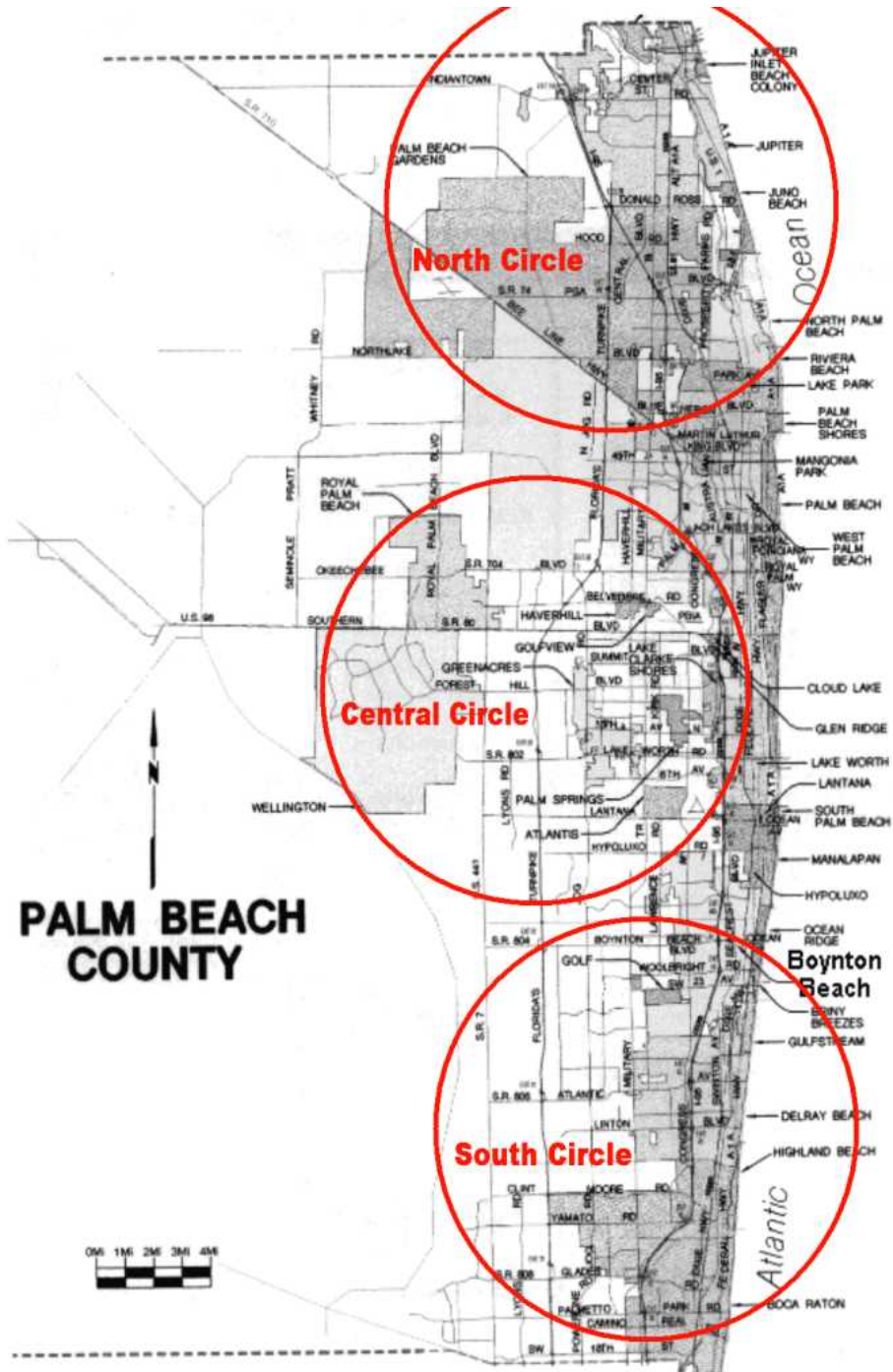


*On your Marks! Get Ready for  
2023 Butterfly Counts*

*Butterflies We See in Palm Beach County*



NABA-Atala Chapter  
May 20, 2023



# 4<sup>th</sup> of July Butterfly Counts 2023

## Central Circle—June 10

- Mounts Botanical Garden
- Okeetheelee County Park
- Pine Jog Environmental Education Center
- Royal Palm Beach Natural Area
- Home Gardens

## North Circle—June 11

- Jonathan Dickinson State Park
- Blowing Rocks Preserve
- FAU Arboretum
- FPL-Universe Boulevard
- Frenchman's Forest
- John D. MacArthur Beach State Park
- Home Gardens

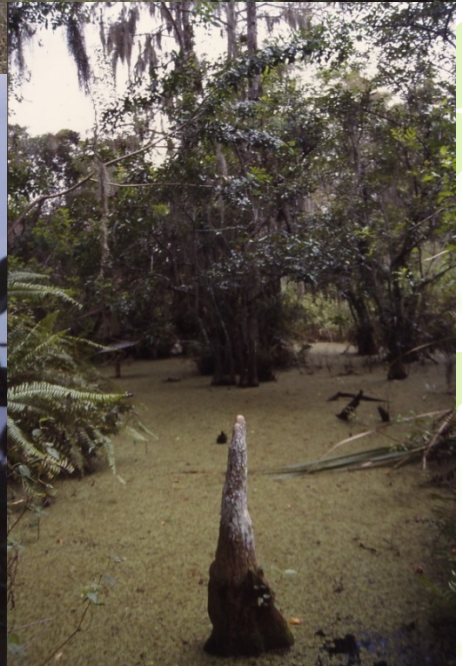
## South Circle—June 17

- Arthur R. Marshall Loxahatchee National Wildlife Refuge
- Daggerwing Nature Center
- Gumbo Limbo
- Green Cay Wetlands
- Home Gardens



# Diverse Habitats and Diverse Butterflies

\* 97 Species Palm Beach County



\* Butterflies and Moths of North America  
BAMONA

# South Circle 2022

32 Species & 450 Individuals

**Highest # at ARM Loxahatchee NWR: 305 Individuals 24 spp.**

- ✓ White Peacock **Total-99** ARM Loxahatchee **95**
- ✓ Gulf Fritillary **Total-71** ARM Loxahatchee **67**
- ✓ Zebra Heliconian **Total-59** ARM Loxahatchee **23** & Daggerwing **23**
- ✓ Pearl Crescent **Total-30** ARM Loxahatchee **30**
- ✓ Ruddy Daggerwing **Total-28** ARM Loxahatchee **18** & Daggerwing **6**
- ✓ Viceroy **Total-10** ARM Loxahatchee **10**
- ✓ Monarch **Total-9** Daggerwing **6**
- ✓ Queen **Total-13** ARM Loxahatchee **7** & Daggerwing **6**
- ✓ Soldier **Total-5** ARM Loxahatchee **5**
- ✓ Orange-barred Sulphur **Total-15** ARM Loxahatchee **7** Daggerwing **6**
- ✓ Statira Sulphur **Total-34** Gumbo Limbo **34**
- ✓ Palamedes Swallowtail **Total-4** ARM Loxahatchee **4**
- ✓ Fiery Skipper **Total-7** Daggerwing **4** & ARM Loxahatchee **3**
- ✓ Mangrove Skipper **Total-2** Gumbo Limbo **2**



# Central Circle 2022

31 Species & 257 Individuals

Highest # Individuals at Mounts Botanical Garden 73

Highest # Species at Okeeheelee 16 spp. & Mounts 15 spp.

