

CHECKLIST OF WILDLIFE SPECIES RECORDED IN THE LOWER KINABATANGAN, SABAH.

by
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ABSTRACT : A checklist of wildlife recorded in the Lower Kinabatangan in eastern Sabah is presented. Surveys for wildlife were carried out mainly in and around two areas, Sukau and Abai. This list although not exhaustive provides further information on species distribution. The lower Kinabatangan area has a high diversity and density of wildlife, apart from having the largest floodplain and the largest intact mangrove in Sabah.

INTRODUCTION

This paper presents a checklist of wildlife species in the Lower Kinabatangan, eastern Sabah (figure 1), recorded during a two-year study on *Nasalis larvatus* (Boonratana, 1993a), and an eleven-month wildlife survey (Sharma, 1992) in the region. The main aims of the two-year study were to describe the feeding and ranging behaviour, and social organization of *N. larvatus* in relation to its habitat. While studying *N. larvatus*, many other animal species were also seen, heard, or their signs encountered. The main aim of the eleven-month wildlife survey was to record the presence and estimate the abundance of wildlife fauna.

METHODS

Fieldwork to study the behaviour and ecology of *N. larvatus* was conducted from January 1990 to December 1991 inclusive. The study was carried out at Sukau (118° 30'E, 5° 30'N), and Abai (118° 22'E, 5° 04'N), within the Lower Kinabatangan region. During this period, the presence of wildlife fauna was recorded both opportunistically and systematically, based on actual sightings and on evidence made by the animals such as vocalizations, dung, tracks, nest, etc. Opportunistic recording were carried out when conducting river surveys and full-day follows for *N. larvatus* (Boonratana, 1993a), whereas systematic surveys using the line transect method (Burnham *et al.*, 1980) were carried out by walking ten one-kilometer long straight line transects (Sharma, 1992, Boonratana, 1993a). Transects were placed on both sides of the Menanggul River in the Sukau study area at the 1st, 3rd, 5th, 7th and 9th kilometer mark, and were perpendicular to the river's edge. Each transect was walked once a month between 0630

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to 1130 hours. Occasionally, night surveys by boat were carried out along portions of the Kinabatangan River and its tributaries.

STUDY AREA

The Lower Kinabatangan region is mostly under forest on flat land subjected to different degrees of disturbance. Open water, hills, villages and plantations are sparsely scattered throughout (Payne, 1989). The Kinabatangan River is Sabah's largest river, with a length of 560 km, and a catchment area of 16,800 km² (Scott, 1989). The Kinabatangan floodplain, measuring approximately 280,000 ha, is the largest and most important wetland in Sabah (Scott, 1989). There are many ox-bow lakes in the area from the middle reaches of the river down to the coastal plains, which are at various stages of infilling (Boonratana, 1993a). It has a humid tropical climate with an average annual rainfall of about 2,600 mm, and mean diurnal temperatures range from 22°C to 32°C (Scott, 1989).

The region has a complex mixture of natural vegetation (figure 2). At Sukau, the principal types in the flood-prone areas are riverine forest and freshwater swamp forest. There are also some open reed swamps. In the flood-free zone, there are remnants of pristine lowland dipterocarp forest, logged-over swamp forest and burnt lowland dipterocarp forest, and cocoa and oil palm plantations (Boonratana, 1993a). At Abai, the principal vegetation is mangrove forest with extensive stands of *Nypa fruticans* at the inland edge and the upper tidal limit of the estuaries. Upriver from this, beyond the influence of seawater, riverine forest and lowland swamp forest dominate in the seasonally flood-prone zone. Transitional forest exists where mangrove forest intergrades to riverine forest. There are also some forests on steep hills and flat ground (Boonratana, 1993a).

RESULTS

A checklist of mammals, birds and reptiles recorded at Sukau and Abai is given in Table 1. Only those species whose presence was recorded during the study period are included in the list. At Sukau, there at least 51 mammals species including two volant mammals, and 195 birds species. Ten primate species were found in the area, four of which were Bornean endemics namely *N. larvatus*, *P. rubicunda* (*P.r. rubicunda* and *P.r. chrysea*), and *Hylobates muelleri*. The other primates were *Pongo pygmaeus*, *Presbytis cristata*, *Macaca nemestrina*, *M. fascicularis*, *Nycticebus coucang* and *Tarsius bancanus*. This is one of only two known sites in Asia with ten primate species, and one of only two known sites in the world with four sympatric colobines, the other being Danum Valley Protection Forest Reserve, also in Sabah (Boonratana, 1993a, b & c; 1995; Boonratana & Sharma, 1994).

