

INTRODUCTION TO TROPICAL BIODIVERSITY
October 1 - 9, 2022

Sponsored by the Canopy Family and Naturalist Journeys

Participants: Gerry, Vicki, David, Deborah, Ann and John

Guest Scientists: Drs. Carol Simon and Howard Topoff

Canopy Guides: Igua Jimenez and Tino Sanchez



Prepared by Carol Simon and Howard Topoff
Workshop Participants and Guest Scientists

(Photo by Tino)

Six participants arrived at the Canopy Tower eager to learn everything they could about the biodiversity of the region. Our two scientists and local Canopy guide quickly made everyone feel welcomed. Folks came with special interests in butterflies and moths, birds, herps and more. We were a most enthusiastic group and we saw a lot!

We spent four nights in the Panamanian lowlands at the Canopy Tower and another four just below cloud forest at the Canopy Lodge. In very different habitats, and at different elevations, conditions were optimal to see a great variety of insects and arachnids, frogs, lizards, birds and mammals. Although we concentrated on every creature we saw, the dedicated birders were very happy with their avian viewing, thanks to our talented Canopy guides. We were usually in the field twice a day and added several night excursions. We also visited scientific and cultural centers such as the El Valle Market, the Miraflores Locks on the Panama Canal, the BioMuseo in Panama City, Herpetologist Mario Urriola's collections and the Amphibian Conservation Center, which has been nicely revamped and houses the

Panamanian Golden Frog, which exists only in captivity. A highlight of the trip



Canopy Tower (Photo by Carol)

was the daily presentations that our guest scientists provided.

Itinerary:

October 1: Arrival and Orientation at Canopy Tower

October 2: Pipeline Road, BioMuseo

October 3: Summit Ponds, Old Gamboa Road, Gamboa Resort

October 4: Plantation Road, Summit Gardens, night walk

October 5: Gatun Lake Boat Ride, Miraflores Locks, transfer from
Canopy Tower to Canopy Lodge

October 6: La Mesa — Las Minas Road, Canopy Adventure, Mario Urriola
Rescue Center and Herpetarium, night walk
on Lodge grounds

October 7: Altos del Maria

October 8: Candelaria, El Valle Amphibian Conservation Center, El Valle
Market

October 9: Departures



Canopy Tower (Photo by Howard)

Presentations by our Guest Scientists:

Introduction to Tropical Rainforests

Tropical Botany

Butterflies

Primates of Latin America

Social Insects of the Rainforest

100 Years of the Panama Canal

Poisonous Amphibians and Venomous Reptiles

Bird Brains



Altos del Maria
Site of the Last Panamanian Golden Frogs Seen in the Wild
(Photo by Carol)
BIRDS

Tinamous - Tinamidae

Great Tinamou, *Tinamus major*

Ducks, Swans, Geese - Anatidae

Muscovy Duck, *Carina moschata*

Curasows, Guans, Chacalacas - Cracidae
Gray-headed Chachalaca, *Ortalis cinereiceps*

Swifts - Apodidae
Band-rumped Swift, *Chaetura spinicaudus*
Short-tailed Swift, *Chaetura brachyura*

Hummingbirds - Trachilidae
White-necked Jacobin, *Florisuga mellivora*
White-tipped Sicklebill, *Eutoxeres aquila*
Green Hermit, *Phaethornis longirostris*
Long-billed Hermit, *Phaethornis longirostris*
Crowned Woodnymph, *Thalurania colombica*
Rufous-tailed Hummingbird, *Amazilia tzacatl*
Blue-chested Hummingbird, *Polyerata amabilis*

Cuckoos - Cuculidae
Greater Ani, *Crotophaga major*
Smooth-billed Ani, *Crotophaga ani*
Squirrel Cuckoo, *Piaya cayana*

Potoos - Nyctibiidae
Great Potoo, *Nyctibius grandis* (HO)
Common Potoo, *Nyctibius griseus* (HO)

Pigeons, Doves - Columbidae
Pale-vented Pigeon, *Patagioenas cayennensis*
Ruddy Ground-Dove, *Columbina talpacoti*
White-tipped Dove, *Leptotila verreauxi*

Rails, Crates, Coots - Rallidae
Gray-cowled Wood-Rail, *Aramides cajaneus*
Purple Gallinule, *Porphyrio martinica*