- ✓ Black Swallowtail **Total-4** *Mounts Botanical Garden 2*
- ✓ Giant Swallowtail **Total-8** *Mounts Botanical Garden 3*
- ✓ Atala Hairstreak **Total – 22** *Mounts Botanical Garden 22*
- ✓ Gulf Fritillary **Total -42** *Royal Palm Beach Pines & Okeeheelee 16*
- ✓ Variegated Fritillary **Total -6** *Okeeheelee 4*
- ✓ Zebra Heliconian **Total-47** *Pine Jog 16*
- ✓ Cloudless Sulphur **Total-16** *Mounts Botanical Garden 13*
- ✓ Orange-barred Sulphur **Total-13** *Mounts Botanical Garden 6*
- ✓ Statira Sulphur **Total-5** *Mounts Botanical Garden 5*
- ✓ Dainty Sulphur **Total-17** *Royal Palm Beach Pines 10*
- ✓ White Peacock **Total-10** *Okeeheelee 7*
- ✓ Ruddy Daggerwing **Total-3** *Mounts Botanical Garden 2*
- ✓ Monarch **Total-12** *Home Gardens 10*
- ✓ Tropical Checkered-Skipper **Total-6** *Okeeheelee 4*



# North Circle 2022

**41 Species Total 725 Individual Butterflies**

**Highest #s at FPL 185 & JDSP 143 - Highest # species at JDSP 29 species**

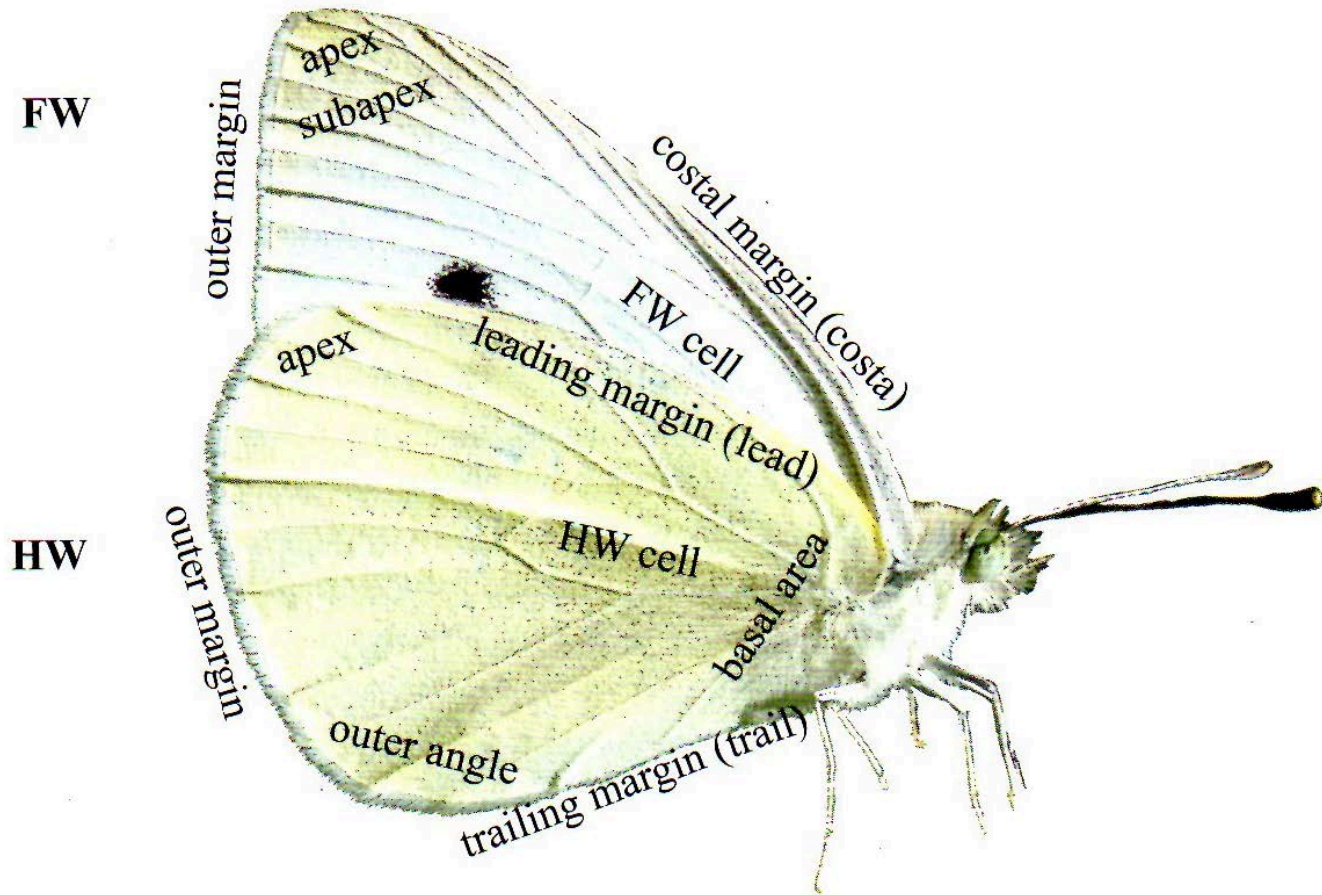
- ✓ Atala Hairstreak **Total-188 FPL 166**
- ✓ Statira Sulphur **Total-81 Frenchman's Forest 33**
- ✓ Cloudless Sulphur **Total-24 Blowing Rocks 11**
- ✓ Orange-barred Sulphur **Total-22 Blowing Rocks 19**
- ✓ Dainty Sulphur **Total-122 JDSP 12 Home Gardens 106**
- ✓ Martial Scrub-Hairstreak **Total-1 Blowing Rocks Preserve 1**
- ✓ Cassius Blue **Total-20 Blowing Rocks Preserve 10**
- ✓ Zebra Heliconian **Total-78 Blowing Rocks Preserve 23 & Home Gardens 21**
- ✓ Palamedes Swallowtail **Total-1 JDSP 1**
- ✓ Little Metalmark **Total-1 JDSP 1**
- ✓ Gulf Fritillary **Total-33 JDSP 19**
- ✓ Ruddy Daggerwing **Total-10 Frenchman's Forest 5**
- ✓ White Peacock **Total-27 JDSP 11**
- ✓ Fiery Skipper **Total-11 JDSP 10**
- ✓ Common/White Checkered-Skipper **Total-11 JDSP 11**
- ✓ Southern Broken-Dash **Total-18 JDSP 18**