Other large mammals found in the area included *Elephas maximus*, *Bos javanicus*, *Cervus unicolor*, *Muntiacus muntjak*, *Helarctos malayanus*, *Neofelis nebulosa*, *Felis*

planiceps, *F. bengalensis*, *Sus barbatus* and the critically endangered *Dicerorhinus sumatrensis* (Boonratana, 1993a; Boonratana & Sharma, 1994). All eight species of hornbills found in Borneo were recorded in the area. Five Bornean endemic birds occurred here, namely *Lonchura fuscans*, *Pityriasis gymnocephala*, *Ptilocichla leucogrammica*, *Cyornis superbus* and *Pitta baudii*. The ox-bow lakes were important breeding grounds for *Anhinga melanogaster* and *Crocodylus porosus*, both of which are becoming rare in other parts of northern Borneo (Boonratana, 1993a; Boonratana & Sharma, 1994).

At Abai, 17 non-volant mammal species and 75 bird species were found. The primate sighted at Abai were *N. larvatus*, *P. hosei*, *P.r. rubicunda*, *P.r. chrysea*, *P.cristata*, *M. nemestrina*, *M. fascicularis*, *H. muelleri* and *P. pygmaeus*. Other large mammals found included *E. maximus*, *D. sumatrensis*, *B. javanicus*, *C. unicolor*, *H. malayanus* and *S. barbatus*. All eight hornbill species were observed in the area. There were two Bornean endemic birds, *Pityriasis gymnocephala* and *Lonchura fuscans*, *Treron fulvicollis*, *T. olax* and *Psittacula longicauda* were particularly common. It probably was an important site for *Leptoptilos javanicus* and the rare *Cinona stormi*. *Crocodylus porosus* although not common was also present (Boonratana, 1993a).

CONCLUSIONS

The Lower Kinabatangan area has a high diversity and abundance of wildlife, in particular primates, of which ten species are found in the area. Also of great importance, is the presence of *D. sumatrensis* and *B. javanicus* in the region. For both species, this is one of the few remaining populations in the world. Both these mega-herbivores are rapidly declining towards extinction unless drastic measures are taken. Furthermore, the area probably has the highest population of *N. larvatus* in Sabah.

Although the checklist given in this paper is not exhaustive, it nevertheless includes species not previously recorded in the area and helps to provide additional information to the distribution of wildlife in Borneo. Beside being important to wildlife, the Kinabatangan floodplain, measuring 280,000 ha, is the largest and possibly the most important wetland in Sabah. Also the area has the largest intact mangrove in the state, measuring approximately 40,500 ha. Thus, it is of the utmost importance immediately to conserve the lower Kinabatangan area to ensure that all of its endangered and diverse wildlife is preserved.

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Table 1. -- List of wild fauna recorded at Sukau and Abai².

* criteria for recording wild fauna:-

- 1 - visual sighting
- 2 - vocalization
- 3 - tracks
- 4 - dung
- 5 - nests
- 6 - other signs (wallows, claw marks, etc.)

Mammals

Common name	Scientific name	Sukau	Abai
Common treeshrew	<i>Tupaia glis</i>	1*	
Slender treeshrew	<i>Tupaia gracilis</i>	1	
Striped treeshrew	<i>Tupaia dorsalis</i>	1	
Large treeshrew	<i>Tupaia tana</i>	1	
Dusky roundleaf bat	<i>Hipposideros ater</i>	1	
Large flying fox	<i>Pteropus vampyrus</i>	1	
Slow loris	<i>Nycticebus coucang</i>	1	
Western tarsier	<i>Tarsius bancanus</i>	1	
Hose's langur	<i>Presbytis hosei</i>	1	1
Maroon langur	<i>Presbytis rubicunda rubicunda</i>	1	1
	<i>P.r. chrysea</i>	1	1
Silvered langur	<i>Presbytis cristata</i>	1	1
Proboscis monkey	<i>Nasalis larvatus</i>	1	1
Long-tailed macaque	<i>Macaca fascicularis</i>	1	1
Pig-tailed macaque	<i>Macaca nemestrina</i>	1	1
Bornean gibbon	<i>Hylobates muelleri</i>	1,2	1,2
Orangutan	<i>Pongo Pygmaeus</i>	1,2,5	1,2,5
Pangolin	<i>Manis javanica</i>	1,6	
Giant squirrel	<i>Ratufa affinis</i>	1,2	
Prevost's squirrel	<i>Callosciurus prevostii</i>	1	
Plantain squirrel	<i>Callosciurus notatus</i>	1	
Ear-spot squirrel	<i>Callosciurus adamsi</i>	1	
Horse-tailed squirrel	<i>Sundasciurus hippurus</i>	1	
Slender squirrel	<i>Sundasciurus tenuis</i>	1	
Plain pigmy squirrel	<i>Exilisciurus exilis</i>	1	
Low's squirrel	<i>Sundasciurus lowii</i>	1	