Limpkin - Aramidae

Limpkin, *Aramus guarauna*

Plovers - Charadriidae

Southern Lapwing, *Vanellus chilensis*

Jacanas - Jacanidae

Wattled Jacana, *Jacana jacana*

Sandpipers, Snipes - Scolopacidae

Spotted Sandpiper, *Actitis macularius*

Frigatebirds - Fregatidae

Magnificent Frigatebird, *Fregata magnificens*

Anhinga - Anhingidae

Anhinga, *Anhinga anhinga*

Cormorants, Shags - Phalacrocoracidae

Neotropic Cormorant, *Nannopterum brasilianum*

Ibises, Spoonbills - Threskiornithidae

American White Ibis, *Eudocimus albus*

Hérons, Bitterns - Ardeidae

Rufescent Tiger-Heron, *Tigrisoma lineatum*

Boat-billed Heron, *Cochlearius cochlearius*

Western Cattle Egret, *Bubulcus ibis*

Great Egret, *Ardea alba*

Snowy Egret, *Egretta thula*

Little Blue Heron, *Egretta caerulea*

Striated Heron, *Butorides striata*

Boat-billed Heron, *Cochlearius cochlearius*

Pelicans - Pelecanidae

American White Pelican, *Pelecanus erythrorhynchos*

Brown Pelican, *Pelecanus occidentalis*

New World Vultures - Cathartidae

Black Vulture, *Coragyps atratus*

Turkey Vulture, *Cathartes aura*

Ospreys - Pandionidae

Western Osprey, *Pandion haliaetus*

Kites, Hawks, Eagles - Accipridae

Gray-headed Kite, *Leptodon cayanensis*

Mississippi Kite, *Ictinia mississippiensis*

Snail Kite, *Rostrhamus sociabilis*

Common Black Hawk, *Buteogallus anthracinus*

Savanna Hawk, *Buteogallus meridionalis*

White hawk, *Pseudastur albicollis*

Broad-winged Hawk, *Buteo platypterus*

Owls - Strigidae

Tropical Screech Owl,

Crested Owl, *Lophotrix cristata* (HO)

Spectacled Owl, *Pulsatrix perspicillata*

Black-and-white Owl, *Ciccaba nigrolineata*

Trogons - Trogonidae

Slaty-tailed Trogon, *Trogon massena*

White-tailed Trogon, *Trogon chionurus*

Gartered Trogon, *Trogon caligatus*

Black-throated Trogon, *Trogon rufus*

Collared Trogon, *Trogon collaris*

Kingfishers - Alcedinidae

Green Kingfisher, *Chloroceryle americana*

Ringed Kingfisher, *Megaceryle alcyon*

Motmots - Momotidae

Whooping Motmot, *Momotus subrufescens*

Rufous Motmot, *Baryphthengus martii*

Broad-billed Motmot, *Electron platyrhynchum*

Puffbirds - Galbulidae

Black-breasted Puffbird, *Notharchus pectoralis* (HO)

Toucans - Ramphastidae

Collared Aracari, *Pteroglossus torquatus*

Keel-billed Toucan, *Ramphastos sulfuratus*

Northern Emerald-Toucanet, *Aulacorhynchus prasinus*

Yellow-throated Toucan, *Ramphastos ambiguus* (HO)

Woodpeckers - Picidae

Black-cheeked Woodpecker, *Melanerpes pucherani*

Red-crowned Woodpecker, *Melanerpes rubricapillus*

Stripe-cheeked Woodpecker, *Piculus collopterus*

Cinnamon Woodpecker, *Celeus loricatus*

Lineated Woodpecker, *Dryocopus lineatus*

Crimson-crested Woodpecker, *Campephilus melanoleucos*

Caracaras, Falcons - Falconidae

Yellow-headed Caracara, *Milvago chimachima*

Bat Falcon, *Falco rufigularis*

African & New World Parrots - Psittacidae

Orange-chinned Parakeet, *Brotogeris jugularis*

Brown-hooded Parrot, *Pyrilia haematotis*

Blue-headed Parrot, *Pionus menstruus*

Red-lored Amazon, *Amazona autumnalis*

Mealy Parrot, *Amazona ochrocephala*

Ovenbirds & Woodcreepers - Furnariidae

Scaly-throated Leaf Tosser, *Sclerurus guatemalensis*

Plain-brown Woodcreeper, *Dendrocincia fulginosa*
Northern Barred Woodcreeper, *Dendrocolaptes sancitithomae*
Cocoa Woodcreeper, *Xiphorhynchus susurrant*
Spotted Woodcreeper, *Xiphorhynchus erythropygius*
Spotted Barbtail, *Premnoplex brunnescens*