# Butterfly Anatomy

**Size**  
**Color and Pattern of Wings**  
**Shape of wings**

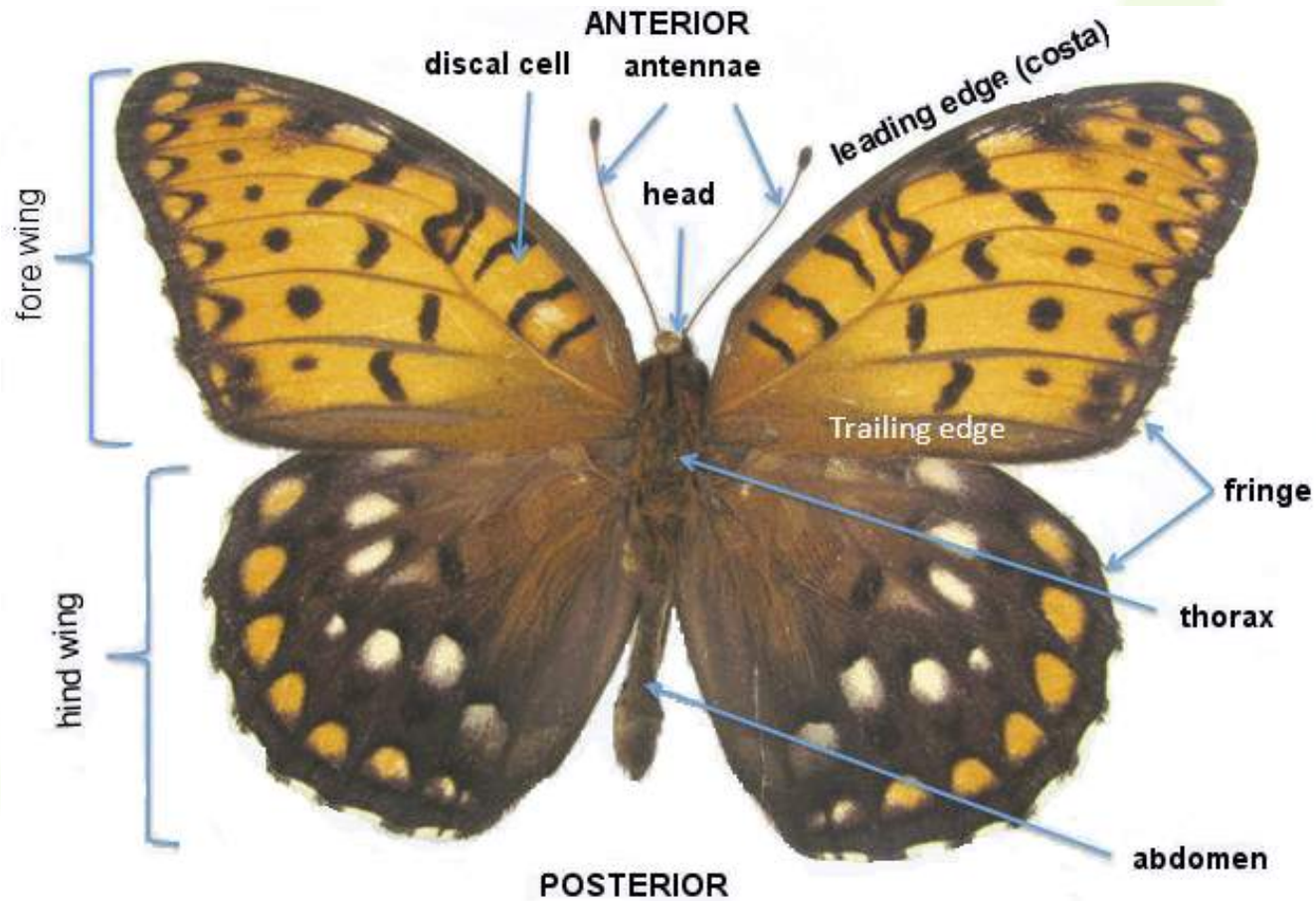
**Wings**  
*Ventral View/Below/Side View*





