

# Borneo's Orang-utans

Naturetrek Tour Report

5 - 15 September 2014

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Bornean Orang-utan



Buffy Fish Owl



Dark-headed Cat Snake



Lantern Bug

Report and images compiled by Terry Reis

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Naturetrek Cheriton Mill Cheriton Alresford Hampshire SO24 0NG England

T: +44 (0)1962 733051

F: +44 (0)1962 736426

E: [info@naturetrek.co.uk](mailto:info@naturetrek.co.uk)

W: [www.naturetrek.co.uk](http://www.naturetrek.co.uk)

Tour Leaders: Terry Reis Naturetrek  
Hazwan Suban Local Guide

Participants: Julia Bond  
Kathy Gray  
Tony Gray  
Adrienne Macartney  
John Metcalfe  
Margot Metcalfe

## Day 1

Friday 5th September

### Outbound to Kuala Lumpur

Julia, Adrienne, John and Margot travelled from London, departing from Heathrow on a mid-day Malaysian Airlines flight to Kuala Lumpur, a journey of about 12 hours.

## Day 2

Saturday 6th September

### Outbound to Kuala Lumpur and onward to Sandakan

Weather: Hot and humid, overcast

I met all six tour participants in the domestic departure lounge of Kuala Lumpur airport, Kathy and Tony having come from Singapore. We flew to Sandakan in eastern Sabah, arriving in the early afternoon. Hazwan met us outside the baggage hall with a minibus and we went straight to the famous Sepilok Orang-utan Rehabilitation Centre (SORC), a 30 minute drive, for the afternoon feeding at 15.00. We had a short walk along the raised boardwalk to the viewing area for the Orang-utan feeding station in the forest where a single female Bornean Orang-utan was already present on the feeding platform. Hazwan informed us that her name was Mimi and that she was pregnant. Other younger Orang-utans duly arrived and treated her with deference and distance. Her pregnancy makes her irritable and somewhat intolerant of close company.

Mimi left and numerous other individuals visited the platform including three sub-adults who provided very close views as they later retired along the boardwalk railing through the audience. Just before we left an adult female with a one-year old clinging to her body came to the platform. We also saw a Giant Squirrel and Rhinoceros and Black Hornbills from the viewing area and a White-fronted Falconet, arguably the world's smallest diurnal raptor, perched high on a dead branch was seen from the car park. We then checked in to our accommodation, the Sepilok Nature Resort, just five minutes walk from SORC.

A Brown Boobook attracted Tony and me to its perch in a tree in the resort gardens with its persistent call just after dark. During the subsequent dinner, I gave an explanation of what tomorrow, and the next few days, might bring.

## Day 3

Sunday 7th September

### Sepilok

Weather: Hot and humid, cloudy in the morning but some clear sky in the afternoon. Rain last night, and heavy rain for a few hours beginning before 6 pm

It was a very leisurely start to the day, with most guests choosing a late breakfast to recover from their journey. A White-breasted Waterhen walked along the veranda below the dining area during breakfast for some of us. Tony saw a Malaysian Pied Fantail and other confiding species at the resort included Blue-throated Bee-eater and Stork-billed Kingfisher.

After breakfast we returned to SORC for the morning feeding session. Mimi again blessed us with us with her presence and a few sub-adults came to the feeding platform. After some time two Pig-tailed Macaques arrived to share in the repast. Their presence appeared to deter the Orang-utans somewhat. We had telescope views of pairs of Rhinoceros Hornbill and Red-billed Malkoha, though the latter spent lots of time in dense foliage in typical malkoha fashion.

We then visited the recently opened Sun Bear Rehabilitation Centre, which is also at SORC. From an elevated platform we watched six Sun Bears undergoing rehabilitation, having been rescued from illegal captivity. They provided very good photo opportunities, both on the ground and especially when in trees. The bears were joined by a mixed troop of wild Pig-tailed and Long-tailed Macaques, mostly Pig-tailed. The troop included at least one hybrid female that had produced young, thereby challenging the traditional species concept. Interestingly, the hybrids have tails of intermediate length, the species' names being quite descriptive.

After lunch we returned to SORC, splitting into two groups of four, visiting the oranges and bears respectively. The bears were apparently uncooperative, probably because of the heat, but the Orang-utans behaved as usual, though the most interesting individual didn't even approach the feeding platform. Rather, he/she clambered and swung about in the canopy, typically more than 50 metres above the ground. It appeared quite foolhardy and possibly was a male in his 'teenage' years. A Giant Squirrel scurried about and leapt from tree to tree carrying large amounts of what appeared to be bark in its mouth, possibly for nest-making. Ruby-cheeked, Plain and Purple-naped Sunbirds and Hairy-backed and Buff-vented Bulbuls frequented a small tree immediately adjacent to the viewing platform. The 'bear' group saw Rufous Piculet, a miniature woodpecker, and Crimson Sunbird, amongst others. We reunited in the car park of SORC and saw a Prevost's Squirrel. The planned spotlighting walk at SORC before dinner was abandoned due to rain.

## Day 4

Monday 8th September

### Sepilok, en route Sukau

Weather: Hot and humid, overcast

We breakfasted at 7.00 and then drove the short distance to Sepilok Rainforest Discovery Centre, where an extensive canopy walkway and series of towers provide views over an area of remnant emergent rainforest trees with a dense layer of secondary growth as understorey. There is also a series of trails, some paved, some with gravel and other less well-formed dirt tracks through the forest.

Highlights of the morning were Black-and-red Broadbill and telescope views of Wallace's Hawk-Eagle, Red-bearded Bee-eater and a distant Oriental Honey-Buzzard from the canopy walkway.

We returned to the resort in the late morning, collected our possessions and left in a bus for Sandakan, with lunch at a hotel and a brief opportunity for shopping for last-minute items. We then had a short drive to a nearby jetty where a motorboat waited. We travelled by this boat to the mouth of the Kinabatangan River and then upstream to our next base at Sukau Rainforest Lodge. During the cruise we saw Lesser Adjutant in flight and a somewhat surprising four Common Redshanks flying downriver. These sightings were all in the lower reaches of the river.