Antbirds - Thamnophilidae

Dot-winged Antwren, *Microhoppas quixensis*
Checker-throated Stipplethroat, *Epinecrophylla fulviventr*
Plain Antvireo, *Dysithamnus mentalis*
Spot-crowned Antvireo, *Dysithamnus puncticeps*
White-flanked Antwren, *Myrmotherula axillaris*
Slaty Antwren, *Myrmotherula schisticolor*
Black-crowned Antshrike, *Thamnophilus atrinucha*
Dusky Antbird, *Cercomacroides tyrannina*
Spotted Antbird, *Hylophylax naevioides*
Chestnut-backed Antbird, *Poliocrania exsul*
Bicolored Antbird, *Gymnopithys bicolor*

Antpittas - Grallariidae

Streak-chested Antpitta, *Hylopezus perspicillatus*

Antthrushes - Formicariidae

Black-faced Ant Thrush, *Formicarius analis*

Tyrant Flycatchers, Calypyura - Tyrannidae

Brown-capped Tyrannulet, *Ornithion brunneicapillus*
Mistletoe Tyrannulet, *Zimmerius parvus*
Southern Bentbill, *Oncostoma olivaceum*
Common Tody-Flycatcher, *Todirostrum cinereum*
Olivaceous Flatbill, *Rhynchocyclus olivaceus*
Northern Tufted Flycatcher, *Mitrephanes phaeocercus*
Rusty-margined Flycatcher, *Myiozetetes granadensis*
Social Flycatcher, *Myiozetetes similis*
Great Kiskadee, *Pitangus sulphuratus*

Lesser Kiskadee, *Philohydor lictor*
Streaked Flycatcher, *Myiodynastes maculatus*
Tropical Kingbird, *Tyrannus melancholicus*
Eastern Kingbird, *Tyrannus tyrannus*
Tufted Flycatcher, *Mitrephanes phaeocercus*
Western Wood Pewee, *Contopus sordidulus*
Eastern Wood Pewee, *Contopus virens*
Tropical Pewee, *Contopus chereus*
Panama Flycatcher, *Myiarchus panamensis*
Bright-rumped Attila, *Attila spadiceus*

Gnateaters - Conopophagidae

Black-crowned Antpitta, *Pittasoma michieri*

Cotingas - Cotingidae

Purple-throated Fruit Crow, *Querula purpurata*

Manakins - Pipridae

Blue-crowned Manakin, *Lepidothrix coronata*

Red-capped Manakin, *Ceratopipra mentalis*

Tityras, Becards, Sharpbill - Tityridae

Black-tailed Myiobius, *Myiobius atricaudus*

Ruddy-tailed Flycatcher, *Terenotriccus erythrurus*

Masked Tityra, *Tityra semifasciata*

Northern Schiffornis, *Schiffornis veraepacis*

Vireos, Greenlets, Shrike-babblers - Vireonidae

Green Shrike-Vireo, *Vireolanius pulchellus*

Lesser Greenlet, *Pachysylvia decurtata* (HO)

Red-eyed Vireo, *Vireo olivaceus*

Crows, Jays - Corvidae

Black-chested Jay, *Cyanocorax affinis*

Swallows, Martins - Hirundinidae

Mangrove Swallow, *Tachycineta albilinea*

Southern Rough-winged Swallow, *Stelgidopteryx ruficollis*

Gray-breasted Martin, *Progne chalybea*

Barn Swallow, *Hirundo rustica*

Wrens - Troglodytidae

Rufous-breasted Wren, *Pheugopedius rutilus* (HO)

