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ADDITIONS AND CORRECTIONS TO THE SECTION
ON SCIURIDAE IN ELLERMAN'S FAMILIES
AND GENERA OF LIVING RODENTS

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SINCE the publication of the excellent list by R. W. Hayman and G. W. C. Holt in Ellerman's *Families and Genera of Living Rodents* (Ellerman, 1940-41), many changes in the classification of the Sciuridae have been made by various authors. Ellerman's book brings the classification of the rodents up to and including the year 1936. The advantages of having a complete list of species in one volume are so great that it seems worth while to bring this work up to date from time to time with supplementary lists. For some years a card file on the classification and bibliography of the Sciuridae of the world has been kept at the Museum of Zoology, University of Michigan, and it is hoped that the following notes made from this file will add to the usefulness of the list in Ellerman. These notes are in four parts. The first part consists of changes in the classification of the Sciuridae made by various authors from 1936 through 1943 with a few earlier changes omitted by Hayman and Holt and considered sufficiently important to be included. A new name, *Citellus pygmaeus ellermani*, is proposed to replace *C. p. orlovi*. This section is arranged by genera in the order used in Ellerman. The authority for a change is denoted by the author's name followed by the date.

The number following each species, in parentheses, refers to the species number under that particular genus in Ellerman. A bibliography of these authors will be found at the end of the paper. The second part is a list of synonyms omitted in Ellerman. Before each name will be found the page in Ellerman and the species number under which the synonym should be placed. The third part is a list of forms described from the year 1936 to the end of 1943 and apparently valid forms described previously, but omitted in Ellerman. The type locality and original description is cited for each. The fourth part is an alphabetical list of names to be added to Ellerman's index.

The recent work by Allen (1940) on the squirrels of China and Mongolia and that by Chasen (1935, 1940*a*, and 1940*b*) on the Oriental region have been invaluable in clearing up much of the confusion that has existed for many years in this large group of rodents. The squirrels of Mexico, South America, and Siam still require revision.

CHANGES SUGGESTED BY VARIOUS AUTHORS

Genus *Trogopterus* (p. 279)

Allen (1940): *minax* (5) is a synonym of *mordax* (2).

Genus *Petaurista* (p. 281)

Chasen (1940*a*): *punctatus* (19), *banksi* (20), and *sumatranus* (p. 289) are races of *elegans* (1). *Marica* (21) and *sybilla* (22) probably should also be considered races of *elegans*, although they were not included in the scope of Chasen's paper. Chaworth-Musters (1934): *gorkhali* (46) and *clarkei* (47) are races of *caniceps* (45). Allen (1940): *rubicundus* (57) is a race of *petaurista* (2); *leucocephalus* (15) a synonym of *alborufus* (14); and *filchnerinae* (60) a synonym of *xanthotis* (48). Miller (1942): *marchio* (Ellerman: 285, a synonym of *batuana*, 8) is a race of *petaurista*.

Genus *Aëretes* Allen (New Genus)

Allen (1940): *Petaurista melanopterus* (55, p. 289) is the type species of the new genus *Aëretes*; *sulcatus* (56, p. 289) is a synonym of *melanopterus* (55).

Genus *Aeromys* (p. 290)

Chasen (1940a): *phaeomelas* (2) and *bartelsi* (3) are races of *tephromelas* (1); *thomasi* (4) is a species of the genus *Hylopetes* (p. 298).

Genus *Pteromys* (p. 291)

Chaworth-Musters (1937): *Pteromys russicus*, a *nomen conservandum*, proposed to supersede *P. volans* (1); *turovi* (4), *betulinus* (5), *incanus* (6), *athene* (7), *aluco* (8), *buechneri* (10), *orii* (11), *momonga* (12), and *amygdalei* (13) are synonyms of *russicus*.

Genus *Glaucomys* (p. 294)

Davis (1939): *Glaucomys sabrinus bullatus* (22) is a synonym of *bangsi* (13).

Genus *Hylopetes* (p. 298)

Chasen (1940a): *spadiceus* (2), *belone* (3), *harrisoni* (6), *aurantiacus* (8), *amoenus* (9), and *everetti* (13) are races of *sagitta* (4); *thomasi* is transferred from the genus *Aeromys* (p. 290).

Genus *Petinomys* (p. 300)

Chasen (1940a): *phipsoni* (2) is a race of *vordermanni* (3); *lugens* (8) and *maerens* (9) are races of *hageni* (10).

