

# Panama's Butterflies (pre extension)

Naturetrek Tour Report

2nd – 8th October 2023

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Mantus Metalmark *Nymphidium mantus*



Crested Eagle



Imperial Moth *Eacles imperialis cacicus*



Rayed Sister *Adelpha melanthè*

Tour report and photos kindly supplied by Naturetrek clients John Chainey

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Tour participants: Tino Sánchez (leader) with two Naturetrek clients

## Day 1

**Monday 2nd October**

Our flight with KLM to Tocumen Airport was pleasantly uneventful. We landed late afternoon, and were greeted with heavy rain. After a short wait, we were picked up by the shuttle service run by the nearby Riande Airport Hotel, where we spent the first night.

## Day 2

**Tuesday 3rd October**

We were up at first light and were able to see a few birds from our hotel window, including a nice Yellow-crowned Parrot. After breakfast, we met up with Tino, who was to be our guide for our stay in the Darien. Tino explained that it would be a five-hour drive to the Canopy Camp, but that we would make a couple of stops on the way. After passing through much degraded habitat, our first stop was close to Lake Bayano, where the land owner protects a bit of forest. This site proved to be one of the best for butterflies of the whole trip; we only walked a short distance and in next to no time had seen over 30 species, of which several, including Erostratus Metalmark, Zebra-striped Hairstreak and Sky-blue Hairstreak, we were not to see again. A few birds were also seen, including a nice Black-tailed Trogon. The next stop was at the small town of Torti, where we took lunch while watching a Whooping Motmot and a Snowy-bellied Hummingbird. We also picked up Gregorio, who was to be our driver for our stay at the Camp. Just outside Torti we stopped by a grassy area where there was some butterfly activity, including several species of skipper. The Pan-American highway from there becomes badly potholed, but eventually we found ourselves at the delightful Canopy Camp with time to see some butterflies and hummingbirds in the grounds, which are set close to a protected area of forest. As we arrived I noticed a couple of large hawkmoths sat on the Camp's mothsheet, which boded well for night-time operations! After eating our tasty dinner and doing the first of our daily checklists with Tino, we settled into our spacious tent and set up our own moth light in hot and humid conditions.

## Day 3

**Wednesday 4th October**

A long night with the myriad of moths coming to both our light and the light run by the Camp! A spectacular Red-striped Leafwing also came to our light. After breakfast we set off for the road to El Salto, a well-known site for birds (as well as butterflies) that still has some accessible forest. A good variety of butterfly species were seen, topped by Glorious Blue-skipper. Other highlights included Rounded Banner, Dusky Owl-butterfly, Yellow-tipped Flasher and Green Flasher. During a lull in the butterflies, Tino recounted how he had whistled in a Crested Eagle while on a previous butterfly tour. I smiled through gritted teeth, inwardly thinking 'well, there's no way that kind of lightning is going to strike twice'...or could it? I think Tino was almost as shocked as I was when just a few whistles later a large raptor landed in a nearby tree, and there it was – a female dark phase Crested Eagle! A stunning bird, which gave prolonged views. It's difficult to walk away from a bird like that, but it was now approaching time to head back to the Camp for lunch and what was to become a customary spell of heavy rain. Later in the afternoon, we had a productive spell in the Camp grounds in sweltering conditions; the recently described (but unimaginatively named) New Beauty was a butterfly highlight, as was a Tiger Beauty. Another hot night beckoned with the moth lights!

## Day 4

Thursday 5th October

A minimum temperature of c25°C ensured a big catch at the lights. Our moth light produced a real monster of a moth this time in the form of *Arsenura batesii*. This morning we headed further east, first stopping at the entrance to an area owned by the Fundacion Tierra Nueva. Here there were a few butterflies on the roadside flowers, including a Striped Blue-skipper, though conditions were cloudy. A White-headed Wren was also noted. Further on towards Llaviza, we turned down a dirt road running through quite open areas, where we saw Red Peacock (a widespread species in South America, but at the edge of its range in eastern Panama); other nice butterflies included Two-eyed Eight-eight and Asine Longtail. We went back to the Camp for lunch and afterwards headed to nearby Sanson Abajo. Here we found the habitat to be very degraded, but a few nice butterflies were seen, including Elenia Hairstreak (a new one for Tino!); a Pearl Kite was also a nice find.

## Day 5

Friday 6th October

Another hot night, another big catch and another huge moth, this time *Titaea tamerlan*, of which there were two. This morning we headed for a wetland area, Laguna de Aruca (quite dry at this date). Butterflies proved to be rather thin on the ground here, though we did see the only Spineless Silverdrop of the trip. Fortunately, the birds more than made for this with views of Great Green Macaw, Capped Heron, a pair of Tropical Screech-owls and two Darien specialities in the form of Double-banded Graytail and White-eared Conebill. A very confiding Crane Hawk entertained us as it probed the top of a stump. Heavy rain cut short our planned walk along the forest trail back at the Camp in the afternoon, but we still saw a nice Almoda Skipper.