House rat	<i>Ratus ratus</i>	1	1
Malayan sun bear	<i>Helarctos malayanus</i>	3,4,6	
Yellow-throated	<i>Martes flavigula</i>	1	
Malay weasel	<i>Mustela nudipes</i>	1	
Ferret badger	<i>Melogale personata</i>	1	
Malay badger	<i>Mydaus javanicus</i>	1	
Smooth otter	<i>Lutra perspicillata</i>	1	1
Oriental small-clawed otter	<i>Aonyx cinerea</i>	1	
Malay civet	<i>Viverra zangalunga</i>	1	
Binturong	<i>Arctitis binturong</i>		1
Common palm civet	<i>Paradoxurus hermaphroditus</i>	1	
Banded civet	<i>Hemigalus derbyanus</i>	1	
Small-toothed plam civet	<i>Arctogalidia trivirgata</i>	1	
Short-taild mangoose	<i>Herpestes brachyurus</i>	1	
Collared mangoose	<i>Herpestes semitorquatus</i>	1	
Clouded leopard	<i>Neofelis nebulosa</i>	1,3	
Marble cat	<i>Felis marmorata</i>	1,3	
Flat-headed cat	<i>Felis planiceps</i>	1,3	
Leopard cat	<i>Felis bengalensis</i>	1,3	
Asian elephant	<i>Elephas maximus</i>	1,2,3	3
Sumatran rhinoceros	<i>Dicerorhinus sumatrensis</i>	3	3
Bearded pig	<i>Sus barbatus</i>	1,3,5	1,3,5
Leser mouse-deer	<i>Trangulus javanicus</i>	1,3	
Greater mouse-deer	<i>Tragulus napu</i>	1,3	1,3
Samber deer	<i>Cervus unicolor</i>	1,3,4	1,3,4
Banteng	<i>Bos javanicus</i>	3,4	3,4
Common barking deer	<i>Muntiacus muntjak</i>	1,2,3,4	

²Taxonomy for mammals follow Payne *et al.*, 1985; and taxonomy for birds follow MacKinnon & Phillipps, 1993.

Birds

Common name	Scientific name	Sukau	Abai
Oriental darter	<i>Anhinga melanogaster</i>	1	1
Great-billed	<i>Ardea sumatrana</i>	1	
Purple heron	<i>Ardea purpurea</i>	1	1
Great egret	<i>Egretta alba</i>	1	1
Intermediate egret	<i>Egretta intermedia</i>	1	1
Little egret	<i>Egretta garzetta</i>	1	