Genus *Sciurus* (p. 330)

Harris (1943): *chiriquensis* (125) a synonym of *hoffmani* (124); *miravallensis* (130) a race of *deppei* (93). Lowery and Davis (1942): *capistratus* (synonym of *oculatus*, 115) a synonym of *niger* (108); *ludovicianus* (synonym of *rufiventer*, 113) a subspecies of *niger* (108) with *texianus* (110) a synonym of it; *subauratus* (synonym of *rufiventer*, 113) a subspecies of *niger* (108) with *audubonii* (synonym of *rufiventer*, 113) a synonym of it. Tate (1939): *Guerlingetus* (p. 340), *Hadroskiurus* (p. 344), and *Leptoskiurus* (p. 340) are valid genera; *gilvicularis* (157) a full species with *venustus* (160) a synonym of it; *duida* (180) a race of *igniventris* (181).

Genus *Tamiasciurus* (p. 345)

Burt (1943): *regalis* (17) a race of *hudsonicus* (1).

Genus *Callosciurus* (p. 348)

Chasen (1935 and 1940a): *pumilus* (36) and *fraterculus* (41) are races of *lowii* (42); *alacris* (51) a synonym of *robinsoni* (45); *lingungenis* (53) a synonym of *natunensis* (44); *procerus* (39) a race of *tenuis* (25); *splendens* (100a) a synonym of *frandseni* (101); *cockerelli* (109) a synonym of *menamicus* (107); *siamensis* (synonym of *finlaysoni*, 110) a race of *ferrugineus* (100); *bocourti* (114) and *floweri* (120) synonyms of *siamensis* (synonym of 110); *atrodorsalis* (124), *thai* (125), *shanicus* (126), *zimmeensis* (127) and *pranis* (129) races of *erythraeus* (54); *moheius* (163) and *mohillius* (164) are races of *caniceps* (134); *kuchingensis* (184) a synonym of *sarawakensis* (183); *sumatranus* (202) a synonym of *rafflesii* (166); *balstoni* (216) a synonym of *notatus* (213); *diardi* (317) and *griseiventer* (synonym of *notatus*, 213) synonyms of *nigrovittatus* (204); *tamansari* (214) and *verbeeki* (221) synonyms of *madurae* (215); *vanheurni* (220) and *andrewsi* (225) synonyms of *notatus* (213); *vittatus* and subspecies (226-56 and 258-71) all races of *notatus* (213); *albescens* (257) a species, with *adamsi* (272) a subspecies of it; *grayi* (289) a synonym of *borneensis* (see this paper page 13); and *pryeri* (292) and *inquinatus* (293) races of *hippurus* (288). Allen (1940): *Baginia* Gray and *Erythrosciurus* Gray (both omitted in Ellerman) are synonyms of *Callosciurus* (p. 348); *rafflesii* (166) is a synonym of *prevostii* (165). Chasen (1940a): *rafflesii* (166) regarded as a race of *prevostii* (165). Allen (1940): *vittatus* (226) is a synonym of *plantani* (synonym of *notatus*, 213); *chinensis* (318) is identical with *philippinensis* (300); *griseopectus* (69), *canigenus* (160), *Herpestes albifer*, *H. leucurus*, and *Callosciurus e. woodi* (83) are synonyms of *styani* (70); and *haemobaphes* (73) a synonym of *michianus* (72). Chasen (1940b): *modestus* (31) is given specific rank. Miller (1942): *altitudinis* (32) and *humilis* (46), full species; *nicotianae* (223) a race of *vittatus* (226).

Anthony (1941): *beebei* (synonym of *quinquestriatus*, 285) is a race of *quinquestriatus* (285) and *imarius* (286) a synonym of *beebei*.

Genus *Tamiops* (p. 354)

Allen (1940) gave *Tamiops* generic rank and concurred with Osgood (1932) in the arrangement of this group (Ellerman: 653) with the following exceptions (Ellerman: 354-55): *monticolis* (4) is a synonym of *maritimus* (3); *forresti* (17) a synonym of *clarkei* (21); *russeolus* (16) a synonym of *swinhoei* (19); and *maritimus* (3) and *hainanus* (10) races of *swinhoei* (19). Following such an arrangement, one also should treat *olivaceus* (18), *spencei* (22), *formosanus* (5), *laotum* (14), and *moi* (15) as races of *swinhoei* (19).

