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SUPPLEMENT TO  
CHASEN (1940)  
A HANDLIST OF MALAYSIAN  
MAMMALS

CONTAINING A GENERIC SYNONYMY  
AND A COMPLETE INDEX

by

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## INTRODUCTION

Chasen, 1940, A handlist of Malaysian mammals, *Bull. Raffles Mus.* No. 15 is the standard work on the mammals of the Malay Peninsula, Sumatra, Java, Borneo and their adjacent small islands. Useful as this work is, we feel it would have been still more useful if generic references and synonyms had been given, and if an index to the species, subspecies and synonyms had been provided. The object of the present work is to repair these omissions. Generic names which are preoccupied, and names which are antedated by another name bearing the same type species, are here for the most part omitted; for fuller synonymies of some of the genera see Ellerman & Morrison-Scott (1951). Generic synonyms from America, Australia and Africa are here as a rule omitted, unless the species in question occurs in some part of Asia. In the few instances where we disagree with the classification of Chasen we have ventured to say so.



## ORDER INSECTIVORA

### FAMILY TUPAIIDAE

#### Genus **TUPAIA** Raffles, 1821

1821. *Tupaia* Raffles, Trans. Linn. Soc. London, 13: 256. (May, 1821.)  
*Tupaia ferruginea* Raffles, the Singapore race of *Sorex glis* Diard.
1821. *Sorex-glis* F. Cuvier in Geoffroy & Cuvier, Hist. Nat. Mamm.,  
livraison 35: 1. (December, 1821 or perhaps early in 1822.)  
*Sorex glis* Diard.
1888. *Glipora* Jentink, Cat. Syst. Mus. H.N. Pays Bas. 12, Mamm.: 118.  
*Glipora leucogaster* Jentink (*nom. nud.*) = *Tupaia minor* Günther.
1913. *Tana* Lyon, Proc. U.S. Nat. Mus. 45: 134. *Tupaia tana* Raffles.  
Not of Reed, 1888.
1953. *Lyonogale* Conisbee, Genera and subgenera of recent mammals,  
46. New name for *Tana* Lyon. *Tupaia tana* Raffles. Valid as a  
subgenus.

#### Genus **DENDROGALE** Gray, 1848

1848. *Dendrogale* Gray, P.Z.S., 23. *Hylogalea murina* Schlegel & Müller.

#### Genus **PTILOCERCUS** Gray, 1848

1848. *Ptilocercus* Gray, P.Z.S., 23. *Ptilocercus lowii* Gray.
1864. *Ptilocercus* Brehm, Ill. Thierl. Vol. 1, 665. (Misspelling of *Ptilocercus*.)

### FAMILY ERINACEIDAE

#### Genus **ECHINOSOREX** Blainville, 1838

1827. *Gymnura* Lesson, Man. Mamm. 171. *Gymnura rafflesii* Lesson =  
*Viverra gymnura* Raffles. Not of Kuhl, 1824.
1838. *Echino-sorex* Blainville, C.R. Acad. Sci. Paris, 6: 742. *Viverra*  
*gymnura* Raffles.

#### Genus **HYLOMYS** Müller, 1839

1839. *Hylomys* Müller in Temminck, Verh. Nat. Gesch. Nederl. Overz.  
Bezitt. Zool. (Zoogd.), 50. *Hylomys suillus* Müller.

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## FAMILY TALPIDAE

Genus **TALPA** Linnaeus, 1758

1758. *Talpa* Linnaeus, Syst. Nat. 10th ed. 1: 52. *Talpa europaea* Linnaeus, from Sweden.
1848. *Mogera* Pomel, Arch. Sci. Phys. Nat. Genève, 9: 246. *Talpa wogura* Temminck, the Japanese race of *Talpa micrura* Hodgson, from Nepal.
1867. *Scaptochirus* Milne-Edwards, Ann. Sci. Nat. Zool. 7: 375. *Scaptochirus moschatus* Milne-Edwards, a race of *Talpa micrura* Hodgson, and from Chihli, north-eastern China.
1875. *Parascaptor* Gill, Bull. U.S. Geol. & Geogr. Surv. Terr. 1, 2: 110. *Talpa leucura* Blyth, the Assam race of *Talpa micrura* Hodgson.
1940. *Euroscaptor* Miller, J. Mamm. 21: 443. *Talpa klossi* Thomas (= *Talpa leucura* Blyth?).
1941. *Eoscalops* Stroganov, C.R. Acad. Sci. URSS. 33: 270. *Talpa longirostris* Milne-Edwards, the Szechuan race of *Talpa micrura* Hodgson.
1941. *Asioscalops* Stroganov, loc. cit. 271. *Talpa altaica* Nikolsky from the Altai Mountains, Siberia; a race of *Talpa europaea* Linnaeus, fide Bobrinskii, 1944.

For revision see Schwarz, 1948, P.Z.S. 118: 36-48, according to whose classification, both forms of *Talpa* listed by Chasen would be forms of

**Talpa micrura** Hodgson, 1841 (Calcutta J.N.H. 2: 221, Nepal).

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## FAMILY SORICIDAE

Genus **CROCIDURA** Wagler, 1832

1832. *Crocidura* Wagler, Isis, 275 (March, 1832). *Sorex leucodon* Hermann, from Strasbourg, eastern France.
1897. *Paurodus* Schulze, Helios, Berlin, 14: 90. *Sorex leucodon* Hermann, here selected.

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Genus **SUNCUS** Ehrenberg, 1833

1833. *Suncus* Ehrenberg in Hemprich & Ehrenberg, Symb. Phys. Mamm. 2: k. *Suncus sacer* Ehrenberg, the Egyptian race of *Sorex murinus* Linnaeus.
1839. *Pachyura* de Sélys Longchamps, Études de Micromamm. 32. *Sorex etruscus* Savi, from Italy.
1855. *Paradoxodon* Wagner, Schreber's Säugth. Suppl. 5: 805. *Sorex melanodon* Blyth = *Crocidura* (*Pachyura*) *nitidofulva* Anderson from India, a race of *Sorex etruscus* Savi.

## GENERIC SYNONYMY

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Genus **CHIMMAROGALE** Anderson, 1877

1877. *Chimmarogale* Anderson, J. Asiat. Soc. Bengal, 46, 2: 262. *Crossopus himalayicus* Gray from the Punjab, which is probably a race of *Sorex platycephalus* Temminck from Japan.
1921. *Crossogale* Thomas, Ann. Mag. N.H. 7: 243. *Crossogale sumatrana* Thomas, the Sumatran race of *Chimmarogale phaeura* Thomas.

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## ORDER DERMOPTERA

### FAMILY CYNOCEPHALIDAE

On nomenclature of this group see Simpson (1945). Chasen, who called the family Galeopteridae (following Thomas) did not recognize an order Dermoptera for these animals, but listed them as a family of Insectivora. We believe however that the consensus of opinion is in favour of ordinal rank for the flying lemurs.

Simpson (1945) refers the flying lemurs to a single genus *Cynocephalus*, and in 1951 we also adopted that classification since the difference between the two species seem more subgeneric than generic.

Genus **GALEOPTERUS** Thomas, 1908 (retained by Chasen)

is therefore considered a subgenus of *Cynocephalus*.

Genus **CYNOCEPHALUS** Boddaert, 1768

1768. *Cynocephalus* Boddaert, Dierkundig Mengelwerk, 2: 8 (footnote 1). *Lemur volans* Linnaeus, from the Philippine Islands.
1783. *Galeopithecus* Pallas. Acta Acad. Sci. Petrop. 1780, 1: 208. *Lemur volans* Linnaeus.
1908. *Galeopterus* Thomas, Ann. Mag. N.H. 1: 254. *Galeopithecus temminckii* Waterhouse, the Sumatran race of *Galeopithecus variegatus* Audebert. Valid as a subgenus.

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## ORDER CHIROPTERA

### FAMILY PTEROPODIDAE

On this family see Knud Andersen (1912). In that work characters of all genera dealt with by Chasen will be found except *Aethalops*, which is near *Balionycteris* but distinguished by the peculiar proportions of its upper incisors.

Despite Simpson's proposed reduction of genera in this family, it seems that K. Andersen makes a good case for the retention of all the genera he recognized.

Genus **ROUSETTUS** Gray, 1821

1821. *Rousettus* Gray, London Med. Repository, 15: 299. *Pteropus aegyptiacus* E. Geoffroy from Egypt.  
 1843. *Xantharpyia* Gray, List. Mamm. B.M., xix, 37. *Pteropus amplexicaudatus* E. Geoffroy.  
 1843. *Eleutherura* Gray, *loc. cit.* xix, *nom. nud.*; 1844. Voy. Sulphur, 1: 29. *Pteropus leachi* A. Smith, a race of *Pteropus aegyptiacus* E. Geoffroy and from South Africa.  
 1870. *Senonycteris* Gray, Cat. Monkeys, Lemurs & Fruiteating Bats B.M., 115. *Pteropus seminudus* Kelaart, from Ceylon.

Genus **PTEROPUS** Brisson, 1762<sup>1</sup>

1762. *Pteropus* Brisson, Regn. Anim. 13, 153-155. *Pteropus niger* Kerr (from Reunion and Mauritius, *fide* K. Andersen).  
 1777. *Pteropus* Erxleben, Syst. Anim. 130. *Pteropus niger* Kerr. (Some authors wish to ignore Brisson's names.)  
 1866. *Eumycteris* Gray, P.Z.S. 64. *Pteropus phaiops* Temminck = *Pteropus melanopogon* Peters, from Amboina.  
 1870. *Pselaphon* Grey, Cat. Monkeys, Lemurs & Fruiteating Bats, B.M., 110. *Pteropus pselaphon* Layard, from Bonin Islands.  
 1907. *Desmalopex* Miller, Fam. & Gen. Bats, 60. *Pteropus leucopterus* Temminck from Luzon, Philippine Islands.

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Genus **CYNOPTERUS** F. Cuvier, 1824

1824. *Cynopterus* F. Cuvier, Dents Mamm. 248. *Pteropus marginatus* E. Geoffroy = *Vespertilio sphinx* Vahl.  
 1906. *Niadius* Miller, Proc. Biol. Soc. Washington, 19: 83. *Cynopterus princeps* Miller, a race of *Cynopterus horsfieldi* Gray, *fide* Chasen, 1940.

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Genus **MEGAEROPS** Peters, 1865

1841. *Megera* Temminck, Mon. Mamm. 2: 274 and *Megaera*, *loc. cit.* 359. *Pachysoma ecaudatum* Temminck. Not of Wagler, 1830 or Robineau-Devoidy, 1830.  
 1865. *Megaerops* Peters, Mber. Preuss. Akad. Wiss. 256. *Megaera ecaudata* Temminck.

<sup>1</sup> On the nomenclature of this genus see Ellerman & Morrison-Scott, 1951, 4.

GENERIC SYNONYMY

Genus **DYACOPTERUS** K. Andersen, 1912<sup>1</sup>

1912. *Dyacopterus* K. Andersen, Cat. Chiroptera B.M., 1: 651. *Cynopterus spadiceus* Thomas.

Genus **BALIONYCTERIS** Matschie, 1899

1899. *Balionycteris* Matschie, Flederm. des Berliner Mus. für Naturk., 80. *Cynopterus maculatus* Thomas.

Genus **AETHALOPS** Thomas, 1923

1923. *Aethalodes* Thomas, Ann. Mag. N.H. 11: 251. *Aethalodes alecto* Thomas. Not of Gahan, 1888 (Coleoptera).  
1923. *Aethalops* Thomas, P.Z.S., 178. Replaces *Aethalodes*, preoccupied. *Aethalodes alecto* Thomas.

