# BIRDS, MAMMALS, AMPHIBIANS and REPTILES seen in Sarawak and Sabah, Borneo March 19 – April 6 2018

#### **Stefan Lithner**



Probiscis Monkey Photo Stefan © Lithner

This trip was arranged as a bird trip by BirdtourASIA http://www.birdtourasia.com/borneo2018.html .

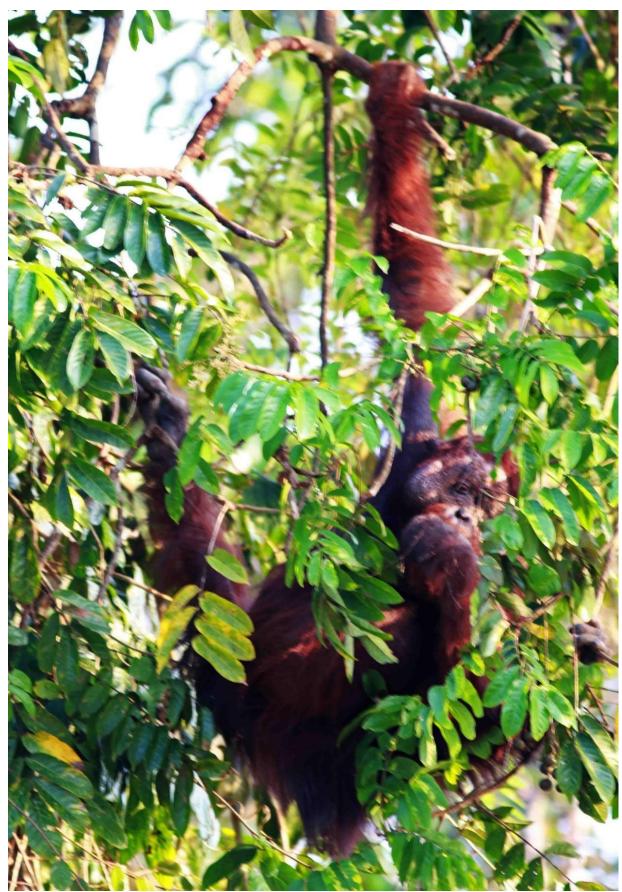
The Sarawak part was conducted by MrYeo Siew Teck (Yeo) and the Sabah part was conducted by Mr Wilbur Goh (Wilbur).

Participants were Pamela Hodgson (Pamela), David Graham (David), Stefan Lithner (Stefan), William Schweber (Bill), Neil Davis (Neil) and Lisa Holtzapfel (Lisa).

A full report with Itinerary and birds in detail is available on <a href="http://birdtourasia.com/pdf%20Reports/Birdtour%20Asia%20Borneo%202018.pdf">http://birdtourasia.com/pdf%20Reports/Birdtour%20Asia%20Borneo%202018.pdf</a>

Itinerary in short: Kota Kinabalu – Klias Forest Reserve (peat swamp close to the Border between Sarawak and Sabah) - Oriole Camp Site (Sarawak) - Kelabit Highlands - Klias Forest Reserve (second time) – Kota Kinabalu – Tambunan - (Crocker Range Park) - Kinabalu National Park (including: Timphon Gate – Pouring Hot Springs) - Sepilok – Gomantong Caves – Kinabatangan River – Danum Valley – Kota Kinabalu.

# $M\ A\ M\ M\ A\ L\ S$



Bornean Urang-utan Photo Stefan © Lithner

Species presented in order as in Phillips Q. and Phillips K: Philipps Field Guide to the Mammals of Borneo. References to the book will be used as Phillipps.

## BATS SEEN

According to Phillipps Borneo holds at least 81 species of bats. Two are fruit bats and 79+ are more or less insectivorus bats.

Only very few of them show features rendering us to determine their specie, unless caught or studied/photographed roosting.

Two species I believe I have been able to identify, partly with help of local ranger, thanks to white on their wings. One because of roosting habits and the abundant Asian Wrinlke-lipped Bat

#### **Pouched Tomb Bat**

Saccolaimus saccolaimus

In the evening of March 31<sup>st</sup> at Borneo Echo Lodge of Kinabatangan River I was overflown by a rather large insectivorus bat revealing a wing-pattern strongly reminiscent of those of Sabine's Gull (*Xema sabini*) and adult winter White-cheeked Tern (*Sterna repressa*) i.e. with white/whitish keels from the rear of forearm towards thumb. Phillipps reveal only one species with this feature; *S. saccolaimus* p 114: 1:d and

 $\frac{\text{https://www.google.se/search?source=hp\&ei=ERfXWombOMutsAG9v4LQDw\&q=saccolaimus+saccolaimus+images\&oq=saccolaimus+saccolaimus+images\&gs\_l=psy-ab.3..35i39k1.1077.11592.0.12818.31.30.0.0.0.0.141.1745.29j1.30.0....0...1c.1.64.psyab...1.30.1742.0..0j0i131k1j0i203k1j0i10i203k1j0i30k1j0i5i30k1.0.-A1Ae-4SSd0 This species is common throughout lowlands of Borneo.}$ 

# Vordemann's Pipistrelle

Hypsugo vordemanni

During spotlighting on foot in the evening of April 3<sup>rd</sup> my accompanying ranger Henry asked me if I had seen the pipistrelle with white wings, which I saw before daybreak the same day. He told me those were Vordemann's Pipistrelle. My observation does not oppose his statement.

# **Asian Whiskered Myotis**

## Myotis muricola

During mammal-search together with ranger Henry in in the garden of Danum Valley Rainforest Lodge asked me whether I had seen the neat little *Myotis* roosting in banana leaves. I had seen some tiny bats flying around the lodge which had dark wings, but not until the morning of April 6<sup>th</sup> I found one roosting.

# **Asian Wrinkle-lipped Bat**

Tadarida plicata

At Gomanyong Caves in the evening of Mar 31<sup>st</sup> most of the participants were able to see a huge stream of bats leaving the caves at a fair distance off gthe ground. The abundance of bats leaving these cave has previously been estimated to "at least two millions", and the vast majority of these being Asian Wrinkle-lipped Bat.

Hairy-winged Bat highly plausible Harpiocephalus harpa

During spotlighting on foot in the evening of April 3<sup>rd</sup> in the garden of Danum Valley Rainforest Lodge my accompanying ranger Henry and I saw a bright orange bat hanging freely from a tiny twig about <sup>3</sup>/<sub>4</sub> of a meter above the ground looking like an orange ready to harvest, surrounded by no cover at all. It was a medium sized bat. It reminded me sizewise

of the *Scotophilus kuhlii* which I have seen twice. Its ears were just barely protruded out of the pelage. When taking off is wings looked very pale, nearly pinkish with an orange tinge. Turning pages in Phillipps' book, only the Hairy-winged Bat (*H. harpa*) shows such bright orange pelage. Other bats also being orange, but to a lesser extent exist. According to Phillipps' sbook the second most orange bat is Orange Tube-nosed Bat (*Murina peninsularis*). Returned from the trip I googled on all bats in Phillipps' book (2008) with an orange tinge. None of the alternatives (i. e. except *H.* harpa) show such bright orange pelage as the bat we saw.