Genus *Dremomys* (p. 380)

Allen (1940): *griselda* (7) and *lentus* (28) are synonyms of *pernyi* (5); *lichiensis* (12) is a synonym of *flavior* (6); *chintalis* (10) a synonym of *calidior* (11); and *melli* (29) a race of *rufigenis* (18). Allen and Coolidge (1940): *everetti* (17) is a species of *Rhinosciurus* (p. 395).

Genus *Ratufa* (p. 383)

Chasen (1940a): *albiceps* (Ellerman: 385, synonym of *bicolor*, 12), *phaeopepla* and subspecies (60-63), and *melanopepla* and subspecies (64-72) are races of *bicolor* (12); *notabilis* and subspecies (18-24) and *ephippium* and subspecies (25-36) are races of *affinis* (39); *lumholzi* (37) and *dulitensis* (38) are synonyms of *sandakanensis* (28) and *baramensis* (27) respectively. Miller (1942): *palliata* (14) a full species.

Genus *Lariscus* (p. 391)

Chasen (1940b): *niobe* (8) a race of *Funambululus insignis*. Miller (1942): *niobe* (8) a full species of the genus *Lariscus*.

Genus *Rhinosciurus* (p. 395)

Allen and Coolidge (1940) transferred *Dremomys everetti* (17, p. 381) to the genus *Rhinosciurus*.

Genus *Heliosciurus* (p. 399)

Allen (1939): *libericus* (43) is a synonym of *maculatus* (36). Allen's arrangement of the subgenus *Heliosciurus* is as follows:

<i>bongensis bongensis</i>	<i>rufobrachium rufobrachium</i>
<i>bongensis canaster</i>	<i>rufobrachium acticola</i>
<i>gambianus gambianus</i>	<i>rufobrachium arrhenii</i>
<i>gambianus limbatus</i>	<i>rufobrachium aubryi</i>
<i>gambianus senescens</i>	<i>rufobrachium benga</i>
<i>multicolor multicolor</i>	<i>rufobrachium brauni</i>
<i>multicolor abassensis</i>	<i>rufobrachium caurinus</i>
<i>multicolor coenosus</i>	<i>rufobrachium emissus</i>
<i>multicolor dysoni</i>	<i>rufobrachium hardyi</i>
<i>multicolor elegans</i>	<i>rufobrachium isabellinus</i>
<i>multicolor kaffensis</i>	<i>rufobrachium keniae</i>
<i>multicolor lateris</i>	<i>rufobrachium leonensis</i>
<i>multicolor madogae</i>	<i>rufobrachium lualabae</i>
<i>multicolor omensis</i>	<i>rufobrachium maculatus</i>
<i>mutabilis mutabilis</i>	<i>rufobrachium medjanius</i>
<i>mutabilis beirae</i>	<i>rufobrachium nyansae</i>
<i>mutabilis shirensis</i>	<i>rufobrachium obfuscatus</i>
<i>mutabilis chirindensis</i>	<i>rufobrachium pasha</i>
<i>mutabilis vumbae</i>	<i>rufobrachium rubricatus</i>
<i>mutabilis punctatus</i>	<i>rufobrachium semlikii</i>
<i>mutabilis savannius</i>	<i>undulatus undulatus</i>
<i>rhodesiae rhodesiae</i>	<i>undulatus daucinus</i>
<i>rhodesiae loandicus</i>	<i>undulatus dolosus</i>
	<i>undulatus shindi</i>

Genus *Tamiscus* (p. 405)

Allen (1940) and Allen and Loveridge (1942): *Tamiscus* is a valid genus.

Genus *Paraxerus* (p. 405)

Allen (1939): *pauli* (synonym of *aruscensis*, 12) is a valid species; *bridgemani* (20) a race of *sponsus* (29); and *suahelicus* (23) and *lastii* (25) synonyms of *frerei* (24).

Genus *Protoxerus* (p. 415)

Allen (1939) : *calliurus* (2) is a synonym of *eborivorus* (6).

Genus *Euxerus* (p. 421) and *Geosciurus* (p. 422)

Allen (1939) : *Euxerus* and *Geosciurus* are valid genera.

Genus *Rupestes* (p. 425)

Allen (1940) gave *Rupestes* generic rank.

Genus *Eutamias* (p. 426)

Howell (1938) and Allen (1940) regarded *Eutamias* as a genus. Allen (1940) : *intercessor* (71) is a synonym of *senescens* (73) ; *umbrosus* (70) a synonym of *albogularis* (72). Longhurst (1940) gave *sonomae* (54) specific rank. Johnson (1943) : *speciosus* (35) is a full species with *frater* (33), *sequoiensis* (34), and *callipeplus* (37) races of it ; *allesii* (55) is a race of *sonomae* ; *juniperus* (29) is a synonym of *panamintinus* (28).