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Genus **CHIRONAX** K. Andersen, 1912

1912. *Chironax* K. Andersen, Cat. Chiroptera B.M., 1: 658. *Pteropus melanocephalus* Temminck.

Genus **PENTHETOR** K. Andersen, 1912

1912. *Penthetor* K. Andersen, Cat. Chiroptera B.M., 1: 665. *Cynopterus* (*Ptenochirus*) *lucasi* Dobson (which dates from 1880, not "1800" as listed by Chasen).

Genus **EONYCTERIS** Dobson, 1873

1873. *Eonycteris* Dobson, Proc. Asiat. Soc. Bengal, 148. *Macroglossus spelaeus* Dobson.  
1889. *Callinycteris* Jentink, Notes Leyden Mus. 11: 209. *Callinycteris rosenbergii* Jentink, from Celebes.

Genus **MACROGLOSSUS** F. Cuvier, 1824

1824. *Macroglossus* F. Cuvier, Dents. Mamm. 248. *Pteropus minimus* E. Geoffroy.  
1840. *Kiodotus* Blyth in Cuvier, Anim. Kingd. 69. New name for *Macroglossus*, under the impression that it was preoccupied by *Macroglossum* Scopoli, 1777.  
1902. *Odontonycteris* Jentink, Notes Leyden Mus. 23: 140. *Odontonycteris meyeri* Jentink = *Macroglossus lagochilus* Matschie.

<sup>1</sup> Not "1921" as listed in Chasen.

CHASEN'S MALAYSIAN MAMMALS

ADDENDUM TO CHASEN

Genus **DOBSONIA** Palmer, 1898

1828. *Hypoderma* E. Geoffroy, Dict. Class. H.N. 14: 707. Not of Latreille, 1818.  
1898. *Dobsonia* Palmer, Proc. Biol. Soc. Washington, 12: 114. *Cephalotes peronii* E. Geoffroy from Timor.

**Dobsonia peroni** E. Geoffroy, 1810.

1810. *Cephalotes peronii* E. Geoffroy, Ann. Mus. H.N. 15: 104. Timor.  
Tate (1942) (b) recorded this species from Bali.

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FAMILY RHINOPOMATIDAE

Genus **RHINOPOMA** E. Geoffroy, 1818<sup>1</sup>

1818. *Rhinopoma* E. Geoffroy, Description de l'Egypte, 2: 113. *Vespertilio microphyllus* Brünnich, from Arabia and Egypt.

FAMILY EMBALLONURIDAE

Genus **EMBALLONURA** Temminck, 1838

1838. *Emballomura* Temminck, Tijdschr. Natuur. Gesch. 5: 22. *Emballomura monticola* Temminck.

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Genus **SACCOLAIMUS**. Chasen dates this from Lesson, 1842; it should be Temminck, 1838. We regard it as a subgenus of *Taphozous* (see below).

Genus **TAPHOZOUS** E. Geoffroy, 1818

1818. *Taphozous* E. Geoffroy, Description de l'Egypte, 2: 113. *Taphozous perforatus* E. Geoffroy, from Egypt.  
1838. *Saccolaimus* Temminck, Tijdschr. Natuur. Gesch. 5: 6, (as a subgenus). *Taphozous saccolaimus* Temminck. Valid as a subgenus.  
1922. *Liponycteris* Thomas, Ann. Mag. H.N. 9: 267. *Taphozous nudiventris* Cretzschmar, from Egypt. Valid as a subgenus, and also includes *T. kachhensis* Dobson, a race of which is listed by Chasen (page 33) from the Malay States.

<sup>1</sup> Not "1813" as listed in Chasen.



GENERIC SYNONYMY

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FAMILY MEGADERMATIDAE

Genus **MEGADERMA** E. Geoffroy, 1810

1810. *Megaderma* E. Geoffroy, Ann. Mus. H.N. Paris, 15: 190. *Vespertilio spasma* Linnaeus.  
1872. *Lyroderma* Peters, Mber. Preuss. Akad. Wiss. 195. *Megaderma lyra* E. Geoffroy. Valid as a subgenus.

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FAMILY NYCTERIDAE

Genus **NYCTERIS** E. Geoffroy & G. Cuvier, 1795

1795. *Nycteris* E. Geoffroy & G. Cuvier, Mag. Encyclop. 2: 186, *nom. nud.* *Vespertilio hispidus* Schreber, from Senegal, West Africa. Name validated by Opinion 111 of International Commission on Zoological Nomenclature.  
1838. *Petalia* Gray, Mag. Zool. Bot. 2: 494. *Nycteris javanicus* E. Geoffroy.

Tate (1941 (a)) records *Nycteris tragata* from Sumatra. This species (with bifid upper incisors) cannot be regarded as a race of *N. javanica* (which has trifold upper incisors).

FAMILY RHINOLOPHIDAE

Genus **RHINOLOPHUS** Lacépède, 1799

1799. *Rhinolophus* Lacépède, Tabl. Mamm. 15. *Vespertilio ferrumequinum* Schreber, from France.  
1847. *Aquias* Gray, P.Z.S., 15. *Rhinolophus luctus* Temminck (Ellerman, Morrison-Scott & Hayman, 1953).  
1867. *Coelophyllus* Peters, P.Z.S. 1866: 427. *Rhinolophus coelophyllus* Peters.  
1901. *Euryalus* Matschie, S.B. Ges. Naturf. Fr. Berlin, 225. *Rhinolophus mehelyi* Matschie from Rumania.

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*Rhinolophus coelophyllus* dates from 1867 (P.Z.S. 1866: 426).

Genus **HIPPOSIDEROS** Gray, 1831

1831. *Hipposideros* Gray, Zool. Misc. 37. *Vespertilio speoris* Schneider.  
1837. *Phyllorhina* Bonaparte, Faun. Ital. pt. 21: 3. *Rhinolophus diadema* E. Geoffroy.  
1866. *Gloionycteris* Gray, P.Z.S. 82. *Phyllorhina armiger* Hodgson.  
1866. *Speorifera* Gray, P.Z.S. 82. *Hipposideros vulgaris* Blyth = *Rhinolophus larvatus* Horsfield.

HIPPOSIDEROS [*contd.*]

1866. *Chrysonycteris* Gray, P.Z.S. 82. *Hipposideros fulvus* Gray, from Dharwar, India, which is probably a race of *Rhinolophus bicolor* Temminck.  
 1871. *Ptychorhina* Peters, Mber. Preuss. Akad. Wiss. 325. *Rhinolophus caffer* Sundevall, from Natal, South Africa.  
 1871. *Cyclorhina* Peters, Mber. Preuss. Akad. Wiss. 326. *Phyllorhina obscura* Peters, from Luzon, Philippine Islands, here selected.  
 1871. *Thyreorhina* Peters, *loc. cit.* 327. *Phyllorhina coronata* Peters, from Mindanao, Philippine Islands.

On this genus see Tate (1941) (b).

*Hipposideros lylei* (Chasen page 42). We suggest that this is a race of

**Hipposideros pratti** Thomas, 1891,  
 (Ann. Mag. N.H. 7: 527, from Kiatingfu, Szechuan, China).

*Hipposideros diadema* (Chasen page 42). To distribution add Bali (Tate, 1941 (b)).

*Hipposideros gentilis* (Chasen page 45). We have suggested (1951) that the earliest name for this species is

**Hipposideros pomona** K. Andersen, 1918,  
 (Ann. Mag. N.H. 2: 380, from Haleri, northern Coorg, India).

*Hipposideros speoris* Schneider (Chasen page 47). Our latest researches lead us to the conclusion that this name should date from 1797 *vel* 1798.

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(Genus ASELLIA Gray, 1838, Mag. Zool. Bot. 2: 493, *Rhinolophus tridens* E. Geoffroy, from Egypt, is a valid genus but is now considered extralimital to the region covered by Chasen.)

The species he refers to it, *stoliczkana*, is referred by Tate (1941) (a) to his genus *Aselliscus*, which was proposed after the publication of Chasen's handlist. *Asellia* is restricted by Tate to the species *tridens*, which is from South-western Asia and northern Africa.

Genus **ASELLISCUS** Tate, 1941

1941. *Aselliscus* Tate, Amer. Mus. Nov. No. 1140: 2. *Rhinolophus tricuspidatus* Temminck, from Amboina, Moluccas. To include also the species *stoliczkana* Dobson, from Penang, and *trifida* Peters, from Burma.

Genus **COELOPS** Blyth, 1848

1848. *Coelops* Blyth, J. Asiat. Soc. Bengal, 17, 1: 251. *Coelops frithii* Blyth.  
 1911. *Chilophylla* Miller, Proc. U.S. Nat. Mus. 38: 395. *Chilophylla hirsuta* Miller from Mindoro, Philippine Islands.

GENERIC SYNONYMY

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Genus CHILOPHYLLA, retained by Chasen, is a synonym of *Coelops* according to Tate, 1941 (a) and other authors. See under *Coelops*.

FAMILY V E S P E R T I L I O N I D A E

Genus **MYOTIS** Kaup, 1829

1829. *Myotis* Kaup, Skizz. Europ. Thierw. 1: 106. *Vespertilio myotis* Borkhausen, from Germany.
1830. *Leuconoe* Boie, Isis, Jena, 256. *Vespertilio daubentonii* Kuhl, from Germany. Valid as a subgenus.
1841. *Selysius* Bonaparte, Faun. Ital. 1: Introd. 3. *Vespertilio mystacinus* Kuhl, from Germany. Valid as a subgenus.
1841. *Capaccinius* Bonaparte, loc. cit. 1: Indice Distrib. 1. *Vespertilio capaccinii* Bonaparte, from Sicily.
1842. *Trilatitus* Gray, Ann. Mag. N.H. 10: 258. Included *Vespertilio hasseltii* Temminck and *Vespertilio macellus* Temminck.
1856. *Isotus* Kolenati, Allg. Dtsch. Naturh. Ztg. 2: 131. *Vespertilio nattereri* Kuhl, from Germany. Valid as a subgenus.
1867. *Pternopterus* Peters, Mber. Preuss. Akad. Wiss, 706. *Vespertilio* (*Pternopterus*) *lobipes* Peters (= *Vespertilio muricola* Gray? (from Nepal)).
1870. *Exochurus* Fitzinger, S.B. Akad. Wiss. Wien, 62: 75. Based on *macrodactylus* Temminck from Japan, *horsfieldi* Temminck from Java and *macrotarsus* Waterhouse from the Philippine Islands.
1899. *Euvespertilio* Acloque, Faune de France, Mamm. 38. *Vespertilio mystacinus* Kuhl, from Germany, here selected.
1910. *Chrysopteron* Jentink, Notes Leyden Mus. 32: 74. *Kerivoula weberi* Jentink, from Celebes. Valid as a subgenus.
1916. *Rickettia* Bianchi, Annu. Mus. Zool. Acad. St. Petersburg. 21: lxxvii. *Vespertilio* (*Leuconoe*) *ricketti* Thomas, from Fukien, China. Valid as a subgenus.
1916. *Dichromyotis* Bianchi, loc. cit. 21: lxxviii. *Vespertilio formosus* Hodgson, from Nepal.
1916. *Paramyotis* Bianchi, loc. cit. 21: lxxix. *Vespertilio bechsteini* Kuhl, from Germany. Valid as a subgenus (new name for *Nystactes* Kaup, 1829, not of Gloger, 1827).

For revision see Tate, 1941 (c).

Tate's classification of species from the Malaysian region does not agree with that of Chasen. Tate divides the genus into seven subgenera in Europe and Asia. Of the forms listed by Chasen, *horsfieldi*, *carinatae*, *lepidus*, *adversus*, *hasselti* and *abbotti* (which is evidently not a race of *muricola* as listed in Chasen) are referred to the subgenus *Leuconoe*; *muricola*, *niasensis*, *federatus* and more doubtfully *oreias* are referred to the subgenus *Selysius*; and *bartelsi* and *hermani* are referred to the subgenus *Chrysopteron*. The form *macellus*, alluded to by Chasen on page 48, footnote 2, is regarded as a *Leuconoe*, near *hasselti*.