Bay Wren, *Cantorchilus nigricapillus*

House Wren, *Troglodytes aedon*

Rufous-breasted wren, *Pheugopedius rutilus*

Ochraceous Wren, *Troglodytes ochraceous*

Gnatcatchers - Polioptilidae

Trilling Gnatwren, *Ramphocaenus melanurus*

Tawny-faced Gnatwren, *Microbates cinereiventris*

White-browed Gnatcatcher, *Polioptila bilineata*

Mockingbirds, Thrashers - Mimidae

Tropical Mockingbird, *Mimus gilvus*

Thrushes - Turdidae

Swainson's Thrush, *Catharus ustulatus*

Clay-colored Thrush, *Turdus grayi*

Finches, Euphonias - Fringillidae

Thick-billed Euphonia, *Euphonia laniirostris*

Fulvous-vented Euphonia, *Euphonia fulvicrissa*

Tawny-capped Euphonia, *Euphonia anneae*

New World Sparrows - Passerellidae

Common Bush Tanager, *Chlorospingus flavopectus*

Orange-billed Sparrow, *Arremon aurantirostris*

Chestnut-capped Brushfinch, *Arremon brunneinucha*

Oropendolas, Orioles, Blackbirds - Icteridae

Common Chlorospingus, *Chlorospingus flavospectus*

Chestnut-headed Oropendula, *Psarocolius wagleri*

Scarlet-rumped Cacique, *Cacicus microrhynchus*

Baltimore Oriole, *Icterus galbula*

Great-tailed Grackle, *Quiscalus mexicanus*

New World Warblers - Parulidae

Black-and-white Warbler, *Mniotilta varia*

Prothonotary Warbler, *Protonotaria citrea*

Tennessee Warbler, *Leiothlypis peregrina*

Bay-breasted Warbler, *Setophagacastanea*

Blackburnian Warbler, *Setophaga fusca*

Chestnut-sided Warbler, *Setophaga pennsylvanica*

Black-throated Blue Warbler, *Setophaga caerulescens*

Buff-rumped Warbler, *Myiothlypis fulvicauda*

Chestnut-capped Warbler, *Basileuterus delatirii*

Canada Warbler, *Cardeliina canadensis*

Mitrospringid Tanagers - Mitrospringidae

Dusky-faced Tanager, *Mitrospringus cassinii*

Grosbeaks, Buntings & Allies - Cardinalidae

Scarlet Tanager, *Piranga olivacea*

Summer Tanager, *Piranga rubra*

Red-crowned Ant Tanager, *Habia rubica*

Red-throated Ant Tanager, *Habia fuscicauda*

Blue-black Grosbeak, *Cyanoloxia cyanooides*

Mitrospingid Tanagers - Mitrospingidae

Dusky-faced Tanager, *Mitrospingus cassinii*

Tanagers - Thraupidae

Blue-gray Tanager, *Thraupis episcopus*
Palm Tanager, *Thraupis palmarum*
Golden-hooded Tanager, *Stilpnia larvata*
Plain-colored Tanager, *Tangara inorata*
Bay-headed Tanager, *Tangara gyro*
Emerald Tanager, *Tangara florida*
Silver-throated Tanager, *Tangara icterocephala*
Green Honeycreeper, *Chlorophanes spitzza*
Black-and-Yellow Tanager, *Chrysothlypis chrysomelas*
Grey-headed Tanager, *Eucometis penicillata*
Tawny-crested Tanager, *Tachyphonus delatrii*
Flame-rumped Tanager, *Ramphocelus flammigerus*
Crimson-backed Tanager, *Ramphocelus dimidiatus*
Red-legged Honeycreeper, *Cyanerpes cyaneus*
Scarlet-thighed Dacnis, *Dacnis venusta*
Blue Dacnis, *Dacnis cayana*
Bananaquit, *Coereba flaveola*
Yellow-faced Grassquit, *Tiaris olivaceous*
Variable Seedeater, *Sporophila corvina*
Yellow-bellied Seedeater, *Sporophila nigricollis*
Buff-throated Saltator, *Saltator maximus*

Young Boa Constrictor Eating Gray Tanager
(Photo by Howard)



Green Heron Drowns and Then Eats Swampsnake (Fire-bellied Snake)(Photo by Howard)



MAMMALS

Opposums - Didelphidae

Central American Woolly Opossum, *Caluromys derbianus*

Three-toed Sloths - Bradypodidae

Brown-throated Three-toed Sloth, *Bradypus variegatus*

Sac-winged Bats - Emballonuridae

Proboscis Bat, *Rhynchonycteris naso*

Leaf-nosed Bats - Phyllostomidae

Common Tent-making Bat, *Uroderma bilobatum*

Free-tailed Bats - Molossidae

Little Mastiff Bat, *Molossus molossus*

Tamarins/Marmosets - Callitrichidae

Geoffroy's Tamarin, *Sanguinus geoffroyi*

Night Monkeys - Aotidae

Panamanian (Western) Night Monkey, *Aotus zonalis*

Cebid Monkeys - Cebidae

White-faced Capuchin, *Cebus capucinus*

Howler Monkeys - Atelidae

Mantled Howler, *Alouatta palliata*

Squirrels - Sciuridae

Red-tailed Squirrel, *Sciurus granatensis*

Agoutis - Dasyproctidae

Central American Agouti, *Dasyprocta punctata*

Raccoons and Allies - Procyonidae

White-nosed Coati, *Nasua narica*



Kinkajou, *Potos flavus*

Proboscis Bats (Photo by Howard)



