Short Notes on the Vertebrate Fauna of Ayer Hitam Forest Reserve, Puchong, Selangor

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ABSTRAK

Rekod dari Muzium Zoologi, Jabatan Biologi, Universiti Putra Malaysia mengandungi senarai vertebrata dari kawasan Hutan Simpan Ayer Hitam yang dikutip dari 1975 hingga 1985. Koleksi dalam muzium ini terdiri dari 14 burung, 10 anura, 5 lacertalia, 3 ophidia dan 8 mamalia. Kutipan lapangan baru-baru ini yang dilakukan oleh pelajar-pelajar biologi, sebagai sebahagian tugasan kursus kepelbagaian vertebrata mendapati 3 spesies kelawar, 2 reptilia, 13 anura dan 10 ikan. Ikan merupakan tambahan kepada senarai vertebrata yang belum pernah dilakukan sebelum ini. Senarai vertebrata dalam laporan ini bukanlah yang lengkap. Beberapa koleksi perlu dilakukan untuk inventori vertebrata di Hutan Simpan Ayer Hitam.

ABSTRACT

Record from the Museum of Zoology, Department of Biology, Universiti Putra Malaysia contains list of vertebrates of Ayer Hitam Forest Researce area collected from 1975 until 1985. The collection in the museum consists of 14 birds, 10 anurans, 5 lacertalians, 3 ophidians and 8 mammals. Recent field collections by students of biology, as part of their assignment of vertebrates diversity revealed 3 species of bats, 2 reptiles, 13 anurans and 10 fishes. Fish is the new addition of the vertebrate lists that was not collected before. The list of vertebrate in this report is by no means exhaustive. More collections are needed to inventorise the vertebrates of Ayer Hitam Forest Reserve.

INTRODUCTION

Ayer Hitam Forest Reserve is a lowland dipterocarp forest situated in the middle of a rapidly developing area, about 20 km south of Kuala Lumpur. Covering an area of about 1248 ha the forest is bordered in the north by Bukit Jalil sport complex and to its south by new Putra Jaya administrative township. The eastern part of the forest is bordered by the proposed new satellite town of Lestari Perdana and to the west by the massive housing and business centres of Puchong. A small stream of about 2.5 km with many tributaries cut across the length of the forest. The stream becomes the riverhead of the Rasau River. Most of the tributaries dried up during drought season.

The forest was formally under the management of the Selangor State Forest Department and was leased to Universiti Putra Malaysia in

1996 for 80 years for the purpose of teaching and research. Prior to its lease to Universiti Putra Malaysia, the forest was already became part of the field training site for students from the Faculty of Forestry and students from the Department of Biology, Faculty of Science and Environmental Science.

During the early years of UPM, several animal collection trips to the forest were conducted to provide materials for classes. The specimens collected were recorded and deposited at the Museum of Zoology, Department of Biology. There was a gap in field activities by the Department of Biology between 1985 and 1998 and only in April 1998 until January 1999 there was a study on the anurans along the Rasau River conducted as part of the students' final year project. At about the same time several field trips were conducted to study the vertebrate diversity of the forest.

This communication reports some of the vertebrates recorded in the museum of the Department of Biology from the collection in the earlier periods of UPM and those collected during the recent field studies by the students.

MATERIALS AND METHODS

The information on the existence of the vertebrates was obtained from a search of the record of the Museum of Zoology, Universiti Putra Malaysia. The record on the vertebrate collection from the forest dated back since 1975. In addition, the current list also contained species collected during the three brief field studies in Ayer Hitam Forest Reserve recently carried out by the biology students as part of their assignments in the Vertebrate Biodiversity course.

Mist nets were mounted about 2 meters above the ground under the forest canopy to trap birds and bats. Rat-traps were set on the ground, using banana as baits to collect small ground mammals. The sites of collection covered only to the eastern part of the forest, along the old logging track that run almost parallel to the river as shown in Fig. 1.

Scoop nets were used to collect fishes and tadpoles in the Rasau River. Adult frogs and toads were caught by hand and mostly carried out at night. Some reptiles such as skinks and agamids were observed directly. Identification of the collected vertebrates were based on the references available and also by comparing the specimens with those deposited at the Museum of Zoology, UPM. For conservation purposes, trapped animals, except for taxidermy exercises, were released back to its original collection sites.

RESULTS AND DISCUSSION

Some of the information on the site of collection in the early years of UPM stated only Puchong that included at that time the present UPM Puchong farm and that of proposed Lestari Perdana townships area. Nevertheless the collection are included in the present list.

The vertebrates collected and recorded in the Museum of Zoology between 1975 until 1985 are listed in Table 1.