*H. harpa* also is in size similar to *S. kuhlii*. which speaks against the *Marina*-bats. Phillipps book reveals *U. harpa* is a rare bat to Borneo (2008), but has been registered in Sabah (Tawau and Sepilok). I find no better suggestion for this bat.

During our hike towards M.t Kinabalu Pouring Hot Springs Mars 29<sup>th</sup> we had just passed a second wading-site on our hike towards the hot springs when we passed a limestone arcade only about 25 metres from the path. Here we saw a number of bats, however not accessible unless you were prepared to leave the bird-expedition for some time, which I did not. Our BirdingAsia guide Wilbur asked a ranger about what species they might be, and found out that the commonest bat in the park is **Fawn Roundleaf Bat** (*Hipposideros cervinus*), but **Cantor's Roundleaf Bat** (*Hipposideros galeritus*) is also fairly common here. The bats were not assessed to species at the sight. Photos were taken which show two species. One slightly larger, dark or very dark brown, and one slightly smaller of which some individuals were "fawn-coloured". Photos are not good enough to assess species but strongly support the two species mentioned above.

## BATS RECORDED

In the evening of April 1<sup>st</sup> at Borneo Eco Lodge of Kinabatangan River I made some recordings with my Pettersson D 240x ultra sound bat detector. When returning home I analyzed the recordings with Pettersson BatSound version 4.03. Our Birdtour Asia guide Wilbur collected a list of bats known from Gomantong Caves (GC-list) about 20 km from the site and with similar habitat. I also received help to analyze the recordings from Ellen Mc Arthur (EMA) (Research and Community Education Officer Mulu World Heritage Borsarmulu Park Management SDN BHD) and Chris Corben (Anabat). I made 15 recordings successfully.

The Lodge-list obtained contains 15 species.

EMA's analysis suggest *Myotis horsfieldi* (rec no 14 n 15) but also stresses it could be another *Myotis*. The GC-list contains only one *Myotis: M. gomantongensis*. My analysis does not support the latter.

EMA's analysis suggest *Emballonura alecto* or *monticola* (rec no 13). The GC-list contains no *Emballonura*.

EMA's analysis suggest *Miniopterus australis*. **Lesser Bent-winged Bat** (rec no 4 n 10) The GC-list contains: *M. magnater*. My analyse supports *australis*.

## Bornean Shrew Suncus hosei

M.t Kinabalu Pourung Hot Springs Mar 29<sup>th</sup>; The hike to the main Waterfalls is about 5 km. We did not walk all the way up there. On our walk back towards the entrance we had just passed one of the smaller waterfalls when a tiny shrew slipped into a crevice about half a meter in front of me. Size, short tail, relative tail-length, colour of pelage on back and colour of tail made it easy to identify. Bornean Shrew/Hose's Pygmy Shrew was split from Savi's

Pygmy Shrew *Suncus savi* by Hunterer Wilson and Reender2005. According to Phillipps the shrew is locally common in virgin lowland dipterocarp forest up to 800 metres a.s.l. in Crocker Mountains.

## **Pen-tailed Treeshrew**

Ptilocercus lowii

M:t Kinabalu along Bukit Ular (Trail) at about 1750 metres a.s.l. The animal was seen trotting on a branch in the canopy about 30 metres above the ground. The observers (David et al) saw the animal raising its tail vertically as it turned om the branch and trotted back to where it was first spotted.

## Lesser (Pygmy) Treeshrew

Tupaia minor

One was seen in Poring HotspringsNational Park near the entrance garden in the morning of March 29<sup>th</sup> and one was seen in Danum Valley near the road to Rain Forest Lodge Apr 3<sup>rd</sup> in submontane disturbed forest.

Lesser Treeshrew is by features easily confused with *T. gracislis* (see below). According to our two gudes Ye iand Wilbur, the habit is probably the best sign separating the two species.

#### **Slender Treeshrew**

Tamiops gracilis

Two were seen in Sarawak, near Black Oriole Campsite Mar 21st

## **Mountain Treeshrew**

Tupaia montana

One was seen in M:t Kinabalu National Park in the morning of March 27<sup>th</sup>.

#### **Smooth-tailed Treeshrew**

Dendrohgale melanura

Driving from Long Tivo to Bakalalan March <sup>22nd</sup> at the altitude of about 1300 metres a.s.l, about ten minutes before reaching Bukit Demaring (the lookout), while climbing slowly up the muddy clay road, a Smooth-tailed Treeshrew made its way across. It was spotted about 20 metres from us and was only about five meteres from us when it reached the right side of the road.

Its size, tail, relative tail-length, and above all its very special tail beginning with a massive base evenly tapered all the way into nearly a needle-sharp looking point offers only one alternative when studying Phillips book, as well as illustratins on the internet after returning home.

This species is rare, local, arboreal, endemic declining in population. In a report by Coolidge et al.

1940 it was known in Sabah from Kinabalu and Crocker Range, and in Sarawak from M:t Dulit, M:t Murud and M:t Mulu. Efforts to assess the species abundance in later years have not found it using terrestrial traps. According to Yeo the closest site to Bukit Demaring is M:t Murud about 30 km away as the crow flies.

## **Bornean Colugo**

Galeopterus (variegauts) borneanus

One was encountered during spotlighting conducted by the staff of Danaum Valley Rainforest Lodge for Birdtour Asia April 3<sup>rd</sup>.

This taxon's status is currently debated. Janečka et al. (2008) investigated genetic variation in this broadly distributed species. Based on results from both mitochondrial and nuclear genetic loci, in combination with morphological analyses, argue that mainland, Javan, and Bornean colugo subspecies may be better recognized as distinct species rather than as subspecies within a single species. (Janečka et al. 2008).

http://eol.org/pages/1040858/hierarchy entries/59755437/details





Bornean Colugo

Photo Stefan © Lithner

Maroon Leaf Monkey

Photo Stefan © Lithner

#### **Bornean Loris**

Nycticebus borneanus

During spotlighting conducted by the staff of Danaum Valley Rainforest Lodge for Birdtour Asia April 3<sup>rd</sup> one was encountered.

Maroon Leaf Monkey (Red Leaf Monkey, Maroon Sureli) Presbytes rubicauda At Gomantong Caves Mar 31st Two were seen, one along the walkway to the caves and another one at the lookout for evening bat-departure from the caves. In Danum Valley along the road to Rainforest Lodge a family was encountered crossing the road Apr 3<sup>rd</sup>.

**Grey Leaf Monkey** (Hose's Grey Langur) Presbytes hosei Heard Sarawak near Black Oriole Camp in the morning of Mar 22<sup>nd</sup> (Det. Siew) and one seen during boat-ride on Kinabatangan River Mar 31st.