## Day 6

Saturday 7th October

It was another great night for moths, the highlight being the impressive Imperial Moth (*Eacles imperialis cacicus*)! Today was spent back on the El Salto Road, but further along than previously. Butterflies found included the stunning Mantus Metalmark (my favourite butterfly of the trip) and our only Godart's Ruby-eye, Seneca Ruby-eye and Widespread Bent-skipper. Black Oropendola and Black Antshrike were also seen thanks to Tino's whistling skills. At the end of the road is the river, where we had our packed lunch; a number of butterflies were visiting the mud here, including Giant Sicklewing. From this point a trail runs through the gallery forest – this gave us several more butterflies, including our only Dusky-blue Groundstreak, Isabella's Longwing and Glazed Tufted-skipper, and we also saw a Grey-cheeked Nunlet. Back at the Camp, the only Widespread Eight-eight of the trip was found in the open dining area.

## Day 7

Sunday 8th October

A final night's 'mothing' at the Camp was just as good as previously. Unfortunately, we had to leave quite early for logistical reasons around the Canopy operation. After the long drive, we arrived at the Tower for lunch, and were then able to relax, viewing butterflies and birds around the top of the Tower and at the new hummingbird platform, which was a hive of activity. The rest of the group arrived just as dark was falling. The moth lights were set up, including another brought with the group and the main tour was go!

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## Species lists

### Lepidoptera

Common name	Scientific name	
<b>PAPILIONINAE</b>		
Polydamas Swallowtail	<i>Battas polydamas</i>	Canopy Camp
Androgeus Swallowtail	<i>Heraclides androgeus</i>	Canopy Tower [pre-main tour]
Thoas Swallowtail	<i>Heraclides thoas</i>	El Salto Road; Canopy Camp; Llaviza; Lago Bayano
Anchises Cattleheart	<i>Parides anchises</i>	Canopy Camp
Green-celled Cattleheart	<i>Parides c. childrenae</i>	El Salto Road
Variable Cattleheart	<i>Parides erithalion smalli</i>	Canopy Camp
Emerald-patched Cattleheart	<i>Parides sesostris tarquinius</i>	El Salto Road; Canopy Camp; Canopy Lodge
<b>PIERIDAE</b>		
<b>COLIADINAE</b>		
White Yellow	<i>Eurema albula marginella</i>	Torti; El Salto Road; Llaviza; Sanson Abajo
Barred Yellow	<i>Eurema दौरا</i>	El Salto Road; Canopy Camp; Llaviza; Lago Bayano; Laguna de Aruca; Sanson Abajo
Orange Giant Sulphur	<i>Phoebis a. agarithe</i>	Canopy Camp
Orange-barred Sulphur – Llaviza	<i>Phoebis philia</i>	
Cloudless Sulphur	<i>Phoebis sennae marcellina</i>	Lago Bayano; Canopy Camp; Llaviza; Laguna de Aruca
Tailed Orange	<i>Pyrisitia proterpia</i>	El Salto Road; Llaviza; Lago Bayano; Laguna de Aruca; Sanson Abajo
Pale Yellow	<i>Pyrisitia venusta</i>	Torti; El Salto Road; Canopy Camp; Llaviza; Lago Bayano; Laguna de Aruca; Sanson Abajo
<b>PIERINAE</b>		
Great Southern White	<i>Ascia monuste</i>	Torti; Llaviza; Laguna de Aruca
Black-banded White	<i>Itaballia demophile centralis</i>	Lago Bayano; Llaviza; El Salto Road
Brown-banded White	<i>Itaballia pandosa sabata</i>	1, El Salto Road
<b>LYCAENIDAE</b>		