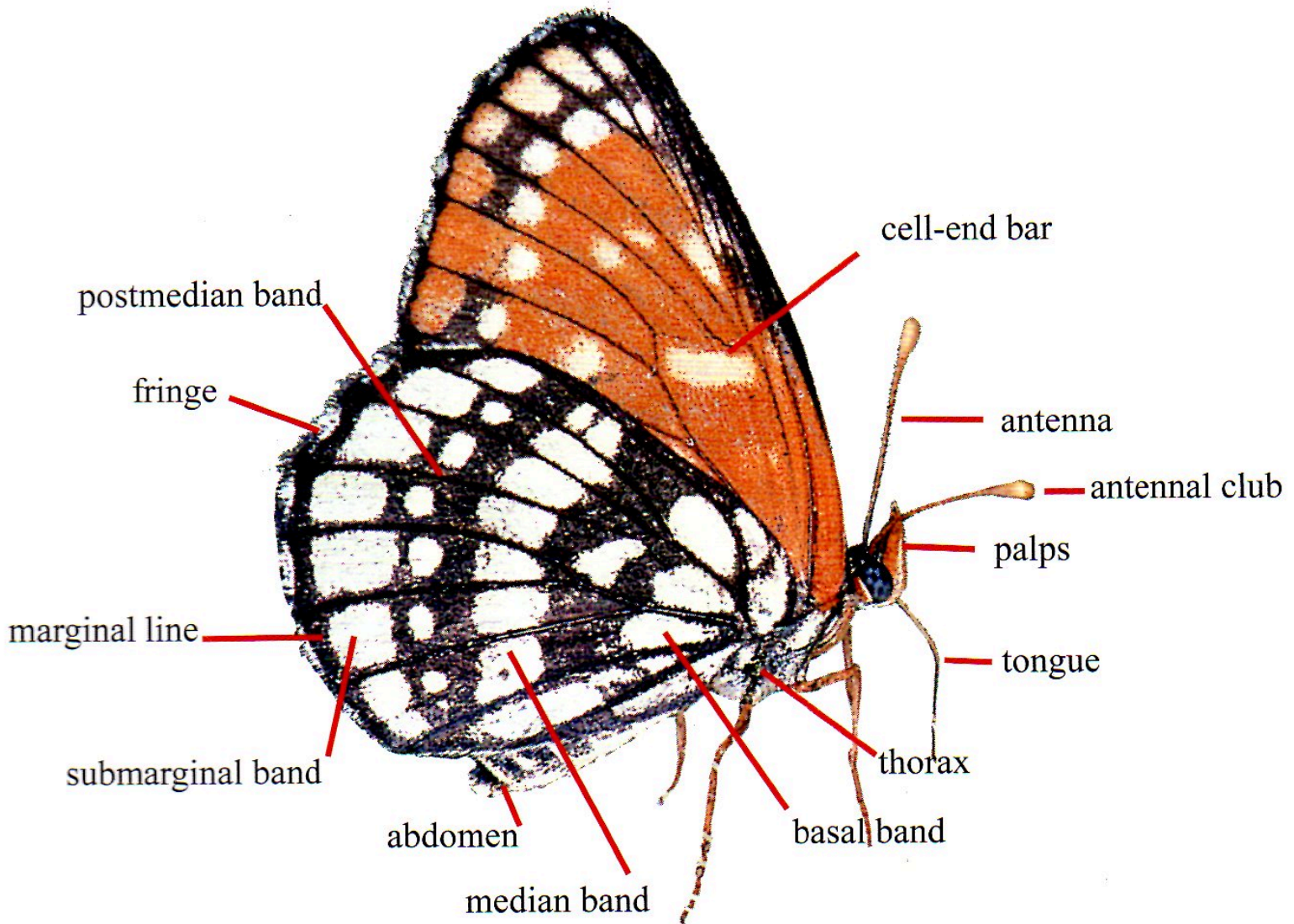
# Dorsal View

*Upper Wing Surface/Above*



# Ventral View

## *Below Wing Surface/Side*



# How Do You Count Butterflies? Citizen Science Project

Pollard Walks: Commonly used for research monitoring. Permanent route for census survey.

Checklist/Open Search: Single event to survey abundance and species in a specific area.

NABA!



# SULPHURS

Statira Sulphur

*Phoebis (Aphrissa) statira*



Female with spot on forewing and dark border at tip of wing and margins

Yellow toward body and white toward margins

Frenchman's Forest  
John D. MacArthur Beach State  
Blowing Rocks Preserve  
Gumbo Limbo



Male—Greenish-yellow  
Unmarked with Puckered Look



Male

Female

Ben Tert/BAMONA



Charlie Beck

## Pink-spot Sulphur *Phoebis (Aphrissa) neleis*

Dark margin broken

Dark margin unbroken



BAMONA

## Statira Sulphur *Phoebis (Aphrissa) statira*



Alana Edwards

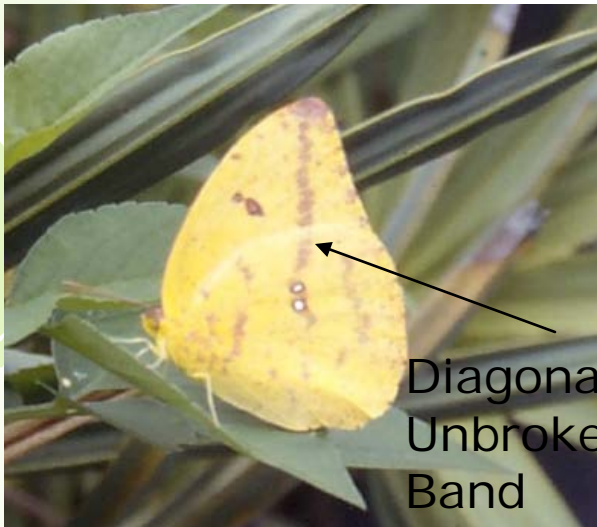
Yellow-Angled Sulphur: MacArthur Beach State Park 2014



Orange-barred Sulphur *Phoebis pilea*  
Female—Summer



Orange-barred Sulphur—Winter



Large Orange Sulphur  
*Phoebis agarithe*



Cloudless Sulphur  
*Phoebis sennae*





**Orange-barred Sulphur**  
Upper side yellow-orange  
Large and high flying  
Dark antennae  
Silver spot on ventral hindwing  
tipped downward



**Cloudless Sulphur**  
Lemon yellow to yellow with  
pink-bordered silvery cell



# Sleepy Orange Sulphur

*Eurema nicippe*



Smudged line  
Black spot

Bright orange above  
Smaller than Cloudless and larger than Dainty Sulphur  
1 ½ - 2 ¼ inches



