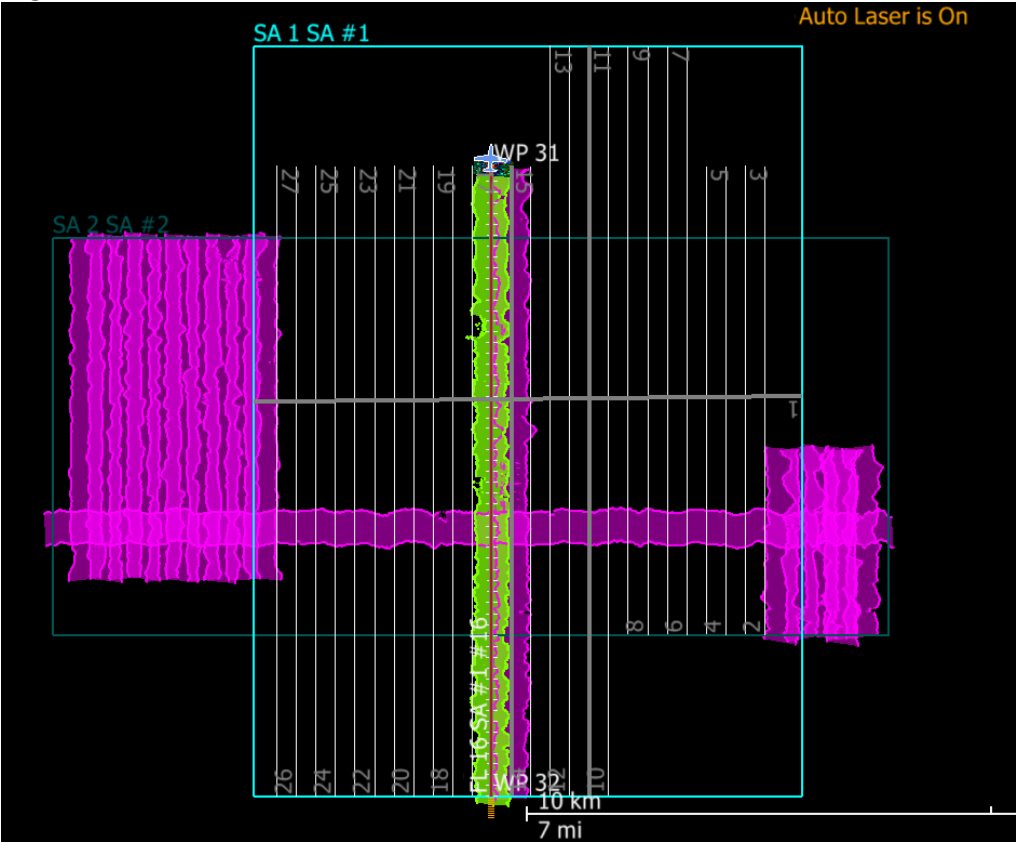
Total number of lines flown: 2

Pictures



Above: Mostly clear day at Ordway-Swisher, but haze and high cirrus kept conditions in the “yellow” category. Looking north, OSBS Tower barely visible in the center of the photo.