Genus *Citellus* (p. 437)

Ellerman (1940) proposed a new name, *orlovi* (17), to replace *pallidus* of Orlov and Feniuk, *pallidus* being preoccupied by *Citellus tridecemlineatus pallidus* (77). The new name *orlovi* is preoccupied by *Citellus fulvus orlovi* Ognev, 1937. I, therefore, propose a new name, *Citellus pygmaeus ellermani* to replace *C. p. orlovi* Ellerman. Howell (1938) : *kinoensis* (see page 9) is a synonym of *saxicola* (113). Allen (1940) : *umbratus* (37) is a synonym of *mongolicus* (36) ; *stramineus* (44) a synonym of *jacutensis* (48) ; *alaschanicus* (31) and *obscurus* (33) races of *dauricus* (35) ; *dilutus* (32) a synonym of *obscurus* (33) ; and *siccus* (34) a synonym of *alaschanicus* (31). Davis (1939) ; *idahoensis* (55) is a race of *townsendii* (50).

Genus *Marmota* (p. 454)

Vinogradov, Argyropulo, and Heptner (1936) : *littledalei* (45), *flavinus* (46), and *stirlingi* (47) are synonyms of *caudata* (43). Allen (1940) : *sibirica* (40) is a race of *bobak* (37) and *flavinus* (46) a race of *littledalei* (45).

SYNONYMS TO BE ADDED TO ELLERMAN'S FAMILIES AND GENERA
OF RODENTS

PAGE

- 300, No. 14—*Pteromys leachii* Gray, 1836; *Proc. Zool. Soc. London*, 1836, p. 88.
- 332, No. 27—*Sciurus talahutky* Brass, 1911; *Aus dem Reiche der Pelze*, p. 694.
- 332, No. 33—*Sciurus vulgaris coreanus* Kishida, 1924; *Monograph of Japanese Mammals*, p. 153.
- 336, No. 82—*Sciurus richardsonii* Gray, 1842; *Ann. Mag. Nat. Hist.*, 10: 264 (not of Bachman, 1838).
- 338, No. 108—*Sciurus cinereus* Linnaeus, *Syst. Nat.*, ed. 10: 1 (1758): 64 (in part) (gray phase of *S. n. niger* Linnaeus).
- 338, No. 108—*Sciurus cinereus* J. A. Allen, *Proc. Bost. Soc. Nat. Hist.*, 16 (1874): 13.
- 354, No. 8—*Sciurus decemlineatus* Lydekker, 1904; *Zool. Record*, 40 (1903): *Mammals*, p. 31. Accidental renaming of *Sciurus novemlineatus* Miller.
- 358, No. 65—*Sciurus cinnamomeiventris* Swinhoe, 1862; *Proc. Zool. Soc., London*, 1862, pp. 349, 357 (*lapsus calami*).
- 359, No. 70—*Herpestes leucurus* Hilzheimer, 1905; *Zool. Anzeiger*, 29: 299.
- 359, No. 70—*Herpestes albifer* Hilzheimer, 1906; *Abh. u. Ber. Mus. f. Natur. u. Heimatk., Magdeburg*, 1: 177.
- 365, No. 161—*Sciurus griseogularis* Cabrera, 1917; *Boll. real soc. espan. hist. nat.*, 17: 518.
- 369, No. 226—*Sciurus bivittatus* Desmarest, 1820; *Mammalogie supplement*, pp. 543-44. (See Chasen, 1940).
- 369, No. 226—*Macroxus toupai* Lesson, 1827; *Manuel de mammalogie*: 238. (See Chasen, 1940).
- 385, No. 6—*Sciurus bombayanus* Boddaert, 1785?
- 385, No. 12—*Sciurus bicolor* var. *Sondiaca* Müll. and Schleg., 1844; *Verhand. nat. gesch. Nederl., Mamm.*, p. 85. (*Fide* Chasen, 1940a).

- 426, No. 1—*Dremomys latro* Huede, 1898; *Mém. concern. l'hist. nat. de l'emp. chin.*, 4, Pt. 2: 55, Pl. 12.
426, No. 3—*Dremomys collaris* Huede, 1898; *ibid.*
451, No. 113—*Ammospermophilus harrisi kinoensis* Huey, 1937; *Trans. San Diego Soc. Nat. Hist.*, 8: 352.
457, No. 5—*Arctomys melanopus* Kuhl, 1820; *Beit. z. Zool.*, p. 64.