Common name	Scientific name	
<b>THECLINAE</b>		
Togarna Hairstreak	<i>Arawacus togarna</i>	2, El Salto Road
Dusky-blue Groundstreak	<i>Calycopis isobea</i>	E end of El Salto Road
Iaspis Hairstreak	<i>Iaspis sp</i>	1, El Salto Road
Zebra-striped Hairstreak	<i>Panhiades bathildis</i>	1, Lago Bayano
Sky-blue Hairstreak	<i>Pseudolycaena damo</i>	1, Lago Bayano
Ziba Scrub-Hairstreak	<i>Strymon ziba</i>	widespread
Elenia Hairstreak	<i>Thereus enenia</i>	1, Sanson Abajo
<b>POLYOMMATINAE</b>		
Hanno Blue	<i>Hemiargus hanno bogotana</i>	Torti; Sanson Abajo
<b>RIODINIDAE</b>		
<b>RIODININAE</b>		
Erostratus Metalmark	<i>Aricoris erostratus</i>	1, Lago Bayano
Sulphur Metalmark	<i>Baeotus sulphurea</i>	1, Sanson Abajo (Leader only)
Calephelis Metalmark	<i>Calephelis sp.</i>	Lago Bayano; Canopy Camp; El Salto Road
Luciana Metalmark	<i>Calospila l. luciana</i>	Lago Bayano; El Salto Road
Barnes' Metalmark	<i>Detritivora barnesi</i>	El Salto Road; Canopy Camp
Blind Eurybia	<i>Eurybia elvina</i>	1, Canopy Camp
Lagora Metalmark	<i>Leucochimona lagora</i>	E end of El Salto Road
Vestalis Metalmark	<i>Leucochimona vestalis leucogaea</i>	Canopy Camp; Sanson Abajo
Electron Metalmark	<i>Melanis electron</i>	1, Canopy Camp
Cell-barred Metalmark	<i>Mesene phareus</i>	1, Canopy Camp
Violet-washed Eyed-Metalmark	<i>Mesosemia t. telegone</i>	El Salto Road
Mantus Metalmark	<i>Nymphidium mantus</i>	1, El Salto Road
Tullius Metalmark	<i>Peropthalma tullius</i>	Canopy Camp; E end of El Salto Road
Simple Sarota	<i>Sarota acantus</i>	Canopy Camp
Lagus Metalmark	<i>Setabis lagus</i>	1, Canopy Tower [pre-main tour]
Blue-based Theope	<i>Theope virgilius</i>	1, Sanson Abajo
<b>NYMPHALIDAE</b>		
<b>BIBLIDINAE</b>		
Two-eyed Eighty-eight	<i>Callicore pitheas</i>	Llaviza; Laguna de Aruca
Mexican Banner	<i>Catonephele mexicana</i>	El Salto Road
Blue-frosted Banner	<i>Catonephele numilia esite</i>	El Salto Road
Widespread Eighty-eight	<i>Diaethria clymena</i>	1, Canopy Camp
Four-spotted Sailor	<i>Dynamine postverta mexicana</i>	El Salto Road; Laguna de Aruca
Crackerling, Northern Ectima	<i>Ectima erycinoides</i>	Lago Bayano; Laguna de Aruca
Red Cracker	<i>Hamadryas amphiomone mexicana</i>	Lago Bayano; Canopy Camp; El Salto Road; Laguna de Aruca
Grey Cracker	<i>Hamadryas februa ferentina</i>	Lago Bayano; Canopy Camp
Variable Cracker	<i>Hamadryas feronia farinulenta</i>	El Salto Road; Canopy Camp
(Starry Cracker	<i>Hamadryas laodamia</i>	Lago Bayano; Canopy Camp
Little Banner	<i>Nica flavilla canthara</i>	El Salto Road; Canopy Camp
Rounded Banner	<i>Pyrrhogyra crameri</i>	El Salto Road
Orange Banner	<i>Temenis laothoe hondurensis</i>	Canopy Camp; Laguna de Aruca