After an introduction to Sukau Lodge, its schedules and our rooms by the lodge staff we climbed into a small boat, piloted by Hazwan, and we went a short distance back downstream to Menaggol Creek, which flows into the Kinabatangan River. Here we found our first truly wild Orang-utans, a female with attendant young. They were considerably shyer than habituated individuals at SORC and foraged in the comparative privacy of dense foliage. We also saw Pig-tailed and Long-tailed Macaques and our first Proboscis Monkeys. Two troops of Proboscis Monkeys were seen, one a family group with a large patriarchal male. There were at least 20 individuals. The other troop appeared to be a group of bachelors, mostly sub-adult males though with a few of adult proportions. The frequent movement and agility of Proboscis Monkeys belie their rotund bellies; their body shape a result of requiring a large, complex stomach to process their leaf and unripe fruit diet. Birds seen on the cruise included Pied Hornbill, a dark-phase Changeable Hawk-Eagle and a very cooperative Blue-eared Kingfisher.

After dinner, Julia, Tony and I once again took to the water and went spotlighting along the Kinabatangan River. We saw Stork-billed and Blue-eared Kingfishers sleeping on perches low over the water, allowing close approach. Quite a lot of frogs sat on the muddy edges of the river. Investigation of one proved it to be Giant River Frog, a large and common species. It is likely that all the frogs were this species based on habitat. The highlight of the spotlighting, however, was a 4+ metre Saltwater Crocodile on the bank. Eventually it grew tired of our attention and surged into the water, startling some other guests in the boat. My just-voiced stories of the species leaping its own body length and attacking boats in Australia may have contributed to the excitement!

## Day 5

Tuesday 9th September

Sukau; Menaggol Creek; Gomantong Caves

Weather: Hot and sticky, clear skies for much of the day

We had a very light breakfast at 5.30 and left at 6.00 in a boat to revisit Menaggol Creek. Animals seen included two Large Treeshrews foraging along the bank, Wrinkled Hornbill, a male Scarlet-rumped Trogon, a pair of Malaysian Blue Flycatchers, several Black-and-yellow Broadbills and another, much smaller, crocodile. Again we encountered a bachelor troop of Proboscis Monkey, which allowed very close views. We returned for a late breakfast at 8.30 and then entertained ourselves around the lodge, with some of us walking along the boardwalk at the back of the lodge. This was surprisingly productive, given the time of day, with a single tree entertaining Chestnut-breasted and Raffle's Malkoha, Greater Racket-tailed Drongo and three species of squirrel, Prevost's, Plain Pygmy and Plantain.

After lunch we drove to the famous Gomantong Cave, after a short boat trip across the river to the waiting minibus. Gomantong provides roosting and breeding habitat for two million Wrinkle-lipped Bats, among other bat species, which issue forth each evening in a disjointed stream. The cave is equally well known for the harvesting of swiftlet nests for the production of soup, both Edible-nest and Black-nest Swiftlets. Before walking to the cave Hazwan found a Short-nosed Fruit Bat roosting under a building and we then encountered our first troop of Maroon Langurs on the boardwalk to the cave.

In the cave itself we walked along a boardwalk, surrounded by enormous piles of bat guano, cockroaches and centipedes, and the occasional rat, with swiftlets flying around the cave entrances and thousands of bats clinging to the walls or wheeling high above us. Hazwan found one Mossy-nest Swiftlet sitting on its nest. Glossy Swiftlets were also still nesting, close to the entrance, but the Edible-nest and Black-nest Swiftlets had finishing breeding and their nests had been harvested. On the return walk from the cave we saw a Black-capped Babbler. In the late afternoon we watched the bats fly from the cave, attracting the attention of Bat Hawks, Brahminy Kites, a Rufous-bellied Hawk-Eagle and a Crested Serpent Eagle. We saw Bat Hawks and Brahminy Kites catch a number of bats, eating them in flight. The bats are so numerous that you can hear them flying over, as a whooshing sound. A pair of Rhinoceros Hornbills was seen a number of times, both near the cave entrance and while we watched the bats stream across the sky. Our first Wreathed Hornbill also flew over.

That night Julia, Hazwan and I spotlighted along the boardwalk at Sukau Rainforest Lodge, seeing a Lesser Indo-Malayan Chevrotain (Mouse-deer) that allowed very close approach, an Elegant Bronzeback (a tree snake) and a White-lipped Frog. Chevrotain means little goat in French. It is not a goat, deer or mouse; poorly named indeed. It is one of the world's smallest ungulates, about the size of a large rabbit with long legs.

## Day 6

Wednesday 10th September

Sukau; Lahad Datu and en route to Borneo Rainforest Lodge

Weather: Sunny morning, heavy cloud and thunder at Danum Valley

Some of us enjoyed a dawn walk along the boardwalk at the lodge before we all partook of a leisurely breakfast, packed our bags and were taken by boat to the minibus. On the walk Tony and Kathy caught up with Plantain Squirrel for the first time and we watched our first Horse-tailed Squirrel as it chewed wood from the base of a dead tree and then left, carrying the wood in its mouth, presumably as nesting material.

We then drove to Lahad Datu and enjoyed a very tasty lunch in a Chinese restaurant, after which we went to the offices of the Borneo Rainforest Lodge (BRL) at Danum Valley and transferred to two minibuses. The two hour drive to BRL was fairly uneventful other than for a large herd of Bearded Pigs on the road, mostly young piglets. We arrived at BRL mid-afternoon and were greeted by the charming staff. Most of us went for a short walk on the nature trail, a boardwalk next to the lodge buildings. It was already rather dark in the forest but we saw male and female Bornean Angle-headed Dragon, Plain Pygmy Squirrel, Horsfield's Babbler and, out in the open, Black Hornbill. A Buffy Fish Owl called attention to itself as it perched in view from the dining room verandah just before dinner. After dinner we went on a night drive with our BRL guide Lester perched atop the truck cabin with a spotlight as we stood or sat in the back of the open truck. We saw Red Giant and Black Flying Squirrels, Four-lined Frog and two sleeping birds, Red-naped Trogon and Black-and-crimson Pitta, the latter appearing as a blue and red ball.

When we returned to the lodge another BRL guide, Danny, was showing guests a very large black scorpion.

## Day 7

Thursday 11th September

### Borneo Rainforest Lodge

Weather: dry and mostly sunny in the morning after a somewhat misty start, clouded over in the afternoon

We started the day with a late breakfast at 7.00 before walking along the road to the canopy walk. A few people commented during breakfast on the noise of the Barking Gecko in or near their rooms. These very large geckos are well named and quite loud. Along the road we saw a troop of Maroon Langurs, Spotted Fantail, Bornean Black Magpie and a pair of Diard's Trogons, which allowed telescope views. Some people also caught up with Chestnut-breasted Malkoha that they missed at Sukau. The sunny conditions meant that bird activity was somewhat reduced during the canopy walk though we heard a distant Helmeted Hornbill and saw Banded Broadbill, Whiskered Treeswift and a pair of Buff-rumped Woodpeckers. Some of the group saw a *Draco*, a 'flying lizard' from the canopy walk. This is one of Borneo's so-called 'flying' animals, which invariably glide rather than fly. The walk back produced Rufous-crowned Babbler, Large-billed Blue Flycatcher and flight views of a pair of Rhinoceros Hornbills.