Chinese egret	<i>Egretta eulophotes</i>	1	1
Cattle egret	<i>Bubulcus ibis</i>	1	1
Striated heron	<i>Butorides striatus</i>	1	1
Yellow bittern	<i>Ixobrychus sinensis</i>	1	
Cinnamon bittern	<i>Ixobrychus cinnamomeus</i>	1	
Black bittern	<i>Dupetor flavicollis</i>	1	
Storm's stork	<i>Ciconia stormi</i>	1	1
Lesser adjutant	<i>Leptoptilos javanicus</i>		1
Bat hawk	<i>Machearamphus alcinus</i>		1
Jerdon's baza	<i>Aviceda jerdoni</i>	1	
Oriental honey-buzzard	<i>Pernis ptilorhynchus</i>	1	
Brahminy kite	<i>Haliastur indus</i>	1	1
Crested goshawk	<i>Accipiter trivirgatus</i>	1	
White-bellied sea-eagle	<i>Haliaeetus leucogaster</i>	1	1
Grey-headed fish-eagle	<i>Ichthyophaga ichthyaetus</i>	1	
Lesser fish-eagle	<i>Ichthyophaga humilis</i>	1	
Crested serpent-eagle	<i>Spilornis cheela</i>	1	1
Osprey	<i>Pandion haliaetus</i>	1	
Chestnut-necklaced partridge	<i>Arborophila charltoni</i>	1	
Crested wood partridge	<i>Rollulus rouloul</i>	1	
Crested fireback	<i>Lophura ignita</i>	1	1
Great argus	<i>Argusianus argus</i>	1	1
White-breasted waterhen	<i>Amaurirnis phoenicurus</i>	1	1
Malaysian plover	<i>Charadrius peronii</i>	1	
Common sandpiper	<i>Actitis hypoleucos</i>	1	1
Large green pigeon	<i>Treron capelli</i>	1	
Thick-billed green pigeon	<i>Treron curvirostra</i>	1	
Cinnamon-headed pigeon	<i>Treron Fulvicollis</i>	1	1
Little green pigeon	<i>Treron olax</i>	1	1
Pink-necked green pigeon	<i>Treron vernans</i>	1	
Jambu fruit dove	<i>Ptilinopus jambu</i>	1	1
Green imperial pigeon	<i>Ducula aenea</i>	1	1
Grey imperial pigeon	<i>Ducula pickeringi</i>	1	1
Zebra dove	<i>Geopelia strata</i>	1	
Emerald dove	<i>Chalcophaps indica</i>	1	
Long-tailed parakeet	<i>Psittacula longicauda</i>	1	1
Blue-crowned hanging-parrot	<i>Loriculus galgulus</i>	1	
Blue-throated bee-eater	<i>Merops viridis</i>	1	1
Blue-tailed bee-eater	<i>Merops philippinus</i>	1	
Dollarbird	<i>Eurystomus orientalis</i>	1	1
Hodgson's hawk-cuckoo	<i>Cuculus fugax</i>	1	1
Moustached hawk-cuckoo	<i>Cuculus vagans</i>	1	
Plaintive cuckoo	<i>Cacomantis merulinus</i>	1	
Violet cuckoo	<i>Chrysococcyx xanthorhynchus</i>	1	
Drongo cuckoo	<i>Surniculus lugubris</i>	1	

Raffle's malkoha	<i>Phaenicophaeus chlorophaeus</i>	1	
Red-billed malkoha	<i>Phaenicophaeus javanicus</i>	1	
Chestnut-breasted malkoha	<i>Phaenicophaeus curvirostris</i>	1	1
Greater coucal	<i>Centropus sinensis</i>	1	1
Short-toed coucal	<i>Centropus rectunguis</i>	1	
Lesser coucal	<i>Centropus bengalensis</i>	1	
Sunda ground-cuckoo	<i>Carpococcyx radiceus</i>	1	
Reddish scops-owl	<i>Otus rufescens</i>	1	
Buffy fish-owl	<i>Ketupa ketupu</i>	1	
Brown wood-owl	<i>Strix leptogrammica</i>	1	
Gloud's frogmouth	<i>Batrachostomus stellatus</i>	1	
Malaysian eared nightjar	<i>Eurostopus temminckii</i>	1	
Glossy swiftlet	<i>Collocalia esculenta</i>		1
Silver-rumped swift	<i>Ramphidura leucopygialis</i>		1
Asian palm-swift	<i>Cypsiurus balasiensis</i>	1	1
Whiskered treeswift	<i>Hemiprocne comata</i>	1	1
Pacific swallow	<i>Hirundo tahitica</i>	1	1
Barn swallow	<i>Hirundo rustica</i>	1	
Diard's trogon	<i>Harpactes diardii</i>	1	
Red-naped trogon	<i>Harpactes kasumba</i>	1	
Scarlet-rumped trogon	<i>Harpactes duvaucelii</i>	1	
Banded kingfisher	<i>Lacedo pulchella</i>	1	
Rufous-collared kingfisher	<i>Actenoides concretus</i>	1	
Collared kingfisher	<i>Todirhamphus chloris</i>		1
Ruddy kingfisher	<i>Halcyon coromanda</i>	1	
Black-capped kingfisher	<i>Halcyon pileata</i>		1
Stork-billed kingfisher	<i>Pelargopsis capensis</i>	1	
Common kingfisher	<i>Alcedo atthis</i>	1	
Blue-eared kingfisher	<i>Alcedo meninting</i>	1	1
Black-backed kingfisher	<i>Ceyx erithacus</i>	1	
Rufous-backed kingfisher	<i>Ceyx rufidorsa</i>	1	
White-crowned hornbill	<i>Aceros comatus</i>	1	1
Bushy-crested hornbill	<i>Anorrhinus gslideri</i>	1	1
Wrinkled hornbill	<i>Aceros corrugatus</i>	1	1
Wreathed hornbill	<i>Aceros undulatus</i>	1	1
Black hornbill	<i>Anthracoseros malayanus</i>	1,2	1,2
Pied hornbill	<i>Anthracoseros coronatus</i>	1,2	1,2
Rhinoceros hornbill	<i>Buceros rhinoceros</i>	1,2	1,2
Helmeted hornbill	<i>Buceros vigil</i>	1,2	1,2
Brown barbet	<i>Calorhamphus fuliginosus</i>	1	
Red-crowned barbet	<i>Megalaima rafflesii</i>	1	
Red-throated barbet	<i>Megalaima mystacophanos</i>	1	1
Yellow-crowned barbet	<i>Megalaima henricii</i>		1
Blue-eared barbet	<i>Megalaima australis</i>	1	1
Rufous piculet	<i>Sasia abnormis</i>	1	1