## **Sunda Silvered Leaf Monkey**

Trachypithecus cristatus

At least two were seen at Kinabatangan River in the evening of Mar 31st, and one seen on April 1<sup>st</sup>.





Maroon Leaf Monkey

Photo Stefan © Lithner

Sunda Silvered Leaf Monkey

Photo Stefan © Lithner

# **Proboscis Monkey**

Nasalis larvatus

Along Kinabantan River and tribunaries several families were seen at dawn and dusk March 31<sup>st</sup>, April 1<sup>st</sup>.

**Long-tailed Macaque** (Crab-eating Macaque) *Macaca fascicularis* 

This species was seen during five days. Along Kinambantang River and tribunaries March 31<sup>st</sup> - April 2<sup>nd</sup> it was seen daily.

# **Sunda Pig-tailed Macaque** *Macaca nemestrina*

This species was seen along Kinambantang River and tribunaries  $31^{st}$  - April  $2^{nd}$  and also in Danum Valleyalong the road to Rainforest Lodge March  $6^{th}$ .

## Bornean Gibbon Hylobates muelleri

This species was frequently heard but difficult tosee. It was seen in Sarawak from Black Oriole Camp Mar 20<sup>th</sup> and along the track back to vehicles March 21<sup>st</sup>. It was heard in Bakalalang March 23<sup>rd</sup> – 24<sup>th</sup> and every morning in Danum Valley April 3<sup>rd</sup> – and April 6<sup>th</sup>.

## **Bornean Urang-utan**

## Pongo pygmaeus

Along Kinabatang River March 21<sup>st</sup> orangutans came close to the river towards the evenings. Our first sighting was a big male. A while later we saw a female with a young. In Danum Valley we saw one big male on April <sup>4th</sup> and April 5<sup>th</sup> we encountered the same male in the canopy along one of the trails.

# **Sunda Giant Squirrel**

# Ratufa affinis

One was seen running on the reels at Kinabantangan Bornean Eco-lodge March 31<sup>st</sup> (Pamela) and one was seen in Danum Valley April 6<sup>th</sup>.

## Prevrost's Squirrel

## Callosciurus prevrosti

The first one was seen on M:t Kinabalu March 27<sup>th</sup>, and was then seen at least during six days in Kinambantang River-system and Danum Valley.





Proboscis Monkey

Photo Stefan © Lithner

Long-tailed Macaque

Photo Stefan © Lithner

## Kinabalu Squirrel

## Callosciurus ballurensis

One was spotted and identified by our guide Wilbur on M:t Kinabalu March 27<sup>th</sup> along Ular Trail at 1870 metres a.s.l, and was then seen by several participants.

## **Plantain Squirrel**

Callosciurus notatus

One seen in Rainforest Discovery Centre Sepilok April 30<sup>th</sup>. (Stefan)

## **Bornean Black-banded Squirrel**

Callosciurus orestes

At Timpohon Gate, M:t Kinabalu several had gathered since tourists here feed them despite restrictions not to do so march 27<sup>th</sup>.

## Low's Squirrel

Sundasciurus lowii

One was seen near the entrance of Pouring Hotsprings March 29<sup>th</sup>. (Wilbur)

# Jentink's Squirrel

Sundasciurus jentinki

A few were seen daily in Sarawak March 25<sup>th</sup> · 28<sup>th</sup>. Particularly well the species was seen at Timpohon Gate, M:t Kinabalu were several had gathered since tourists here feed them despite restrictions not to do so march 27<sup>th</sup>.

# Brooke's Squrirrel

Sundasciurus brookei

Both were seen in submontane forest, one near Black Oriole Camp March 21<sup>st</sup> (Det. Siew) and one at Bakalalan March 30<sup>th</sup>.

# **Four-striped Ground Squirrel**

Lariscus hosei

One was seen on M.t Kinabalu, along Bukit UlarTrail at about 1750 metres a.s.l. March 26<sup>th</sup>. This animal passed us running across a small opening partly hidden by a small branch lying on the ground. Size and proportions very similar to *Dremomys everettii* which I saw the day before, except of tail being more even in width. The animal was very dark above, much darker than *D. everettii*, almost black, but some dark brown was shining though. Underneath, at least from chin to chest it was orange. (Stefan)

## **Bornean Mountain Ground Squirrel**

Dremomys everettii

One was seen at Bakalalan running across the road just before dusk March 24<sup>th</sup> and one was seen on M:t Kinabalu on Ular Trail March 27<sup>th</sup>.





Bornean Black Banded Squirrel

Photo Stefan © Lithner

Sunda Giant Squirrel

Photo Stefan © Lithner

# **Plain Pygmy Squirrel**

Exilisciurus exilis

One was seen climbing a naked trunk in Danum Valley April 4<sup>th</sup>.

# Whitehead's Pygmy Squirrel

Exilisciurus whiteadi

One was spotted and identified by Wilbur on M:t Kinabalu at about 1750 metres a.s.l., climing around in the canopies about 30 metres above the ground March 27<sup>th</sup>.

# Thomas Flying Squirrel

Aeromys thomasi

This species was shown to us twice by ranger Henry during spotlighting drive starting from Danum Valley Borneo Rainfordest Lodge in the evening of April 2<sup>nd</sup>.

# **Red Giant Flying Squirrel**

Petaurista petaurista

This squirrel was seen during spoitlighting at ninght in Danum Valley: three times on April  $2^{nd}$ , four times on April  $3^{rd}$  (Stefan; private drive).

**Tioman Rat**Rattus tionanicus

Less than ten metres from the kitchen of Black Oriole Lodge in Sarawak a pile of leavings after our supper was placed. About 22:15 March 22<sup>nd</sup> a Tioman Rat left the scrap pile and disappeared under the house when illuminated by spotlight. (Stefan)

Müller's Rat

Rattus muelleri

One was seen on the river bank less than a meter from the forest edge of Kinabatang River at dawn April 1<sup>st</sup>. (Stefan)

According to Phillipps this large very dark brown rat with an even darker tail, slightly longer than body (HB) is common and often seen foraging along stream- and river banks.



Bornean Striped Palm Civet

Photo Stefan © Lithner

## **Malayan Porcupine**

Hystrix brachyura

One was seen during spotlighting-drive starting from Danum Valley Borneo Rainfordest Lodge in the evening of April 5<sup>th</sup>.

## **Yellow-throated Marten**

artes flavigula

One seen along the road to Black Oriole Drop-off March 20<sup>th</sup>.

# **Bornean Striped Palm Civet**

Arctogalidia stigmatica

Onewas seen during spotlighting from boat on Kinabatang River March 31<sup>st</sup> and one was seen during spotlighting in Danum Valley starting from Bornean Rainforest Lodge April 2<sup>nd</sup>. According to Phillipps split by Vernon 2015 from Three-striped Palm Civet (*A. trivirgata*), because differing from Three-striped Palm Civets elsewhere on the mainland, in DNA by 5,7% (about three times more that the difference between Humans[*Homo sapiens*] and Chimpanzee [*Pan troglodytes*]). *A. stigmatica* is endemic to Borneo.