Mid-afternoon we walked the Sapa Babandil Trail, which runs, in part, along the Segama River and then comes out on the road for the return leg to the lodge. The forest was quiet though we had good views of Bornean Black Magpie, with some people making up for missing it this morning, and Rufous-winged Philentoma. The highlight though was the Small-clawed Otter, glimpsed by Kathy and Julia and identified by Lester. This is the world's smallest otter. Once back on the road we watched a Helmeted Hornbill high in a tree over the road as it gave its full call, a series of accelerating hoots ending in maniacal laughter, and then glided away...a remarkable bird with a remarkable call. A Rufous Piculet, a tiny nine cm long woodpecker, then provided some contrast to the 1.2 metre long hornbill. An immature Blyth's Hawk-Eagle drew attention to itself through incessant shrieking and we completed five species of hornbill for the day when we saw a flock of eight Bushy-crested Hornbills at the lodge.

We all went spotlighting with Lester before dinner around the lodge and on the nature trail boardwalk. Inside the forest we found two sleeping Bornean Angle-headed Dragons and a poorly named Dark-headed Cat Snake. Around a pond next to the road we saw two Triangle Keelbacks, a snake specialising in eating frogs, and a number of frog species including the 'flying' Harlequin Tree Frog and the strange-looking and foul-smelling File-eared Frog. The latter is named for a serrated ridge behind each eye.

## Day 8

Friday 12th September

### Borneo Rainforest Lodge

Weather: Rain overnight. Dry and some blue sky after a misty start. Rain in the early afternoon, then fine

The day began with 6.00 breakfast and the calls of three groups of East Bornean Grey Gibbon. We also had a delightful Whiskered Treeswift for company during breakfast.

After breakfast we took to the Segama trail which crosses the Segama River by suspension bridge and then meanders along close to the river. After a few encounters a Lantern Bug and a female Diard's Trogon we crossed the river again on another bridge and took a short detour to our intended destination, a fruiting fig. A Binturong had been reported from this tree yesterday and our target species didn't disappoint. We watched this largest and shaggy member of the civet family, and the only species with a prehensile tail, feed on figs for some time before we returned to the Segama trail. There was quite a bit of elephant dung along the trail, though typically no sign of the actual elephants. We eventually came out on the road beyond the canopy walk, which we used to return to the lodge. Birds seen on the walk back included Black-bellied Malkoha, Lesser Green Leafbird, Buff-necked Woodpecker and Yellow-bellied Bulbul. Rhinoceros Hornbills were commonly heard and seen during the morning walk.

Post-lunch rain meant that only Adrienne and Julia joined Lester and I for a short wander along tracks near the lodge. We quickly found some Maroon Langurs and Long-tailed Macaques and had views of Scaly-crowned Babbler, Hairy-backed Bulbul and Rufous-winged Philentoma. When we arrived back at the lodge a small group of people were watching an Orang-utan high in a tree across the Segama River. I fetched my telescope while Julia told the others. Shortly quite a large group of lodge guests and guides had assembled to watch the orangutan. Danny, a BRL guide, had spotted the movement when watching a Lesser Fish Eagle that Tony had photographed.

Tonight we went spotlighting in the truck pre-dinner. We started with a Greater Indo-Malayan Chevrotain crouched by the roadside just near the lodge. Next we encountered a very large tarantula on the tree trunk next to a large hollow, presumably its home. And we then met a guide and two others guests on foot looking at a Slow Loris high in a tree. We saw another Red Giant Flying Squirrel, which did a spectacular glide for us, and we finished with a Small-toothed Palm Civet in a tree on the return leg. An excellent night's spotlighting rounding off an extraordinary day for mammals, nine species seen in total, a Prevost's Squirrel at the lodge joining the species mentioned above.

## Day 9

Saturday 13th September

### Borneo Rainforest Lodge

Weather: Mostly sunny after a misty start, hot and humid by mid-morning. Torrential downpour during lunch, then fine though cloudy

We had another 6.30 departure, post-breakfast, this time by truck as we drove to the edge of the lodge's domain. We then walked back along the road. Initially it was misty, which, although not good for viewing wildlife, made for an attractive landscape. The mist cleared to blue skies and excellent light for bird watching. The group gradually split up as we wandered along at our own pace, Adrienne, Tony and I bringing up the rear by some distance. Birds seen included a perched pair of Wreathed Hornbills, showing the marked sexual dimorphism of this species, a small flock of Blue-rumped Parrots perched high, Oriental Honey-Buzzard, two Crested Goshawks, a trio of Red-bearded Bee-eaters and a Green Broadbill. We were met at lodge by a troop of Maroon Langurs right next to the main building.

Mid-afternoon, after the rain cleared, we walked to the Jacuzzi Pool. Birds were almost non-existent but we did see a female Great Angle-headed Dragon by the pool and *Sphenomorphus cyanolaemus* (a rainforest skink) on a fallen tree. It is often found along streams and will dive into water to escape predators. We saw some interesting invertebrates, including Rajah Brooke's Birdwing Butterfly, a trilobite beetle (in which the adult female retains the larval form and is heavily segmented, resembling a trilobite) and a plethora of Tiger Leeches.

Tonight, John and Margot stayed at the lodge, Adrienne and I spotlighted the Nature Trail and pond on foot and Tony, Kathy and Julia did a night drive. Adrienne and I found a Diadem Leaf-nosed Bat at a feeding roost just above head height along the boardwalk. This very large micro-bat allowed very close approach as it consumed its prey. We found a File-eared Frog in the forest and another four at the pond. Three of these were spawning due to the earlier downpour, the egg mass hanging from a leaf over the water for the tadpoles to drop in upon hatching. A Triangle Keelback lurked nearby, though it was too small to eat an adult File-eared Frog. We saw one more File-eared Frog, three Harlequin Tree Frogs and another keelback. The snakes were probably the same individuals as the earlier night.