FORMS DESCRIBED BETWEEN 1936 AND 1944, AND PREVIOUSLY
DESCRIBED FORMS OMITTED IN ELLERMAN

Petaurista petaurista stellaris Chasen

- 1940 *Bull. Raffles Mus.*, No. 15: 113.
Bintang Island, Rhio Archipelago.

Petaurista leucogenys osiui Kuroda

- 1938 *A List of Japanese Mammals*, Tokyo, June.
Osui, North Hondo, Japan.

Pteromys volans wulungshanenicus Mori

- 1939 *Rept. First Scientific Expedition to Manchoukuo*, Sec. 5, Div. 2, Pt. 4: 15.
Mt. Wu-ling, Hsing-lung hsien, South Jehol.

Glaucomyx sabrinus reductus Cowan

- 1937 *Proc. Biol. Soc. Wash.*, 50: 79, June 22.
Lonesome Lake, British Columbia, on the Atnarko River, approximately 50° 10' N. and 125° 45' W.

Glaucomyx sabrinus goodwini Anderson

- 1943 *Ann. Rept. Provancher Soc.*, 1942, p. 55 (English), p. 69 (French).
Berry Mountain Camp, junction Berry Mt. Brook and Grand Cascapedia River, Mantane County, Quebec.

Glaucomyx sabrinus gouldi Anderson

- 1943 *Ann. Rept. Provancher Soc.*, 1942, p. 56 (English), p. 71 (French).

Frizzleton, Inverness County, Cape Breton Island, Nova Scotia.

Hylopetes sagitta sipora Chasen

- 1940 *Bull. Raffles Mus.*, No. 15: 117.
Sipora Island, Mentawi Islands, West Sumatra.

Hylopetes phayrei anchises Allen and Coolidge
Pteromys phayrei anchises Allen and Coolidge

- 1940 *Bull. Mus. Comp. Zool.*, 87, No. 3: 153.
Mt. Angka, Northern Siam.

Pteromys (Hylopetes) alboniger orinus Allen

- 1940 *Mammals of China and Mongolia*, p. 723.
Likiang Range, Yunnan, China.

Pteromys (Olisthomys) morrisoni Carter

- 1942 *Amer. Mus. Novitates*, No. 1208: 2, Nov. 12. Type of subgenus *Olisthomys*.
Dalu (Taro) (26° 21' N., 96° 11' E.), (altitude, 600 ft.).

?*Petinomys mindanensis* Rabor

Sciuropterus mindanensis Rabor

- 1939 *Philippine Journ. Sci.*, 69: 389-95, 4 pls.
Badiangon, Gingoog, Oriental Misamis Province, northern coast of Mindanao, Philippine, Islands.

Petinomys bartelsi Chasen

- 1939 *Treubia, Buitenzorg*, 17: 185.
Tjilondong, Mt. Pangrango, West Java.

Iomys horsfieldii penangensis Chasen

- 1940 *Bull. Raffles Mus.*, No. 15: 115.
Penang Island.

Sciurillus pusillus hoehnei Miranda-Ribeiro

- 1941 *O Campo, Rio de Janeiro*, Ano, 12, No. 139: 10, July.
Rio Telles, Piras (formerly Sao Manoel), Mato Grosso, Brazil.

Microsciurus alfari alticola Goodwin

- 1943 *Amer. Mus. Nat. Hist., Novitates*, No. 1218: 2, Feb. 11.
Lajos, Villa Quesada Alajuela, Costa Rica.

Sciurus carolinensis matecumbei H. Bailey

- 1937 *Journ. Mammalogy*, 18: 516, Nov.
Lower Key Largo, Monroe County, Florida.
Synonym: *minutus* Bailey (preoccupied). *The Bailey Mus. and Lib., Nat. Hist., Bull.*, No. 12: 4, Jan. 15, 1937.

Sciurus poasensis Goodwin

- 1943 *Amer. Mus. Nat. Hist., Novitates*, No. 1218: 1, Feb. 11.
Volcano Poas, Alajuela, Costa Rica.

Sciurus niger bachmani Lowery and Davis

- 1942 *Occ. Papers Mus. Zool. La. State Univ.*, No. 9: 156.
Ten miles northwest of Enon, Washington Parish,
Louisiana.