Palm Civets and Small-toothed Civets at least from the genera *Paradoxus* in SE Asia among other things feed on perfectly ripe coffee fruits. Faces from these animals is rich in coffee beans liberated from their fruit meat. The coffee plant was introduced to Java by Dutch people in 1819. Coffee made from these defecated beans on the islands of Sumatra, Bali, Sulawesi, Java and to some extent also adjacent islands and mainland is claimed to be less bitter and better tasting than coffee made from hand-picked beans. It occurs under the names Kopi Luwak, Kopi Musang, Civet Coffee and Weasel Coffee. It is the most expensive coffee you can get (about \$ 700/kg). Appreciation for this coffee is limited on Malaysian part of Borneo. (Phillips and Wikipedia)

# **Malay Civet**

Viverra tangalunga

This species was seen in Danum Valley during night spotlighting starting from Bornean Rainforest Lodge; one was seen April 2<sup>nd</sup>, and one on April 5<sup>th</sup>.

## **Unidentified Civet**

Viverra sp

One briefly seen crossing the road to Black Oriole Drop-off March 20<sup>th</sup>

## **Flat-headed Cat**

Felis planiceps

One was seen in the morning of April  $6^{th}$  in Danum Valley close to dams near Bornean Rainforest Lodge.

Having focused far too much on assessing tail-length of this cat it was still not difficult to identify, due to much smaller ears than Leopard Cat, bright white spots below eyes, greyish body and with a few vertical dark stripes on flanks.

## **Sunda Leopard Cat**

Prionailurus javanensis

Seen in Danum Valley; one near Bornean Rainforest Lodge in the morning of April 3<sup>rd</sup>, one seen thrice during spotlighting (private arrangement, Stefan) in the evening and one seen during night drive April 4<sup>th</sup>.

Historically, the leopard cat of continental Asia was considered the same species as the Sunda leopard cat. Five subspecies have long been recognized. As of 2017, this taxon is recognized as a distinct species, with the taxonomic *Prionailurus javanensis* (https://en.wikipedia.org/wiki/Leopard\_cat)

Bornean Pygmy Elephant n

**not seen** Elephas maximus bornensis

The Pygmy Elephant is probably one of the two most famous mammals of Borneo.

According to Phillipps the population in 2010 was estimated to be 2040 (Alfred et al). They are present in Kinabatang River-system and in Danum Valley.

In the morning of April  $6^{th}$  about 80-100 metres upstream Mananggol tributary by boat from the main stream of Kinabatangan River the smell of elephant was very strong for about 20 metres, but no animals were seen in the dense forest surrounding the river. When we passed the same spot on our way back to the main stream the smell was nearly gone. At a virtually identical incident in Thailand 2010 my guide and I could also hear the elephants. Then they were less than 50 metres away from us. On the about 60 km gravel road from the main road up to Bornean Rainforest Lodge in some parts were rather full of droppings. Every here and there the paths we were walking on within two to three kilometres from Danum Valley Bornean Rainforest Lodge there were elephant droppings, however not fresh.

# Bearded Pig Sus barbatus

Our first sighting was made in Sarawak on our way back from Black Oriole Camp towards the drop off/pich up April  $22^{nd}$  (Lisa), when we made a stop to try to catch sight of a calling Bulwer's Pheasant (Yeo).

In Damum Valley it was spotted outside the Bornean Rainforest Lodge close to the restaurant before our breakdast 05:30, on April 3<sup>rd</sup> (Bill) and on April 4<sup>th</sup> (Stefan). One pig also nearly rushed into Lisa at dusk April 3<sup>rd</sup> when watching for Bornean Crested Pheasant about 200 metres from the lodge, and another one was seen crossing the gravel road when leaving Danum Valley (First vehicle) April 6<sup>th</sup>. According to Susan Myers; Birds of Borneo (2010), the bird is documented to associate with migrating Bearded Pig.

**Lesser Mouse Deer** (Lesser Ghevrotain) *Tragulus kanchil*One was seen in Danum Valley close to dams near Bornean Rainforest Lodge April 4<sup>th</sup> during spotlighting.

Greater Mouse Deer (Greater Cevrotain) Tragulus napu

One was seen in Danum Valley close to dams near Bornean Rainforest Lodge.

One was seen in Danum Valley close to dams near Bornean Rainforest Lodge April 3<sup>rd</sup> during spotlighting together with local ranger enri (Private arrangement Stefan) after dark.

Sambar Deer Cervus unicolor

Species noted in Danum Valley probably April 2<sup>nd</sup>.

# Bornean (Yellow) Muntjac

Muntiacus atherodes

One was seen, dashing off from semi dense vegetation in Danum Valley as the group just stated to focus on a Bornean Ground Babbler April 5<sup>th</sup> (Stefan).

One individual was seen by our guiding ranger Henri while sneaking on Great Argus the previous day nearly at the same sight.

According to our local Ranger Henri, the Yellow Muntjac thrives at this altitude, while the Red Muntiac *M. muntiacus* also present in Damum Valley prefers higher altitude.

#### BIRDS

This checklist follows BirdtourASIA's checklist.



Bristlehead Photo Stefan © Lithner

Wandering Whistling Duck Great Argus Red-breasted Partridge Chestnut-necklaced Partridge Crimson-headed Partridge Dendrocygna arcuata Argusianus argus Arborophila hyperythrae Tropicoperdix charltonii graydoni Haematortyx sanguiniceps

# Bornean (Crested) Fireback Bulwer's Pheasant

# Lophura ignita nobilis Lophura bulweri

(heard)



Pink-necked Pigeon

Photo Stefan © Lithner



Plume-toed Swiftlet

Photo Stefan © Lithner

Spotted Dove
Little Cuckoo Dove
Asian Emerald Dove
Zebra Dove
Pink-necked Green Pigeon
Thick-billed Pigeon
Jambu Fruit Dove
Green Imperial Pigeon
Mountain Imperial Pigeon
Bock's Hawk Cuckoo

Stigmatopelia chinensis
Macropygia ruficeps nana
Chalcophaps indica indica
Geopelia striata
Treron vernans
Treron curvirostra
Ptilinopus jambu
Ducula aenea
Ducula badia
Hierococcyx (sparverioides) bocki



Violet Cuckoo

Photo Stefan © Lithner



Bornean Leafbird

Photo Stefan © Lithner

Moustached Hawk Cuckoo Malaysian Hawk Cuckoo Sunda Cuckoo Indian Cuckoo Hierococcyx vagans Hierococcyx fugax Cuculus lepidus Cuculus micropterus



Bornean Frogmouth Photo Stefan © Lithner

**Banded Bay Cuckoo Plaintive Cuckoo** Little Bronze Cuckoo Violet Cuckoo Asian Drongo Cuckoo Raffles's Malkoha **Black-bellied Malkoha**  Cacomantis sonneratii (heard) Cacomantis merulinus Chrysococcyx minutillus aheneus Chrysococcyx xanthorhynchus Surniculus lugubris brachyurus Rhinortha chlorophaea Phaenicophaeus diardi