The outward leg of the night drive found only a Red Giant Flying Squirrel but the return leg was very successful with another squirrel seen gliding, two Slow Loris, a Colugo and a Leopard Cat. The Colugo is an exceptionally strange animal, with only one close relative, the Philippine Colugo, the two species making up their own Order, Dermoptera. Unfortunately the animal didn't glide otherwise it would have shown how the gliding membrane encloses the tail, unlike flying squirrels where the tail is free. The Leopard Cat is the most widespread of all of Asia's small cats and, in Borneo, is only the size of a domestic cat. The three new mammals seen tonight by the two spotlighting teams added to an already impressive mammal list for the tour.

## Day 10

Sunday 14th September

Borneo Rainforest Lodge; en route to London via Lahad Datu and Kota Kinabalu

Weather: Humid, misty morning then overcast. Very heavy rain in early afternoon

We all left at 5.30 for the canopy walk. Tony and I saw two mouse-deer near the lodge, probably Greater. A Bat Hawk sped through the gloom but only I saw it go low over the road. We were taunted by calling gibbons on both sides of the road during our walk, with no sighting. We stayed on the canopy walk as the mist lifted and were treated to Banded and Black-and-yellow Broadbills, a pair of Scarlet Minivets, Green Iora and a female Ruby-cheeked Sunbird all in a tree next to the walk. On the walk back to the lodge we had excellent views of feeding Blue-crowned Hanging-Parrots as well as Silver-rumped Spinetail, Chestnut-winged and Sooty-capped Babblers, Arctic Warbler and Chestnut-breasted Malkoha.

After a leisurely breakfast everyone packed their bags and, after a final species checklist, we had an early lunch and then departed for Lahad Datu. On the drive we saw another Changeable Hawk-Eagle and two groups of Bearded Pigs, both with piglets. I saw a Black Eagle and a large orang-utan, but by the time we stopped and reversed I couldn't locate the animal. At the airport, Hazwan and I said our goodbyes and everyone else began the journey home to the UK.



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Lesser Indo-Malayan Chevrotain



Sub-adult male Proboscis Monkey

## Species Lists

**Mammals** (S = seen; H = heard only; E = Endemic; names in brackets indicate superseded names from *A field guide to the mammals of Borneo* (Payne *et al.* 1985). Not all participants saw all these species).

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Large Treeshrew	<i>Tupaia tana</i>	-	S	-	Two seen foraging on the ground along Menaggol Creek.
Short-nosed Fruit Bat	<i>Cyanopterus brachyotis</i>	-	S	-	One roosting in a building at Gomantong Cave.
Diadem Leaf-nosed (Roundleaf) Bat	<i>Hipposideros diadema</i>	-	-	S	One seen at Borneo Rainforest Lodge (BRL).
leaf-nosed bat species	<i>Hipposideros</i> sp.	-	S	-	One flapping about on the floor of Gomantong Cave.
Wrinkle-lipped Bat	<i>Tadarida plicata</i>	-	-	-	100,000s seen emerging from Gomantong Cave.
Colugo	<i>Cynocephalus variegatus</i>	-	-	S	One seen on a night drive at BRL.
Bornean Slow Loris	<i>Nycticebus menagensis</i> ( <i>coucang</i> )	-	-	S	Three seen on night drives at BRL.
Maroon Langur <b>E</b>	<i>Presbytis rubicunda</i>	-	S	S	One troop at Gomantong Cave. Troops seen at BRL on four occasions.
Proboscis Monkey <b>E</b>	<i>Nasalis larvatus</i>	-	S	-	Two troops seen on Menaggol Creek.
Long-tailed Macaque	<i>Macaca fascicularis</i>	S	S	S	Seen at Sepilok Orang-utan Rehabilitation Centre (SORC). Troops were seen along the Kinabatangan River, Menaggol Creek and at Sukau Rainforest Lodge (SRL) and BRL.
Sunda Pig-tailed Macaque	<i>Macaca nemestrina</i>	S	S	-	Two were seen at the feeding platform at Sepilok Rainforest Discovery Centre (SRDC). Troops were seen at the Sun Bear Rehab Centre and along Menaggol Creek.
East Bornean Grey Gibbon <b>E</b>	<i>Hylobates funereus</i> ( <i>muelleri</i> )	H	H	H	Heard from Sepilok Nature Resort (SNR), SRL and BRL.
Bornean Orang-utan <b>E</b>	<i>Pongo pygmaeus</i>	S	S	S	Numerous semi-wild animals seen at SORC. Female and attendant young seen on Menaggol Creek. One seen at BRL on consecutive days. One seen on drive to Lahad Datu.
Giant Squirrel	<i>Ratufa affinis sandakanensis</i>	S	-	-	One seen at SORC. Heard at SRDC.
Prevost's Squirrel	<i>Callosciurus prevostii pluto</i>	S	S	S	Common throughout.
Plantain Squirrel	<i>Callosciurus notatus</i>	-	S	-	Seen twice at SRL.
Horse-tailed Squirrel	<i>Sundasciurus hippurus</i>	-	S	-	One seen at SRL.
Low's Squirrel	<i>Sundasciurus lowi</i>	S	-	-	One seen at SNR.
Plain Pygmy Squirrel	<i>Exilisciurus exilis</i>	-	S	S	One seen along Menaggol Creek. Seen at SRL. Seen on Nature Trail at BRL.
Black Flying Squirrel	<i>Aeronys tephromelas</i>	-	-	S	One seen at BRL during night drive.
Red Giant Flying Squirrel	<i>Petaurista petaurista</i>	-	-	S	Seen on three night drives at BRL.
Rat species	<i>Rattus</i> sp.	-	S	-	Several were seen in Gomantong Cave.
Oriental Small-clawed Otter	<i>Aonyx cinereus</i>	-	-	S	One seen at BRL.
Binturong	<i>Arctictis binturong</i>	-	-	S	One seen during the day at BRL.
Small-toothed Palm Civet	<i>Arctogalida trivirgata</i>	-	-	S	One seen on night drive at BRL.
Leopard Cat	<i>Prionailurus (Felis) bengalensis</i>	-	-	S	One seen on a night drive at BRL.
Bearded Pig	<i>Sus barbatus</i>	-	S	S	Two seen along Menaggol Creek, probably more present. Three groups, mostly piglets, seen on the road into BRL.
Lesser Indo-Malayan Chevrotain (Mouse-deer)	<i>Tragulus kanchil javanicus</i>	-	S	-	One seen during a spotlighting walk at SRL.
Greater Indo-Malayan Chevrotain (Mouse-deer)	<i>Tragulus napu</i>	-	-	S	One seen at lodge at night at BRL.