Bright Yellow



Alana Edwards

Barred Yellow *Eurema daira*

Barred Yellow—Wet Season



2 black dots

Alana Edwards

Little Yellow *Eurema lisa*



Strong black spot

Smallest Sulphur

Dainty Sulphur *Nathalis iole*

# Great Southern White

*Ascia monuste*



Black Border  
Jagged



Turquoise  
Antennae

# Florida White

*Appias drusilla*

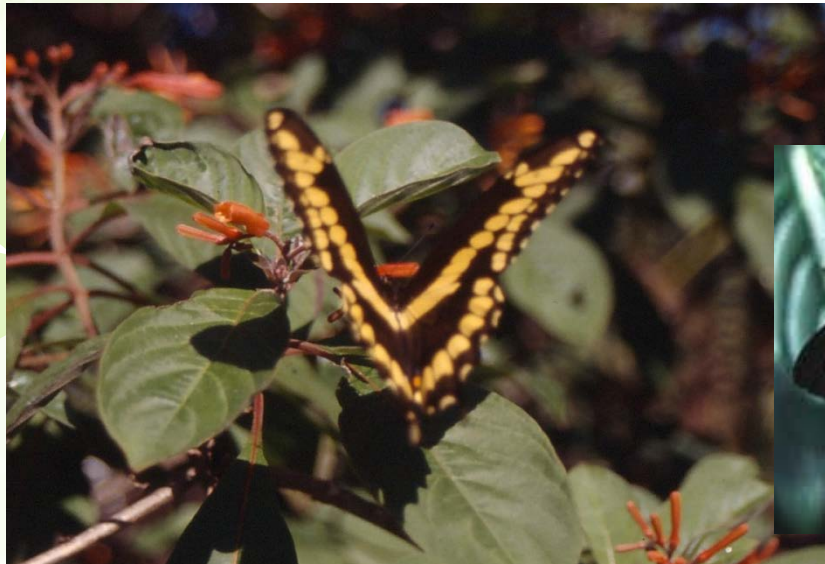


# Checkered White

*Pontia protodice*



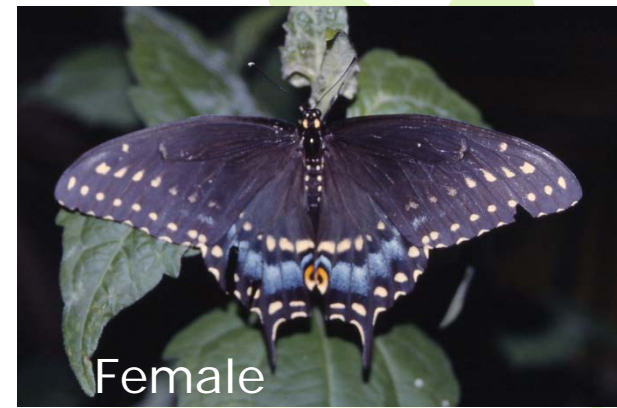
# Swallowtails Papilionidae



# Swallowtails



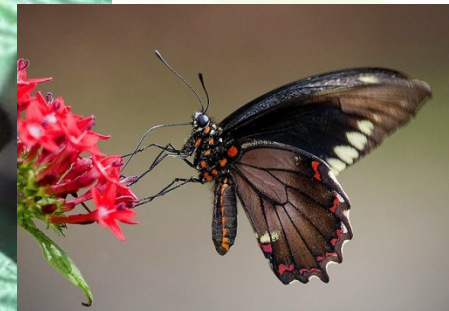
Palamedes Swallowtail



Black Swallowtail  
Body broken yellow spots



Giant Swallowtail



Polydamus Swallowtail-No tails