Common name	Scientific name	
<u>CHARAXINAE</u>		
White-spotted Prepona	<i>Archaeoprepona amphimachus</i>	Canopy Camp
One-spotted Prepona	<i>Archaeoprepona demophon centralis</i>	Canopy Camp
Two-spotted Prepona	<i>Archaeoprepona demophoon gulina</i>	Canopy Camp
Tiger-striped Leafwing	<i>Consul fabius</i>	1, El Salto Road
Ryphea Leafwing	<i>Fountainea ryphea</i>	1, Canopy Tower [pre-main tour]
Red-striped Leafwing	<i>Siderone galanthus</i>	1, Canopy Camp (at LED mothlight)
<u>CYRESTINAE</u>		
Many-banded Daggerwing	<i>Marpesia c. chiron</i>	Canopy Camp
<u>DANAINAE</u>		
Soldier / Queen	<i>Danaus eresimus / gilippus</i>	A fly-by at Llaviza could not be identified further]
Monarch	<i>Danaus plexippus</i>	Laguna de Aruca; Llaviza
Menapis Tigerwing	<i>Mechanitis menapis dariensis</i>	1, Llaviza
<u>HELICONIINAE</u>		
Spot-celled Sister	<i>Adelpha basiloides</i>	Lago Bayano; El Salto Road; Llaviza; Canopy Camp
Cytherea Sister	<i>Adelpha cytherea daguana</i>	El Salto Road; Sanson Abajo
Erotia Sister	<i>Adelpha e. erotia</i>	Canopy Camp; El Salto Road
Heraclea Sister	<i>Adelpha heraclea</i>	1, Canopy Camp; 1 Canopy Tower [pre-main tour]
Pointer Sister	<i>Adelpha i. iphiclus</i>	El Salto Road; Llaviza; Canopy Camp
Fundania Sister	<i>Adelpha malea fundania</i>	Llaviza; Canopy Camp
Rayed Sister	<i>Adelpha melanthe</i>	1, Canopy Camp
Messana Sister	<i>Adelpha messana</i>	1, El Salto Road
Massilia Sister	<i>Adelpha paraena massilia</i>	1, Sanson Abajo
Juno Longwing	<i>Dione juno huascuma</i>	Canopy Camp
Banded Longwing	<i>Dryadula phaetusa</i>	Llaviza
Julia	<i>Dryas julia moderata</i>	widespread
Fine-lined Longwing	<i>Eueides aliphera gracilis</i>	El Salto Road; Laguna de Aruca; Canopy Camp
Isabella's Longwing	<i>Eueides isabella eva</i>	El Salto Road
Mexican Fritillary	<i>Euptoieta hegesia meridiania</i>	Lago Bayano; El Salto Road; Laguna de Aruca
Crimson-patched Longwing	<i>Heliconius erato hydara</i>	widespread
Hecale Longwing	<i>Heliconius hecale melicerta</i>	widespread
Sara Longwing	<i>Heliconius sara</i>	Canopy Camp
Green Longwing	<i>Philaethria dido panamensis</i>	El Salto Road
<u>NYMPHALINAE</u>		
Red Peacock	<i>Anartia amathea</i>	Llaviza
Banded Peacock	<i>Anartia f. fatima</i>	widespread and common
White Peacock	<i>Anartia jatropha luteipicta</i>	Lago Bayano; Torti; Llaviza; Laguna de Aruca
Pale-banded Crescent	<i>Anthanassa tulcis</i>	Lago Bayano; Torti; El Salto Road; Laguna de Aruca
White-dotted Crescent	<i>Castilia ophella</i>	Canopy Camp; El Salto Road
Ezra Checkerspot	<i>Chlosyne ezra</i>	Lago Bayano; Sanson Abajo
Crimson-patch Checkerspot	<i>Chlosyne j. janais</i>	1, E end of El Salto Road
Bordered Patch	<i>Chlosyne lacinia</i>	widespread and common
New Beauty	<i>Colobura annulata</i>	1, Canopy Camp
Dirce Beauty	<i>Colobura d. dirce</i>	Canopy Camp; Laguna de Aruca
Eunice Crescent	<i>Eresia eunice</i>	Canopy Camp