Birds (S = seen; H = heard only; E = Endemic; I = Introduced; names follow *A field guide to the birds of Borneo* (Myers 2010), names in brackets indicate substantial differences in common names for the most likely alternative guide *Phillipps' field guide to the Birds of Borneo: Sabah, Sarawak, Brunei and Kalimantan* (Phillipps & Phillipps 2014). No one person saw all these species. Not all species heard only during the trip are listed below, only notable species and/or species brought to the attention of participants are included). Species seen but not listed for a location were seen in transit.

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Chestnut-necklaced Partridge	<i>Arborophila charltonii</i>	-	H	-	One heard along Menaggol Creek.
Great Argus	<i>Argusianus argus</i>	-	-	H	Heard at BRL.
Lesser Adjutant	<i>Leptoptilos javanicus</i>	-	-	-	10 seen in flight along lower reaches of Kinabatangan River.
Purple Heron	<i>Ardea purpurea</i>	-	-	-	One seen perched high along Kinabatangan River downstream of Sukau.
Great Egret	<i>Ardea alba</i>	-	S	-	Common along the Kinabatangan River.
Little Egret	<i>Egretta garzetta</i>	-	-	-	Two seen along the Kinabatangan River.
Oriental Darter	<i>Anhinga melanogaster</i>	S	-	-	One seen flying over SNR. One seen flying over the SRDC.
White-fronted (Bornean) Falconet E	<i>Microhierax latifrons</i>	S	-	-	One seen perched high on a dead branch at SORC.
Jerdon's Baza	<i>Aviceda jerdoni</i>	H	-	-	One was heard while we watched the Sun Bears at SORC.
Oriental Honey-Buzzard	<i>Pernis ptilorhynchus</i>	S	-	S	One seen from canopy walk at SRDC. One seen along road at BRL.
Bat Hawk	<i>Macheiramphus alcinus</i>	-	S	S	At least two hunting bats at Gomantong Cave. One seen at dawn along road at BRL.
Brahminy Kite	<i>Haliastur indus</i>	S	S	-	Two seen over SNR. Several seen along the Kinabatangan River.
White-bellied Sea Eagle	<i>Haliaeetus leucogaster</i>	S	-	-	A pair of immatures was seen high above the feeding platform at SORC.
Lesser Fish Eagle	<i>Ichthyophaga humilis</i>	-	-	S	One seen a couple of times on the Segama River at BRL.
Crested Serpent-Eagle	<i>Spilornis cheela</i>	-	S	S	Pair seen soaring over the Kinabatangan River. One seen at Gomantong. Seen a couple of times at BRL.
Crested Goshawk	<i>Accipiter trivirgatus</i>	-	-	S	A single and a pair seen in flight along the road at BRL.
Black Eagle	<i>Ictinaetus malayensis</i>	-	-	S	Pair and a single seen soaring at BRL. One seen while driving out of BRL to Lahad Datu.
Changeable Hawk-Eagle	<i>Nisaetus cirrhatus</i>	-	S	-	One seen along Menaggol Creek. One seen on drive to BRL. Both dark-phase birds. One pale bird seen while driving out of BRL to Lahad Datu.
Blyth's Hawk-Eagle	<i>Nisaetus alboniger</i>	-	-	S	One immature seen along the road at BRL.
Wallace's Hawk-Eagle	<i>Nisaetus nanus</i>	S	S	-	One seen perched at SRDC and one seen flying across the Kinabatangan River.
Rufous-bellied Hawk-Eagle	<i>Lophotriorchis kienerii</i>	-	S	S	One hunting bats at Gomantong and one seen soaring at BRL.
White-breasted Waterhen	<i>Amauornis phoenicurus</i>	S	-	-	One seen in Sandakan. One seen a few times at SNR.
Common Sandpiper	<i>Actitis hypoleucos</i>	-	-	-	One seen on Sandakan waterfront. Six seen along Kinabatangan River.
Common Redshank	<i>Tringa tetanus</i>	-	-	-	Four seen on lower reaches of Kinabatangan River.
Great Crested Tern	<i>Thalasseus bergii</i>	-	-	-	Common during boat trip from Sandakan to the mouth of the Kinabatangan River.
Rock Dove I	<i>Columba livia</i>	S	-	-	Common in Sandakan and Lahad Datu.
Spotted (-necked) Dove	<i>Streptopelia chinensis</i>	-	-	-	Common in Sandakan and Lahad Datu.
Emerald Dove	<i>Chalcophaps indica</i>	S	-	S	One was seen at SNR. One was seen at SORC. One was seen on drive to BRL.
Little Green Pigeon	<i>Treron olax</i>	-	S	-	One female seen along Menaggol Creek.
Green Imperial-Pigeon	<i>Ducula aenea</i>	S	S	S	Seen as singles or in small flocks at SRDC, along Kinabatangan River and Menaggol Creek and at BRL.
Blue-crowned Hanging-Parrot	<i>Loriculus galgulus</i>	-	-	S	Seen in flight from the canopy walk and a pair seen perched along the road at BRL.