The three brief field collections by students revealed some of the species collected in the previous collections. Vertebrates collected from these exercises are listed in Table 2.

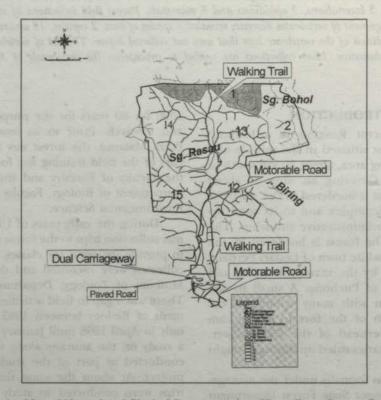


Fig. 1. Map of Natural and Physical Resource in Ayer Hitam Forest Reserve, Puchong

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TABLE 1
List of vertebrates collected during the early years of Universiti Putra Malaysia

Species	Common name	Family	Date of collection
Birds:		U PALLEY	
Criniger phaeocephalus	White throated bulbul	Pycnonotidae	10 Apr. 1981
Arachnothera longitrosta	Little spider hunter	Nectariniidae	10 &15 Apr. 1981
Arachnomera ungurosu	Little spider numer	Nectarifficae	Kelicap jantung
Orthotomus sutorius	Long tailed tailor hird	Cultifidas	
Orthotomus sutorius	Long-tailed tailor bird	Sylviidae	15 Apr. 1981
	Laki padi	Manageratation	14.4 - 1001
Hypogramma hyphogramicum	Purple naped sunbird	Nectarinidae	14 Apr. 1981
Trichestomma rostratum		Timallidae	9 Apr. 1981
T. malaccanes			8 Apr. 1981
Copsychus malabaricus	White rumped shama Murai batu	Turdidae	14 Apr. 1981
Trichastoma malabaricus	A STATE OF THE STA	Timallidae	14 Apr. 1981
T. saularius		Timumuuc	16 Apr. 1981
Pycnonotus simplex	Cream vented bulbul	Pycnonotidae	14 Apr. 1981
yenonotus simpiex	Murai rimba	rychonoudae	14 Apr. 1901
Chalantian in the		Calconhides	10 4 1001
Chalcophaps indica	Emerald dove	Columbidae	16 Apr.1981
Pycnonotus goiaver	Yellow-vented bulbul	Pycnonotidae	15 Apr. 1981
Merbah kapur	and the second second second		
Stachyris erythroptera	Red-winged tree babbler	Timaliidae	10 Apr. 1981
	Merbah sampah		
Macronus ptilosus	Fluffy-backed babbler	Timaliidae	15 April 1981
Bufo quadriporcatus Leptobrachium hasseltii Rana chalconota Rana blythi Rana signata Rana malesiana Rana erythrea Occidozyga laevis	Four-ringed toad Ground toad Copper cheek frog Malaysian giant frog Yellow spotted frog Malaysian frog Malayan pond frog Paddyfield puddle frog	Pelobatidae Ranidae Ranidae Ranidae Ranidae Ranidae Ranidae	26 Feb. 1981 13 Aug. 1981 13 Aug. 1981 13 Aug. 1981 13 Aug. 1984 22 Feb. 1984 22 Feb. 1984
Reptiles:	Sumnah-sumnah	Agamidae	14 April 1981
Draco volans	Sumpah-sumpah	Againdae	8 April 1981
Draco quinquefasciatus			7 CO. 1 TO 1
Draco fimbriatus		4."	10 April 1981
Draco melanopogon		**	10 Apr. 1981
Aphaniotis fuscus			27 Nov. 1979
Ophidia			
Liopeltis baliodeirus		Colubridae	13 Jan. 1975
Achaetulla straiata			16 Mar. 1975
Sibynophis melanocephalus		10.0	15 Oct. 1979
поулорнія тешносернасия		999 - 1- 172	15 Oct. 1575
Mammals:			
AUDIT OF THE PARTY			
Ground squirrels:			
Rhinosciurus laticaudatus	Schrew faced ground squirell	Sciuridae	27 Jul.1978

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Callosciurus nigrovittatus Callosciurus notatus	Black banded squirrel Plantain squirrel	Sciuridae Sciuridae	28 Jul.1978 Aug. 1985
Rats:			
Rattus muelleri	Mullerís rat	Muridae	4 Jul. 1978
Rattus sabanus	Long tailed giant rat	A STATE OF THE PAIN	4 Jul.1978
Rattus surifer	Red spiny rat	othernative Laterate	4 Jul.1978
Rattus tiomanicus	Wood rat	Bess affairte apidos	18 Aug. 1985
Rattus rajah	Brown spiny rat	mbers with above it	14 Jul.1978
	A CONTRACTOR OF THE PARTY OF TH		