## Zebra Swallowtail

JDSP

Frenchman's Forest



## Tiger Swallowtail

ARM Loxahatchee  
Highlands Hammock



# Spicebush Swallowtail!

## At Okecheelee Park Nature Center



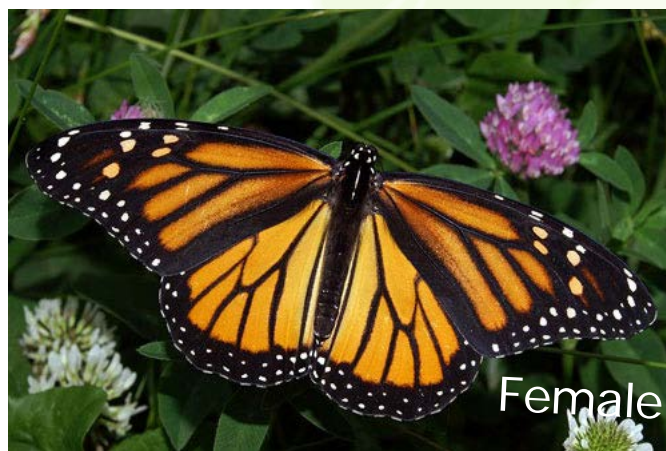
# Milkweed Butterflies



**Monarch** Stained Glass



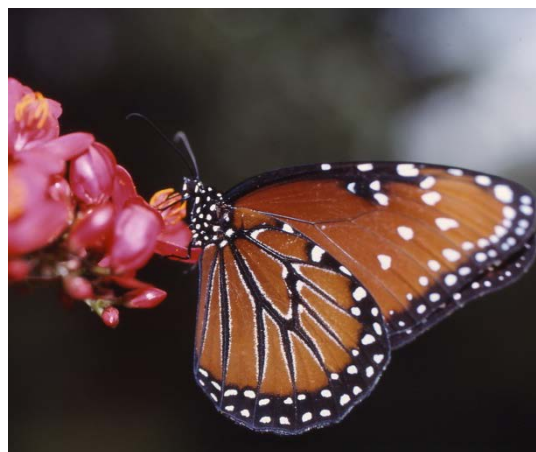
Male



Female



**Soldier** Water marks



**Queen** Strong white spots





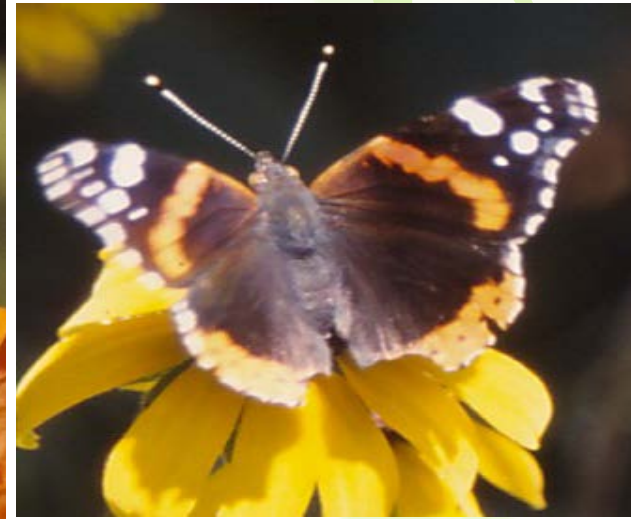
# Other Brushfoots – Nymphalidae Family



**Painted Lady**  
Small eyespots



**American Painted Lady**  
Large eyespots



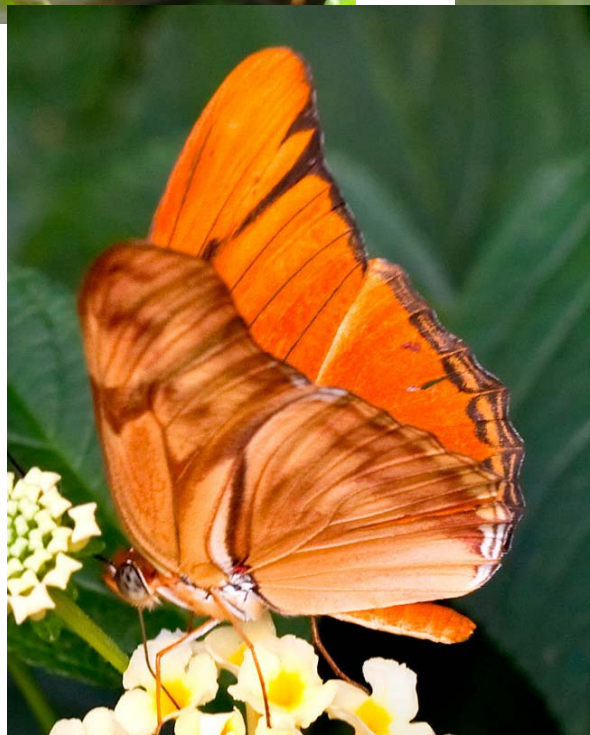
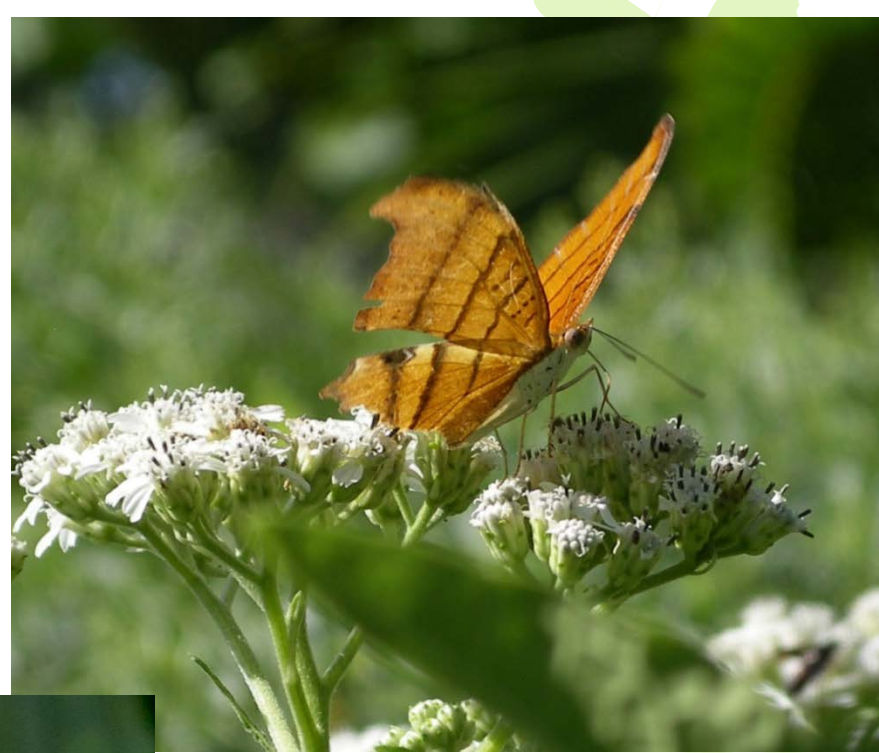
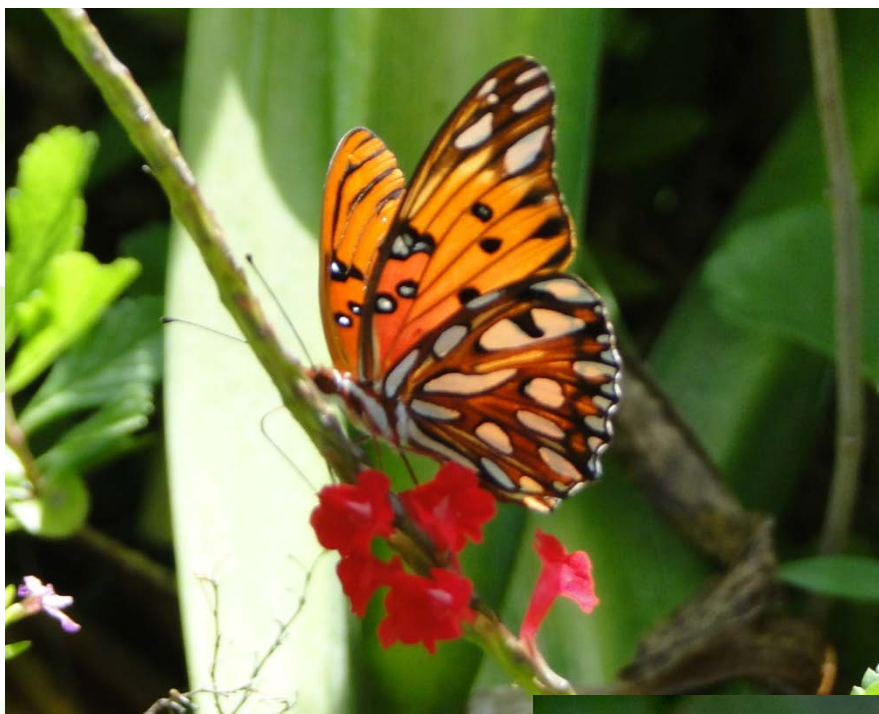
**Red Admiral**