Common name	Scientific name	
Orion Cecropian	<i>Historis odius</i>	Lago Bayano; Canopy Camp (including at the moth lights)
Whitened Crescent	<i>Janatella leucodesma</i>	Lago Bayano
Tropical Buckeye	<i>Junonia evarete</i>	Lago Bayano; Torti; El Salto Road; Lago de Aruca
Malachite	<i>Sipreota stelenes biplagiata</i>	Lago Bayano; Canopy Camp
Tiger Beauty	<i>Tigridia acesa</i>	Canopy Camp
<b>SATYRINAE</b>		
Dusky Owl-Butterfly	<i>Caligo illioneus oberon</i>	El Salto Road
Pale Owl-Butterfly	<i>Caligo telamonius menus</i>	Canopy Camp (including at moth light)
Plain Satyr	<i>Cissia pompilia</i>	Canopy Camp; Llaviza; Laguna de Aruca; El Salto Road
Westwood's Satyr	<i>Euptychia w. westwoodi</i>	Canopy Camp
Hermes Satyr	<i>Hermeuptychia hermes</i>	widespread and common. One of the commonest butterflies, but the Butterflies of America website implies that this species is not found in Panama, leaving their identity uncertain; <i>H. harmonia</i> (Harmonia Satyr) would appear to be a better bet on distribution grounds
Blue-grey Satyr	<i>Magneuptychia libye</i>	Llaviza; El Salto Road
Common Morpho	<i>Morpho helenor</i>	Canopy Camp; El Salto Road
Split-banded Owl-Butterfly	<i>Opsiphanes cassiina</i>	Canopy Camp
Scalloped Owl-butterfly	<i>Opsiphanes quiteria</i>	Lago Bayano; Canopy Camp (including at moth light)
Narrow-banded Owl-butterfly	<i>Opsiphanes tamarindi</i>	1, Canopy Camp
White Satyr	<i>Pareuptychia ocirrhoe</i>	El Salto Road; Laguna de Aruca
Red-washed Satyr	<i>Pierella helvina</i>	1, Canopy Tower [pre-main tour]
Moon Satyr	<i>Pierella l. luna</i>	Canopy Camp
Celia Satyr	<i>Pseudodebis celia</i>	El Salto Road
Thamyra Satyr	<i>Taygetis thamyra</i>	El Salto Road
Renata Satyr	<i>Yphthimoides renata</i>	Canopy Camp; Laguna de Aruca
<b>HESPERIIDAE</b>		
<b>EUDAMINAE</b>		
Yellow-tipped Flasher	<i>Astraptes anaphus</i>	El Salto Road
Small-spotted Flasher	<i>Astraptes egregius</i>	El Salto Road
White-spotted Flasher	<i>Astraptes enotrus</i>	El Salto Road
Green Flasher	<i>Astraptes talus</i>	El Salto Road
Spike Banded-Skipper	<i>Autochton longipennis</i>	El Salto Road
Dark-cheeked Scarlet-eye	<i>Bungalotis astylos</i>	2, Canopy Camp (at moth lights)
Mimosa Skipper	<i>Cogia calchas</i>	Lago Bayano; El Salto Road; Canopy Camp
Big-spotted Scarlet-eye	<i>Dyscophellus phraxanor</i>	1, Canopy Tower [pre-main tour]
Spineless Silverdrop	<i>Epargyreus aspina</i>	Laguna de Aruca
Broken Silverdrop	<i>Epargyreus exadeus cruzi</i>	Canopy Camp
Dimorphic Skipper	<i>Hyalothyrus neleus pemphigargyra</i>	Canopy Camp
Asine Longtail	<i>Polythris asine</i>	Llaviza
Great White Longtail	<i>Urbanus chalco</i>	Canopy Camp; El Salto Road
Dorantes Longtail	<i>Urbanus dorantes</i>	Lago Bayano; Sanson Abajo
Esmal Longtail	<i>Urbanus esma</i>	El Salto Road
Esmeralda Longtail	<i>Urbanus esmeraldus</i>	Canopy Camp
Brown longtail	<i>Urbanus procne</i>	Lago Bayano; Llaviza; Laguna de Aruca; El Salto Road
Plain Longtail	<i>Urbanus simplicius</i>	Lago Bayano; Laguna de Aruca; El Salto Road
Tanna Longtail	<i>Urbanus tanna</i>	Lago Bayano; Canopy Camp; El Salto Road
<b>HESPERIINAE</b>		
Dyson's Silverpatch	<i>Aides dysoni</i>	El Salto Road
Trailside Skipper	<i>Anthoptus epictetus</i>	entrance to Fundacion Tierra Nueva
Trinidadian Skipper	<i>Anthoptus maracanae</i>	Laguna de Aruca; El Salto Road

