Journal of Widlife and Parks, 35: 139-143 (2020)

MAMMALS OF ULU SAT-TEMBAT FOREST COMPLEX

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Received (26-Mac-2020); Accepted (22-June-2020); Available online (17-July-2020)

Citation: Meisery, A.A.H.A., Fauzi, M.S., Ridzuan, M.S., Mohamad Sainudin, & Hazril Rafhan, A.H. (2020). Mammals of Ulu Sat –Tembat Forest Complex. *Journal of Wildlife and Parks,* **35**: *139-143*

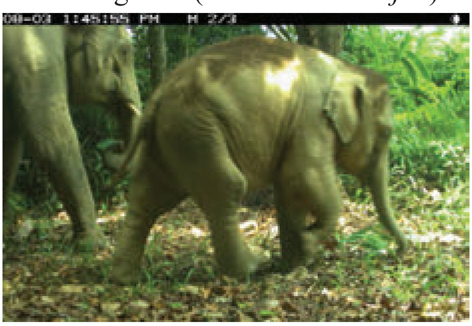
Wildlife survey was conducted at Ulu Sat-Tembat Forest Complex (USTFC) under the First National Tiger Survey (1^{st} NTS). The USTFC is located east of the Malaysian Main Range (Titiwangsa Range), Peninsular Malaysia in the State of Terengganu. This forest reserve is one of the corridors connected to the largest national park in Peninsular Malaysia, Taman Negara National Park (TNNP) which consists of a large block of forest in three states, Pahang, Kelantan and Terengganu. It is the largest forest reserve in the state of Terengganu with a total area of approximately 135,149.99 ha (Jabatan Perhutanan Negeri Terengganu, 2014).

In this study, camera trapping was used to capture wildlife photographs for a seven-month period in the survey area. Throughout the sampling period, the camera trap survey consisted of 109 stations with a total of 218 camera traps used (paired per site). Each station was sampled over a seven months period from March to October 2017. A total of 302 mammal individuals detection consisting of 31 species belonging to eight orders were recorded (Table 1). The results showed that the order Carnivora (18 species) has the highest number of species recorded followed by Artiodactyla four species, Rodentia two species and Primates three species. Pholidota, Perissodactyla, Proboscidae and Erinaceomorpha were repsesented by one species each.

Ten out of 14 large mammals in Peninsular Malaysia (Khan, 1992) were detected except for sambar deer (*Rusa unicolor*), Malayan gaur (*Bos gaurus* *hubbacki*), Sumatran rhinoceros (*Dicerorhinus sumatrensis*), and bearded pig (*Sus barbatus*) (Figure 1). Two Critically Endangered species were recorded, according to the IUCN Red List of Threatened Species (IUCN, 2019), namely the Malayan tiger (*Panthera tigris malayensis*) and Malayan pangolin (*Manis javanica*). Six out of seven felids which includes Malayan tiger (*P. tigris malayensis*), leopard (*Panthera pardus*), clouded leopard (*Neofelis nebulosa*), golden cat (*Catopuma temmincki*), marbled cat (*Pardofelis marmorata*), and leopard cat (*Prionailurus bengalensis*) were recorded, except for flat-headed cat (*Prionailurus planiceps*). Four Malayan tiger detections were recorded which represent only one individual. This baseline information is important to determine the latest presence of mammal species and their habitat in USTFC.

Barking deer (*Muntiacus muntjak*)

Malayan tiger (*Panthera tigris*)



Asian elephant (*Elephas maximus*)

Malayan tapir (*Tapirus indicus*)

Figure 1 A few pictures of mammal recorded via camera traps at Ulu Sat-Tembat Forest Complex.

Table 1 Mammal Species Recorded at Ulu Sat – Tembat Forest Complex (Note: LC= Least Concern; VU= Vulnerable; EN= Endangered; CR= Critically Endangered; NT= Near Threatened following IUCN Red List of Threatened Species, 2019).

No.	Order	Family	Scientific Name	Common Name	Local Name	IUCN Status
1	Carnivora	Felidae	*Catopuma temminckii*	Golden cat	Kucing tulap	NT
2	Carnivora	Felidae	*Neofelis nebulosa*	Clouded leopard	Harimau dahan	VU
3	Carnivora	Felidae	*Panthera pardus*	Leopard	Harimau kumbang	VU
4	Carnivora	Felidae	*Panthera tigris malayensis*	Malayan tiger	Harimau belang	CR
5	Carnivora	Felidae	*Pardofelis marmorata*	Marbled cat	Kucing dahan	NT
6	Carnivora	Felidae	*Prionailurus bengalensis*	Leopard cat	Kucing batu	LC
7	Carnivora	Viverridae	*Arctictis binturong*	Binturong	Binturong	VU
8	Carnivora	Viverridae	*Hemigalus derbyanus*	Banded civet	Musang belang	NT
9	Carnivora	Viverridae	*Paguma larvata*	Masked palm civet	Musang lamri	LC
10	Carnivora	Viverridae	*Paradoxurus hermaphroditus*	Common palm civet	Musang pulut	LC
11	Carnivora	Viverridae	*Prionodon linsang*	Banded linsang	Linsang	LC
12	Carnivora	Viverridae	*Viverra megaspila*	Large-spotted civet	Musang titik besar	EN
13	Carnivora	Viverridae	*Viverra tangalunga*	Malay civet	Tenggalong	LC
14	Carnivora	Viverridae	*Viverra zibetha*	Large Indian civet	Musang jebat	LC
15	Carnivora	Herpestidae	*Herpestus urva*	Crab-eating mongoose	Cherpelai ketam	LC
16	Carnivora	Mustelidae	*Martes flavigula*	Yellow-throated marten	Mengkira	LC
17	Carnivora	Ursidae	*Helarctos malayanus*	Malayan sun bear	Beruang matahari	VU
18	Carnivora	Canidae	*Cuon alpinus*	Dhole	Anjing hutan	EN
19	Primates	Cercopithecidae	*Hylobates lar*	White-handed gibbon	Ungka tangan putih	EN
20	Primates	Cercopithecidae	*Macaca nemestrina*	Pig-tailed macaque	Beruk	VU
21	Primates	Cercopithecidae	*Trachypithecus obscurus*	Dusky langur	Lontong chengkong	NT

Table 1 (Continued)

No.	Order	Family	Scientific Name	Common Name	Local Name	IUCN Status
22	Artiodactyla	Bovidae	*Capricornis sumatraensis*	Sumatran serow	Kambing gurun	VU
23	Artiodactyla	Cervidae	*Muntiacus muntjak*	Barking deer	Kijang	LC
24	Artiodactyla	Suidae	*Sus scrofa*	Wild boar	Babi hutan	LC
25	Artiodactyla	Tragulidae	*Tragulus kanchil*	Lesser mouse-deer	Pelanduk	LC
26	Rodentia	Hystricidae	*Atherurus macrourus*	Brush-tailed porcupine	Landak batu	LC
27	Rodentia	Hystricidae	*Hystrix brachyura*	Malayan porcupine	Landak raya	LC
28	Pholidota	Manidae	*Manis javanica*	Malayan pangolin	Tenggiling	CR
29	Proboscidea	Elephantidae	*Elephas maximus*	Asian elephant	Gajah	EN
30	Perissodactyla	Tapiridae	*Tapirus indicus*	Malayan tapir	Tapir	EN
31	Erinaceomorpha	Erinaceidae	*Echinosorex gymnura*	Moonrat	Tikus ambang bulan	LC

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