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Blue-rumped Parrot	<i>Psittinus cyanurus</i>	-	-	S	Small flock seen along road at BRL.
Long-tailed Parakeet	<i>Psittacula longicauda</i>	S	-	-	Flock seen in flight at SORC.
Moustached Hawk-Cuckoo	<i>Hierococcyx vagans</i>	-	H	-	Heard along Menaggol Creek.
Violet Cuckoo	<i>Chrysococcyx xanthorhynchus</i>	S	-	-	One male seen from canopy walk at SRDC.
Black-bellied Malkoha	<i>Rhopodytes diardi</i>	S	-	-	One seen from the canopy walkway at SRDC. One seen along the road at BRL.
Red-billed Malkoha	<i>Zanclostomus javanicus</i>	S	-	-	A pair was seen at SORC.
Raffles's Malkoha	<i>Rhinorthis chlorophaeus</i>	S	S	-	One seen at SORC. Pair seen at SRL.
Chestnut-breasted Malkoha	<i>Zanclostomus curvirostris</i>	-	S	S	One seen at SRL on boardwalk. Seen three along the road at BRL.
Greater Coucal	<i>Centropus sinensis</i>	-	-	S	A coucal, almost certainly this species, seen from moving vehicle at BRL.
Barred Eagle-Owl	<i>Bubo sumatranus</i>	-	-	H	One heard during spotlighting drive at BRL.
Buffy Fish-Owl	<i>Ketupa ketupu</i>	-	-	S	One present each night next to the dining area at BRL.
Brown Wood Owl	<i>Strix leptogrammica</i>	-	H	-	Heard at SRL.
Brown Boobook (Hawk-Owl)	<i>Ninox scutulata</i>	S	-	-	One was seen and heard in the gardens of SNR.
Glossy Swiftlet	<i>Collocalia esculenta</i>	S	S	S	Seen at SNR. Nesting at Gomantong Cave. Seen at BRL.
Mossy-nest Swiftlet	<i>Aerodramus salangana</i>	-	S	-	One seen on nest at Gomantong Cave.
Black-nest Swiftlet	<i>Aerodramus maximus</i>	-	-	-	Presumably seen throughout, particularly at Gomantong Cave. No positive identification.
Edible-nest Swiftlet	<i>Aerodramus fuciphaga</i>	-	-	-	Presumably seen throughout, particularly at Gomantong Cave. No positive identification.
Silver-rumped Spinetail	<i>Rhaphidura leucopygialis</i>	S	-	S	Seen regularly at ponds at SNR. Seen at BRL.
Brown-backed Needletail	<i>Hirundapus giganteus</i>	-	S	S	Two seen over the Kinabatangan River. Several seen at BRL.
Grey-rumped Treeswift	<i>Hemiprocne longipennis</i>	S	-	-	Several seen at SNR.
Whiskered Treeswift	<i>Hemiprocne comata</i>	-	-	S	Seen during drive to BRL and from the canopy walk. Seen each morning at breakfast at BRL.
Red-naped Trogon	<i>Harpactes kasumba</i>	-	-	S	One seen asleep during spotlighting at BRL. Female seen on Segama trail at BRL.
Diard's Trogon	<i>Harpactes diardii</i>	-	-	S	Male seen at start of canopy walk at BRL. Female seen on Segama trail at BRL.
Cinnamon-rumped Trogon	<i>Harpactes orrhophaeus</i>	-	-	H	Heard along the road at BRL.
Scarlet-rumped Trogon	<i>Harpactes duvaucelii</i>	-	S	-	One male seen and another bird heard along Menaggol Creek.
Oriental Dollarbird	<i>Eurystomus orientalis</i>	S	S	-	Single birds seen twice at SORC. Seen along Kinabatangan River and Menaggol Creek.
Stork-billed Kingfisher	<i>Pelargopsis capensis</i>	S	S	-	Pair seen at SORC. Several seen on Kinabatangan River and Menaggol Creek. One seen on the Segama River at BRL.
Collared Kingfisher	<i>Todiramphus chloris</i>	-	-	-	Three seen in Sandakan during bus drive.
Rufous-backed (Oriental Dwarf) Kingfisher	<i>Ceyx rufidorsa</i>	-	S	-	One flew briefly into Gomantong Cave.
Blue-eared Kingfisher	<i>Alcedo meninting</i>	-	S	-	Several seen on Kinabatangan River and Menaggol Creek.
Red-bearded Bee-eater	<i>Nyctornis amictus</i>	S	-	S	Seen from canopy walks at SRDC. Three seen along road at BRL. One seen at the lodge.
Blue-throated Bee-eater	<i>Merops viridis</i>	S	S	-	Two seen at SORC and several at SNR. One seen along Menaggol Creek.
Bushy-crested Hornbill	<i>Anorrhinus galeritus</i>	S	-	S	Flock of four, including two young birds, seen at SNR. Small flock seen along Kinabatangan River downstream of Sukau. Flock of eight seen at BRL.
Oriental Pied Hornbill	<i>Anthracoceros albirostris</i>	-	S	-	Singles and pairs seen several times along Kinabatangan River and Menaggol Creek.
Black Hornbill	<i>Anthracoceros malayanus</i>	S	-	S	Pairs seen at SORC, SNR and SRDC. Seen at BRL quite often especially at the lodge.
Rhinoceros Hornbill	<i>Buceros rhinoceros</i>	S	-	-	Seen a few times at Sepilok. Seen regularly at BRL.
Helmeted Hornbill	<i>Rhinoplax vigil</i>	-	-	S	One seen perched and calling along the road at BRL.
Wrinkled Hornbill	<i>Aceros corrugatus</i>	-	S	S	One seen along Menaggol Creek. One seen flying across Kinabatangan River. One seen along road at BRL.