Large Frogmouth Blyth's Frogmouth Photo Stefan © Lithner





Storm's Stork Photo Stefan © Lithner

Great-billed Heron Photo Stefan © Lithner

Red-billed Malkoha Chestnut-breasted Malkoha Bornean Ground Cuckoo Greater Coucal Grey-rumped Treeswift Whiskered Treeswift Plume-toed Swiftlet Zanclostomus javanicus
Phaenicophaeus curvirostris
Carpococcyx radiatus
Centropus sinensis bubutus
Hemiprocne longipennis harteti
Hemiprocne comata comata
Collocalia affinis cyanoptila



Jerdon's Baza with lizard Photo Stefan © Lithner





Bat Hawk Photo Stefan © Lithner

Crested Serpent Eagle

Photo Stefan © Lithner

**Bornean Swiftlet Mossy-nest Swiftlet Black-nest Swiftlet Edible-nest Swiftlet Silver-rumped Spinetail Brown-backed Needletail Asian Palm Swift Large Frogmouth Dulit Frogmouth Bornean Frogmouth** Blyth's Frogmouth Large-tailed Nightjar Malaysian Eared Nightjar White-breasted Waterhen **Black-backed Swamphen Common Moorhen Common Greenshank Wood Sandpiper Common Sandpiper** 

Collocalia dodgei Aerodramus salangana natunae Aerodramus maximus lowi Aerodramus fuciphagus vestita Rhaphidura leucopygialis Hirundapus giganteus Cypsiurus balasiensis Batrachostomus auritus Batrachostomus harterti Batrachostomus mixtus Batrachostomus affinis affinis Caprimulgus macrurus salvadorii Eurostopodus temminckii Amaurornis phoenicurus Porphyrio indicus Gallinula chloropus Tringa nebularia Tringa glareola Actitis hypoleucos





Crested Goshawk

Photo Stefan © Lithner

Wallace's Hawk Eagle

Photo Stefan © Lithner



Mountain Serpent Eagle Photo Stefan © Lithner

Oriental Darter Storm's Stork Lesser Adjutant Anhinga melanogaster Ciconia stormi Leptoptilos javanicus







Whitehead's Trogon

Photo Stefan © Lithner





Wrinkled Hornbill

Photo Stefan © Lithner

Black Hornbill

Photo Stefan © Lithner

**Great-billed Heron** 

 ${\bf Purple Heron}$ 

**Eastern Great Egret Intermediate Egret** 

Little Egret

**Eastern Cattle Egret** 

**Striated Heron** 

**Cinnamon Bittern** 

Jerdon's Baza

Sunda Honeybuzzard

**Bat Hawk** 

**Crested Goshawk** 

**Black Eagle** 

**Rufous-bellied Eagle** 

**Changeable Hawk Eagle** 

**Blyth's Hawk Eagle** 

Wallace's Hawk Eagle

**Barred Eagle Owl** 

**Buffy Fish Owl** 

**Brown Wood Owl** 

**Brown Boobook** 

(Sunda) Collared Owlet

**Red-naped Trogon** 

Diard's Trogon

Whitehead's Trogon

**Scarlet-rumped Trogon** 

Scarice rumped frogon

**Orange-breasted Trogon** 

**Oriental Pied Hornbill** 

**Black Hornbill** 

**Rhinoceros Hornbill** 

**Helmeted Hornbill** 

**Bushy-crested Hornbill** 

White-crowned Hornbill

Ardea sumatrana

Ardea purpurea

Ardea modestus

Ardea intermedia intermedia

Egretta garzetta

Ardea coromandus

Butorides striata

Ixobrychus cinnamomeus

Aviceda jerdoni

Pernis ptilorhynchus torquatus

Macheiramphus alcinus alcinus

Lophospiza trivirgata

Ictinaetus malayensis

Lophotriorchis kienerii

Nisaetus limnaeetus

Nisaetus alboniger

Nisaetus nanus

Bubo sumatranus

Bubo ketupu

Strix leptogrammica vaga

Ninox scutulata borneensis (heard)

Glaucidium brodiei borneense (heard)

Harpactes kasumba impavidus

Harpactes diardii diardii

Harpactes whiteheadi

Harpactes duvaucelii (heard)

Harpactes oreskios dulitensis

Anthracoceros albirostris convexus

Anthracoceros malayanus

Buceros rhinoceros borneoensis

Rhinoplax vigil

Anorrhinus galeritus

Berenicornis comatus





Rhinocerous Hornbill

Photo Stefan © Lithner

Black-and-red Broadbill

Photo Stefan © Lithner

Wrinkled Hornbill **Wreathed Hornbill Gold-whiskered Barbet Red-crowned Barbet Red-throated Barbet Mountain Barbet Yellow-crowned Barbet Golden-naped Barbet Blue-eared Barbet Bornean Barbet Brown Barbet Rufous Piculet Rufous Woodpecker** White-bellied Woodpecker **Banded Yellownape Checker-throated Yellownape** Crimson-winged Woodpecker Olive-backed Woodpecker

Aceros corrugatus Rhyticeros undulatus Psilopogon chrysopogon Psilopogon rafflesii Psilopogon mystacophanos Psilopogon monticola Psilopogon henricii Psilopogon pulcherrima Psilopogon duvaucelii duvaucelii Psilopogon eximia Caloramphus fuliginosus Sasia abnormis Celeus brachyurus badiosus Dryocopus javensis javensis Chrysophlegma miniaceum malaccensis Chrysophlegma mentale humii (heard) Picus puniceus observandus Dinopium rafflesii dulitense







Stork-billed Kingfisher

Photo Stefan © Lithner

Brown Barbet









Rufous-backed Kingfisher sleeping

Photo Stefan © Lithner

Maroon Woodpecker **Buff-rumped Woodpecker Buff-necked Woodpecker Great Slaty Woodpecker Blue-eared Kingfisher Rufous-backed Kingfisher Banded Kingfisher** Stork-billed Kingfisher **Ruddy Kingfisher Collared Kingfisher Rufous-collared Kingfisher Red-bearded Bee-eater Blue-throated Bee-eater Dollarbird White-fronted Falconet Peregrine Falcon Blue-rumped Parrot Long-tailed Parakeet Blue-crowned Hanging-Parrot**  Blythipicus rubiginosus Meiglyptes tristis grammithorax Meiglyptes tukki tukki Mulleripicus pulverulentus Alcedo meninting verreauxii Ceyx rufidorsa motleyi Lacedo pulchella melanops Pelargopsis capensis inominata Halcyon coromanda minor Todiramphus chloris laubmannianus Actenoides concretus borneanus Nyctyornis amictus Merops viridis viridis Eurystomus orientalis Microhierax latifrons Falco peregrinus ernesti Psittinus cyanurus Psittacula longicauda Loriculus galgulus



