

Three New Malaysian Mammals

By F. N. CHASEN

Rattus mülleri otiosus subsp. nov.

Rattus mülleri subsp., Bull. Raffles Mus., 6, 1931, pp. 37 and 71 (measurements).

Characters. Like *R. m. borneanus* (Miller), on the mainland of Borneo but with a shorter tail.

Type.—Adult male (skin and skull), collected on Balambangan Island, North Borneo, on 11th September, 1927, by C. Boden Kloss and F. N. Chasen. Raffles Museum No. 3487.

External measurements.—Head and body, 230; tail, 250; hind-foot, (s.u.), 42; ear, 22 mm.

Skull.—Greatest length, 52.6; condylo-basilar length, 45.3; diastema, 15.1; upper molar row (alveoli), 9; length of palatal foramina, 8.1; median nasal length, 21.5; breadth of combined nasals, 6.5; zygomatic breadth, 26 mm.

Specimens examined.—Banguay Island, North Borneo, 5 ♂, 6 ♀; Balambangan Island, 3 ♂, 2 ♀.

Remarks.—In the absence of topotypes of *R. m. integer* (Miller), from the South Natuna Islands, Mr. Kloss and I once had to leave these rats from the North Bornean Islands without a subspecific name, but I now see that *integer* is a duller rat with a tail measuring only 225–231 mm. in length. *R. m. otiosus* has the tail in large adults measuring 240–282 mm. The specimens on which this new race is based, together with a series of *R. m. borneanus*, are described in greater detail in an earlier number of this journal (*l.c.s.*).

✓ *Tragulus kanchil klossi* subsp. nov.

Tragulus kanchil longipes, Chas. and Kloss, Bull. Raffles Mus., 6, 1931, pp. 17 and 55 (measurements).

Characters.—Like *T. k. hosei* Bonh., of Sarawak but generally paler and duller.

Type.—Adult male (skin and skull), collected at Bettotan, near Sandakan, British North Borneo, on 15th August 1927, by C. Boden Kloss and F. N. Chasen. Raffles Museum No. 3273.

External measurements.—Head and body, 478; tail, 72; hind-foot and hoof, 130 mm.

Skull.—Condylo-basal length, 92; palatal length, 53; diastema, 9.5; upper molar row, 33.8; median nasal length, 30; inter-orbital breadth, 27; zygomatic breadth, 44.5 mm.

Remarks.—The nine examples on which this new race is founded were once referred to *T. k. longipes* described by Lyon from the lowlands of Eastern Sumatra and later considered by that author to occur also in West, South-west, and South-east Borneo, but I have recently seen a skin of the lesser mouse-deer from near Pontianak, West Borneo and it is exactly like topotypes of *T. k. hosei*. Details of the specimens are given in the reference quoted above.

Lariscus insignis saturatus subsp. nov.

Characters.—A brightly coloured race, nearest to *L. i. castaneus* (Miller), of the Anamba Islands, but the black dorsal stripes are narrower, the crown darker, the muzzle greyer and less golden, and the feet, especially the fore-feet, darker (blackened). Resembles *castaneus* in that the back between the dorsal stripes is much greyer and less chestnut than the sides of the body, thereby forming a sharp contrast. Hairs of the tail tipped with white.

Type.—Adult female (skin and skull), collected on Bintang Island, Rhio Archipelago, on 2nd June 1930 by a native collector. Raffles Museum No. 2820.

Skull.—Resembles that of *L. i. castaneus*.

Specimens examined.—One male and three females, including the type.

Measurements.—See table below.

Remarks.—Variation in the small series is not very noticeable. The male has the hind-feet rather brighter than in the three females and in this one respect is not separable from *castaneus*. The Bintang race needs no detailed comparison with typical *insignis* of Sumatra which has the under parts much washed with rufous, or the much brighter *diversus* of Borneo in which the flanks are almost clear red. *Meridionalis* of Singapore Island, and *fornicatus* of Pulau Tioman are rather duller: furthermore, the area between the dorsal stripes is similar in colour to the flanks and both have the tail hairs tipped with ochraceous, not white.

This is the first time *Lariscus* has been definitely recorded from the Rhio Archipelago.

Species & Locality	Sex	Head & body	Tail	Hind-foot	Ear	Greatest length	Condylar length	Palatine length	Diastema	Upper molar row (alveoli)	Median nasal length	Interorbital length	Zygomatic breadth	Number	Remarks
<i>Lariculus insignis</i>	♂	52.5	43.4	21.1	12.2	9	15.5	14.4	28.2	2821	Adult
"	♀	200	115	45	..	51.2	9.2	15.7	14.8	28	2820	Adult (type)
"	49.8	41.3	20.6	12.2	8.8	15.1	13.4	27.6	2822	Young adult
"	♀	52.8	44.3	21.7	13.2	8.5	16.3	14.2	29.8-29	2819	Adult