Common name	Scientific name	
Juventus Skipper	<i>Callimormus juvenus</i>	El Salto Road
Brazilian Skipper	<i>Calpododes ethlius</i>	Llaviza; Laguna de Aruca; El Salto Road
Basoches Ruby-eye	<i>Carystoides basoches</i>	Canopy Camp
Lebbaeus Ruby-eye	<i>Carystoides lebbaeus</i>	Canopy Camp
Lila Ruby-eye	<i>Carystoides lila</i>	Canopy Camp; El Salto Road
Southern Skipperling	<i>Copaeodes minmia</i>	Torti; Laguna de Aruca
Alumna Skipper	<i>Cymaenes alumna</i>	El Salto Road; Sanson Abajo
Violet-washed Skipper	<i>Damas clavus</i>	El Salto Road
Fiery Skipper	<i>Hylephila p. phyleus</i>	Torti
Godart's Ruby-eye	<i>Lycas godart</i>	El Salto Road
Julia's Skipper	<i>Nastra julia</i>	Canopy Camp
Vatinius Skipper	<i>Orphe vatinius</i>	El Salto Road
Purple-washed Skipper	<i>Panoquina lucas</i>	Laguna de Aruca
Decora Skipper	<i>Parphorus decora</i>	El Salto Road
Green-backed Ruby-eye	<i>Perichares adela</i>	Llaviza
Seneca Ruby-eye	<i>Perichares seneca</i>	El Salto Road
Almoda Skipper	<i>Phanes almoda</i>	1, Canopy Camp trail
Common Glassywing	<i>Pompeius pompeius</i>	Torti; El Salto Road; Llaviza; Laguna de Aruca
Canna Skipper	<i>Quinta cannae</i>	Canopy Camp
Rita's Remella	<i>Remella rita</i>	El Salto Road
Perching Saliana	<i>Saliana e. esperi</i>	El Salto Road
Morsa Saliana	<i>Saliana morsa</i>	El Salto Road
Sergestus Ruby-eye	<i>Talides sergestus</i>	El Salto Road
Smear-spotted Skipper	<i>Xeniades orchamus</i>	El Salto Road
<b>PYRGINAE</b>		
Giant Sicklewing	<i>Achlyodes busirus</i>	E end of El Salto Road
Common Spurwing	<i>Antigonus erosus</i>	Lago Bayano; Llaviza; El Salto Road
Eligius Flat	<i>Celaenorrhinus eligius</i>	Canopy Camp; El Salto Road
Widespread Bent-skipper	<i>Cycloglypha thrasibulus</i>	El Salto Road
Southern Sicklewing	<i>Eantis thraso</i>	El Salto Road; Laguna de Aruca
Common Bent-skipper	<i>Ebrietas anacreon</i>	El Salto Road
Variiegated Skipper	<i>Gorgythion begga</i>	Canopy Camp; Sanson Abajo
Alana White-skipper	<i>Heliopetes alana</i>	El Salto Road
Veined White-Skipper	<i>Heliopetes arsalte</i>	Lago Bayano; El Salto Road; Llaviza; Sanson Abajo
Pale Mylon	<i>Mylon pelopidas</i>	E end of El Salto Road
Glorious Blue-Skipper	<i>Paches l. loxus</i>	El Salto Road
Glazed Tufted-skipper	<i>Pellicia arina</i>	El Salto Road
Polyctor Tufted-skipper	<i>Polyctor polyctor</i>	1, Canopy Tower [pre-main tour]
Central American Checkered-skipper	<i>Pyrgus adeptus</i>	Torti
Tropical Chequered Skipper	<i>Pyrgus oileus</i>	widespread and common
Orcus Chequered Skipper	<i>Pyrgus orcus</i>	widespread and common
Striped Blue-Skipper	<i>Quadrus c. contubernalis</i>	entrance to Fundacion Tierra Nueva
Central American Sootywing	<i>Staphylus ascalaphus</i>	El Salto Road; Sanson Abajo
Golden-snouted Sootywing	<i>Staphylus vulgata</i>	El Salto Road; Laguna de Aruca; Canopy Camp
Satyr Skipper	<i>Timochreon satyrus</i>	Lago Bayano
Glassy-winged Skipper	<i>Xenophanes tryxus</i>	Lago Bayano; Llaviza
<b>HEDYLIDAE</b>		
N.B. Some recent studies favour treating Hedyliidae as butterflies		
An 'American Moth-butterfly'	<i>Macroaoma rubedinaria</i>	1 at the mothlights
An 'American Moth-butterfly'	<i>Macrosoma semiermis</i>	1 at the mothlights



Common name	Scientific name	
References used:		
Butterflies of America website		
Glassberg, J., 2017. A Swift Guide to Butterflies of Mexico and Central America. 2nd Ed., 304p, Princeton.		
<b>Moths</b>		
As well a few day-flying moths, literally hundreds more species came to the moth lights. Even with modern websites, the naming many of these is something of a challenge (even for the large and distinctive-looking!), but some of the more spectacular species are listed below: The website <a href="http://tropicleps.ch">tropicleps.ch</a> is a useful start point. Note that many species do not have an English name.		
<b>SATURNIIDAE</b>		
<u>Arsenurinae</u>		
	<i>Arsenura batesii arcaei</i>	1 Canopy Camp LED
	<i>Rhescyntis hippodamia norax</i>	1 Canopy Camp mothlights
	<i>Titaea tamerlan</i>	2 Canopy Camp LED
<u>Ceratocampinae</u>		
	<i>Adeloneivaia subangulata</i>	several Canopy Camp mothlights
	<i>Citheronia lobesis</i>	Canopy Camp mothlights
Imperial Moth	<i>Eacles imperialis cacicus</i>	1 Canopy Camp LED
	<i>Ptiloscola dargei</i>	Canopy Camp mothlights
	<i>Syssphinx quadrilineata</i>	Canopy Camp mothlights
<u>Hemileucinae</u>		
	<i>Automeris cf. illustris</i>	Canopy Camp mothlights
	<i>Automeris jucunda</i>	Canopy Camp mothlights
	<i>Automeris cf. postalbida</i>	Canopy Camp mothlights
	<i>Molippa cf. latpanamana</i>	Canopy Camp mothlights
	<i>Molippa simillima</i>	Canopy Camp mothlights
	<i>Pseudodirphia regia</i>	Canopy Camp mothlights
<u>Oxyteninae</u>		
	<i>Homoeopteryx malecana</i>	1 found in Canopy Tower ahead of main tour
	<i>Oxytenis cf leda</i>	Canopy Camp mothlights
	<i>Oxytenis modestia</i>	Canopy Camp mothlights
	<i>Oxytenis naemia</i>	Canopy Camp mothlights
	<i>Therinia transversaria</i>	Canopy Camp mothlights
<u>Saturniinae</u>		
	<i>Copaxa decrescens</i>	Canopy Camp mothlights
<b>SPHINGIDAE</b>		
<u>Macroglossinae</u>		
	<i>Enyo gorgon</i>	Canopy Camp mothlights
Swift-winged Sphinx	<i>Enyo ocypete</i>	Canopy Camp mothlights
Satellite Sphinx	<i>Eumorpha satellitia</i>	Canopy Camp mothlights
Vine Sphinx	<i>Eumorpha vitis</i>	Canopy Camp mothlights
	<i>Nyceryx coffaeae</i>	Canopy Camp mothlights
Fig Sphinx	<i>Pachylia ficus</i>	1 Canopy Camp mothlights
Half-blind Sphinx	<i>Perigonia lusca</i>	1 Canopy Camp mothlights

