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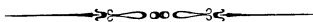


A LIST OF THE SPECIMENS OF MURIDAE
FROM NORTHERN JAPAN KEPT IN
THE UNIVERSITY MUSEUM OF NATURAL
HISTORY IN SAPPORO WITH A DESCRIPTION
OF A NEW SUBSPECIES

BY

MITOSI TOKUDA

(With 2 Text-figures)



By the permission of the curator the writer examined the collection of specimens of Muridae in the University Museum in Sapporo. Among them there are included many specimens from northern Japan, including Hokkaido, the Kurile Islands and Sakhalin. As the Muridae from these parts of the country have been identified only unsatisfactorily it seems worth while to report the results of this investigation. There are one new subspecies and 8 known species totally.

In this place the writer should like to express his best thanks to Dr. T. INUKAI who kindly acceded to the request for permission to examine the specimens and he also acknowledges his great indebtedness to Dr. T. KOMAI for his direction and constant encouragement during the work.

Subfamily *MICROTINAE*

Genus *Clethrionomys* TILESIIUS, 1850

1. *Clethrionomys rufocanus kurilensis* subsp. n. (Fig. 1, 2)

Type: Subadult female (skin and skull).

Type locality: Paramushir Island of the Kuriles (caught May 12, 1928).

Diagnosis. Size smaller than *Clethrionomys rufocanus rufocanus*; scarcely attaining 105 mm. in head and body length. The other respects of external characters resemble *rufocanus rufocanus*; mantle reddish chestnut. Braincase and nasal length very short, the skull thus appearing much contracted; greatest length of skull less than 25 mm.

Color and external characters. Mantle reddish chestnut on the back, dispersed with long black hairs. The other parts: muzzle, cheeks, flanks, rump

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and belly whitish grey. The contrast of these colors is conspicuous. All the hairs washed by slaty base. Ears concolorous with flanks, but the hairs of the pre-auricular and post-auricular patches with yellowish or pallid tips. Hand and foot whitish grey above; sole not so densely haired as in *rufocanus rufocanus*.



Fig. 1

Right upper molar of *Clethrionomys rufocanus kurilensis* $\times 15$

canus, hairs ending before the last pad. Tail rather thinly clad with long stiff hairs, forming a terminal pencil of about 5 mm. in length; annulation dimly visible.

Skull and teeth. Skull noticeably short, with greatest length not exceeding 25 mm. with cement spaces of molars entirely closed. Lines of cheek-teeth curved and divergent posteriorly; the distance between molars measured at anterior end being 2.3 mm., while the same at the posterior end 4.5 mm. Cheek-teeth robust as characteristic of *rufocanus* group, and its pattern showing not the slightest difference from that of *rufocanus rufocanus*.

Dimension: (measured by collector).

Head and body	Tail	Hind foot	Ear
103 mm.	33	17	13

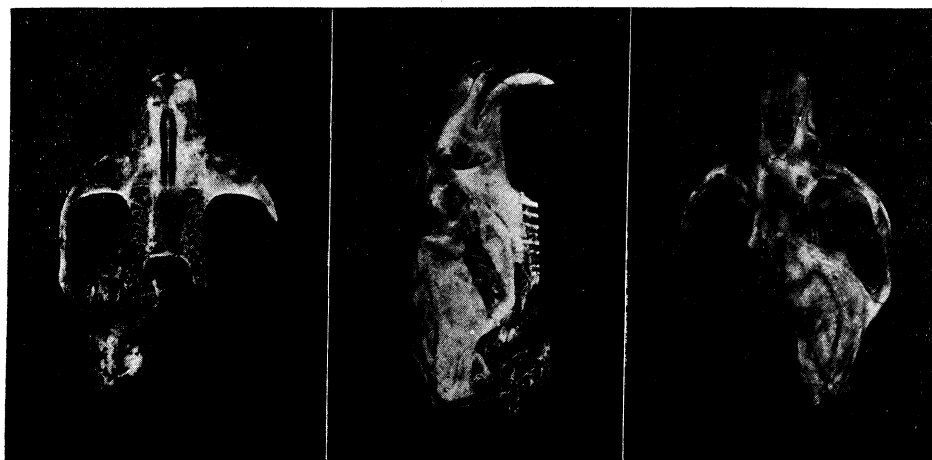


Fig. 2

Skull of *Clethrionomys rufocanus kurilensis* $\times 2$

Remarks: The wide range of distribution of *Clethrionomys rufocanus rufocanus* has been noticed by HINTON (1926): "Northern Europe and Asia; in Europe southwards, in the mountains of Norway, to Dovre; in Asia east to Kamtschatka and south to the Syansk Mountains, the shores of Lake Baikal, and probably to the Kinghan Mountains in Northern Manchuria." This vole of Paramushir shows in every respect a close affinity to that of *rufocanus rufocanus* as mentioned above. This fact coincides with the geographical location of Paramushir, which is very near Kamtschatka. The skull of this specimen is imperfect; the left half of the braincase and the left zygomatic arch are broken and missing; but fortunately the other important parts remain intact. Collector unrecorded.