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Genus **PIPISTRELLUS** Kaup, 1829

1829. *Pipistrellus* Kaup, Skizz. Europ. Thierw. 1: 98. *Vespertilio pipistrellus* Schreber, from France.
1838. *Romicia* Gray, Mag. Zool. Bot. 2: 495. *Romicia calcarata* Gray = *Vespertilio kuhli* Kuhl from Trieste (Italian-Yugoslavian border).
1856. *Hypsugo* Kolenati, Allg. Dtsch. Naturh. Ztg. 2: 131. *Vespertilio maurus* Blasius = *Vespertilio savii* Bonaparte, from Italy, here selected.
1856. *Nannugo* Kolenati, loc. cit. *Vespertilio pipistrellus* Schreber, here selected.
1875. *Scotozous* Dobson, P.Z.S. 372. *Scotozous dormeri* Dobson, from Bellary Hills, India. Valid as a subgenus.
1899. *Euvesperugo* Aclouque, Faune de France, Mamm. 35. *Vespertilio pipistrellus* Schreber, here selected.
1902. *Ia* Thomas, Ann. Mag. N.H. 10: 163. *Ia io* Thomas, from Hupeh, China. Valid as a subgenus.
1916. *Megapipistrellus* Bianchi, Annu. Mus. Zool. St. Petersb., 21: lxxvii. *Pipistrellus annectens* Dobson. Valid as a subgenus.
1946. *Vansonnia* Roberts, Ann. Transv. Mus. 20: 304. *Pipistrellus vernayi* Roberts, from Bechuanaland, a race of *Vespertilio rueppelli* Fischer, from the Sudan.

On the status of this genus, which is little more than a subgenus of *Eptesicus* and which is also antedated by the closely related *Nyctalus*, see Ellerman & Morrison-Scott (1951, 162).

For a revision see Tate, 1942 (a).

The classification of Tate does not agree with that of Chasen. Tate thinks that *Vespertilio tratatitius* Horsfield (Chasen page 51) was based on a *Myotis*. It is best regarded as unidentifiable.

Tate's classification of the forms listed in Chasen is as follows:

*Pipistrellus abramus* group<sup>1</sup>: *Pipistrellus bancanus*.

*Pipistrellus coromandra* group: *P. ridleyi*, *P. murrayi*, *P. imbricatus*, *P. subulidens*.

*Pipistrellus tenuis* group: *P. tenuis* (also *P. nitidus* Tomes, 1858, P.Z.S. 538, north-western Borneo, apparently omitted from Chasen).

*Pipistrellus affinis* group: *P. kitcheneri*.

*Pipistrellus savii* group: *P. macrotis*, *P. vordermanni*, *P. curtatus*.

*Pipistrellus circumdatus* group: *P. circumdatus*, *P. mordax*.

*Pipistrellus annectens* group: *P. annectens*.

The species *Pipistrellus brachypterus* was referred to the "*P. joffrei* group" but *joffrei* is currently regarded as belonging to the genus *Nyctalus*.

<sup>1</sup> According to Laurie & Hill, 1954, the prior name for what has hitherto been called *P. abramus* is *Scotophilus javanicus* Gray, 1838 (listed by Chasen in synonymy of "*tratatitius*" on page 51). This species will therefore have to be called **Pipistrellus javanicus** Gray.

GENERIC SYNONYMY

CHASEN, PAGE 51

Genus **GLISCHROPUS** Dobson, 1875

1875. *Glischropus* Dobson, P.Z.S. 472. *Vesperugo tylopus* Dobson.

Genus **TYLONYCTERIS** Peters, 1872

1872. *Tylonycteris* Peters, Mber. Preuss. Akad. Wiss. 703. *Vespertilio pachypus* Temminck.

Tate, 1942 (a) records the species *Tylonycteris pachypus* from both Sumatra and Bali.

CHASEN, PAGE 52

Genus **HESPEROPTENUS** Peters, 1868

1868. *Hesperoptenus* Peters, Mber. Preuss. Akad. Wiss. 626. *Vesperus doriae* Peters.

CHASEN, PAGE 53

*Hesperoptenus tomesi* Thomas dates from the year 1905 (accidentally omitted in Chasen).

Genus **NYCTALUS** Bowdich, 1825

1825. *Nyctalus* Bowdich, Excursions in Madeira & Porto Santo, 36 (and footnote). *Nyctalus verrucosus* Bowdich, from Madeira.

1829. *Pterygistes* Kaup, Skizz. Europ. Thierw. 1: 100. *Vespertilio noctula* Schreber, from France.

1842. *Noctulinia* Gray, Ann. Mag. N.H. 10: 258. *Vespertilio proterus* Kuhl = *Vespertilio noctula* Schreber, here selected.

1856. *Panugo* Kolenati, Allg. Dtsch. Naturh. Ztg. 2: 131. *Vespertilio noctula* Schreber, here selected.

Tate, 1942 (a): (251–253) transferred the Malayan species *stenopterus* to *Pipistrellus*, but we propose to follow Miller for reasons we gave in 1951 (page 159) and retain it, and the species *joffrei* (Thomas, 1915, from Burma), in the present genus.

Genus **EPTESICUS** Rafinesque, 1820

1820. *Eptesicus* Rafinesque, Annals of Nature, 2. *Eptesicus melanops* Rafinesque = *Vespertilio fuscus* Beauvois, from North America.

1829. *Cnephaeus* Kaup, Skizz. Europ. Thierw. 1: 103. *Vespertilio serotinus* Schreber, from France.

1858. *Amblyotus* Kolenati, S.B. Akad. Wiss. Wien, 29: 252. *Amblyotus atratus* Kolenati = *Vespertilio nilssonii* Keyserling & Blasius, from Sweden.

## EPTESICUS [contd.]

1866. *Pachyomus* Gray, Ann. Mag. N.H. 17: 90. *Scotophilus pachyomus* Tomes, the Rajputana race of *Vespertilio serotinus* Schreber.  
 1916. *Parptesicus* Bianchi, Annu. Mus. Zool. Acad. St. Petersb. 21: lxxvi. *Vesperugo pachyotis* Dobson, from Assam.  
 1916. *Rhynptesicus* Bianchi, loc. cit. *Vesperugo nasutus* Dobson, from Sind, India.

## CHASEN, PAGE 54

Genus **SCOTOPHILUS** Leach, 1821

1821. *Scotophilus* Leach, Trans. Linn. Soc. London, 13: 69, 71. *Scotophilus kuhlii* Leach.  
 1831. *Pachyotus* Gray, Zool. Misc. No. 1, 38. *Scotophilus kuhlii* Leach.  
 (1942. *Parascotomanes* Bourret, C.R. Conseil Rech. Sci. Indochine, 1942, 2: 23. *Scotomanes* (*Parascotomanes*) *beaulieui* Bourret, from Indo-China.)

Tate, 1942 (a) in a review of the Indo-Malayan forms of this genus, is unable to identify *S. kuhli* Leach specifically, and uses the name

**Scotophilus heathi** Horsfield

(1831. *Nycticejus heathii* Horsfield, P.Z.S. 113, Madras, India) for the larger of the two Oriental species.

## CHASEN, PAGE 55

Genus **MURINA** Gray, 1842

1842. *Murina* Gray, Ann. Mag. N.H. 10: 258. *Vespertilio suillus* Temminck.  
 1915. *Harpiola* Thomas, Ann. Mag. N.H. 16: 309. *Murina grisea* Peters, from Kumaon, India. Valid as a subgenus.

On this genus see Tate, 1941 (d).

Genus **HARPIOCEPHALUS** Gray, 1842

1842. *Harpiocephalus* Gray, Ann. Mag. N.H. 10: 259. *Harpiocephalus rufus* Gray = *Vespertilio harpia* Temminck.

Genus **KERIVOULA** Gray, 1842

1842. *Kerivoula* Gray, Ann. Mag. N.H. 10: 258. *Vespertilio pictus* Pallas (Peters, 1866).  
 1905. *Phoniscus* Miller, Proc. Biol. Soc. Washington, 18: 229. *Phoniscus atrox* Miller. Valid as a subgenus.

## CHASEN, PAGE 57

Genus **PHONISCUS** Miller, 1905: see above under *Kerivoula*. Following Simpson (1945, 60) and Tate (1941 (d), 586) we believe that *Phoniscus* is not more than a subgenus of *Kerivoula*.

## GENERIC SYNONYMY

Tate, *loc. cit.* gives the type locality of *Kerivoula (Phoniscus) javana* as Kosala, near Bantam, Java, and quotes specimens from Borneo.

Genus **MINIOPTERUS** Bonaparte, 1837

1837. *Miniopterus* Bonaparte, Fauna Ital. 1: fasc. 20, under *Vespertilio emarginatus*. *Vespertilio ursinii* Bonaparte = *Vespertilio schreibersii* Kuhl.

According to Tate's (1941 (d)) review of the species, the status of the half-dozen forms listed by Chasen is probably as follows; *fuliginosus* is a race of

**Miniopterus schreibersi** Kuhl, 1819

(1819, *Vespertilio schreibersii* Kuhl, Ann. Wetterau Ges. Naturk, 4, 2: 185, Kulmbazer Cave, mountains of southern Banat, Hungary);

*blepotis* is also a race of *M. schreibersi*; *ravus* is a synonym of *blepotis*; *medius* is a synonym of *blepotis*; *tibialis* is a synonym of

**Miniopterus australis** Tomes, 1858

(1858, P.Z.S., 125, Loyalty Islands, Southern Pacific), and *witkampii* is a synonym of *Miniopterus australis pusillus* (*Miniopterus pusillus* Dobson, 1876, Monogr. Asiat. Chiroptera, 162, Madras, India (*vide* Tate).)

Laurie & Hill (1954:72) separate *Miniopterus australis* from eastern Java as *M.a. minor*.

The reference to *Miniopterus medius*, accidentally omitted from Chasen, is *Miniopterus medius* Thomas & Wroughton, 1909, P.Z.S., 382, Kaliptjang, western Java.

CHASEN, PAGE 58

## FAMILY M O L O S S I D A E

Chasen lists five genera in this family, of which certainly *Cheiromeles* and probably *Otomops* are valid. But we believe, following Simpson, that the other three are not more than subgenera of *Tadarida* Rafinesque, 1814. Restricted *Tadarida* (which antedates *Nyctinomus*) of Miller and earlier authors does not occur in the region covered by Chasen.

Genus **TADARIDA** Rafinesque, 1814

1814. *Tadarida* Rafinesque, Précis Som. 55. *Cephalotes teniotis* Rafinesque, from Sicily.

1818. *Nyctinomus* E. Geoffroy, Description de l'Égypte, 2: 114. *Nyctinomus aegyptiacus* E. Geoffroy, from Egypt.

1842. *Mops* Lesson, Nouv. Tabl. Règne Anim. 18. *Mops indicus* Lesson = *Molossus mops* Blainville. Valid as a subgenus.

TADARIDA [contd.]

1865. *Mormopterus* Peters, Mber. Preuss. Akad. Wiss. 258. *Nyctinomus jugularis* Peters, from Madagascar = *Vespertilio acetabulosus* Hermann, from Mauritius. Valid as a subgenus.  
 1874. *Chaerephon* Dobson, J. Asiat. Soc. Bengal, 43, 2: 144. *Molossus* (*Nyctinomus*) *johorensis* Dobson. Valid as a subgenus.  
 1934. *Philippinopterus* Taylor, Philippine Land Mamm. 314. *Philippinopterus lauci* Taylor, from the Philippine Islands.