White-fronted Falconet

sleening

Photo Stefan © Lithner



Red-bearded Bee-eater

Photo Stefan © Lithner

## **PASSERINES:**



Malayan Blue Flycatcher Photo Stefan © Lithner

Green Broadbill Hose's Broadbill Whitehead's Broadbill Dusky Broadbill Black-and-red Broadbill Banded Broadbill

**Black-and-yellow Broadbill** 

Long-tailed Broadbill

**Giant Pitta** 

Bornean Banded Pitta Blue-headed Pitta Hooded Pitta Blue-banded Pitta Black-crowned Pitta Golden-bellied Gerygone Blyth's Shrike Babbler

**Erpornis** 

**Dark-throated Oriole** 

**Black Oriole** 

**Black-and-crimson Oriole** 

**Bornean Whistler** 

Bar-winged Flycatcher-rike Black-winged Flycatcher-shrike Calyptomena viridis Calyptomena hosii Calyptomena whiteheadi Corydon sumatranus

Cymbirhynchus macrorhynchos

Eurylaimus javanicus
Eurylaimus ochromalus
Psarisomus dalhousiae
Hydrornis caerulea hosei
Hydrornis schwaneri
Hydrornis baudii
Pitta sordida mulleri
Erythropitta arquata
Erythropitta ussheri

Gerygone sulphurea (heard) Pteruthilusfaeralatus robinsoni

Erpornis zantholeuca

Oriolus xanthonotus consobrinus

Oriolus kosi

Oriolus cruentus vulneratus Pachycephala hypoxantha Hemipus picatus intermedius Hemipus hirundinaceus





Photo Stefan © Lithner



Malaysian Pied Fantail

Photo Stefan © Lithner

**Rufous-winged Philentoma Maroon-breasted Philentoma Bristlehead Common Iora Green Iora** White-breasted Woodswallow Sunda Cuckooshrike Roving (Bar-bellied) Cuckooshrike **Lesser Cicadabird Pied Triller Scarlet Minivet Grey-chinned Minivet White-throated Fantail** Sunda (Malaysian) Pied Fantail **Spotted Fantail** Sunda (Ashy) Drongo **Bronzed Drongo Bornean Spangled Drongo** 

Philentoma pyrhoptera (heard) Philentoma velata Pityriasis gymnocephala Aegithina tiphia aequanimis Aegithina viridissima Artamus leucorynchus Coracina larvata normani Coracina (striata) sumatrensis Lalage fimbriata schierbrandii Lalage nigra nigra Pericrocotus speciosus insulanus Pericrocotus solaris cinereigula Rhipidura albicollis kinabalu Rhipidura javanica Rhipidura perlata Dicrurus leucophaeus stigmatops Dicrurus aeneus malayensis Dicrurus borneensis



Slender-billed Crow

Photo Stefan © Lithner



Pacific Swallow

Photo Stefan © Lithner



Little Pied Flycatcher (female)

Photo Stefan © Lithner



Chestnut-crested Yuhina

Photo Stefan © Lithner

**Greater Racket-tailed Drongo Black-naped Monarch** Blyth's Paradise-flycatcher **Crested Jay Bornean Black Magpie Bornean Green Magpie Bornean Treepie** Sunda (Slender-billed) Crow Rail-babbler **Grey-headed Canary-flycatcher Barn Swallow Pacific Swallow** 

Dicrurus paradiseus brachyphorus Hypothymis azurea prophata Terpsiphone affinis borneensis Platylophus galericulatus coronatus Platysmurus aterrimus Cissa jeffreyi Dendrocitta cinerascens Corvus enca compilator (heard) Eupetes macrocerus Culicicapa ceylonensis Hirundo rustica gutturalis Hirundo tahitica



Black-capped White-eye

Photo Stefan © Lithner Sunda Bush Warbler



Photo Stefan © Lithner

**Straw-headed Bulbul Black-headed Bulbul Bornean Bulbul Grey-bellied Bulbul Puff-backed Bulbul Pale-faced Bulbul Yellow-vented Bulbul Olive-winged Bulbul** 

Pycnonotus zeylanicus Pycnonotus atriceps atriceps Pycnonotus montis Pycnonotus cyaniventris Pycnonotus eutilotus Pycnonotus leucops Pycnonotus goiavier gourdini Pycnonotus plumosus plumosus





Common Hill Myna

Photo Stefan © Lithner

White-crowned Shama

Photo Stefan © Lithner

**Cream-vented Bulbul Red-eyed Bulbul Spectacled Bulbul** Finsch's Bulbul Ochraceous (Penan) Bulbul **Grey-cheeked Bulbul** Yellow-bellied Bulbul **Hairy-backed Bulbul** Charlotte's Bulbul **Cinereous Bulbul Hook-billed Bulbul Bold-striped Tit Babbler** Fluffy-backed Tit-Babbler **Chestnut-winged Babbler Rufous-fronted Babbler Chestnut-backed Scimitar Babbler**  Pycnonotus simplex perplexus Pycnonotus brunneus brunneus Pycnonotus erythropthalmos Alophoixus finschii Alophoixus ochraceus ruficrissus Alophoixus bres gutturalis Alophoixus phaeocephalus Tricholestes criniger Iole charlottae Hemixos cinereus connectens Setornis criniger Mixornis bornensis Macronus ptilosus reclusus Cyanoderma erythroptera bicolor Cyanoderma rufifrons sarawacensis Pomatorhinus montanus bornensis





Photo Stefan © Lithner

Blue-and-white Flycatcher

Photo Stefan © Lithner

**Grey-throated Babbler Grey-headed Babbler** 

Stachyris nigriceps borneensis Stachyris poliocephala







Indigo Flycatcher

Photo Stefan © Lithner

Temminck's Sunbird

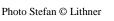
Photo Stefan © Lithner

**Black-throated Babbler Chestnut-rumped Babbler Moustached Babbler Sooty-capped Babbler Scaly-crowned Babbler Rufous-crowned Babbler Grey-breasted Babbler** White-chested Babbler Ferruginous Babbler **Short-tailed Babbler** Temminck's Babbler **Black-capped Babbler Striped Wren Babbler** Horsfield's Wren Babbler **Black-throated Wren Babbler Mountain Wren Babbler Bornean Ground Babbler Brown Fulvetta** Sunda Laughingthrush **Bare-headed Laughingthrush Chestnut-hooded Laughingthrush Chestnut-crested Yuhina Pygmy Ibon** 

Stachyris nigricollis (heard) Stachyris maculata maculata Malacopteron magnirostre cinereocapilla Malacopteron affine phoeniceum Malacopteron cinereum cinereum Malacopteron magnum saba Malacopteron albogulare Pellorneum rostratum macropterum Pellorneum bicolor Pellorneum malaccense sordidum Pellorneum pyrrogenys canicapillus Pellorneum capistratum morrelli Kenopia striata Turdinus sepiarius harterti Turdinus atrigularis Turdinus crassus Ptilocichla leucogrammica Alcippe brunneicauda Garrulax palliatus Garrulax calvus Garrulax treacheri treacheri Yuhina everetti