Cranial measurements:

Greatest length	24 mm. (?)
Zygomatic breadth	14.5
Nasal length	6.4
Width of interorbital constriction	3.5
Distema	7.1
Palatal length	11.2
Foramen incisivum ..	4.5
Length of upper molar series	6
Breadth of first molar of upper jaw	1

2. *Clethrionomys rufocanus bedfordiae* THOMAS, 1905.

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
8	Hakodate	?	121	56	20.5	15	skin
9	Sapporo	♀	115	52	—	14	skin
10	Kunibetū	♂	104	48	19.5	14.5	skin

Number of specimens: 16

Locality and date of collection: Sapporo (1890, 1911, 1914), Sibetū (?), Hakodate (1907), Kunibetū (1907).

3. *Clethrionomys amurensis mikado* THOMAS, 1905.

Measurements: uncertain.

Number of specimens: 3.

Locality and date of collection: Sapporo (1888, 1914), Hakodate (1908).

Subfamily *MURINAE*

Genus *Apodemus* KAUP. 1829

4. *Apodemus speciosus ainu* THOMAS, 1905

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
2	Kunasiri (Kurile)	♀	99	95	24.5	14	skin

Number of specimens: 6.

Locality and date of collection: Isarikawa (1908), Kunashiri (1907), Titose (1882), Sibetu (?).

5. *Apodemus geisha hokkaidi* THOMAS, 1905

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
1	Zenibako	?	85	76	—	—	skin and skull
2	Zyozankei	♂	84	93	20	12	skin and skull
7	Yunokawa	♀	78	85	19.5	13	skin
8	Hakodate	♂	82	87	19.5	13	skin

Number of specimens: 9.

Locality and date of collection: Zenibako (1907), Zyozankei (1914), Garugawa (1907), Hakodate (1907, 1908, 1909), Yunokawa (1918).

6. *Apodemus speciosus giliacus* THOMAS, 1907

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
1	Sakhalin	?	92	82	20	11	skin and skull

Number of specimen: 1.

Locality and date of collection: Sakhalin (1908).

Genus *Rattus* FISHER, 1803

7. *Rattus norvegicus norvegicus* ERXLEBEN, 1777

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
9	Sapporo	♀	—	150	20	—	skin
10	Sapporo	♀	187	177	35	20	skin and skull

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
15	Toyohara (Sakhalin)	?	143	116	33	14	skin
24	Sapporo	♂	190	170	-	15	skin

Number of specimens: 29.

Locality and date of collection: Sapporo (1884, 1893, 1895, 1907, 1908, 1909, 1910, 1914), Toyohara (1908), Osaka (Sakhalin 1910).

Genus *Mus* LINN., 1758

8. *Mus molossinus yesonis* KURODA, 1928

Measurements:

No.	Locality	Sex	H. & B.	Length in mm.		Ear	Remarks
				Tail	H. F.		
7	Sapporo	?	79	65	15	12	skin
11	Sapporo	?	50	51	16	9	skin and skull

Number of specimens: 17.

Locality and date of collection: Sapporo (1907, 1908, 1914, 1915), Isikari (1907).

9. *Mus wagneri* var. *albula* KISHIDA, 1924

Measurements: uncertain.

Number of specimen: 1.

Locality and date of collection: Sapporo (1885).

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摘 要

札幌博物館所藏北日本産鼠科目録

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北海道帝國大學農學部附屬博物館所藏の北日本(北海道、千島、樺太)の鼠科目録を略記す。九種の中北千島幌筵島より採集保存せられたる一種は、新亞種なるを以て之が特徴を記し、下記の如く命名せり。

Clethrionomys rufocanus kurilensis sub. sp. チシマヤチネズミ(新稱)

新亞種は北ヨーロッパ並に北アジヤに廣く分布する *Clethrionomys rufocanus rufocanus* に親縁を有し、体の上面は赤栗色にして、下面は灰白色なり。外見上後種と異なるは体の一般に小形なる點とす。頭骨にあつては一般に前後に壓縮されたる觀を呈し、鼻骨は特に短し。臼齒の狀は全く後種と等しく、區別する點を認めず。

(Institute of Zoology, the Kyoto Imperial University)

A CONICAL FUNNEL-SHAPED WASHING APPARATUS

BY

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(With One Text-figure)

Following the fixation in a solution containing chromic acid, osmium tetroxide, or potassium bichromate, a thorough washing of the specimen in running water is occasionally needed in order to secure good cutting and staining qualities, clear appearance, and preservability of the preparation. The following device is a new addition, perhaps worthy of being described, to a number of useful kinds of washing apparatus hitherto employed (cf. ROMEIS, Taschenbuch der mikroskopischen Technik, 1932; SUZUKI, Microscope and Microscopical Technique, in Japanese, 1924).

The working part of the new device is an upright conical glass funnel, the diameter of which is twice as large at the broader end as at the narrower. After applying a piece of silk cloth to close its narrower end, where the edge