Genus CHAEREPHON Dobson, 1874: see above under the genus *Tadarida*, of which we believe it to be a subgenus.

CHASEN, PAGE 59

Genus **OTOMOPS** Thomas, 1913

1913. *Otomops* Thomas, J. Bombay N.H. Soc. 22: 91. *Nyctinomus wroughtoni* Thomas, from Kanara, India.

Genus MOPS Lesson, 1842: see above under the genus *Tadarida*, of which we believe it to be a subgenus.

Genus MORMOPTERUS Peters, 1865: see above under the genus *Tadarida*, of which we believe it to be a subgenus.

CHASEN, PAGE 60

Genus **CHEIROMELES** Horsfield, 1824

1824. *Cheiromeles* Horsfield, Zool. Res. Java, (8). *Cheiromeles torquatus* Horsfield.  
 1841. *Chiropetes* Gloger, Gemeinn. Hand-u. Hilfsbuch der Naturg. 1: 49. Emendation of *Cheiromeles*.  
 1846. *Cheiromeles* Agassiz, Nomencl. Zool. Mamm. Addenda, 3. Emendation of *Cheiromeles*.

The species *Cheiromeles torquatus* dates from 1824 (the year is accidentally omitted from Chasen's reference).

ORDER PRIMATES

FAMILY PONGIDAE

( = Simiidae of Chasen).

Genus "**SIMIA** Auct., nec Linn."

*Simia* Linnaeus, 1758, Syst. Nat. 10th ed. 1: 25.

Suppressed: see Opinion 114 of the International Commission on Zoological Nomenclature.

No useful purpose will be served by ignoring the Opinions of the International Commission, and as Chasen himself states (page 61), the correct name for the Orang-utan is *Pongo pygmaeus* Linnaeus.



GENERIC SYNONYMY

Genus **PONGO** Lacépède, 1799

1799. *Pongo* Lacépède, Tabl. Mamm. 4. *Pongo borneo* Lacépède (*loc. cit.*).  
= *Simia pygmaeus* Linnaeus.

The specific reference to *Simia pygmaeus* Linnaeus, 1760, is in Chasen, page 60.

CHASEN, PAGE 63

(FAMILY H Y L O B A T I D A E: Often and perhaps better considered as a subfamily of the family Pongidae)

Genus **HYLOBATES** Illiger, 1811

1811. *Hylobates* Illiger, Prodr. Syst. Mamm. 67. *Homo lar* Linnaeus.  
1841. *Symphalangus* Gloger, Gemeinn. Naturg. 1: 34. *Symphalangus syndactylus* Gloger = *Simia syndactylus* Raffles. Valid as a subgenus.  
1932. *Brachitanytes* Schultze, J. Mamm. 13: 369. *Symphalangus klossii* Miller.  
1933. *Nomascus* Miller, J. Mamm. 14: 159. *Hylobates leucogenys* Ogilby, from Siam, a race of *Simia concolor* Harlan, from Hainan or Tonkin. Valid as a subgenus.

CHASEN, PAGE 65

FAMILY C E R C O P I T H E C I D A E

Genus **MACACA** Lacépède, 1799

1758. *Simia* Linnaeus, Syst. Nat. 10th ed. 1: 25. *Simia sylvanus* Linnaeus.  
By suspension of the Rules the name *Simia* is suppressed, see Opinion 114 of the Internat. Comm. on Zool. Nomenclature.  
1799. *Macaca* Lacépède, Tabl. Mamm. 4. *Macaca inuus* = *Simia sylvanus* Linnaeus, from the Barbary Coast, northern Africa.  
1820. *Silenus* Goldfuss, Handbuch Zool. 2: 479. *Cynocephalus silenus* Schreber = *Simia silenus* Linnaeus (from southern India).  
1827. *Magus* Lesson, Man. Mamm. 43. *Magus sylvanus* = *Simia sylvanus* Linnaeus, here selected.  
1840. *Rhesus* Lesson, (Rev. Zool. 2: 70, *nom. nud.*). 1840. Spec. Mamm. 95. *Cercopithecus mulatta* Zimmermann, from India.  
1848. *Lyssodes* Gistel, Naturgesch. Thier. f. höhere Schulen, 9. *Macaca speciosus* F. Cuvier.  
1862. *Cynamolgus* Reichenbach, Vollständ. Nat. Affen, 130. *Macacus irus* F. Cuvier (*fide* Pocock).  
1862. *Žati* Reichenbach, *loc. cit.* *Macaca radiata* E. Geoffroy (from Peninsular India).  
1913. *Pithecus* Elliot, Rev. Primates, 2: 176. Not of Cuvier & Geoffroy.

If subgeneric division is required in this genus, then *Silenus*, *Rhesus*, *Lyssodes*, *Cynamolgus* and *Žati* are all available as subgeneric names.

CHASEN, PAGE 70

FAMILY COLOBIDAE: Often and probably better considered as a subfamily of family Cercopithecidae

Genus **"PITHECUS"** E. Geoffroy & G. Cuvier, 1795

1795. *Pithecus* Geoffroy & Cuvier, Mag. Encycl. 3: 462. Based on the unidentifiable *Simia veter* Linnaeus.

Suppressed; see Opinion 114 of the International Commission on Zoological Nomenclature.

No useful purpose will be served by ignoring the Opinions of the International Commission on Zoological Nomenclature.

If all Leaf Monkeys are considered as congeneric then the earliest available name is *Pygathrix* E. Geoffroy, 1812<sup>1</sup> but in 1951 we followed Thomas, Simpson and Osgood, who restricted *Pygathrix* to its type species, and referred the remaining species to the genus *Presbytis* Eschscholtz, 1821.

Genus **PRESBYTIS** Eschscholtz, 1821

1821. *Presbytis* Eschscholtz, in Kotzebue Reise, 3: 196, pl. *Presbytis mitratus* Eschscholtz = *Simia aygula* Linnaeus.

1822. *Semnopithecus* Desmarest, Mamm. 2: 532. *Simia entellus* Dufresne, from Bengal.

1862. *Trachypithecus* Reichenbach, Vollständ. Nat. Affen, 89. *Semnopithecus pyrrhus* Horsfield, a race of *Simia cristatus* Raffles.

1862. *Kasi* Reichenbach, loc. cit. 101. *Cercopithecus johnii* Fischer, from southern India.

1879. *Corypithecus* Trouessart, Rev. Mag. Zool. (3), 7: 53. *Semnopithecus frontatus* Müller.

1879. *Lophopithecus* Trouessart, loc. cit. *Semnopithecus rubicundus* Müller.

1879. *Presbypithecus* Trouessart, loc. cit. 56. Substitute for *Presbytis* Reichenbach, 1862 (based on *Cercopithecus kephalopterus* Zimmermann = *Cercopithecus vetulus* Erxleben, a race of *Cercopithecus senex* Erxleben, and from Ceylon). Not of Eschscholtz, 1821.

**Presbytis melalophos** Raffles, 1821.

As we have already pointed out (1951), Chasen should have called his "*Pithecus femoralis*" by the specific name *melalophos*; this form, listed erroneously by Chasen as a race of *femoralis* on page 76, antedates *femoralis* by 17 years.

CHASEN, PAGE 77

*Presbytis aygula* dates from 1758, not "1858" as in Chasen.

<sup>1</sup> *Pygathrix* E. Geoffroy, 1812, Ann. Mus. H.N. Paris, 19: 90. *Simia nemaus* Linnaeus, from Cochin-China.

## GENERIC SYNONYMY

CHASEN, PAGE 81

**Presbytis cristatus** Raffles, 1821.

Chasen should have called his "*Pithecus pyrrhus*" by the specific name *cristatus*; this form, listed erroneously by Chasen, on page 83, as a race of *pyrrhus* antedates *pyrrhus* by two years.

CHASEN, PAGE 83

Genus **NASALIS** E. Geoffroy, 1812

1812. *Nasalis* E. Geoffroy, Ann. Mus. H.N. Paris, 19: 90. *Nasalis larvatus* Geoffroy = *Cercopithecus* (*sic*) *larvatus* van Wurm.

CHASEN, PAGE 85

Genus **SIMIAS** Miller, 1903

The genera (or subgenera) *Simias*, *Rhinopithecus* and *Presbytiscus* seem very closely allied, and it appears unnecessary to have three genera for three snubnosed Monkeys.

Genus **RHINOPITHECUS** Milne-Edwards, 1872

1872. *Rhinopithecus* Milne-Edwards, Rech. H.N. Mamm. 233. *Semnopithecus roxellana* Milne-Edwards, from Szechuan, China.

1903. *Simias* Miller, Smiths. Misc. Coll. 45: 66. *Simias concolor* Miller. Valid as a subgenus.

1924. *Presbytiscus* Pocock, Abstr. P.Z.S. 17. *Rhinopithecus avunculus* Dollman, from Tonkin, Indo-China. Valid as a subgenus.

CHASEN, PAGE 86

## FAMILY TARSIIDAE

Genus **TARSIUS** Storr, 1780

1780. *Tarsius* Storr, Prodr. Meth. Mamm. 32. "*Lemur tarsius*" Erxleben (Erxleben actually wrote *Lemur tarsier*) = *Simia syrichta* Linnaeus.

If one follows the classification of Chasen, then the prior specific name is

**Tarsius syrichta** Linnaeus, 1758

(1758. *Simia syrichta* Linnaeus, Syst. Nat. 10th ed. 1: 29, Luzon, Philippine Islands.)

On this name see Cabrera, 1923, J. Mammal, 4: 89.

Osman Hill (1953) thinks the Malaysian Tarsiers should be regarded as races of *Tarsius bancanus* Horsfield (Chasen, page 86).

CHASEN, PAGE 88

## FAMILY LORISIDAE

Genus **NYCTICEBUS** E. Geoffroy, 1812

1812. *Nycticebus* E. Geoffroy, Ann. Mus. H.N. Paris, 19: 163. *Nycticebus bengalensis* Geoffroy = *Loris bengalensis* Fischer, the Bengal race of *Tardigradus coucang* Boddaert.

CHASEN, PAGE 89

## ORDER CARNIVORA

## FAMILY URSIDAE

Genus **HELARCTOS** Horsfield, 1825

1825. *Helarctos* Horsfield, J. Zool. 2: 221, 233. *Ursus malayanus* Raffles.

Chasen dated *Helarctos malayanus* from the year 1821 which is correct. Our dating of it from "1822" (1951, 241) was wrong.

CHASEN, PAGE 90

## FAMILY MUSTELIDAE

Genus **MARTES** Pinel, 1792

1792. *Martes* Pinel, Actes Soc. d'H.N. Paris, 1: 55. *Martes domestica* Pinel = *Mustela foina* Erxleben, from Germany.
1829. *Zibellina* Kaup, Skizz. Europ. Thierw. 1: 31, 34. *Mustela zibellina* Linnaeus, from Siberia.
1865. *Charronia* Gray, P.Z.S. 108. *Mustela flavigula* Boddaert. Valid as a subgenus.
1928. *Lamprogale* Ognev, Mém. Soc. Amis. Sci. Nat. Mosc. No. 2, Zool. 26, 30. Proposed to replace *Charronia* on the grounds that it is preoccupied by an earlier name *Charonia* Gistel, 1848, for a genus of mollusc.

Genus **MUSTELA** Linnaeus, 1758

1758. *Mustela* Linnaeus, Syst. Nat. 10th ed. 1: 45. *Mustela erminea* Linnaeus, from Sweden.
1817. *Putorius* G. Cuvier, Règne Anim. 1: 147. *Mustela putorius* Linnaeus, from Sweden. Valid as a subgenus.
1841. *Gale* Wagner, Schreb. Säugth. Suppl. 2: 234. *Mustela vulgaris* Erxleben = *Mustela nivalis* Linnaeus, from Sweden.
1841. *Lutreola* Wagner, Schreb. Säugth. Suppl. 2: 239. *Viverra lutreola* Linnaeus, from Finland.