Sciurus candeleusis carchensis Harris and Hershkovitz

- 1938 *Occ. Papers Mus. Zool. Univ. Mich.*, No. 391: 3, Nov. 10.
Atal, about five miles southeast San Gabriel, Montúfar,
Carehe Province, Ecuador (altitude, 2900 m.).

Sciurus gerrardi imbaburae Harris and Hershkovitz

- 1938 *Occ. Papers Mus. Zool. Univ. Mich.*, No. 391: 1, Nov. 10.
Peñaherrera (Intag), western subtropical part of Imbabura Province, Ecuador (altitude, approx. 1500 m.).

Sciurus aestuans henseli Miranda-Ribeiro

- 1941 *O Campo, Rio de Janeiro, Ano*, 12, No. 139: 10, Fig. 5,
July.
Porto Feliz, Rio Uruguay, Rio do Sul (= Santa Catarina), Brazil.

Sciurus (Guerlinguetus) poaiae Moojen

- 1942 *Bol. Mus. Nac. Brazil, Zool.*, No. 1: 11, text figs., Jan. 30.
Mata da Poaia, Tapirapoa, Chapada, Mato Grosso,
Brazil.

Sciurus (Guerlinguetus) rufus Moojen

- 1942 *Bol. Mus. Nac. Brazil, Zool.*, No. 1: 14, text figs., Jan. 30.
São João (cabeceiras do Aripuanã) Mato Grosso, Brazil.

Sciurus (Hadroskiurus) igniventris manhanensis Moojen

- 1942 *Bol. Mus. Nac. Brazil, Zool.*, No. 1: 24, text figs., Jan. 30.
Parana do Nanhaná, between Rio Japurá and Rio Amazonas, Amazonas, Brazil.

Sciurus (Hadroskiurus) pyrrhonotus purisianus Moojen

- 1942 *Bol. Mus. Nac. Brazil, Zool.*, No. 1: 31, text fig., Jan. 30.
Lago Aiapuá, Lower Purús, Estado Amazonas, Brazil.

Sciurus (Hadroskiurus) langsdorffi rondoniae Moojen

- 1942 *Bol. Mus. Nac. Brazil, Zool.*, No. 1: 39, text fig., Jan. 30.
Cabeceiras do Rio Aripuanã, Rondonia, Mato Grosso, Brazil.

Calloskiurus jentinki subsignanus Chasen and Kloss*Sciurus jentinki subsignanus* Chasen and Kloss

- 1937 *Bull. Raffles Mus.*, No. 13: 80, August.
Above Long Petak (1° 44' N) on the Telen River, a tributary of the Mahakkam, or Kutai River, Dutch East Borneo (altitude above 1172 m.).

Calloskiurus ferrugineus primus Allen and Coolidge

- 1940 *Bull. Mus. Comp. Zool.*, 87, No. 3: 157, Dec.
Mae Wan River, near Mt. Souket, northern Siam.

Calloskiurus prevostii baramensis Chasen*Sciurus prevostii baramensis* Chasen

- 1940 *Bull. Raffles Mus.*, 15: 131, April.
Mt. Dulit, Baram Sarawak, Borneo.

Calloskiurus baluensis medialis Allen and Coolidge

- 1940 *Bull. Mus. Comp. Zool.*, 87, No. 3: 156, Dec.
Mt. Tibang, (Central) Dutch Borneo.

Callosciurus nigrovittatus venetus Chasen

Sciurus nigravittatus venetus Chasen

- 1940 *Bull. Raffles Mus.*, 15: 139.
Mt. Kinabalu, British North Borneo.

Callosciurus notatus percommodus Chasen

Sciurus notatus percommodus Chasen

- 1940 *Treubia, Buitenzorg*, 17, No. 5: 489, Dec.
Lesten, Atjeh, northern Sumatra. According to Miller
(1942, *Proc. Acad. Nat. Sci. Phila.*, 94: 140) this is
a synonym for *Sciurus albescens albescens* Bonhote.

Callosciurus hippurus borneensis Gray

Macroxus rufogaster borneensis Gray

- 1867 *Ann. Mag. Nat. Hist.*, (3) 20: 283.
Borneo.

Callosciurus nigrovittatus acraeus Miller

- 1942 *Proc. Acad. Nat. Sci. Phila.*, 94: 138, Nov. 13.
Blangnanga Base Camp, Atjeh, northern Sumatra
(altitude, 3600 ft.).

Callosciurus albiculus Miller

- 1942 *Proc. Acad. Nat. Sci. Phila.*, 94: 139, Nov. 13.
Blangnanga Base Camp, Atjeh, northern Sumatra (al-
titude, 3600 ft.).