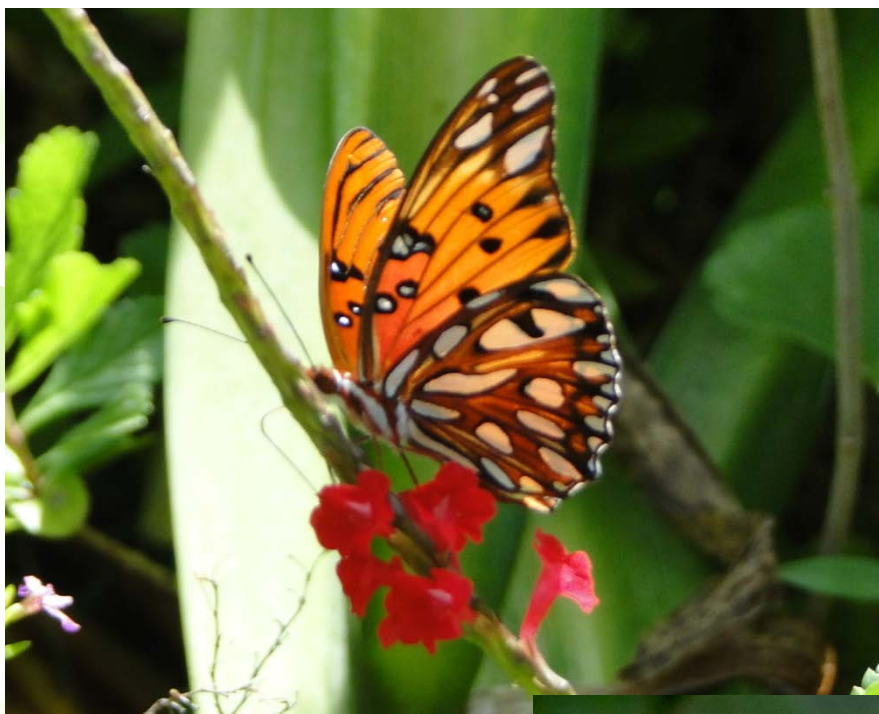


**White Peacock**

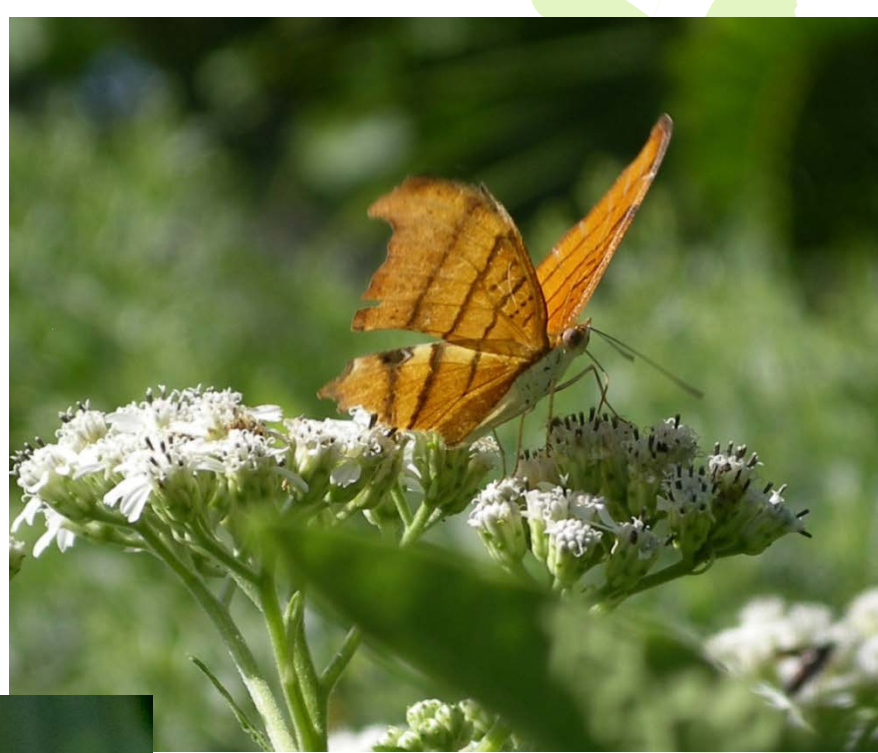


**Viceroy - Smiley face**

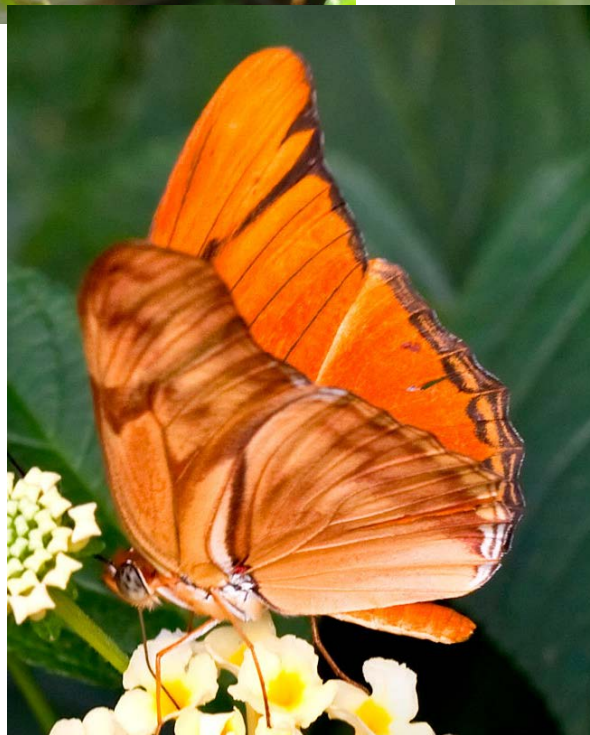




Gulf Fritillary



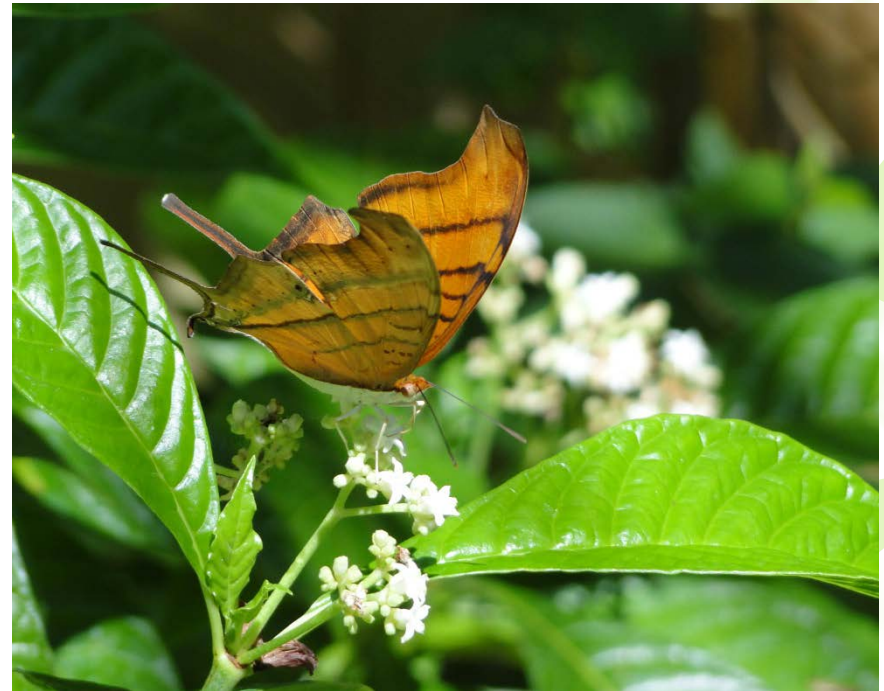
Ruddy Daggerwing



Julia Heliconian

# Ruddy Daggerwing *Marpesia petreus*

Daggerwing Nature Center  
Frenchman's Forest  
John D. MacArthur Beach State Park  
Mounts Botanical Garden  
Gumbo Limbo  
Arthur R. Marshall Loxahatchee



# Gulf Fritillary

*Agraulis vanillae*

One of Most Common Butterflies!