GENERIC SYNONYMY

MUSTELA [contd.]

1899. *Eumustela* Aclouque, Faune de France, Mamm. 62. *Mustela erminea* Linnaeus, here selected.
1911. *Kolonokus* Satunin, Mitt. Kauk. Mus. 5: 264. *Mustela sibirica* Pallas, from the western Altai, Siberia.
1921. *Plesiogale* Pocock, P.Z.S. 805. *Mustela nudipes* Cuvier. Not of Pomel, 1853.
1947. *Pocockictis* Kretzoi, Ann. H.N. Mus. Hung. 40: 285. Proposed to replace *Plesiogale* Pocock, preoccupied. *Mustela nudipes* F. Cuvier.

It is possible that *Mustela lutreolina*, which is listed by Chasen on page 90, is an outlying race of

**Mustela sibirica** Pallas, 1773

(1773. Reise Russ. Reichs, 2, appendix: 701. Vorposten Tigerazkoi, near Ust-Kamenogorsk, western Altai, Siberia.)

CHASEN, PAGE 91

Genus **HELICTIS** Gray, August, 1831 is antedated by *Melogale* I. Geoffroy, March, 1831, and we think that these two are congeneric.

Genus **MELOGALE** I. Geoffroy, 1831

1831. *Melogale* I. Geoffroy, Bélanger, Voy. Zool. Indes Orient. 129, (19 March). *Melogale personata* I. Geoffroy, from near Rangoon, Burma.
1831. *Helictis* Gray, P.Z.S. 94 (5th August). *Helictis moschata* Gray, from Kwantung, China. Valid as a subgenus.
1922. *Nesictis* Thomas, Ann. Mag. N.H. 9: 194. *Helictis everetti* Thomas, the Bornean race of *Gulo orientalis* Horsfield.

Genus **ARCTONYX** F. Cuvier, 1825

1825. *Arctonyx* F. Cuvier, in Geoffroy & Cuvier, H.N. Mamm. 3, pt. 51, pl. and text. *Arctonyx collaris* F. Cuvier.
1891. *Trichomanis* Hubrecht, Notes Leyd. Mus. 13: 241. *Trichomanis hoevenii* Hubrecht, the Sumatran race of *Arctonyx collaris* F. Cuvier.

CHASEN, PAGE 92

Genus **MYDAUS** F. Cuvier, 1821

1821. *Mydaus* F. Cuvier, in Geoffroy & Cuvier, H.N. Mamm. 2: Telagon, 2. *Mydaus meliceps* F. Cuvier = *Mephitis javanensis* Leschenault.
1939. *Suillotaxus* Lawrence, Bull. Mus. Comp. Zool. Harv. 86: 63. *Mydaus marchei* Huet, from Palawan, Philippine Islands. Valid as a subgenus.

CHASEN'S MALAYSIAN MAMMALS

Genus **LUTRA** Brisson, 1762

1762. *Lutra* Brisson, Regn. Anim. 13. *Mustela lutra* Linnaeus, from Sweden.  
1771. *Lutra* Brännich, Zool. Fundamenta, 34, 42. *Mustela lutra* Linnaeus.  
1865. *Barangia* Gray, P.Z.S. 123. *Lutra sumatrana* Gray.  
1865. *Lutrogale* Gray, P.Z.S. 127. "The species identified by Gray as *monticola* Hodgson, which is *perspicillata* I. Geoffroy, not *monticola* Hodgson." Valid as a subgenus.  
1867. *Lutronectes* Gray, P.Z.S. 180. *Lutronectes whiteleyi* Gray = *Mustela lutra* Linnaeus.

Chasen, page 92, footnote 2; "for the genus splitter *Micraonyx* Allen, 1919 is available for *L. cinerea*". Even at the risk of coming in the category of "genus splitters" we believe that the short-clawed otters should be generically separated, and Chasen's statement is not quite correct; *Micraonyx* is the third available name for the short-clawed otters.

Genus **AONYX** Lesson, 1827. (Not recognized by Chasen)

1827. *Aonyx* Lesson, Man. Mamm. 157. *Aonyx delalandi* Lesson = *Lutra capensis* Schinz, from South Africa.  
1832. *Amblonyx* Rafinesque, Atlantic J. 1: 62. *Amblonyx concolor* Rafinesque, the Assam race of *Lutra cinerea* Illiger. Valid as a subgenus.  
1920. *Micraonyx* J. Allen, J. Mamm. 1: 24. *Lutra cinerea* Illiger. (= *Amblonyx*).

CHASEN, PAGE 93

FAMILY CANIDAE

Genus **CUON** Hodgson, 1838

1838. *Cuon* Hodgson, Ann. Mag. N.H. 1: 152. *Canis primaevus* Hodgson, the Nepal race of *Canis alpinus* Pallas.  
1839. *Chrysaeus* H. Smith, Jardine's Nat. Libr. Mamm. 25: 167. *Canis dukhunensis* Sykes, the Deccan race of *Canis alpinus* Pallas.  
1888. *Anurocyon* Heude, Mém. H.N. Emp. Chin. 2: 102. *Anurocyon clamitans* Heude = *Canis lepturus* Heude, the southern Chinese race of *Canis alpinus* Pallas.

Chasen called the Malay Wild Dog *Cuon javanicus* Desmarest, 1820, but the earliest name for this species is

**Cuon alpinus** Pallas, 1811,

1811. *Canis alpinus* Pallas, Zoogr. Ross. Asiat. 1: 34, near Udskoi Ostrog, Amurland.

CHASEN, PAGE 94

FAMILY V I V E R R I D A E

Genus **PRIONODON** Horsfield, 1822

1822. *Prionodon* Horsfield, Zool. Res. Java, pt. 5. *Felis gracilis* Horsfield, the Javan race of *Viverra? linsang* Hardwicke  
 1839 *Linsang* Müller, Verh. Nat. Ges. Nederl., 1, Taf. (3): 28. *Felis gracilis* Horsfield.  
 1925. *Pardictis* Thomas, P.Z.S. 498. *Prionodon pardicolor* Hodgson, from Nepal. Valid as a subgenus.

Genus **VIVERRA** Linnaeus, 1758

1758. *Viverra* Linnaeus, Syst. Nat. 10th ed. 1: 43. *Viverra zibetha* Linnaeus.  
 1933. *Moschothera* Pocock, J. Bombay N.H. Soc. 36: 441. *Viverra civettina* Blyth, the Travancore race of *Viverra megaspila* Blyth. Valid as a subgenus.

CHASEN, PAGE 95

Genus **VIVERRICULA** Hodgson, 1838

1838. *Viverricula* Hodgson, Ann. Mag. N.H. 1: 152. *Civetta indica* Geoffroy = *Viverra indica* Desmarest.

Chasen, 1935, *J. Siam. Soc. N.H. Suppl.* 10: 41 thought that the specific name *malaccensis* should be retained for this genus, but Pocock, 1933, *J. Bombay N.H. Soc.* 36: 629 regarded this name as not valid for this species, and as an alternative proposed to use *indica* Geoffroy, 1803, *Cat. Mamm.* 113, which is not available since Geoffroy's work was never published. Desmarest should be regarded as the author of *indica* (1817, *Viverra indica* Desmarest, *Nouv. Dict. H.N.* 7: 170, India). If one follows the classification of Pocock, then *atchinensis* Sody, 1931 becomes available, apparently, for the form called *Viverricula malaccensis malaccensis* by Chasen.

Genus **PARADOXURUS** F. Cuvier, 1821

1821. *Paradoxurus* F. Cuvier in Geoffroy & Cuvier, *Hist. Nat. Mamm.* 2, 24: Martre des Palmiers, 5. *Paradoxurus typus* F. Cuvier = *Viverra hermaphrodita* Pallas.  
 1864. *Bondar* Gray, P.Z.S. 531. *Viverra bondar* Desmarest, the Bengal race of *Viverra hermaphrodita* Pallas.  
 1864. *Macrodon* Gray, P.Z.S. 536. *Paradoxurus macrodon* Gray = *Viverra musanga javanica* Horsfield, the Javan race of *Viverra hermaphrodita* Pallas.

## CHASEN, PAGE 98

Genus **PAGUMA** Gray, 1831

1831. *Paguma* Gray, P.Z.S. 1830-31: 95. *Gulo larvatus* Hamilton-Smith.  
 1837. *Ambliodon* Jourdan, C.R. Acad. Sci. Paris, 5: 445. *Paradoxurus*  
*jourdanii* Gray, the Malaccan race of *Gulo larvatus* H. Smith.

## CHASEN, PAGE 99

Genus **ARCTICTIS** Temminck, 1824

1824. *Arctictis* Temminck, Mon. Mamm. 1: xxi. *Viverra binturong*  
 Raffles.  
 1824. *Ictides* F. Cuvier, Dents Mamm. 252. *Viverra binturong* Raffles.

## CHASEN, PAGE 100

Genus **ARCTOGALIDIA** Merriam, 1897

1897. *Arctogalidia* Merriam, Science, 5: 302. *Paradoxurus trivirgatus*  
 Gray. (Proposed to replace *Arctogale* Gray, 1864, with same  
 type, but not of Kaup, 1829.)

## CHASEN, PAGE 101

Genus **HEMIGALUS** Jourdan, 1837

1837. *Hemigalus* Jourdan, C.R. Acad. Sci. Paris, 5: 442. *Hemigalus*  
*zebra* Gray = *Viverra hardwickii* Gray (not of Lesson) = *Para-*  
*doxurus derbyanus* Gray.  
 1837. *Hemigalea* Blainville, C.R. Acad. Sci. Paris, 5: 595 (emendation).  
 1865. *Hemigale* Gray, P.Z.S. 1864: 542 (emendation).  
 1912. *Diplogale* Thomas, Abstr. P.Z.S. 18. *Hemigale hosei* Thomas. Valid  
 as a subgenus.

## CHASEN, PAGE 102

Genus **CYNOGALE** Gray, 1837

1837. *Cynogale* Gray, P.Z.S. 1836: 88. Mag. N.H. 1, 1837: 579.  
*Cynogale bennettii* Gray.  
 1837. *Lamictis* Blainville, C.R. Acad. Sci. Paris, 5: 596. *Viverra car-*  
*charias* Blainville.)  
 1838. *Potamophilus* Müller, Tijdschr. Nat. Gesch. Phys. 5: 140. *Potamo-*  
*philus barbatus* Müller = *Cynogale bennettii* Gray.

Genus **HERPESTES** Illiger, 1811

1811. *Herpestes* Illiger, Prodr. Syst. Mamm. et Avium, 135, misprint,  
 corrected to *Herpestes*, 302. *Viverra ichneumon* Gmelin (= *Viverra ichneumon* Linnaeus), from Egypt.  
 1822. *Mangusta* Horsfield, Zool. Res. Java, unpagged, pt. 5. *Ichneumon*  
*javanicus* E. Geoffroy.



GENERIC SYNONYMY

HERPESTES [*contd.*]

1837. *Urva* Hodgson, J. Asiat. Soc. Bengal, 6: 561. *Gulo urva* Hodgson.  
 1865. *Calogale* Gray, P.Z.S. 1864: 560. *Herpestes nepalensis* Gray =  
*Mangusta aurofunicata* Hodgson.  
 1865. *Calictis* Gray, P.Z.S. 1864: 564. *Herpestes smithii* Gray, from India.  
 1865. *Taeniogale* Gray, P.Z.S. 1864: 569. *Herpestes vitticollis* Bennett,  
 from Travancore, India.  
 1865. *Onychogale* Gray, P.Z.S. 1864: 570. *Cynictis maccarthiae* Gray, one  
 of the Ceylon races of *Herpestes fusca* Waterhouse, from southern  
 India.