Crimson-winged woodpecker	<i>Picus puniceus</i>	1	
Banded woodpecker	<i>Picus minaceus</i>	1	
Rufous woodpecker	<i>Celeus brachyurus</i>	1	
Sunda woodpecker	<i>Picoides moluccensis</i>	1	1
Buff-necked woodpecker	<i>Meiglyptes tukki</i>	1	
Grey-and-buff woodpecker	<i>Hemicircus concretus</i>		1
Common goldenback	<i>Dinoplum javanense</i>	1	1
Greater goldenback	<i>Chrysocolaptes lucidus</i>		1
Olive-backed woodpecker	<i>Dinoplum rafflesii</i>	1	
White-bellied woodpecker	<i>Dryocopus javensis</i>	1	1
Great slaty woodpecker	<i>Mulleripicus pulverulentus</i>	1	
Orange-backed woodpecker	<i>Reinwardtipicus validus</i>	1	
Black-and red broadbill	<i>Cymbirhynchus macrorhynchus</i>	1	1
Black-and-yellow broadbill	<i>Eurylaimus ochromalus</i>	1	
Banded broadbill	<i>Eurylaimus javanicus</i>	1	
Garnet pitta	<i>Pitta granatina</i>	1	
Blue-headed pitta	<i>Pitta baudii</i>	1	
Banded pitta	<i>Pitta guajana</i>	1	
Hooded pitta	<i>Pitta sordida</i>	1	
Black-winged flycatcher-shrike	<i>Hemipus hirundinaceus</i>	1	
Bar-winged flycatcher-shrike	<i>Hemipus picatus</i>	1	
Ashy minivet	<i>Pericrocotus divaricatus</i>	1	
White-breasted wood-swallow	<i>Artamus leucorhynchus</i>	1	
Green iora	<i>Aegithina viridissima</i>		1
Common iora	<i>Aegithina tiphia</i>	1	1
Lesser green leafbird	<i>Chloropsis cyanopogon</i>	1	1
Greater green leafbird	<i>Chloropsis sonnerati</i>	1	
Asian fairy bluebird	<i>Irena puella</i>	1	
Puff-backed bulbul	<i>Pycnonotus eutilotus</i>	1	
Black and white bulbul	<i>Pycnonotus melanoleucos</i>	1	
Black-headed bulbul	<i>Pycnonotus atriceps</i>	1	1
Straw-headed bulbul	<i>Pycnonotus zeylanicus</i>	1	
Yellow-vented bulbul	<i>Pycnonotus goiavier</i>	1	
Cream-vented bulbul	<i>Pycnonotus simplex</i>	1	
Spectacled bulbul	<i>Pycnonotus erythrophalmos</i>	1	
Grey-cheeked bulbul	<i>Alophoixus bres</i>	1	
Yellow-bellied bulbul	<i>Alophoixus phaeocephalus</i>	1	
Finsch's bulbul	<i>Criniger finschii</i>	1	
Hairy-backed bulbul	<i>Tricholestes criniger</i>	1	
Streaked bulbul	<i>Ixos malaccensis</i>	1	
Buff-vented bulbul	<i>Iole alivacea</i>	1	
Rufous-tailed shama	<i>Trichixos pyrrhopygus</i>	1	
Magpie robin	<i>Copsychus saularis</i>	1	1
White-browed shama	<i>Copsychus stricklandi</i>	1	
White-crowned iorktail	<i>Enicurus leschenaulti</i>	1	