Whitehead's Spiderhunter

Heleia squamifrons

Photo Stefan © Lithner

Brown-throated Sunbird



Crimson Sunbird Photo Stefan © Lithner

**Black-capped White-eye Mountain Black-eye Mountain Leaf Warbler** Yellow-breasted Warbler Yellow-bellied Warbler **Bornean Stubtail** Sunda Bush Warbler **Mountain Tailorbird Striated Grassbird Dark-necked Tailorbird Rufous-tailed Tailorbird Ashy Tailorbird** Yellow-bellied Prinia **Velvet-fronted Nuthatch Asian Glossy Starling** Common Hill Myna Javan Myna **Everett's Thrush Eye-browed Thrush Fruithunter Oriental Magpie Robin** White-crowned Shama White-rumped Shama

Zosterops atricapillus Zosterops emiliae Seicercus trivirgatus kinabaluensis Seicercus montis floris Abroscopus superciliaris schwaneri Urosphena whiteheadi Horornis vulcanius oreophila Phyllergates cucullatus cinereicollis Megalurus palustris Orthotomus atrogularis atrogularis Orthotomus sericeus sericeus Orthotomus ruficeps borneoensis Prinia flaviventris latrunculus Sitta frontalis corallipes Aplonis panayensis Gracula religiosa Acridotheres javanicus Zoothera everetti Turdus obscurus Chlamydochaera jefferyi Copsychus saularis adamsi Copsychus stricklandii Copsychus malabaricus (heard)



Brown-Whistling Thrush

Photo Stefan © Lithner



Yellow-bellied Prinia

Photo Stefan © Lithner

(heard)

Rufous-tailed Shama Dark-sided Flycatcher Asian Brown Flycatcher

**Grey-chested Jungle Flycatcher** 

Pale Blue Flycatcher
Hill Blue Flycatcher
Sunda Blue Flycatcher
Malaysian Blue Flycatcher
Bornean Blue Flycatcher
Blue-and-White Flycatcher
Verditer Warbling-flycatcher

**Indigo Flycatcher** 

**Eye-browed Jungle Flycatcher** 

White-browed Shortwing Chestnut-naped Forktail

**Bornean Forktail** 

Bornean Whistling-thrush Mugimaki Flycatcher Rufous-chested Flycatcher Little Pied Flycatcher Greater Green Leafbird

Lesser Green Leafbird Bornean Leafbird Blue-winged Leafbird Asian Fairy-bluebird

Yellow-breasted Flowerpecker

rumped Flowerpecker

Scarlet-breasted Flowerpecker Yellow-vented Flowerpecker Orange-bellied Flowerpecker Black-sided Flowerpecker Scarlet-backed Flowerpecker Ruby-cheeked Sunbird

**Plain Sunbird** 

Brown-throated Sunbird Red-throated Sunbird Olive-backed Sunbird Copsychus pyrropygus

Muscicapa sibirica

Muscicapa dauurica dauurica

Cyornis umbratilis

Cyornis unicolor harterti

Cyornis banyumas coeruleatus

Cyornis caerulatus Cyornis turcosus Cyornis superbus

Cyanoptila cyanomelana Eumyias thalassinus Eumyias indigo Vauriella gularis

Brachypteryx montana erythrogyna

Enicurus ruficapillus Enicurus borneensis Myophonus borneensis Ficedula mugimaki Ficedula dumetoria Ficedula westermanni

Chloropsis sonnerati zosterops Chloropsis cyanopogon cyanopogon

Chloropsis kinabaluensis

Chloropsis (cochinchinensis) moluccensis

Irena puella crinigera

Prionochilus maculatus maculatus Yellow-

Prionochilus xanthopygius Prionochilus thoracicus Pachyglossa chrysorrhea

Dicaeum trigonostigma dayakanum

Dicaeum monticolum

Dicaeum cruentatum nigrimentum

Chalcoparia singalensis Anthreptes simplex Anthreptes malacensis Anthreptes rhodolaemus Cinnyris jugularis ornatus



Buffy Fish Owl Photo Stefan © Lithner

Copper-throated Sunbird
Van Hasselt's Sunbird
Crimson Sunbird
Temminck's Sunbird
Purple-naped Spiderhunter
Spectacled Spiderhunter
Little Spiderhunter
Little Spiderhunter
Yellow-eared Spiderhunter
Bornean Spiderhunter
Whitehead's Spiderhunter
Eurasian Tree Sparrow
Dusky Munia
Scaly-breasted Munia
Grey Wagtail

Leptocoma calcostetha
Leptocoma brasiliana
Aethopyga siparaja
Aethopyga temminckii
Arachnothera hypogrammica
Arachnothera flavigaster
Arachnothera longirostra
Arachnothera chrysogenys
Arachnothera everetti
Arachnothera julliae
Passer montanus malaccensis
Lonchura fuscans
Lonchura punctulata cabanisi
Motacilla cinerea cinerea

## CROCODILE

**Estuary Crocodile** 

Crocodylus porosus

One seen in Menanggol River, tributary to Kinabatangan River March 31<sup>st</sup>.



Estuary Crocodile Photo Stefan © Lithner

# LIZARDS

Species listed secording to: <a href="http://phylodiversity.net/bb07/students/ruchira/lizards.html">http://phylodiversity.net/bb07/students/ruchira/lizards.html</a>

# **Dusky Flying Lizard**

Draco obscurus

One seen from boardwalk at Rainforest Discovery Centre Sepilok April 30<sup>th</sup>.

# **Bornean Angle-headed Lizard**

Gonocephalus borneensis

One ewas demonstrated by local ranger Henry and  $\,$  photographed at Bornean Echo Lodge at Kinabantan River April  $\,$ 3<sup>rd</sup>.

This species is also found under the common name Agamalike Lizard.





usky Flying Lizard

Photo Stefan © Lithner

Four-clawed Hous Gecko

Photo Stefan © Lithner

## **Four-clawed House Gecko**

Gehyra mutilate

One photographed at the headquarters of Gomantong Caves March 30<sup>th</sup>.

## Smith's Giant Gekko

Gecko smithii

Making a lot of noise at Bornean Echo Lodge at Kinabantan River March 30<sup>th</sup> – Aapril 2<sup>nd</sup>. http://phylodiversity.net/bb07/students/ruchira/species\_accounts/gekko\_smithii.html

#### **Asian House Gecko**

Hemidactylus frenatus

http://phylodiversity.net/bb07/students/ruchira/lizards.html Kinabatagang River Bornean Echo Lodge March 31st.

# **Striped Treesink**

Apterygodon vittatus

One seen and photographed at Kinabantan River waiting for vehicle April 2<sup>nd</sup>.

## **Water Monitor**

Varanus salvator

One was encountered in the flowerbed outside Danum Valley Bornean Rainforest Lodge.