The species *Herpestes edwardsi* and *H. javanicus* both date from 1818, not "1812" as listed by Chasen on page 103.

CHASEN, PAGE 104

FAMILY FELIDAE

Chasen refers all cats from his region to the genus *Felis*. In 1951 we followed Pocock, Simpson and other authors in according generic rank to *Panthera* for the tiger, leopard, etc., and we followed Pocock in giving generic rank to the clouded leopard, *Neofelis*.

Genus **FELIS** Linnaeus, 1758

1758. *Felis* Linnaeus, Syst. Nat. 10th ed. 1: 41. *Felis catus* Linnaeus, the domestic cat.  
 1792. *Lynx* Kerr, Anim. Kingd. Cat. Mamm. Nos. 288–299. *Felis lynx* Linnaeus, from Sweden. Valid as a subgenus.  
 1829. *Pardina* Kaup, Skizz. Europ. Thierw. 1: 53, 57. *Felis pardina* Temminck, the Portuguese race of *Felis lynx* Linnaeus.  
 1841. *Otocolobus* Brandt, Bull. Acad. Sci. St. Petersburg. 9: 38. *Felis manul* Pallas, from the Jida River, south of Lake Baikal, Siberia. Valid as a subgenus.  
 1843. *Chaus* Gray, List. Mamm. B.M. 44. *Felis chaus* Gldenstaedt, from the Terek River, north of the Caucasus, Russia.  
 1843. *Caracal* Gray, List. Mamm. B.M. 46. *Caracal melanotis* Gray = *Felis caracal* Schreber, from near Cape Town, South Africa. Valid as a subgenus.  
 1858. *Profelis* Severtzov, Rev. Mag. Zool. 10: 386. *Felis celidogaster* Severtzov = *Felis aurata* Temminck (from West Africa). Valid as a subgenus to include also the Oriental species *Felis temmincki* Vigors & Horsfield.  
 1858. *Prionailurus* Severtzov, loc. cit. 387. *Felis pardochrous* Hodgson = *Leopardus horsfieldii* Gray, the Bhutan race of *Felis bengalensis* Kerr. Valid as a subgenus.  
 1858. *Zibethailurus* Severtzov, loc. cit. 387. *Felis viverrinus* Bennett.  
 1858. *Catopuma* Severtzov, loc. cit. 387. *Felis moormensis* Hodgson = *Felis temminckii* Vigors & Horsfield.  
 1858. *Pardofelis* Severtzov, loc. cit. 387. *Felis marmorata* Martin. Valid as a subgenus.

CHASEN'S MALAYSIAN MAMMALS

FELIS [contd.]

1858. *Ictailurus* Severtzov, *loc. cit.* 387. *Felis planiceps* Vigors & Horsfield. Valid as a subgenus.
1905. *Trichaelurus* Satunin, Ann. Mus. Zool. St. Petersb. 9: 495. Proposed as a substitute for *Otocolobus*, thought to be pre-occupied. See Pocock, 1939 (315).
1925. *Poliailurus* Lönnberg, Arkiv. Zool. Stockholm, 18A, 2: 2. *Felis pallida* Buechner = *Felis bieti* Milne-Edwards, from Szechuan, China.
1926. *Eremaclurus* Ognev, Ann. Mus. Zool. Leningrad, 27: 356. *Eremaclurus thinobius* Ognev, the Transcaspian race of *Felis margarita* Loche, from Algeria.
1932. *Badiofelis* Pocock, P.Z.S. 749. *Felis badia* Gray. Valid as a subgenus.

Genus **NEOFELIS** Gray, 1867. (Not recognized by Chasen)

1867. *Neofelis* Gray, P.Z.S. 265. *Felis macroclis* Temminck = *Felis diardi* G. Cuvier, the Sumatran race of *Felis nebulosa* Griffith.

Genus **PANTHERA** Oken, 1816. (Not recognized by Chasen)

1816. *Panthera* Oken, Lehrb. Nat. 3, 2: 1052. *Felis pardus* Linnaeus.
1816. *Tigris* Oken, *loc. cit.* 1066. *Felistigris* Linnaeus. Valid as a subgenus.
1816. *Leo* Oken, *loc. cit.* 1070. *Felis leo* Linnaeus, from Algeria. Valid as a subgenus.
1829. *Leo* Brehm, Isis (Oken), 637. *Leo asiaticus* Brehm = *Felis leo persicus* Meyer, the Persian race of *Felis leo* Linnaeus (type designated by Swynnerton & Hayman, 1951, J.E. Afr. N.H. Soc. 20: 335).
1843. *Tigris* Gray, List. Mamm. B.M. 40. *Felis tigris* Linnaeus.
1854. *Uncia* Gray, Ann. Mag. N.H. 14: 394. *Felis uncia* Schreber (from Central Asia). Valid as a subgenus.
1868. *Pardus* Fitzinger, S.B. Akad. Wiss. Wien, 58, 1: 459. *Felis pardus* Linnaeus.

On nomenclature of this genus see Ellerman & Morrison-Scott, (1951, 3 and 315).

CHASEN, PAGE 106

Chasen dates *Felis planiceps* Vigors & Horsfield from 1828; the correct date appears to be 1827.

CHASEN, PAGE 107

The reference to *Felis marmorata* should read 1837. *Felis marmorata* Martin, P.Z.S. 1836: 108.

CHASEN, PAGE 108

ORDER CETACEA

FAMILY BALAENIDAE<sup>1</sup>

Genus **BALAENOPTERA** Lacépède, 1804

1804. *Balaenoptera* Lacépède, H.N. des Cétacés, xxxvi and 114. *Balaena rostrata* Fabricius = *Balaenoptera acutorostrata* Lacépède, from France.
1849. *Pterobalaena* Eschricht, K. Danske Vidensk. Selsk. Skr. 1: 108. *Balaena physalus* Linnaeus.
1864. *Sibbaldus* Gray, P.Z.S. 222. *Sibbaldus borealis* Gray (not of Lesson) = *Balaena musculus* Linnaeus.
1866. *Rudolphius* Gray, Cat. Seals & Whales B.M. 170. *Sibbaldius laticeps* Gray = *Balaenoptera borealis* Lesson.

CHASEN, PAGE 109

FAMILY PHYSETERIDAE<sup>2</sup>

Genus **PHYSETER** Linnaeus, 1758

1758. *Physeter* Linnaeus, Syst. Nat. 10th ed. 1: 76. *Physeter catodon* Linnaeus.

Genus **ZIPHIUS** G. Cuvier, 1823

1823. *Ziphius* G. Cuvier, Rech. Oss. Foss. 5, 1: 350. *Ziphius cavirostris* G. Cuvier.

FAMILY DELPHINIDAE<sup>3</sup>

Genus **ORCINUS** Fitzinger, 1860

1860. *Orcinus* Fitzinger, Wiss. Naturg. Säugeth. 6: 204. *Delphinus orca* Linnaeus. Proposed as a substitute for *Orca* Gray, 1846, not of Wagler, 1830.

On the nomenclature of this genus see Ellerman & Morrison Scott (1951, 739).

Genus **ORCAELLA** Gray, 1866

1866. *Orcaella* Gray, Cat. Seals & Whales B.M., 285. *Phoceana (Orca) brevirostris* Owen.

<sup>1</sup> It is more usual to refer *Balaenoptera* to the family Balaenopteridae.

<sup>2</sup> It is more usual to refer the genus *Ziphius* to the family Ziphiidae.

<sup>3</sup> The genus "*Meomeris*" listed by Chasen = *Neomeris* Gray, 1846, and is sometimes referred to a distinct family Phocaenidae.

CHASEN'S MALAYSIAN MAMMALS

Genus **NEOMERIS** Gray, 1846

1846. *Neomeris* Gray, Zool. Voy. Erebus & Terror, 1, Mamm.: 30. *Delphinus phocaenoides* G. Cuvier.  
1847. *Meomeris* Gray, List Osteol. Specimens B.M., xii, 36 (misprint).  
1899. *Neophocaena* Palmer, Proc. Biol. Soc. Washington, 13: 23. For *Neomeris* believed to be preoccupied by *Neomeris* Lamouroux, 1816, thought to have been a polyp, but which appears to be an alga (see Thomas, 1922, Ann. Mag. N.H. 11: 676, and 1925, *ibid.* 16: 655).

CHASEN, PAGE 110

Genus **GLOBICEPHALA** Lesson, 1828

1828. *Globicephala* Lesson, H.N. Mamm. et Ois. depuis 1788, Cétacés, 441. *Delphinus deductor* Scoresby = *Delphinus melas* Traill, from the Orkney Islands.

Genus **DELPHINUS** Linnaeus, 1758

1758. *Delphinus* Linnaeus, Syst. Nat. 10th ed. 1: 77. *Delphinus delphis* Linnaeus.

The correct reference for *Delphinus delphis* Linnaeus is not 1766 as given by Chasen, but 1758. *Delphinus delphis* Linnaeus, Syst. Nat. 10th ed. 1: 77, European Seas.

Genus **PRODELPHINUS** van Beneden & Gervais, 1877, is antedated by *Stenella* Gray.

Genus **STENELLA** Gray, 1866

1866. *Stenella* Gray, P.Z.S. 213. *Steno attenuatus* Gray, from an unknown locality.  
1877. *Prodelphinus* van Beneden & Gervais, Ost. des Cétacés, 604, Substitute for *Clymenia* Gray, 1868 for which no type was specified and which is not of Munster, 1839.

Genus **STENO** Gray, 1846

1846. *Steno* Gray, Zool. Erebus & Terror, 1, Mamm.: 43. *Delphinus rostratus* Desmarest = *Delphinus bredanensis* Lesson.

As we pointed out (1951, 734) *Delphinus rostratus* Desmarest, 1817, which Chasen and earlier authors used for the Rough-toothed Dolphin is preoccupied (not of Shaw, 1801), and it is therefore necessary to call this species

***Steno bredanensis*** Lesson, 1828.

1828. *Delphinus bredanensis* Lesson, H.N. Mamm. et Ois. depuis 1788, Cétacés, 206. European Seas.

(It appears that *Delphinus frontatus* G. Cuvier, 1823, is not available for this species; see Flower, 1884, P.Z.S. 1883: 482).

## GENERIC SYNONYMY

### Genus **SOTALIA** Gray, 1866

1866. *Sotalia* Gray, Cat. Seals & Whales B.M., 393, 401. *Sotalia guianensis* van Beneden, from British Guiana.  
1866. *Sousa* Gray, P.Z.S. 213. *Steno lentiginosus* Gray, from Madras.

*Sousa* was published in September, 1866, and we have evidence that *Sotalia* can be dated from March, 1866.

We take this opportunity of saying that the first reference to *Sotalia lentiginosa* seems to be

1866. *Steno lentiginosus* Gray, Cat. Seals, Whales B.M., 394.

### Genus **TURSIOPS** Gervais, 1855

1855. *Tursiops* Gervais, H.N. des Mamm. 2: 323. *Delphinus truncatus* Montagu, from England.

The species *T. catalania* Gray, 1862, which Chasen lists from Sumatra and Java is a synonym of the earlier described

#### **Tursiops aduncus** Ehrenberg, 1833.

1833. *Delphinus aduncus* Ehrenberg in Hemprich & Ehrenberg, Symb. Phys. Mamm. 2: sig. k (footnote). Belhosse Island, Red Sea.

For full synonymy, following Dr. F. C. Fraser, see Ellerman & Morrison-Scott (1951, 736).