BioMuseo (Photo by Howard)

AMPHIBIANS AND REPTILES

Toads - Bufonidae

South American Common Toad, *Rhinella alata*

Cane Toad, *Rhinella marina*

Glass Frogs - Centrolenidae

Fleischmann's Glass Frog, *Hyalinobatrachium fleischmanni*

Fleshbelly Frogs - Craugastoridae

Banded Rain Frog, *Pristimantis taeniatus*

Dart Poison Frogs - Dendrobatidae

Rainforest (Striped) Rocket Frog, *Silverstoneia flotator*

Green-and-black Poison Frog, *Dendrobates auratus*

Talamancan Striped Frog, *Allobates talamancae*

Rain Frogs - Eleutherodactylidae

Common Dink Frog, *Diasporus diastema* (HO)

Treefrogs - Hylidae

Red-webbed (Canal Zone) Treefrog, *Hypsiboas rufitelus* or *Boana rufitela*

Sylvia's Tree Frog, *Cruziohyla sylviae*

Rosenberg's Gladiator Tree Frog, *Boana rosenbergi*

Foam Frogs - Leptodactylidae

Tungara Frog, *Engystomops pustulosus*

Savage's Thin-toed (Foam) Frog, *Leptodactylus savagei*

Pond Turtles - Emydidae

Meso-American Slider, *Trachemys venusta*

Casque-headed Lizards - Corytophanidae

Common Basilisk, *Basiliscus basiliscus*

Anoles - Dactyloidae

Water Anole, *Anolis aquaticus*

Slender Anole, *Anolis limifrons*

Iguanas - Iguanidae

Common Green Iguana, *Iguana iguana*

Geckos - Gekkonidae

Common House Gecko, *Hemidactylus frenatus*

Geckos - Phyllodactylidae

Turnip-tailed Gecko, *Thecadactylus rapicauda*

Geckos - Sphaerodactylidae

Yellow-headed Geckos, *Gonatodes albogularis*

Whiptails and Tegus - Teiidae

Central American Ameiva, *Holcosus festivus*

Boas — Boidae

Boa Constrictor, *Boa constrictor*

Colubrid Snakes - Colubridae

Banded Cat-eyed Snake, *Leptodeira annulata*

Swampsnake (Night Groundsnake, Fire-bellied Snake) — *Erythrolamprus epinephalus*

Crocodilians - Crocodylidae

Spectacled Caiman, *Caiman crocodilus*

American Crocodile, *Crocodylus acutus*



Sylvia's Tree Frog (Photo by Howard)



We Had a Great Time! (Photos by Howard)