**Silver underwing**



**Melanic  
Gulf Fritillary**



**Variegated Fritillary**

# Heliconian (Longwings)

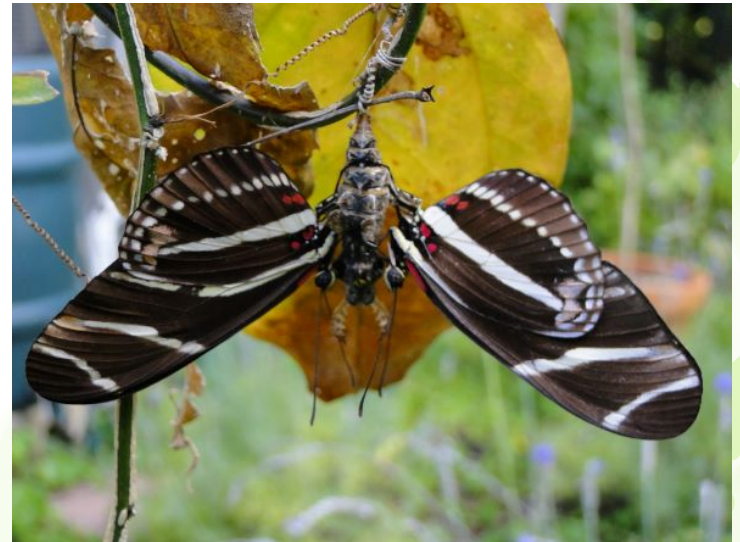
Male



Female



**Julia Heliconian**



**Zebra Heliconian**

# **Buckeyes:** Blowing Rocks Preserve Gumbo Limbo Home Gardens and Disturbed Areas

Butterflydatabase.com

White Band



## **Mangrove Buckeye**

Host Plant: Black Mangrove

## **Common Buckeye**

Host Plants: Plantains, Toadflax,  
Fogfruit, Twinflower

# Blues



**Cassius Blue**

2 black spots on hindwing

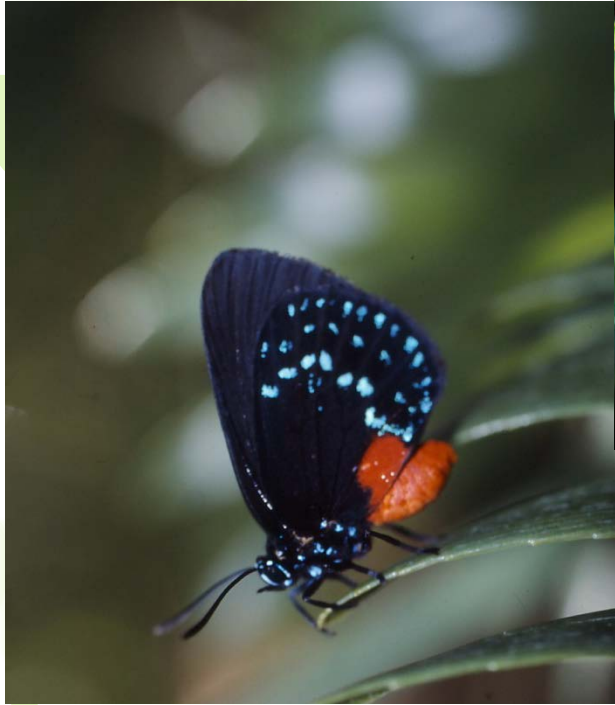


**Ceraunus Blue**

Black spots on gray background



# Hairstreaks



Atala Hairstreak



Red-Banded  
Hairstreak



White M Hairstreak



Fulvous Hairstreak



Gray Hairstreak

# Martial Scrub Hairstreak at Blowing Rocks Preserve! Host Plant: Bay Cedar



Jeff Nurge

Mallow Scrub Hairstreak

Two pairs  
of tails



Deb Galloway

Martial Scrub Hairstreak

One pair  
of tails

# Phaon Crescent

Cream-colored band



# Pearl Crescent



Black spot in orange spot



# Mangrove Skipper

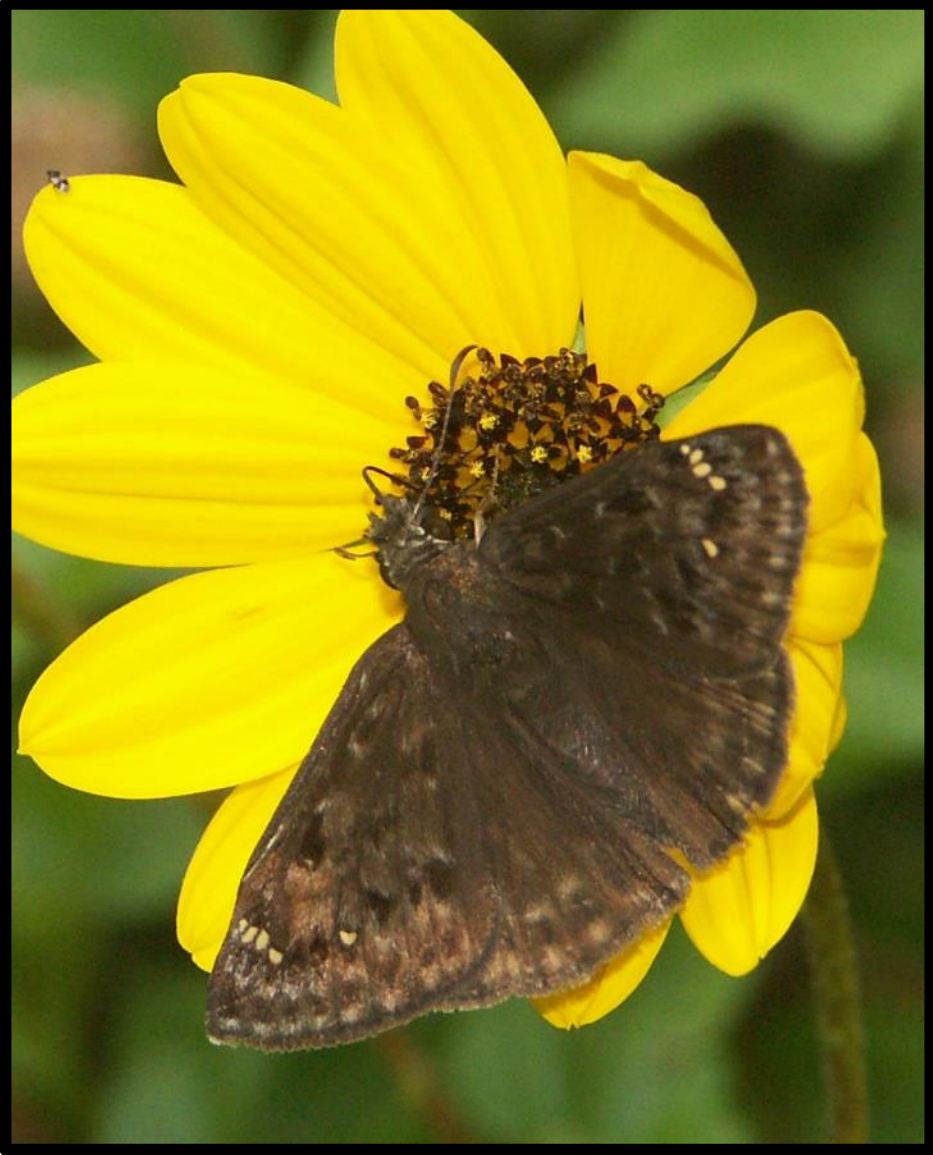




# Hammock Skipper



# Horace's Duskywing



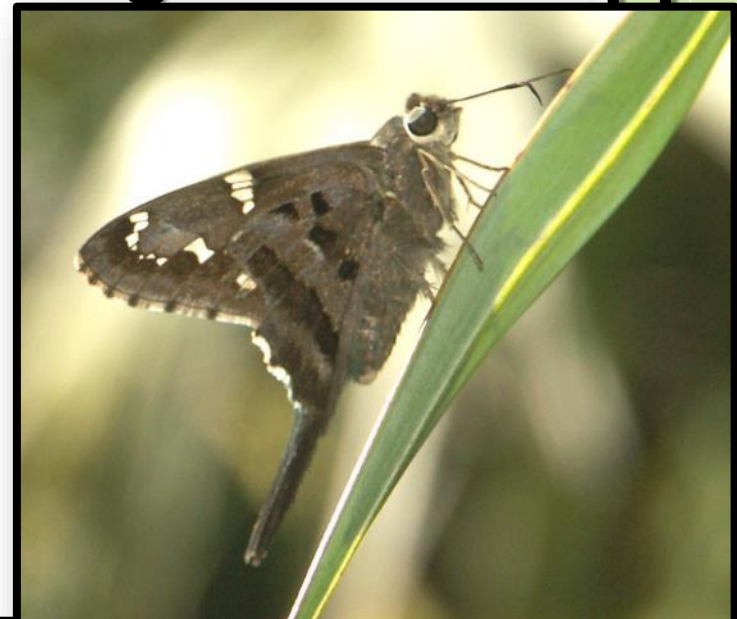
Spreadwing



# Dorantes Longtail



# Long-tailed Skipper



# Tropical Checkered Skipper

# Common Skipper



White spot



Black checks evenly spaced



# Fiery Skipper



# Whirlabout Skipper



Larger Spots



# Delaware Skipper

ARM Lox



Orange fringe

Smallest  
**Southern  
Skipperling**

**Least  
Skipper**



Strong ray



Rays on veins

# Eufala Skipper



White ring  
around eye-  
short antennae

# Clouded Skipper



# Ocola Skipper



Long wings and striped abdomen

Longer  
antennae

# Three- spotted Skipper



**Monk Skipper**



**Brazilian Skipper**



# Palatka Skipper



Large, cinnamon  
brown

# Aaron's Skipper



Pale ray

# Southern Broken-Dash



Pale band like 3

JDSP  
Frenchman's  
Forest  
Royal Pines

# Sachem



# Atala Chapter First Night! October 1995



<https://www.nabapalmbeach.org>  
[nabapalmbeach@gmail.com](mailto:nabapalmbeach@gmail.com)

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