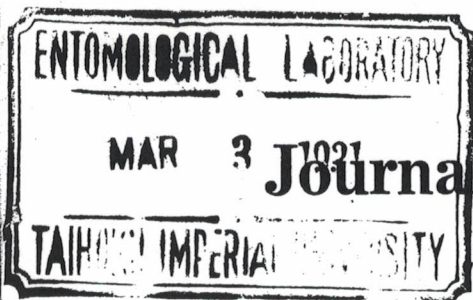


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A New Fruit Bat from N. Loo-choo

By

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[Received Nov. 20, 1929]

A splendid series of six fresh specimens belonging to a new yellow neck-ringed form of fruit bats was, kindly sent to me on my request, for identification from Mr. R. YAMAGATA who has collected them in this month at the island of Kuchi-no-Erabu, N. Loo-choo. The species in question is clearly distinguishable by its color and fur of the male from *Pteropus dasymallus* TEMMINCK 1825, which is a closely related form found in Southern Loo-Choo. The speciality in the female is, however, considerably obscure. Old histories of the southern Loo-choo fruit bat tell us that the Yakushima island was once inhabited by the present species. But the successive investigators of Japanese mammalogy have all failed to credit this species to the island just mentioned. It will probably be the record of the collection and raising of the female of the new species described latter which is readily unseparable from that of the former. The native locality of this new bat is situated off the west coast of the Yakushima.

A fuller description of this new bat will be published in the author's "Revision of Japanese Mammals" pt. 2. Only some diagnosis and measurements will be given here.

Pteropus yamagatai n. sp.

Japanese Name: Erabu Oh Komori.

Anglican Name: The Northern Loo-choo Fruit Bat.

The holotype of this species is an adult male which was collected by Mr. RAIJI YAMAGATA in an early part of November in the year 1929 at the island of Kuchi-no-Erabu in Kagoshima-ken, Kiushiu. This is now preserved in the author's collection.

The ear is shorter than the muzzle, rising but slightly above the fur on the head. The upper one-fifth part of its outer margin is slightly concave, the lower four-fifths part being slightly convex. The inner margin is, however, somewhat convex.

On both the back and the lower part of the body, the fur is long and wooly. The dorsum of the wing membrane is densely furred about the arm and forearm. This is also the case with the part which is near the sides of the body. The dorsum of the tibia, too, is densely furred. Beneath the wing membrane, there is found a small area where the hairs are long and sparse in each of the following region or the parts as the case may be: on the antebrachial part, on and behind the arm as well as forearm, along the sides of the body, on the basal half of the interfemoral membrane, and also on the basal half of the tibia. The foot is nearly naked beneath, and very thinly haired on the back. The head, face, chest and chin are brownish black. The nape, the sides of the neck as well as shoulders are provided with a light cadmium-coloured ring, which is well defined on the back by a straight line running along the anterior border and by a procurved line that runs along the posterior border. The ring, however, becomes anteriorly paler. The rest of the back and abdomen are dark brown, both sides being especially heavier in coloration. The fur on the upper surface of the wing membrane is also dark brown.

The allotype of this species is an adult female of similar data as those of the holotype. The shape as well as the fur growing on the ear and body are much like that of the male, but their coloration much resembles to that of the *Pteropus dasymallus* from S. Loocho.

The neck-ring is broadened posteriorly on to the back so that the demarcation between this region and the rest of the back of the body is obscure.

Measurements of types of the new fruit bat are as follows:

External measurements in millimetres.

	No.	1	2	3	4	5	6
		Holotype					Allotype
	Sex	♂	♂	♂	♂	♀	♀
Head and body		195.0	213.5	204.0	199.0	188.0	208.0
Ear		24.0	24.0	23.5	23.2	22.5	25.5
Lower leg.		61.0	73.0	57.0 (?)	62.0	59.0	55.0
Interfemoral membrane...		49.0	48.0	47.0 (?)	45.0 (?)	52.0	31.0
Calcar		16.3	16.0	16.0	15.0	15.0	17.0
Foot, c. u.		51.0	47.0	48.0	44.0	35.0	40.0
Fore arm		135.0	141.0	138.5	136.0	127.0	127.5
1st digit, c. u.		60.0	59.0	64.5	62.0	63.5	64.0
„ metacarpal		17.0	14.0	14.0	14.5	13.5	12.5
„ 1st phalanx		35.0	32.5	32.5	37.0	34.0	32.5
2nd digit, c. u.		106.0	105.0	103.0	104.0	100.0	95.5
„ metacarpal		71.5	70.0	69.5	71.5	64.0	63.5
„ 1st phalanx		19.0	19.5	18.5	18.0	20.0	17.0
„ 2nd and 3rd phalanges		14.5	12.5	11.5	11.5	12.5	13.0
3rd digit		248.0	252.5	254.0	257.0	230.0	233.0
„ metacarpal		94.0	94.5	98.5	92.5	85.0	86.0
„ 1st phalanx		70.5	72.0	71.5	71.5	64.5	61.5
„ 2nd phalanx		90.5	93.0	89.0	96.0	86.0	78.0
4th digit		199.0	203.0	206.0	208.0	187.5	186.0
„ metacarpal		91.0	91.5	87.5	93.5	83.5	81.5

„ 1st phalanx	57.0	57.5	59.0	58.0	52.0	53.0
„ 2nd phalanx	57.0	60.0	58.0	58.5	49.5	50.0
5th digit	177.5	178.5	180.0	190.5	170.0	172.0
„ metacarpal	92.5	90.0	93.5	98.5	88.5	89.0
„ 1st phalanx	44.0	45.5	46.0	46.0	41.0	41.0
„ 2nd phalanx	47.0	49.0	46.0	46.5	43.0	42.0

Cranial measurements in millimetres.

	No.	1	2	3	4	5	6
		Holotype				Allotype	
	Sex	♂	♂	♂	♂	♀	♀
Skull, total length from pre-							
maxillary		64.0	65.2	65.7	65.5	60.8	60.0
„ „ „ from nasal...		62.8	64.0	63.5	64.3	60.0	58.3
„ length of sagittal crest...		24.0	25.0	25.0	25.5	—	—
„ interorbital width		9.5	10.3	10.2	11.0	9.0	9.0
„ postorbital constriction ...		6.8	7.5	7.2	6.5	9.0	9.0
„ zygomatic width.....		33.0	33.3	34.5	33.3	30.0	30.0
„ width of brain-case		23.8	23.3	24.0	23.0	22.0	23.0
„ depth of brain-case		17.5	19.5	19.0	18.3	17.0	16.8
„ condylobasal length		58.0	59.8	60.2	61.0	54.3	53.0
Upper tooth-row		29.5	29.0	30.0	29.2	27.2	27.3
Combined width of upper in-							
cisors		6.0	5.8	6.0	5.8	5.0	6.0
Maxillary tooth-row.		25.2	24.0	24.5	25.0	22.2	22.8
Cheek tooth-row, p ² —m ³		18.2	17.5	17.5	18.0	17.0	17.5
Mandible, length		49.7	51.2	51.0	52.0	46.5	46.3
Lower tooth-row, total length ..		29.6	29.5	30.0	29.5	27.2	27.3
„ c—m ³		28.0	27.5	28.2	28.0	25.2	25.8
„ p ² —m ³		21.0	21.0	21.0	21.0	20.5	21.2