Common Name	Genus	Species	Place	Date		
Emerald-patched Cattleheart	Parides	sesostris tarquinius	Canopy Tower	10/1/22		
Thoas Swallowtail	Papilio	thoas	Canopy Tower	9/30/22		
Cattleheart White	Archonias	brassolis	Canopy Tower	10/1/22		
Black-bordered White	Itaballia	demophile centralis	Canopy Tower	10/4/22		
Brown-bordered White	Itaballia	pandosa	Canopy Tower	10/3/22		
Apricot Sulphur	Phoebis	argante	Canopy Tower	10/4/22		
Statira Sulphur	Phoebis	statira	Canopy Tower	10/2/22		
Ambrax Hairstreak	Strephonota	ambrax	Canopy Tower	9/30/22		
Barne's Metalmark	Detritivora	barnesi	Canopy Lodge	10/6/22		
White-rayed Metalmark	Hades	noctula	Canopy Tower	10/2/22		
Green Longwing	Philaethria	dido panamen	Canopy Lodge	10/3/22		
Fine-lined (Least) Heliconian	Eueides	aliphera	Canopy Lodge	10/6/22		
Cydnio Longwing	Heliconius	cydnio	Canopy Lodge	10/6/22		
Sara Longwing (Heliconian)	Heliconius	sara	Canopy Lodge	10/7/22		
Hecale Longwing	Heliconius	hecale	Canopy Tower	10/3/22		
Crimson Patch	Chlosyne	janaia	Canopy Lodge	10/6/22		
Variable Crescent	Eresia	ithomioides	Canopy Lodge	10/5/22	David photo	
Pale-banded Crescent	Anthanasia	tulcis	Canopy Tower	10/3/22		
Orange-patched Crescent	Phyciodes	drusilla	Canopy Lodge	10/6/22		
Orange-patched Crescent	Phyciodes	drusilla	Canopy Tower	10/3/22		
Banded Peacock	Anartia	fatima	Canopy Tower	10/3/22		
Rusty-tipped Page	Siptota	epaphus	Canopy Lodge	10/6/22		
Malachite	Siproeta	stelenes	Canopy Lodge	10/3/22		
Spot-celled Sister	Adelpha	basiloides	Canopy Tower	9/30/22		
Erotia Sister	Adelpha	erotia	Canopy Tower	9/30/22		
Pale (Cell-spotted) Bluewing	Myscelia	leucocyna	Canopy Tower	10/2/22		
Blue-and-orange Eighty-eight	Callicore	tolima	Canopy Lodge	10/6/22		
Starry Cracker	Hamadryas	laodamia	Canopy Lodge	10/6/22	Female	
Graphic Beauty	Baeotus	beotus	Canopy Lodge	10/7/22		
Angled Leafwing	Anaea	glycerium	Canopy Tower	9/30/22		
Pale (Yellow-fronted) Owl-Butterfly	Caligo	telemionius	Canopy Lodge	10/8/22		
Banded (Gold-bordered) Owl-Butterfly	Caligo	atreus	Canopy Lodge	10/8/22	Deb Only	
Common Morpho	Morpho	helenor	Canopy Lodge	10/8/22		
Menelaus Morpho	Morpho	menelaus amathonte	Canopy Tower	10/4/22		
Blushing Phantom	Cithaerias	pireta pireta	Canopy Lodge	10/8/22		
Confused Satyr	Cissia	confusa	Canopy Tower	9/30/22		
Meta Satyr	Euptychia	meta	Canopy Tower	10/1/22		
White Satyr	Pareuptychia	ocirrhoe	Canopy Tower	10/1/22		
Renata Satyr	Ypthimoides	renata	Canopy Tower	10/4/22		
Heraldica Clearwing	Ithomia	heraldica	Canopy Lodge	10/8/22		
Virginiana Clearwing	Hypocada	virginiana	Canopy Lodge	10/6/22		
Subtle Scarlet-eye	Dyscophellus	ramusis	Canopy Lodge	10/5/22	David only	
Esmeralda Longtail	Urbanus	esmeraldus	Canopy Tower	10/1/22		
Plain Longtail	Urbanus	simplicius	Canopy Tower	10/4/22		
Brown Longtail	Urbanus	procne	Canopy Tower	10/4/22		
White-tailed Longtail	Urbanus	doryssus	Canopy Tower	10/3/22		
Great White Longtail	Urbanus	chalco	Canopy Tower	10/3/22		
Two-barred Flasher	Astraptes	fulgurator	Canopy Tower	9/30/22		
Sharp Banded-Skipper	Autochton	zarex	Canopy Tower	10/2/22	David photo	
Purplish-Tufted Skipper	Nisoniades	rubescens	Canopy Lodge	10/6/22		
Pale (Dingy) Mylon	Mylon	pelopidas	Canopy Tower	10/4/22		
Cleta Tufted-Skipper (White Eops)	Polycrator	cleta	Canopy Tower	10/4/22		
Golden-snouted Scallopwing	Staphylus	vulgata	Canopy Tower	10/3/22		
Central American Sootywing	Staphylus	ascalaphus	Canopy Tower	10/3/22		
Rain-forest Faceted-Skipper	Synapte	silius	Canopy Tower	10/2/22		
Nikko Skipper	Niconiades	nikko	Canal Zone	10/4/22		
Menes (Looped Flarewing) Skipper	Apaustus	menes	Canopy Lodge	10/6/22		
Alternate (Bell's) Ruby-eye	Talides	alternata	Canopy Tower	10/3/22		
Yellow-striped Ruby-eye	Dubiella	fiscella	Canopy Tower	10/1/22		
Pompeius Skipper	Pompeius	pompeius	Canopy Tower	10/3/22		
Brazilian Skipper	Calpodus	ethlius	Canopy Tower	10/2/22		
Hecebolus Skipper	Panoquina	hecebolus	Canopy Tower	10/2/22		

Butterfly list by Gerry Wolfe