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Wreathed Hornbill	<i>Rhyticeros undulatus</i>	-	S	S	One was seen at Gomantong as we watched the bats fly out. Seen a few times at BRL.
Gold-whiskered Barbet	<i>Megalaima chrysopogon</i>	S	-	-	One seen at SORC.
Yellow-crowned Barbet	<i>Megalaima henricii</i>	-	-	H	Heard occasionally.
Blue-eared Barbet	<i>Megalaima australis duvaucelii</i>	H	H	H	Heard often.
Brown Barbet	<i>Caloramphus fuliginosus</i>	S	S	S	Two or more seen at SORC on several occasions. Three seen along Menaggol Creek. Seen at SRL and BRL.
Rufous Piculet	<i>Sasia abnormis</i>	S	-	S	Seen at SORC. Seen at BRL a number of times.
Banded Woodpecker	<i>Chrysophlegma miniaceum</i>	H	-	-	Heard at SORC.
Orange-backed Woodpecker	<i>Reinwardtipicus validus</i>	-	S	-	One seen along Menaggol Creek.
Buff-rumped Woodpecker	<i>Meiglyptes tristis</i>	-	-	S	Pair seen from canopy walk at BRL.
Buff-necked Woodpecker	<i>Meiglyptes tukki</i>	-	-	S	Seen once at BRL near lodge.
Green Broadbill	<i>Calyptomena viridis</i>	-	-	S	Seen along the road at BRL.
Black-and-red Broadbill	<i>Cymbirhynchus macrorhynchos</i>	S	S	-	One seen at SRDC and seen twice along Menaggol Creek.
Banded Broadbill	<i>Eurylaimus javanicus</i>	-	-	S	One seen from the canopy walk at BRL.
Black-and-yellow Broadbill	<i>Eurylaimus ochromalus</i>	H	S	S	Three seen along Menaggol Creek. One seen along road at BRL. Often heard.
Black-and-crimson (Black-headed) Pitta E	<i>Pitta ussheri</i>	H	-	S	One heard at SRDC. One seen sleeping during spotlighting at BRL. Heard a number of times at BRL.
Lesser Cuckooshrike	<i>Coracina fimbriata</i>	-	-	S	Seen twice at BRL.
Scarlet Minivet	<i>Pericrocotus speciosus</i>	-	-	S	Pair seen from the canopy walk at BRL.
Dark-throated Oriole	<i>Oriolus xanthonotus</i>	-	-	S	Several seen along the road at BRL.
Rufous-winged Philentoma	<i>Philentoma pyroptera</i>	-	-	-	Seen twice at BRL.
White-breasted Woodswallow	<i>Artamus leucorhynchus</i>	-	-	-	One seen in Sandakan in transit.
Common Iora	<i>Aegithina tiphia</i>	S	-	-	Pair seen at SNR.
Green Iora	<i>Aegithina viridissima</i>	S	-	S	Seen from the canopy walk at SRDC. Seen at BRL including from canopy walk.
Pied Fantail	<i>Rhipidura javanica</i>	S	S	S	Common in open and disturbed areas and on forest edge.
Spotted Fantail	<i>Rhipidura perlata</i>	-	-	S	One seen along the road at BRL.
Black-naped Monarch	<i>Hypothymis azurea</i>	-	S	-	One seen along Menaggol Creek. Several seen at BRL.
Bronzed Drongo	<i>Dicrurus aeneus</i>	S	-	-	Seen from the canopy walk at SRDC.
Greater Racket-tailed Drongo	<i>Dicrurus paradiseus</i>	-	S	S	Single birds seen at Sukau and along the road at BRL.
Slender-billed Crow	<i>Corvus enca</i>	-	S	S	Seen and heard regularly at Sukau. Heard at BRL.
(Bornean) Black Magpie E	<i>Platysmurus (aterrimus) leucopterus</i>	-	-	S	Seen along the road at BRL. Two seen on Sapa Babandil trail at BRL.
Long-tailed Shrike	<i>Lanius schach</i>	-	S	-	One seen perched on wires during bus trip from Sukau to Gomantong Cave. This sighting is inconsistent with Myers (2010) but Phillipps & Phillipps (2014) note its recent occurrence in eastern Sabah.
Plain Sunbird	<i>Anthreptes simplex</i>	S	-	S	One seen at SORC and one seen feeding two fledged young from the canopy walk at SRDC. Seen at BRL in gardens near dining room.
Brown-throated Sunbird	<i>Anthreptes malacensis</i>	S	S	S	Common at SNR. One seen at Sukau. Seen at BRL.
Ruby-cheeked Sunbird	<i>Chalcoparia singalensis</i>	S	-	S	One or more males seen at SORC. Seen from the canopy walk at SRDC. Seen along road at BRL.
Crimson Sunbird	<i>Aethopyga siparaja</i>	S	-	S	Seen at SORC. Male in the gardens at BRL.
Purple-naped Sunbird	<i>Hypogramma hypogrammicum</i>	S	-	-	Male seen at SORC.
Little Spiderhunter	<i>Arachnothera longirostra</i>	S	-	S	Seen at SRDC. Seen at BRL.
Thick-billed Spiderhunter	<i>Arachnothera crassirostris</i>	S	-	S	Seen regularly at SNR. Seen in gardens at BRL.

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Yellow-rumped Flowerpecker E	<i>Prionochilus xanthopygius</i>	S	S	-	Seen from the canopy walk at SRDC and along Menaggol Creek. Pair seen at BRL.
Orange-bellied Flowerpecker	<i>Dicaeum trigonostigma</i>	S	-	S	Seen once at SORC. Seen in gardens at BRL.
Plain Flowerpecker	<i>Dicaeum minullum</i>	S	-	-	Seen from the canopy walk at SRDC.
Scarlet-backed Flowerpecker	<i>Dicaeum cruentatum</i>	-	S	-	Seen nesting along Menaggol Creek.
Greater Green Leafbird	<i>Chloropsis sonnerati</i>	-	-	S	Seen along road at BRL.
Lesser Green Leafbird	<i>Chloropsis cyanopogon</i>	-	-	S	Seen along road at BRL.
Dusky Munia E	<i>Lonchura fuscans</i>	S	S	S	One seen as we drove through Sandakan. Nesting at SRL. Seen along the Segama River and in the gardens at BRL.
Eurasian Tree Sparrow I	<i>Passer montanus</i>	S	S	S	Common in built up areas. Seen at SRL. Seen in gardens at BRL.
Javan Myna I	<i>Acridotheres javanicus</i>	-	-	-	Introduced. Seen in Sandakan. Supposedly not found in Sabah according to Myers (2010) but established at Sepilok in 2004 (Phillipps & Phillipps 2014).
Asian Glossy Starling	<i>Aplonis panayensis</i>	S	-	-	Seen at SORC and in Sandakan and Lahad Datu.
Common Hill Myna	<i>Gracula religiosa</i>	S	H	S	Seen repeatedly at SORC. Heard along Menaggol Creek. Seen at BRL numerous times.
Oriental Magpie-Robin	<i>Copsychus saularis</i>	-	-	S	Seen at BRL in gardens near dining room.
White-crowned Shama E	<i>Copsychus stricklandii</i>	H	S	S	Heard at SORC. Seen along Menaggol Creek. Seen at BRL around lodge.
White-crowned Forktail	<i>Enicurus leschenaulti</i>	-	-	S	Seen once at BRL.
Malaysian Blue Flycatcher	<i>Cyornis turcosus</i>	-	S	-	Pair seen along Menaggol Creek.
Large-billed Blue Flycatcher	<i>Cyornis caerulatus</i>	-	-	S	Seen once at BRL along road.
Asian Brown Flycatcher	<i>Muscicapa latirostris</i>	-	-	S	Seen three times along the road at BRL.
Black-headed Bulbul	<i>Pycnonotus atriceps</i>	-	-	S	Seen on drive to BRL.
Straw-headed Bulbul	<i>Pycnonotus zeylanicus</i>	-	-	H	Heard on the Segama River at BRL.
Yellow-vented Bulbul	<i>Pycnonotus goiavier</i>	S	S	S	Common around Sepilok and present at SRL and BRL.
Olive-winged Bulbul	<i>Pycnonotus plumosus</i>	S	-	S	Seen at SRDC and BRL.
Cream-vented Bulbul	<i>Pycnonotus simplex</i>	-	-	S	Seen along road at BRL.
Red-eyed Bulbul	<i>Pycnonotus brunneus</i>	S	-	S	Seen at SRDC and BRL.
Spectacled Bulbul	<i>Pycnonotus erythrophthalmos</i>	S	-	S	Seen at SORC and BRL.
Buff-vented Bulbul	<i>Iole olivacea</i>	S	-	-	Seen at SORC on the feeding platform. Seen at SRDC.
Hairy-backed Bulbul	<i>Tricholestes criniger</i>	S	-	S	Seen a few times, including at the feeding station at SORC. Seen a few times at BRL.
Yellow-bellied Bulbul	<i>Alophoixus phaeocephalus</i>	-	-	S	Seen once at BRL on Sapo trail and again near the Nature Trail.
Streaked Bulbul	<i>Ixos malaccensis</i>	-	-	S	Seen from the canopy walk at BRL.
House (Pacific) Swallow	<i>Hirundo tahitica</i>	S	S	S	Common.
Arctic Warbler	<i>Phylloscopus borealis</i>	-	-	S	One seen along road and one in gardens at BRL.
Brown Fulvetta	<i>Alcippe brunneicauda</i>	-	-	S	One seen from canopy walk and one along road at BRL.
Chestnut-winged Babbler	<i>Stachyris erythroptera</i>	S	H	S	Seen at SORC. Seen in mixed species flock at BRL a couple of times. Heard fairly often.
Bold-striped Tit-Babbler	<i>Macronus bornensis</i>	S	-	S	Seen at SORC. Seen in gardens at BRL.
Black-capped Babbler	<i>Pellorneum capistratum</i>	-	S	-	Seen from boardwalk to Gomantong Cave.
Sooty-capped Babbler	<i>Malacopteron affine</i>	-	H	S	Seen at BRL along the road a couple of times.
Scaly-crowned Babbler	<i>Malacopteron cinereum</i>	-	-	S	Seen at BRL.
Rufous-crowned Babbler	<i>Malacopteron magnum</i>	-	-	S	Singles and pairs seen along road at BRL.
White-chested Babbler	<i>Trichastoma rostratum</i>	-	S	-	Seen several times along Menaggol Creek.
Horsfield's Babbler	<i>Malacocincla sepiaria</i>	-	H	S	Heard at SRL. Seen at BRL.
Ashy Tailorbird	<i>Orthotomus ruficeps</i>	S	S	-	Common.
Rufous-tailed Tailorbird	<i>Orthotomus sericeus</i>	S	S	-	Common.