Callosciurus sladeni vernayi Carter

- 1942 *Amer. Mus. Novitates*, No. 1208, Nov. 12.
Tapa Hka (26° 9' N; 96° 16' E), northern Burma.

Lariscus insignis murianus Sody

- 1937 *Temminckia*, 2: 219.
Mt. Moeria, central Java (altitude, 800 m.).

Heliosciurus gambianus dysoni St. Leger

Heliosciurus multicolor dysoni St. Leger

- 1937 *Ann. Mag., Nat. Hist.*, ser. 10, 19: 527, May.
About forty miles above mouth of the Turkwell River,
Lodwar, Lake Rudolf region, Africa.

- Heliosciurus gambianus vumbae* Roberts
Heliosciurus mutabilis vumbae Roberts
- 1937 *Ann. Transvaal Mus.*, 19, Pt. 1: 100, Nov. 8.
Vumba, southern Rhodesia, Africa.
- Paraxerus cepapi tsumebensis* Roberts
- 1938 *Ann. Transvaal Mus.*, 19, Pt. 2: 236, Oct. 31.
Guinas Waterhole, Tsumeb District, Southwest Africa.
- Funisciurus congicus demarensis* Roberts
- 1938 *Ann. Transvaal Mus.*, 19, Pt. 2: 236, Oct. 31 (described
as *Heliosciurus* by mistake).
Guinas Waterhole, Tsumeb District, Southwest Africa.
- Funisciurus pyrrhopus victoriae* Allen and Coolidge
- 1942 *Bull. Mus. Comp. Zool.*, 89, No. 4: 180.
Kibale Forest, Toro, Uganda.
- Sciurotamias davidanus saltitans* Huede
- 1898 *Mem. concern. l'hist. nat. de l'emp. chin.*, 4, Pt. 2: 55.
Pl. 12, Figs. 4-4c.
Hepeh, China.
Synonym: *Sciurotamias owstoni* Allen 1909, *Bull. Amer.
Mus. Nat. Hist.*, 26: 429.
- Tamiasciurus hudsonicus murii*, Howell, A. H.
- 1943 *Proc. Biol. Soc. Wash.*, 56: 67-68, June 16.
Moorhead, Minnesota.
- Tamiasciurus hudsonicus pallescens* A. H. Howell
- 1942 *Proc. Biol. Soc. Wash.*, 55: 13-14, May 12.
Eight miles east of Upham, McHenry County, North
Dakota.
- Tamiasciurus hudsonicus laurentianus* Anderson
- 1942 *Ann. Rept. Provancher Soc.*, 1941, p. 31.
Lac Marchant near Moisie Bay, Saguenay County,
North shore of Gulf of St. Lawrence, Quebec.

Tamiasciurus hudsonicus ungavensis Anderson

1942 *Ann. Rept. Provancher Soc.*, 1941, p. 33.

Lake Waswanipi (Wosownaky Post, H. B. Co.) Abitibi District, Quebec, about 180 miles southeast of intersection of Quebec-Ontario boundary with James Bay.

Tamiasciurus fremonti dixiensis Hardy

1942 *Proc. Biol. Soc. Wash.*, 55: 87-88, June 25.

Near Further Water, Pine Valley Mountains, Washington County, Utah.

Tamias striatus rufescens Bole and Moulthrop

1942 *Sci. Publ. Cleveland Mus. Nat. Hist.*, 5, No. 6: 130, Sept. 11.

Chesterland Caves, Chester Town, Geauga County, Ohio.

Tamias striatus pipilans Lowery

1942 *Occ. Pap. Mus. Zool., La. State Univ.*, No. 13: 235, November 22.

Five miles south of Tunica, West Feliciana Parish, Louisiana.

Tamias striatus ohionensis Bole and Moulthrop

1942 *Sci. Publ. Cleveland Mus. Nat. Hist.*, 5, No. 6: 135, Sept. 11.

Cincinnati, Hamilton County, Ohio.

Tamias striatus peninsulae Hooper

1942 *Occ. Papers Mus. Zool. Univ. Mich.*, No. 461: 1, Sept. 15.

Three miles southeast of Millersburg, Presque Isle County, Michigan.

Eutamias amoenus cratericus Blossom

1937 *Occ. Papers Mus. Zool. Univ. Mich.*, No. 366: 1, Dec. 21.