CHASEN, PAGE 111

## ORDER EDENTATA

### FAMILY MANIDAE

#### Genus **MANIS** Linnaeus, 1758

1758. *Manis* Linnaeus, Syst. Nat. 10th ed. 1: 36. *Manis pentadactyla* Linnaeus, from Formosa.  
1815. *Pangolinus* Rafinesque, Analyse, 57. No type: (1821, Ann. Sci. Phys. Bruxelles, 7: 214. *Manis pentadactyla* Linnaeus).  
1843. *Phatages* Sundevall, K. Svenska Vetensk. Akad. Handl. 1842: 258, 273 (vel *Phatagenus*). *Manis laticauda* Illiger = *Manis crassicaudata* Gray, from India.  
1924. *Paramanis* Pocock, P.Z.S. 722. *Manis javanica* Desmarest. Valid as a subgenus.

## ORDER LAGOMORPHA

### FAMILY LEPORIDAE

Chasen preferred to list the Leporidae as a family of Rodentia but many, or most, authors now separate the hares and their allies as a distinct order Lagomorpha. See particularly Simpson (1945, 196).

CHASEN'S MALAYSIAN MAMMALS

Genus **NESOLAGUS** Forsyth Major, 1899

1899. *Nesolagus* Forsyth Major, Trans. Linn. Soc. London, Zool. 7: 493.  
(As a subgenus of *Caprolagus* Blyth, 1845.) *Lepus netscheri*  
Schlegel.

Genus **LEPUS** Linnaeus, 1758

1758. *Lepus* Linnaeus, Syst. Nat. 10th ed. 1: 57. *Lepus timidus* Linnaeus,  
from Sweden.  
1829. *Chionobates* Kaup, Skizz. Europ. Thierw. 1: 170. *Lepus variabilis*  
Pallas = *Lepus timidus* Linnaeus, here selected.  
1867. *Eulagos* Gray, Ann. Mag. N.H. 20: 222. *Lepus mediterraneus*  
Wagner, the Sardinian race of *Lepus capensis* Linnaeus, from  
South Africa (type selected by Ellerman & Morrison-Scott,  
1951).  
1929. *Allolagus* Ognev, Zool. Anz. 34: 71. *Lepus mandshuricus* Radde,  
from Amurland. Valid as a subgenus.  
1947. *Tarimolagus* Gureev, C.R. Acad. Sci. U.R.S.S. 57, 5: 517. *Lepus*  
*yarkandensis* Günther, from Chinese Turkestan. Valid as a  
subgenus.

CHASEN, PAGE 112

ORDER RODENTIA

FAMILY SCIURIDAE

Genus **PETAURISTA** Link, 1795

1795. *Petaurista* Link, Beytr. Naturgesch. 1, 2: 78. "*Sciurus petaurista* L."  
= *Sciurus petaurista* Gmelin, (1789, Linn. Syst. Nat. 1: 155) =  
*Sciurus petaurista* Pallas.  
1840. *Galeolomys* Lesson, Spec. Mamm. 261. *Galeopithecus macrourus*  
Temminck from Ceylon (?). Based on a *Petaurista* according to  
Thomas, 1908, Ann. Mag. N.H. 1: 252. Best regarded as  
unidentifiable.

*Pteromys* of some earlier authors including Blanford, 1888-91, Fauna  
Brit. India, 360 but not *Pteromys* G. Cuvier, 1800.

*Petaurista petaurista nitidulus* (Chasen, page 112) is more likely a race  
of *Petaurista elegans*.

CHASEN, PAGE 114

Genus **IOMYS** Thomas, 1908

1908. *Iomys* Thomas, Ann. Mag. N.H. 1: 1. *Pteromys* (*Sciuropterus*)  
*horsfieldii* Waterhouse.

GENERIC SYNONYMY

CHASEN, PAGE 116

Genus **PTEROMYSCUS** Thomas, 1908

1908. *Pteromyscus* Thomas Ann. Mag. N.H. 1: 3. *Sciuropterus pulverulentus*  
Günther.

Genus **PETAURILLUS** Thomas, 1908

1908. *Petaurillus* Thomas, Ann. Mag. N.H. 1: 3. *Sciuropterus hosei*  
Thomas.

Genus **HYLOPETES** Thomas, 1908

1908. *Hylopetes* Thomas, Ann. Mag. N.H. 1: 6. *Sciuropterus everetti*  
Thomas, the Natuna Islands race of *Pteromys lepidus* Horsfield.  
1915. *Eoglaucmys* Howell, Proc. Biol. Soc. Washington, 28: 109.  
*Sciuropterus fimbriatus* Gray. Valid as a subgenus.

Dr. G. H. H. Tate informed us that he had examined the type skull of *Sciurus sagitta* Linnaeus (hitherto used as the prior name of the small Indomalayan *Hylopetes* by most authors) and that it is a *Petinomys* "and seems to be most closely allied to the species *genibarbis*". Thus it will apparently be necessary to call the Small Flying Squirrel

**Hylopetes lepidus** Horsfield, 1822

(1822. *Pteromys lepidus* Horsfield, Zool. Res. Java, No. 5 (plate and text page unnumbered). October, 1822. Java.)

On the specific status of *Hylopetes platyurus* (Chasen, page 118) see Ellerman (1949, 13) where it is suggested that *platyurus* is a race of *sagitta* (= *lepidus*) on account of the fact that Sumatran examples of *platyurus* in the British Museum are not specifically distinguishable from other races of *lepidus* whereas *Hylopetes spadiceus* (Chasen, page 118), which it is suggested is a valid species, stands apart from *H. lepidus* and its races on account of its larger bullae.

"*Hylopetes*" *thomasi* listed by Chasen on page 118, and whose reference should read Ann. Mag. N.H. (7) 5: 215, is a valid species but in the genus *Aeromys* (Chasen, page 120).

CHASEN, PAGE 119

Genus **PETINOMYS** Thomas, 1908

1908. *Petinomys* Thomas, Ann. Mag. N.H. 1: 6. *Sciuropterus lugens*  
Thomas, the Sipora Island race of *Sciuropterus hageni* Jentink.  
(1942. *Olisthomys* Carter, Amer. Mus. Nov. 1208: 2. *Pteromys* (*Olisthomys*)  
*morrisi* Carter, from Burma.)

It is probable that

**Petinomys sagitta** Linnaeus, 1766

(Chasen, page 116) will be the prior specific name for *Petinomys genibarbis* (Chasen, page 119), according to Dr. G. H. H. Tate, who has

examined the type skull of *sagitta* and informed us that it is a *Petinomys*; see note under *Hylopetes*, above.

The date of *Petinomys setosus* was not earlier than 1844 and was probably 1845.

## CHASEN, PAGE 120

Genus **AEROMYS** Robinson & Kloss, 1915

1915. *Acromys* Robinson & Kloss, J. Fed. Malay States Mus. 6: 23.  
*Pteromys tephromelas* Günther.

Genus **RATUFA** Gray, 1867

1867. *Ratufa* Gray, Ann. Mag. N.H. 20: 273. *Sciurus indicus* Erxleben, from Bombay Presidency, India.  
1867. *Rukaia* Gray, Ann. Mag. N.H. 20: 275, 276. *Sciurus macrourus* Pennant, from Ceylon.  
1880. *Eosciurus* Trouessart, Le Naturaliste, 2, 37: 291. *Sciurus bicolor* Sparrman.

## CHASEN, PAGE 123

*Ratufa affinis masae* dates from 1903.

## CHASEN, PAGE 125

(Genus **SCIURUS** Linnaeus, 1758, Syst. Nat. 10th ed. 1: 63, *Sciurus vulgaris* Linnaeus, from Sweden. The genus *Sciurus* is usually restricted to Palearctic and American species, the Indomalayan species being referred to *Callosciurus*. But there is no very basic difference between *Sciurus* and *Callosciurus* other than the baculum, which is not known in all species of *Callosciurus*, and Chasen's arrangement has much to commend it. Nevertheless it seems wisest to recognize *Callosciurus*.)

Genus **CALLOSCIURUS** Gray, 1867. (Not recognized by Chasen)

1867. *Callosciurus* Gray, Ann. Mag. N.H. 20: 277. *Sciurus rafflesii* Vigors & Horsfield, from Sumatra, a race of *Sciurus prevostii* Desmarest.  
1867. *Baginia* Gray, loc. cit. 279. *Sciurus notatus* Boddaert.  
1867. *Erythrosciurus* Gray, loc. cit. 285. *Sciurus ferrugineus* F. Cuvier, from Burma, which is probably a race of *Sciurus fulaysoni* Horsfield, from Koh Chang, Siam.  
1880. *Heterosciurus* Trouessart, Le Naturaliste, 1: 292. *Sciurus erythraeus* Pallas.  
1906. *Tamiops* J. Allen, Bull. Amer. Mus. N.H. 22: 475. *Sciurus macclellandi* Horsfield. Valid as a subgenus. (Listed as a genus by Chasen, page 148.)



GENERIC SYNONYMY

CALLOSCIURUS [*contd.*]

1915. *Tomeutes* Thomas, Ann. Mag. N.H. 15: 385. *Sciurus lokroides* Hodgson, the Nepal race of *Sciurus pygerythrus* I. Geoffroy.  
 1954. *Rubrisciurus* Ellerman in Laurie & Hill, Mamm. New Guinea & Celebes: 94. *Sciurus rubriventer* Forsten, from Celebes. Valid as a subgenus.

CHASEN, PAGE 130

The form *suffusus* probably represents *C. notatus* rather than *C. provosti*.

CHASEN, PAGE 137

For *Sciurus vittatus conipus* read *Sciurus notatus conipus*.

CHASEN, PAGE 145

Genus **MENETES** Thomas, 1908

1908. *Menetes* Thomas, J. Bombay N.H. Soc. 18, 2: 244. *Sciurus bermmorei* Blyth.

Genus **LARISCUS** Thomas & Wroughton, 1909

1867. *Laria* Gray, Ann. Mag. N.H. 20: 276. *Sciurus insignis* F. Cuvier. Not of Scopoli, 1763.  
 1909. *Lariscus* Thomas & Wroughton, P.Z.S. 389. *Nom. nov.* for *Laria*. *Sciurus insignis* F. Cuvier.  
 1947. *Paralariscus* Ellerman, P.Z.S. 117, 1: 259. *Sciurus hosei* Thomas. Valid as a subgenus.

CHASEN, PAGE 147

Genus **DREMOMYS** Heude, 1898

1898. *Dremomys* Heude, Mém. H.N. Emp. Chinois, 4, 2: 54. *Sciurus pernyi* Milne-Edwards, from Szechuan, China.  
 1908. *Zetis* Thomas, J. Bombay N.H. Soc. 18: 245. *Sciurus rufgenis* Blanford.

Genus **RHINOSCIURUS** Blyth, 1855

1843. *Rhinosciurus* Gray, List Spec. Mamm. in Coll. of the B.M., 195. *Nomen nudum* <sup>(1)</sup>.  
 1855. *Rhinosciurus* Blyth, J. Asiat. Soc. Bengal, 24: 477. *Rhinosciurus tupaoides* Blyth, the Malaccan race of *Sciurus laticaudatus* Müller.

The reference to *Sciurus laticaudatus* is 1844, Müller & Schlegel in Temminck, Verh. Nat. Ges. Nederl. Overz. Bezitt., 87.

<sup>1</sup> Chasen dates *Rhinosciurus* from Gray, 1843. But the only "indication" Gray gives is a qualified synonymic reference. The name is therefore a *nomen nudum* (see paragraph 122 of the *Copenhagen Decisions on Zoological Nomenclature*) and the first valid use appears to be of Blyth, 1855.

CHASEN'S MALAYSIAN MAMMALS

CHASEN, PAGE 148

Genus TAMIOPS J. Allen, 1906, is antedated by *Callosciurus* Gray, 1867, and we consider *Tamiops* is a subgenus of *Callosciurus*. See above under *Callosciurus*, where the reference is given.