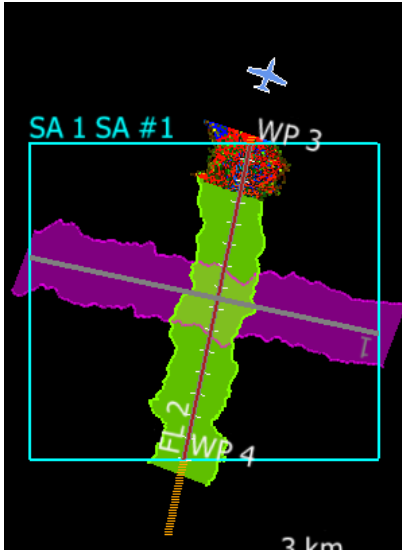
Flight Screenshots



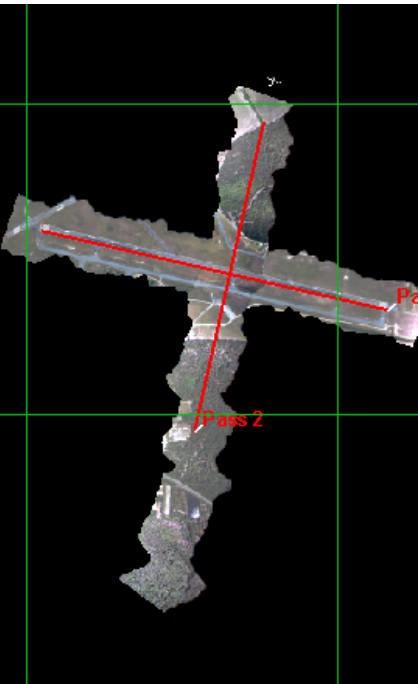
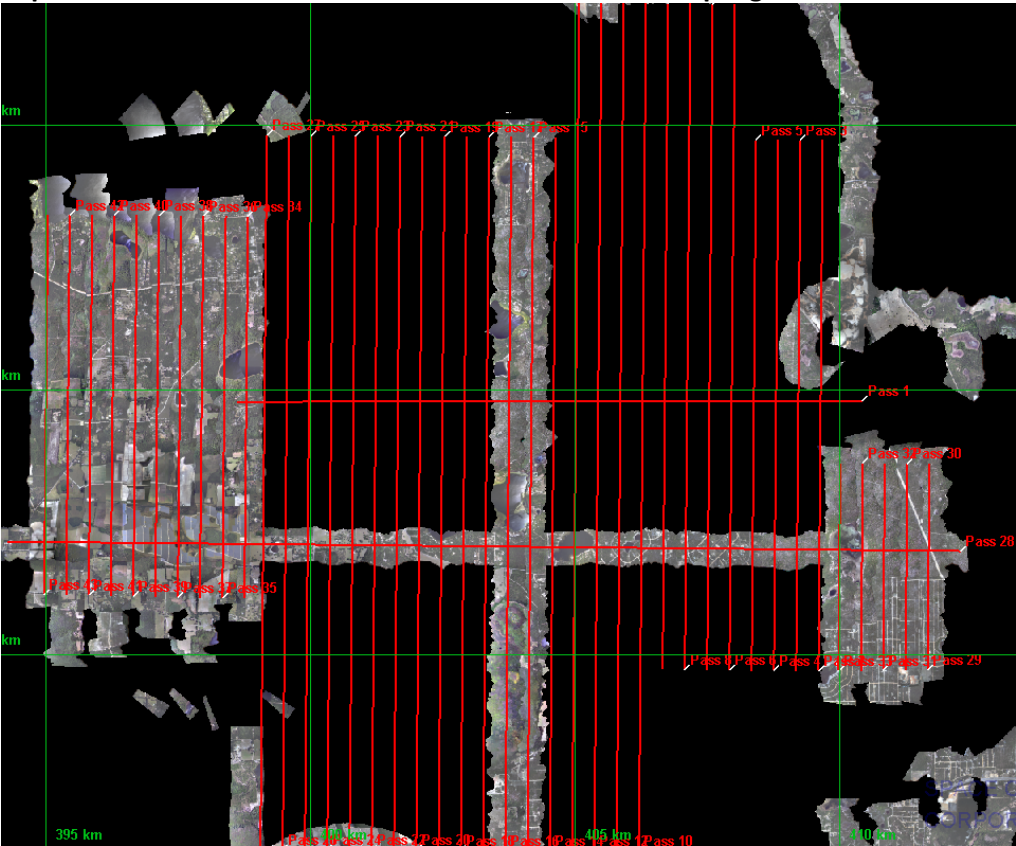
Top Left: OSBS Lidar

Bottom Left: OSBS NIS

Top Right: N03B Lidar



Bottom Right: N03B NIS



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: 75% (27/36)

Green: 72% (26/36)

Yellow: 3% (1/36)

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: 0% (0/26)

Green: 0% (0/26)

Yellow: 0% (0/26)

Red: 0% (0/26)

D03 | JERC_P2 (Jones Ecological Research Center Priority 2)

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

D03 | N03B (D03 Nominal Runway)

| | |
|---|---|
| 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: 7% (2/27)

Green: 0% (0/27)

Yellow: 7% (2/27)

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)

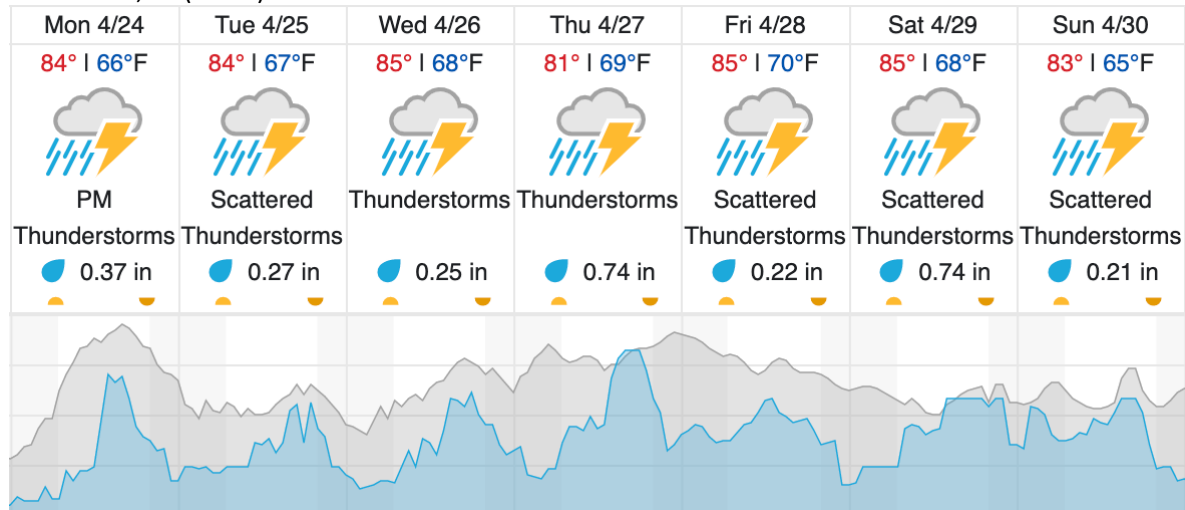
Green: 0% (0/16)