TABLE 2 Vertebrates collected by students during their field trips

Species	Common name	Date of collection	
Mammals:	nazel and finding to	NAME OF THE PARTY	Deto p 1
Bats			
Rhinolopus trifoliatus	Treefoil horse shoe bat	Pteropodidae	8 Sept. 1997
Cynopterus brachyotis	Malaysian fruit bat	THE RESERVE OF THE PARTY OF THE	8 Sept. 1997
Penthetor lucasii	dusky fruit bat	" and the same of	8 Sept. 1997
Reptiles:		man destroid 1962	
Calotes versicolor	Sumpah sumpah	Agamidae	8 Sept. 1997
Geomyda spinosa	Spiny tortoise	Testudinidae	9 Sept. 1997
Amphibia:	to the same		
Rana doriae	Siamese frog	Ranidae	8 Sept. 1997
Polypedates leucomystax	Malayan house frog	Rhacophoridae	8 Sept. 1997
Rana chalconota	Copper cheek frog	Ranidae	8 Sept. 1997
Fishes:	Shines	odka mežo	
Channa striatus	Snake head	Ophiocephalidae	8 Sept. 1997
Hemirhampodon pogonognathus	Jolong, Sember	Hemirhampidae	8 Sept. 1997
Rasbora einthoveni	Seluang/susur batang	Cyprinidae	8 Sept. 1997
Puntius binotatus		The state of the s	8 Sept. 1997
Anuran:		Tenenth .	-
Rana doriae	Siamese frog	Ranidae	6 Feb. 1999
Bufo melanostitus	Common toad	Bufonidae	6 Feb. 1999
Bufo asper	Malayan giant toad		6 Feb. 1999
Rana malesiana	Malaysian frog	Ranidae.	6 Feb. 1999
Kalophrynus palmatissimus	Rain skicky toad	Microhylidae	6 Feb. 1999
Fish:			
Rasbora heteromorpha	Bada seluang	Cyprinidae	6 Feb. 1999
Rasbora sumatrana	Ikan seluang		6 Feb. 1999
Betta pungnax	Belaga,Sepilai	Anabantidae	6 Feb. 1999
Hemirhampodon pogonognathus	Julung-julung	Hemirhampidae	6 Feb. 1999
Channa striatus	Haruan	Ophiocephalidae	6 Feb. 1999
Clarias sp.	Keli	Clariidae	6 Feb. 1999
Channa lucius	Bujuk, Ubi	Ophiocephalidae	13 Mar. 1999

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Anuran			
Rana blythi	Malayan giant frog	Ranidae	April 1998 till
			Feb. 1999
Rana chalconota	Copper cheek frog		
Rana doirae	Siamese frog		4
Rana hosei	Green tree frog		Melaynia
Rana paramacrodon	Coarse frog		curion
Rana plicatella	Rhinoceros frog		
Rana signata	Yellow spotted frog		

The list of vertebrates in this report may not be exhaustive especially the avian fauna which has been studied more thoroughly by other workers recently. Among the vertebrates, fishes gave a more complete list. Some fishes that are quite rare such as 'bujuk' that prefer to live in streams, lakes and pond is also found in the Rasau River. Among the fishes, Hamirhampodon pogonognathus is available in large number and normally remain near the surface. Rasbora are small fishes that are also commonly found in the river. They are small fish and the largest caught in Rasau River was about 8.5 cm in length. Even though Rasbora form the food for predatory fish, their existence in large number is because there are very few predator fishes found in Rasau River. Some Rasbora such as R. einthoveni prefers slightly acidic water in swamp. Some how the fish is also found in Sg. Rasau that was not acidic. From a total of 8 species of Rasbora recorded in Malaysia, 4 are found in Rasau River.

More collections are needed to inventorize the vertebrates of Ayer Hitam Forest Reserve especially in the interior part of the forest.

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REFERENCES

Berry, P.Y. 1975. The Amphibian Fauna of Peninsular Malaysia. Kuala Lumpur: Tropical Press. 129p.

GLENISTER, A. G. 1974. The birds of the Malaysian Peninsula, Singapore and Penang. London, Melbourne: Oxford University Press. 291 p.

INGER, R.F.1966. The systematic and zoogeography of the Amphibia of Borneo. Field Museum of Natural History. 402 p.

Medway, L. 1977. Mammals of Borneo. Malaysian Branch of the Royal Asiatic Society. 172p.