Common name	Scientific name	
<u>Smerinthinae</u>		
	<i>Adhemarius cf. fulvescens</i> and/or <i>gannascus</i>	Canopy Camp mothlights
Streaked Sphinx	<i>Protambulyx strigilis</i>	Canopy Camp mothlights; also 1 found dead Canopy Tower prior to main tour
<u>Sphinginae</u>		
	<i>Manduca hannibal</i>	Canopy Camp mothlights
	<i>Manduca schausi</i>	Canopy Camp mothlights
<b>URANIIDAE</b>		
<u>Uraniinae</u>		
Urania Swallowtail Moth	<i>Urania fulgens</i>	Canopy Camp mothlights and by day Llaviza

### Birds and Mammals noted

Species	Location and notes
Great Tinamou	heard, Canopy Camp
Little Tinamou	heard, Canopy Camp
Black-bellied Whistling-duck	Llaviza; Laguna de Aruca
Grey-headed Chachalaca	heard, Canopy Camp
Great Potoo	1, Canopy Camp
White-necked Jacobin	daily at Canopy Camp feeders
Rufous-breasted Hermit	1, El Salto road
Pale-bellied Hermit	daily at Canopy Camp feeders
Stripe-throated Hermit	El Salto road
Long-billed Starthroat	daily at Canopy Camp feeders
White-vented Plumeteer	daily at Canopy Camp feeders
Scaly-breasted Hummingbird	daily at Canopy Camp feeders
Snowy-bellied Hummingbird	1 at feeder, Torti
Rufous-tailed Hummingbird	daily at Canopy Camp feeders; also Lago Bayano
Sapphire-throated Hummingbird	daily at Canopy Camp feeders
Blue-chested Hummingbird	daily at Canopy Camp feeders
Violet-bellied Hummingbird	1, Canopy Camp feeders
Purple Gallinule	Llaviza
Limpkin	Lago Bayano; Llaviza
Southern Lapwing	Laguna de Aruca; also en route from Torti to Panama City
Wood Stork	El Salto road
Magnificent Frigatebird	Laguna de Aruca
Anhinga	1, Lago Bayano
Neotropic Cormorant	Lago Bayano
Rufescent Tiger-heron	Laguna de Aruca
Cocoi Heron	Lago Bayano
Great Egret	Laguna de Aruca

<b>Species</b>	<b>Location and notes</b>
Snowy Egret	Laguna de Aruca
Little Blue Heron	Lago Bayano; Llaviza; Lagune de Aruca
Cattle Egret	Laguna de Aruca; also on route from Panama City
Striated Heron	Lago Bayano; Laguna de Aruca
Capped Heron	Laguna de Aruca
Black Vulture	very common
Turkey Vulture	widespread but far less common than Black Vulture
Lesser Yellow-headed Vulture	1, Llaviza
Pearl Kite	1, Sanson Abajo
Crested Eagle	female dark morph, El Salto road
Black Hawk-eagle	1, El Salto road
Mississippi Kite	Canopy Camp (on passage)
Crane Hawk	1, Laguna de Aruca; 1, El Salto road
Savannah Hawk	El Salto road (on passage)
Roadside Hawk	widespread
Grey-lined Hawk	1, Llaviza; 1, Laguna de Aruca
Broad-winged Hawk	abundant on passage
Tropical Screech-owl	a pair by day at Laguna de Aruca
Crested Owl	heard, Canopy Camp
Mottled Owl	heard, Canopy Camp
Black-tailed Trogon	1, Lago Bayano; heard, Canopy Camp
Whooping Motmot	1, Torti; 2, Canopy Camp; El Salto road
Ringed Kingfisher	1, Lago Bayano
Grey-cheeked Nunlet	1, east end of El Salto road
Collared Aracari	Canopy Camp; El Salto road; also on route from Panama City
Keel-billed Toucan	Canopy Camp
Yellow-throated Toucan	Canopy Camp
Olivaceous Piculet	1, Canopy Camp
Red-crowned Woodpecker	Sanson Abajo; Canopy Camp
Red-rumped Woodpecker	1, Canopy Camp
Spot-breasted Woodpecker	2, Laguna de Aruca
Lineated Woodpecker	Lago Bayano; Canopy Camp
Crimson-crested Woodpecker	Sanson Abajo; El Salto road
Laughing Falcon	heard, El Salto road
Collared Forest-falcon	heard, El Salto road
Yellow-headed Caracara	widespread
Bat Falcon	1, Laguna de Aruca
Chestnut-fronted Macaw	2, entrance to Fundation Tierra Nueva
Great Green Macaw	2, Laguna de Aruca
Orange-chinned Parakeet	Riande Airport Hotel; Laguna de Aruca
Red-lored Parrot	widespread