Yellow: 100% (16/16)

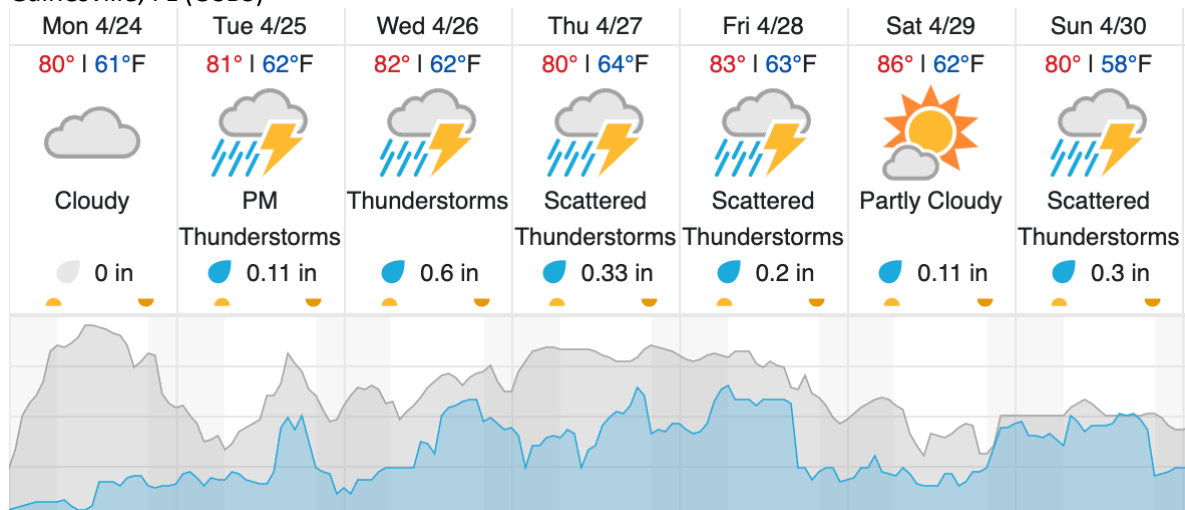
Red: 0% (0/16)

Weather Forecast

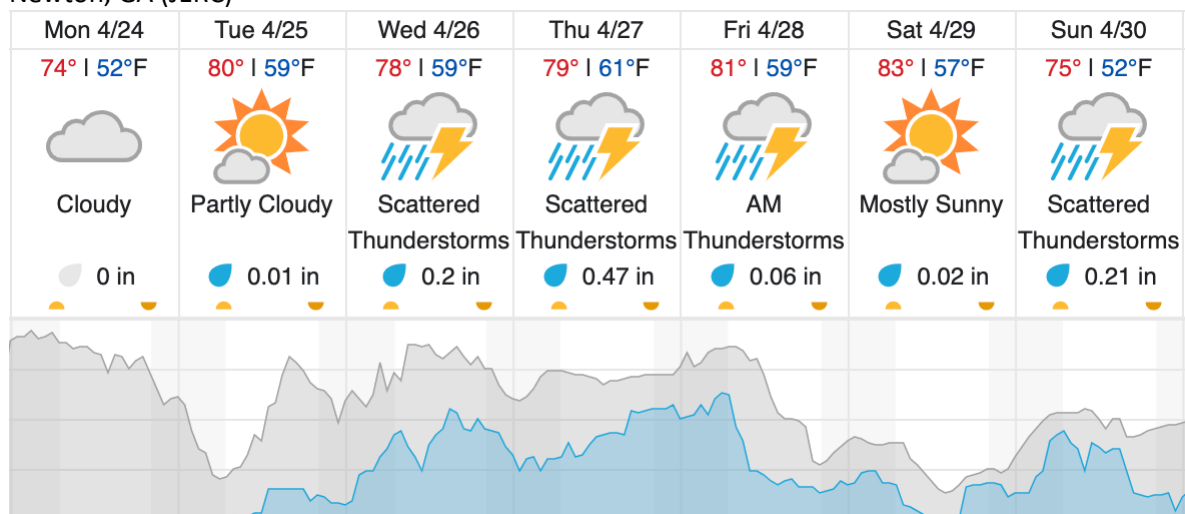
Kissimmee, FL (DSNY)



Gainesville, FL (OSBS)



Newton, GA (JERC)



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for April 24 2023

Flyority 1 (*Lines 2 – 10*)

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

Collection Area: Ordway-Swisher Biological Station (OSBS) P1

Flight Plan Name: D03_OSBS_C1_P1_P2_v3_PRM.xml

On-Station Time: 1410 UTC / 1010 L

Flyority 3

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 4 (*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 5

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: Cam (Lidar), Mitch (NIS)