Malaysian rail-babbler	<i>Eupetes macrocerus</i>	1	
Black-capped babbler	<i>Pellorneum capistratum</i>	1	
Short-tailed babbler	<i>Malacocincla malaccense</i>	1	
White-chested babbler	<i>Trichastoma rostratum</i>	1	
Ferruginous babbler	<i>Trichostoma bicolor</i>	1	
Horsfield's babbler	<i>Malacocincla sepiarium</i>	1	
Abbott's babbler	<i>Malacocincla abbotti</i>	1	1
Rufous-crowned babbler	<i>Melacopteron magnum</i>	1	
Scaly-crowned babbler	<i>Melacopteron cinereum</i>	1	
Sooty-capped babbler	<i>Melacopteron affine</i>	1	
Grey-breasted babbler	<i>Melacopteron albogulare</i>	1	
Bornean wren-babbler	<i>Ptilocichla leucogrammica</i>	1	
Striped wren-babbler	<i>Kenopia striata</i>	1	
Striped tit-babbler	<i>Macronous gularis</i>	1	
Fluffy-backed tit-babbler	<i>Macronous ptilosus</i>	1	
Grey-headed babbler	<i>Stachyris poliocephala</i>	1	
Black-throated babbler	<i>Stachyris nigricollis</i>	1	
Chestnut-rumped babbler	<i>Stachyris maculata</i>	1	1
Chestnut-winged babbler	<i>Stachyris erythroptera</i>	1	
Rufous-fronted babbler	<i>Stachyris rufifrons</i>	1	
Brown fulvetta	<i>Alcippe brunneicauda</i>	1	
White-bellied vuhina	<i>Yuhina zantholeuca</i>	1	
Golden-bellied gerygone	<i>Gerygone sulphurea</i>	1	
Yellow-bellied prinia	<i>Prinia flaviventris</i>	1	
Dark-necked tailorbird	<i>Orthotomus atrogularis</i>	1	
Rufous-tailed tailorbird	<i>Orthotomus sericeus</i>	1	
Ashy tailorbird	<i>Orthotomus ruficeps</i>	1	1
Pied fantail	<i>Rhipidura javanica</i>	1	1
Blue-and-white flycatcher	<i>Cyanoptila cyanomelana</i>	1	
White-tailed blue flycatcher	<i>Cyornis concretus</i>	1	
Malaysian blue flycatcher	<i>Cyornis turcosus</i>	1	1
Large-billed blue flycatcher	<i>Cyornis caerulatus</i>	1	
Bornean blue flycatcher	<i>Cyornis superbus</i>	1	
Rufous-chested flycatcher	<i>Ficedula dumetoria</i>	1	
Rufous-winged philentoma	<i>Philentoma pyrhopterum</i>	1	
Maroon-breasted philentoma	<i>Philentoma velatum</i>	1	
Black-naped monarch	<i>Hypothymis azurea</i>	1	
Asian paradise flycatcher	<i>Terpsiphone paradisi</i>	1	1
Velvet-fronted nuthatch	<i>Sitta frontalis</i>		1
Yellow-breasted flowerpecker	<i>Prionochilus maculatus</i>	1	
Scarlet-backed flowerpecker	<i>Dicaeum cruentatum</i>	1	
Orange-bellied flowerpecker	<i>Dicaeum trigonostigma</i>	1	
Plain sunbird	<i>Anthreptes simplex</i>	1	
Plain-throated sunbird	<i>Anthreptes malacensis</i>	1	
Ruby-cheeked sunbird	<i>Anthreptes singalensis</i>	1	

Water monitor lizard	<i>Varanus salvator</i>	1	1
Estuarine crocodile	<i>Crocodylus porosus</i>	1,3	1
Malaysian giant tortoise	<i>Orlitia borneensis</i>	1	
Malayan box tortoise	<i>Cuora amboinensis</i>	1	
Malayan flat-shelled tortoise	<i>Notochelys platynota</i>	1	

Amphibians

<u>Common name</u>	<u>Scientific name</u>	<u>Sukau</u>	<u>Abai</u>
Greater swamp frog	<i>Rana ingeri</i>	1	
Green paddy frog	<i>Rana erthraea</i>	1	
Cricket frog	<i>Rana nicobariensis</i>	1	
White-lipped frog	<i>Rana chalconata</i>	1	