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Dark-necked Tailorbird	<i>Orthotomus atrogularis</i>	-	-	S	Seen more than once along road at BRL.
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	-	-	S	Seen in gardens at BRL and along road.

**Reptiles** (S = seen; H = heard only; E = Endemic). Names in brackets indicate some alternative common names. Not all participants saw all these species).

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Saltwater Crocodile	<i>Crocodylus porosus</i>	-	S	-	One seen spotlighting on Kinabatangan River. One seen during day in Menaggol Creek.
Crested Green Lizard	<i>Bronchocela cristatella</i>	-	S	S	Seen at SRL, Gomantong Cave and BRL. Common.
Flying Lizard species	<i>Draco</i> sp.	-	-	S	One seen from the canopy walk at BRL. One seen along road at BRL. The latter was probably <i>D. melanopogon</i> .
Bornean Angle-headed Dragon <b>E</b>	<i>Gonocephalus bornensis</i>	-	-	S	Pair seen on Nature Trail at BRL. Female present the next day. Two spotlighted at BRL.
Great Angle-headed Dragon	<i>Gonocephalus grandis</i>	-	-	S	One female seen at the Jacuzzi Pool at BRL.
A gecko	<i>Cosymbotus platyurus</i>	S	-	-	Several seen on the walls and ceilings at the dining area at SNR.
Smith's Giant Gecko (Barking Gecko)	<i>Gekko smithii</i>	H	S	H	One was seen in the dining area at SRL.
Asian House Gecko	<i>Hemidactylus frenatus</i>	H	S	S	Seen or heard at all locations.
Striped Bornean Tree Skink <b>E</b>	<i>Apterygodon vittatum</i>	S	-	S	Several seen at SORC, including on the tree at the feeding platform. Seen at the dining room at BRL.
A forest skink	<i>Sphenomorphus cyanolaemus</i>	-	-	S	One was seen on the Jacuzzi Trail at BRL. A <i>Sphenomorphus</i> that was probably this species was also seen on the Sapa Balandil Trail.
A forest skink	<i>Sphenomorphus</i> sp.	S	-	-	One seen at SRDC.
Water Monitor	<i>Varanus salvator</i>	S	S	S	Common.
Mangrove (Yellow-ringed) Cat Snake	<i>Boiga dendrophila</i>	-	S	-	Seen once on Menaggol Creek.
Dark-headed Cat Snake	<i>Boiga nigriceps</i>	-	-	S	One seen at night on Nature Trail boardwalk at BRL.
Elegant Bronzeback	<i>Dendrelaphis formosus</i>	-	S	-	One seen spotlighting on boardwalk at SRL.
Triangle (Red-sided) Keelback	<i>Xenochrophis trianguligerus</i>	-	-	S	Two seen at the pond near the lodge on two nights and in early morning.

**Amphibians** (S = seen; H = heard only; E = Endemic; Names taken from *A field guide to the frogs of Borneo* (Inger & Stuebing 2005). No one participant saw all these species).

Common Name	Scientific Name	Sepilok	Sukau	Danum Valley	Comments
Bornean Horned Frog	<i>Megaphrys nasuta</i>	-	-	H	Heard night drives at BRL.
Tree Hole Frog <b>E</b>	<i>Metaphrynella sundana</i>	-	-	H	Heard on Nature Trail at BRL.
Grass Frog	<i>Fejervarya limnocharis</i>	H	H	S	Very common in disturbed areas. One seen on lawns at BRL.
Giant River Frog	<i>Limnonectes leporinus</i>	-	S	-	Seen along the Kinabatangan River during spotlighting.
White-lipped Frog	<i>Rana chalconota</i>	-	S	-	One seen at SRL from boardwalk.
Four-lined Tree Frog	<i>Polypedates leucomystax</i>	S	-	S	Several seen at SNR after heavy rain. Seen at BRL.
Dark-eared Tree Frog	<i>Polypedates macrotis</i>	-	-	S	One seen at BRL.
File-eared Tree Frog	<i>Polypedates otitophus</i>	-	-	S	At least five present near the lodge, breeding in pond.
Harlequin Tree Frog	<i>Rhacophorus pardalis</i>	-	-	S	Three seen at BRL.

## Other Fauna

Some of the more spectacular invertebrates encountered included Long-legged Centipede, Scorpion, Phasmids (stick insect), Giant Wood Ant, Tractor, Pill and Giant Millipedes, Lantern Bug, several Birdwing Butterfly species and a large Tarantula.