Grassy Cone, Craters of the Moon Nat. Monument, twenty-six miles southwest of Arco, Butte County, Idaho (altitude, 6000 ft.).

Eutamias amoenus celeris Hall and Johnson

- 1940 *Proc. Biol. Soc. Wash.*, 53: 155, Dec. 19.
Near Big Creek, Pine Forest Mountains, Humboldt
County, Nevada.

Eutamias panamintinus acrus Johnson

- 1943 *Univ. Calif. Publ. Zool.*, 48: 94, Dec. 24.
One and four-tenths miles southeast of Horse Spring,
Kingston Range, northeastern San Bernardino
County, California (altitude, 5000 ft.).

Eutamias dorsalis carminis Goldman

- 1938 *Proc. Biol. Soc. Wash.*, 51: 56, March 18.
Carmen Mountains, Coahuilla, Mexico (altitude, 7400
ft.).

Citellus fulvus orlovi Ognev

- 1937 *Memorial to Michael Menzbier, Acad. Sci. USSR,*
Moscou, p. 318.
Lower Volga region, left shore of Volga, opposite Volsk.

Citellus fulvus nigrimontanus Antipin

- 1942 *Comp. Rend. (Doklady) Acad. Sci., USSR*, 36, No. 1:
29, July 10.
Eastern slope of the Mt. Mynjelke, range Kara-tau.

Citellus pygmaeus kalabuchovi Ognev

- 1937 *Memorial to Michael Menzbier, Acad. Sci. USSR,*
Moscou, p. 322.
Near village of Fedosijevka, Zavetchenskij district,
region of northern Caucasus (valley of the River Sal).

Citellus citellus karamani Martino

- ?1937 Separate from *Lovtsa*, Pt. 11-12, Nov.-Dec. 1937, fig.
Ann. Mag. Nat. Hist., Ser. 11, 5, No. 29: 468, May, 1940.
Karadjica Mountains, above Patiska, 30 km. south of
Skoplje, south Serbia (Macedonia) (altitude, 2000
m.).

Citellus citellus laskarevi Martino

- 1940 *Ann. Mag. Nat. Hist.*, Ser. 11, 5, No. 29: 468, May, 1940.
Dolovo, southeastern Banat, Yugoslavia.

Citellus dauricus yamashinai Kuroda

- 1939 *Bull. Beogeog. Soc., Japan, Tokyo*, No. 1, 9: 11, Jan. 31
(English text).
Jalamute (east of Hai-la-erh), northern Manchuria.

Citellus eversmanni menzbieri Ognev

- 1937 *Memorial to Michael Menzbier, Acad. Sci. USSR, Moscow*, p. 330.
Near Ignatijevka at a distance of 23 km. from Blagovestchensk, on the Amur.

Citellus eversmanni intercedens Ognev

- 1937 *Memorial to Michael Menzbier, Acad. Sci. USSR, Moscow*, p. 327.
Transbaikal, vicinity of Stretensk, district of Nerchinsk, eastern Transbaikal.

Citellus eversmanni janensis Ognev

- 1937 *Memorial to Michael Menzbier, Acad. Sci. USSR, Moscow*, p. 332.
Ken-Turjakh, along the upper course of the River Jana.

Citellus beecheyi sierrae A. H. Howell

- 1938 *N. Amer. Fauna*, No. 56: 153, May 18.
Emerald Bay, Lake Tahoe, California.

Citellus washingtoni loringi A. H. Howell

- 1938 *N. Amer. Fauna*, No. 56: 71, May 18.
Douglas, Washington.

Citellus elegans aureus Davis

- 1939 *The Recent Mammals of Idaho* (Caldwell, Idaho), p. 177, April 5.
Double Springs, sixteen miles northeast of Dickey, Custer County, Idaho. (Probably a race of *richardsonii*).

Citellus beldingi crebrus Hall

- 1940 *The Murrelet* (Seattle), Vol. 21, No. 3, p. 59, Sept.-Dec.
Reese River Valley, seven miles north of Austin,
Lander County, Nevada.

Citellus adocetus arceliae Villa

- 1942 *An. Inst. Biol. Mexico*, 13, No. 1: 357, Figs. 1-6. (Spanish text, English summary) (article dated May 14, 1942).
Four kms. south of Arcelia on the ranch "El Limon,
Dist. de Aldama," Guerrero, Mexico.

Marmota monax johnsoni Anderson

- 1943 *Ann. Rept. Provancher Soc.*, 1942, p. 53 (English), p. 68 (French).
Percé, Gaspé County, Quebec.

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