<b>Species</b>	<b>Location and notes</b>
Mealy Parrot	Canopy Camp; El Salto road
Golden-collared Manakin	Canopy Camp
Purple-throated Fruitcrow	Canopy Camp
Blue Cotinga	2, El Salto road
Masked Tityra	Sanson Abajo
White-winged Becard	Laguna de Aruca
Ochre-ored Flycatcher	El Salto road
Yellow-bellied Elaenia	Lago Bayano
Bright-rumped Attila	heard, Canopy Camp
Great Kiskadee	heard, Laguna de Aruca
Boat-billed Flycatcher	Canopy Camp; Sanson Abajo
Rusty-margined Flycatcher	Lago Bayano; Laguna de Aruca
Streaked Flycatcher	Canopy Camp; Sanson Abajo; Laguna de Aruca
Tropical Kingbird	widespread
Fork-tailed Flycatcher	2 on route to Panama City
Eastern Wood-pewee	Canopy Camp; El Salto road
Long-tailed Tyrant	El Salto road
Great Antshrike	heard, Sanson Abajo
Barred Antshrike	Lago Bayano
Black Antshrike	1, El Salto road
Dusky Antbird	2, El Salto road
Chestnut-backed Antbird	heard, El Salto road
Black-faced Antthrush	heard, Canopy Camp
Plain Brown Woodcreeper	heard, Canopy Camp
Cocoa Woodcreeper	heard, Canopy Camp
Red-billed Scythebill	1, Canopy Camp
Streak-headed Woodcreeper	Laguna de Aruca
Double-banded Greytail	1, Laguna de Aruca
Red-eyed Vireo	Canopy Camp
Black-chested Jay	El Salto road
Grey-breasted Martin	Torti; Laguna de Aruca
White-headed Wren	1, entrance to Fundation Tierra Nueva
Black-bellied Wren	El Salto road
Buff-breasted Wren	El Salto road
White-breasted Wood-wren	1, El Salto road
Tropical Mockingbird	Riande Airport Hotel; Laguna de Aruca
Swainson's Thrush	Canopy Camp
Clay-coloured Thrush	1, Riande Airport Hotel, Tocumen airport
House Sparrow	on route from Panama City
Thick-billed Euphonia	Canopy Camp
Red-breasted Meadowlark	Laguna de Aruca

<b>Species</b>	<b>Location and notes</b>
Crested Oropendola	Canopy Camp
Chestnut-headed Oropendola	Canopy Camp
Black Oropendola	1, El Salto road
Yellow-backed Oriole	1, El Salto road
Great-tailed Grackle	common on route from Panama City
Carib Grackle	seen on route from Panama City
Northern Waterthrush	Canopy Camp; east end of El Salto road
Black-and-white Warbler	Canopy Camp
Yellow Warbler	Canopy Camp; Sanson Abajo; Laguna de Aruca
Blue-grey Tanager	Torti; Laguna de Aruca
Palm Tanager	Riande Airport Hotel; Canopy Camp
Plain-coloured Tanager	Canopy Camp
White-eared Conebill	1, Laguna de Aruca
Blue-black Grassquit	Llaviza; Laguna de Aruca
White-shouldered Tanager	El Salto road
Crimson-backed Tanager	Canopy Camp; Llaviza
Bananaquit	daily at Canopy Camp feeders
Thick-billed Seed-finch	1, Lago Bayano
Variable Seedeater	Lago Bayano; Laguna de Aruca
Cinnamon-bellied Saltator	Llaviza
<b>MAMMALS</b>	
Northern Tamandua	a freshly dead one along the Pan-American Highway
Geoffroy's Tamarin	Canopy Camp grounds, regularly coming to feeders
White-faced Capuchin	Canopy Camp grounds
Mantled Howler Monkey	Laguna de Aruca
Red-tailed Squirrel	Canopy Camp grounds
Central American Agouti	Canopy Camp grounds
White-nosed Coati	Canopy Camp grounds