Striped Treeskink Photo Stefan © Lithner

## FROGS

## **Giant River Frog**

Limninectes leporinus

Seen and photographed in Danum Valley near Bornean Rainforest Lodge April 3<sup>rd</sup>

**Fire-eyed Treefrog** (**Fire-eyed Loach**) *Barbucca diabolica* Shown by local ranger Henry in Danum Valley near Bornean Rainforest Lodge April 3<sup>rd</sup>

File-eared Treefrog

Polypedates otilophus

Shown by local ranger Henry in Danum Valley near Bornean Rainforest Lodge April 3<sup>rd</sup>

**Bornean Tree Hole Frog**Metaphrynella sundana

Pointed out by local ranger Henry in Danum Valley near Bornean Rainforest Lodge April 3<sup>rd</sup>

# **Short-nosed Tree Frog**Rhacophorus gauni Kinabatangan River, Borneo Echo LodgeIn the bathroom of Bungalow no 8 March 31<sup>st</sup>. Synonymes: , English; Four-lined Treefrog, White-lipped Treefrog. Scientific; *Polypedates rugosus, Polypedates teraiensis* (<a href="www.IUCNredlist">www.IUCNredlist</a>)

**Kiau Borneo Frog not assessed** *Meristogenys kinabaluensis* M:t Kinabalu March 27<sup>th</sup> a frog most likely belonging to this species was seen.





Giant River Frog Photo Stefan © Lithner Short-nosed Treefrog Photo Stefan © Lithner

# SNAKES

**Red-tailed Racer**Gonyosoma oxycephalum

One seen from the boat on the tributary Kinabatangan River March 31<sup>st</sup>.

According to <a href="https://www.thainationalparks.com/species/gonyosoma-oxycephalum">https://www.thainationalparks.com/species/gonyosoma-oxycephalum</a> this species occurs under 26 scientific synonyms and a few common names.

## **Keel-backed Snake**

A keel-backed snake was briefly seen at Kinabatangan River while waiting for vehicle April  $2^{nd}$ , but not identified.

Elegant Bronze-backed Tree Snake Dendrophis formosa Danum Valley April 4<sup>th</sup>. (Bill)

Synonyms: Bronzeback Treesnake, Elegant Treesnake (www.IUCNredlist)

## BUTTERFLIES and MOTH





Colonel Photo Stefan © Lithner

Common Tree Nymph Butterfly

Photo Stefan © Lithner

Species listed according to:

https://www.nss.org.sg/butterflies\_list/check\_list.php?cl\_mst\_id=1&ac=v

Common Jay not assessed Graphium doson

Some butterflies of the genus *Graphium* were assembled on the parking lot at Gomantong Caves April 30<sup>th</sup>. Butterflies of Borneo

http://www.pbase.com/lcgoh/butt\_borneo\_papilionidae&page=all present three species of *Graphium* (bathycles, doson and evemon), all very variable and all very similar. White spots on neck and torso seem to indicate G. doson. (Stefan)

Great Mormon Papilio memnon agenoor

Seen along boardwalk at peat swamp forest April 6<sup>th</sup>.

**Red Helen** Papilio helenus

One seen in Danum Valley April 6<sup>th</sup>. (Stefan)

http://www.pbase.com/lcgoh/butt\_borneo\_papilionidae&page=all

**Bornean Birdwing** Troides andromache

One seen on M:t Kinabalu March 26<sup>th</sup>. (Stefan)

Rajah Brooke's Birdwing Trogonoptera brookiana

Seen most days on M:t Kinabalu National Park. rookiana

Three Spot Grass Yellow Erema blanda snelleni

Photographed along the boardwalk at Borneo Echo Lodge Kinabatangan River April 1<sup>st</sup>. (Stefan)

Blue Banded King Crow

Euploea eunice leucogonis

Photographed by Bill along the track to Pouring Hotsprings March29<sup>th</sup>.

Common Tree Nymph Butterfly

Idea stolli alcine

One seen and photographed on Kinabatangan River April 2<sup>nd</sup>.

This species also appear as White Wood Nymph and Yellow Flyer on the internet.

**Blue Glassy Tiger not assessed** *Ideopsis vulgaris macrina* One photographed at the headquarters of Gomantong Caves March 30<sup>th</sup>. (Stefan)

**Royal Assyrian** *Terinos terpander robertsia* Onr seen at the entrance of Gomantong Caves March 30<sup>th</sup>, also photographed by Bill.

**Colonel highly plausible** *Pandita sinope*Photographed along the boardwalk at Borneo Echo Lodge Kinabatangan River April 1<sup>st</sup>.(Stefan)

Chocolate Pansy

Junonia hedonia ida

Photographed along the boardwalk at Borneo Echo Lodge Kinabatangan River April 1<sup>st</sup>.

(Stefan)

# Malayan Bush Brown

Mycalesis fusca fusca

Photographed March 25<sup>th</sup> by Bill.

This species also occur with the common name Malaysian Brown Tiger.





Pointed Ciliate Blue

Photo Stefan © Lithner Tropical Swallowtail Mothy

Photo Stefan © Lithner

**Malayan Ringlet** (Striped Ringlet) Ragadia makuta siponta Photographed by Bill along the track to Pouring Hotsprings March29<sup>th</sup>. (Bill) Probably also Brown Banded Ringlet, but internet inadequate with information. This taxon not yet assessed for the IUCN Red List.

**Pointed Ciliate Blue**Athene lycaenina
Photographed on the boat Kinabatangan River April 2<sup>nd</sup>. (Stefan)

Forest Quaker Pithecops corvus corvus Photographed by Stefan at the entrance of Gomantong Caves March  $30^{th}$ .

**Tropical Swallowtail Moth**A male was photographed inside the café at M:t Kinabalu March 27<sup>th</sup>.

## TARANTULA



Malayan Earth Tiger Tarantula

Photo Stefan © Lithner

## **Malaysian Earth Tiger Tarantula**

Cyriopagopus schioedtei

One photographed during spotlighting in Danum Valley April 5<sup>th</sup>.

## Acknowledgement

I acknowledge our two excellent guides; Yeo Siew Teck and Wilbur Goh not only for their guiding but also for complementary information to this report. I also thank Ellen Mc Arthur; Research and Community Education Officer Mulu World Heritage Borsarmulu Park Management SDN BHD for her efforts to assess bats from ultrasound echolocation calls. I also acknowledge Arthur Larsson Swedish Threatened Species Unit Uppsala and Wilbur Goh for their work with one of the snakes, Wilbur Goh and Yeo Siew Teck for proof reading and commenting on my manuscript. and finally Lars Petersson Bor for his support converting a number of images.

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More Photos of <a href="http://www.pbase.com/stefan\_lithner/birds\_on\_borneo\_2018">http://www.pbase.com/stefan\_lithner/birds\_on\_borneo\_2018</a>

birds:

More photos of <a href="http://www.pbase.com/stefan\_lithner/mammals\_on\_borneo\_2018">http://www.pbase.com/stefan\_lithner/mammals\_on\_borneo\_2018</a>

mammals

More photos of <a href="http://www.pbase.com/stefan\_lithner/image/167582044">http://www.pbase.com/stefan\_lithner/image/167582044</a> lizards