Genus **GLYPHOTES** Thomas, 1898

1898. *Glyphotes* Thomas, Ann. Mag. N.H. 2: 250. *Glyphotes simus* Thomas.

CHASEN, PAGE 149

Genus **RHEITHROSCIURUS** Gray, 1867

1867. *Rheithrosciurus* Gray, Ann. Mag. N.H. 20: 271. *Sciurus macrotis* Gray.

Genus **NANNOSCIURUS** Trouessart, 1880

1880. *Nannosciurus* Trouessart, Le Naturaliste, 1: 292. *Sciurus melanotis* Müller & Schlegel.

CHASEN, PAGE 150

FAMILY SPALAGIDAE is a valid family for *Spalax* from the eastern Mediterranean region, but most recent authors seem agreed that *Rhizomys* has little to do with *Spalax*, and refer the latter to a distinct family Rhizomyidae.

FAMILY RHIZOMYIDAE

Genus **RHIZOMYS** Gray, 1831

1831. *Rhizomys* Gray, P.Z.S. 95. *Rhizomys sinensis* Gray, from China.

1832. *Nyctocleptes* Temminck, Bijdragen Nat. Wetensch. Amsterdam, 7: 5. *Mus sumatrensis* Raffles. Valid as a subgenus.

*Rhizomys pruinosis* dates from 1851 (not 1852 as listed by Chasen).

*Rhizomys sumatrensis* dates from 1821 as listed by Chasen (not "1822" as listed by Ellerman & Morrison-Scott, 1951) and we take this opportunity of saying that the related species *Cannomys badius* dates from 1841, not "1842" as listed by us in 1951.

CHASEN, PAGE 151

FAMILY MURIDAE

Genus **RATTUS** Fischer, 1803

1803. *Rattus* Fischer, National Mus. Nat. Paris, 2: 128 (misprinted *Ruttus*). *Mus decumanus* Pallas = *Mus norvegicus* Berkenhout.

1881. *Epimys* Trouessart, Bull. Soc. Études Sci. Angers, 10: 117. *Mus rattus* Linnaeus.

GENERIC SYNONYMY

RATTUS [contd.]

1903. *Lenothrix* Miller, Proc. U.S. Nat. Mus. 26: 466. *Lenothrix canus* Miller. Valid as a subgenus.
1905. *Bullimus* Mearns, Proc. U.S. Nat. Mus. 28: 450. *Bullimus bagopus* Mearns, a race of *Rattus luzonicus* Thomas, from the Philippine Islands.
1905. *Limnomys* Mearns, loc. cit. 451. *Limnomys sibuanus* Mearns, from the Philippine Islands.
1905. *Tarsomys* Mearns, loc. cit. 453. *Tarsomys apoensis* Mearns, from the Philippine Islands.
1905. *Apomys* Mearns, loc. cit. 455. *Apomys hylocoetes* Mearns, from the Philippine Islands. Valid as a subgenus.
1910. *Stenomys* Thomas, Ann. Mag. N.H. 6: 507. *Mus verecundus* Thomas, from New Guinea. Valid as a subgenus.
1910. *Bunomys* Thomas, Ann. Mag. N.H. 6: 508. *Mus coelestis* Thomas, from Celebes.
1911. *Millardia* Thomas, J. Bombay N.H. Soc. 20, 4: 998. *Golunda meltada* Gray, from Dharwar, India. Valid as a subgenus.
1911. *Grypomys* Thomas, J. Bombay N.H. Soc. 20, 4: 999. *Mus gleadowi* Murray, from western Sind, India.
1912. *Cremnomys* Wroughton, J. Bombay N.H. Soc. 21: 340. *Cremnomys cutchicus* Wroughton, from Cutch, India. Valid as a subgenus.
1916. *Diplothrix* Thomas, J. Bombay N.H. Soc. 24, 3: 404, footnote. *Lenothrix legata* Thomas, from Amamioshima, Liukiu Islands. Valid as a subgenus.
1917. *Guyia* Thomas, J. Bombay N.H. Soc. 25, 2: 201. *Millardia kathleenae* Thomas, from Burma.
1936. *Maxomys* Sody, Naturk. Tijdschr. Ned. Ind. 96: 55. *Mus bartelsi* Jentink. Valid as a subgenus.
1941. <sup>1</sup>*Madromys* Sody, Treubia, 18, 2: 260. *Mus blanfordi* Thomas, from Madras, India.
1941. *Taeromys* Sody, loc. cit. *Mus celebensis* Gray, from Celebes.
1941. *Pullomys* Sody, loc. cit. *Mus pulliventer* Miller, from the Nicobar Islands.
1941. *Mollicomys* Sody, loc. cit. *Mus hoffmani* Matschie, from Celebes.
1941. *Geromys* Sody, loc. cit. *Mus gestri* Thomas, a New Guinea race of *Rattus sordidus* Gould, from Australia.
1941. *Frateromys* Sody, loc. cit. *Mus fratrorum* Thomas (= *Rattus chryso-comus* Hoffman?), from Celebes.
1941. *Cironomys* Sody, loc. cit. *Rattus hoogerwerfi* Chasen.
1941. *Christomys* Sody, loc. cit. *Mus macleari* Thomas.
1941. *Arcuomys* Sody, loc. cit. *Rattus arcuatus* Tate & Archbold, from Celebes.
1941. *Octomys* Sody, loc. cit. 261. Not of Thomas, 1920.
1941. *Millardomys* Sody, loc. cit. *Millardia kathleenae* Thomas.
1947. *Leopoldanys* Ellerman, P.Z.S. 117, 1: 261, 267. *Mus sabanus* Thomas. Valid as a subgenus.

<sup>1</sup> The eleven generic names proposed by Sody in 1941 do not comply with Article 25 (c) of the Rules, neither does Sody indicate how they differ from allied genera. They have no status or availability.

RATTUS [*contd.*]

1947. *Berylmys* Ellerman, P.Z.S. 117, 1: 261, 267. *Epimys manipulus* Thomas, from western Burma. Valid as a subgenus.  
 1954. *Paruromys* Ellerman in Laurie & Hill, Mamm. New Guinea & Celebes, 117. *Rattus dominator* Thomas, from Celebes. Valid as a subgenus.

According to the classification offered in Ellerman (1949) the species listed by Chasen could be divided into the following subgenera (not including a few listed by Chasen which are not represented in the British Museum).

Subgenus *RATTUS* Fischer, 1803

- Rattus rattus* (Chasen, page 151)  
*Rattus concolor* (Chasen, page 159) which is a race of  
**Rattus exulans** Peale, 1848 (U.S. Explor. Exped. 8: 47 (N.V.) Tahiti),  
*Rattus annandalei* (Chasen, page 160)  
*Rattus norvegicus* (page 182) and  
*Rattus baluensis* (page 158) which as Chasen suggests is a high level form of *R. rattus*.

Subgenus *STENOMYS* Thomas, 1910

- Rattus muelleri* (page 161)  
*Rattus infraluteus* (page 163)  
*Rattus macleari* (page 164)  
*Rattus nativitatis* (page 183)  
*Rattus bowersi* (page 182).

Subgenus *MAXOMYS* Sody, 1936

- Rattus bartelsi* (page 179)  
*Rattus inflatus* (page 175, but it is an aberrant species)  
*Rattus cremoriventer* (page 175)  
*Rattus "rapit"* 1903 (page 176) is antedated by *R. lepturus* 1879, erroneously listed as a race by Chasen, but it is suggested that this group represents  
**Rattus fulvescens** Gray, 1847 (*Mus fulvescens* Gray, Cat. Hodgson Coll. 18, Nepal);  
*Rattus bukit* (page 178), but it is suggested that this represents  
**Rattus niviventer** Hodgson, 1836 (*Mus (Rattus) niviventer* Hodgson, J. Asiat. Soc. Bengal, 5: 234, Katmandu, Nepal).

Subgenus *LENOTHRLIX* Miller, 1903

- Rattus rajah* and *R. surifer* (page 168), but these two are probably conspecific, and *rajah* has priority;  
*Rattus alticola* (page 179)

GENERIC SYNONYMY

Subgenus *LENOTHRIX* [contd.]

*Rattus baeodon* (page 179)

*Rattus hylomyoides* (page 179) which is certainly not a race of *alticola* if these species are to be definable;

*Rattus canus* (page 183) and

*Rattus whiteheadi* (page 180) which it is suggested may represent

***Rattus musschenbroeki*** Jentink, 1879 (*Mus muschenbroekii* Jentink, Notes Leyden Mus. 1: 10, Menado, Celebes).

Subgenus *LEOPOLDAMYS* Ellerman, 1947

*Rattus sabanus* (page 164)

*Rattus edwardsi* (page 182)

CHASEN, PAGE 161

The form *remotus* is a race of *muelleri* rather than *annandalei*; (Ellerman, 1949, 43). *Rattus muelleri* dates from 1879, not as listed by Chasen.

CHASEN, PAGE 163

The form *Rattus muelleri borneanus* dates from 1913.

CHASEN, PAGE 167

*Rattus siporanus* is a race of *R. edwardsi* (Chasen, page 182) (Ellerman, 1949, 45).

CHASEN, PAGE 175

*Rattus inflatus* dates from 1916.

CHASEN, PAGE 176

The form *malawali* (on evidence of the type specimen) seems not to be a race of *R. cremoriventer*, and is much more like *R. canus* (Chasen, page 183).

CHASEN, PAGE 181

On the evidence of the type specimen the form *piratae*, with very large palatal foramina, seems not to be a race of *whiteheadi*.

CHASEN, PAGE 182

The earliest reference to *Rattus norvegicus* seems to be 1769. *Mus norvegicus* Berkenhout, Outlines N.H. Great Britain & Ireland, 1: 5, Great Britain (N.I.).

*Rattus bowersi* dates from 1879, not as in Chasen.

CHASEN, PAGE 183

Genus **MUS** Linnaeus, 1758

1758. *Mus* Linnaeus, Syst. Nat. 10th ed. 1: 59. *Mus musculus* Linnaeus.  
 1837. *Leggada* Gray, Charlesworths Mag. N.H. 1: 586. *Mus booduga* Gray, from India.  
 1914. *Leggadilla* Thomas, J. Bombay N.H. Soc. 22, 4: 682. *Mus platythrix* Bennett, from India.  
 1915. *Coelomys* Thomas, J. Bombay N.H. Soc. 23, 3: 414. *Coelomys mayori* Thomas, from Ceylon. Valid as a subgenus.  
 1916. *Oromys* Robinson & Kloss, J. Straits Branch R. Asiat. Soc. 73: 270. *Oromys crociduroides* Robinson & Kloss. Not of Leidy, 1853.  
 1917. *Tautatus* Kloss, J.N.H. Soc. Siam, 2: 279. *Tautatus thai* Kloss, the Siam race of *Mus cervicolor* Hodgson, from Nepal.  
 1918. *Mycteromys* Robinson & Kloss, J. Fed. Malay States Mus. 8: 57. To replace *Oromys* Robinson & Kloss, preoccupied. *Oromys crociduroides* Robinson & Kloss. Valid as a subgenus.

For a revision of *Mus musculus* see Schwarz & Schwarz, 1943, *J. Mamm.* 24: 59. Of the forms listed by Chasen on page 184, they regard *rama* as a synonym of *Mus musculus castaneus* (*Mus castaneus* Waterhouse, 1843, Ann. Mag. N.H. 12: 134, Philippine Islands) and *ouwensi* as a synonym of *Mus musculus homourus* (*Mus homoourus* Hodgson, 1845, Ann. Mag. N.H. 15: 268, Nepal).

See also *Mycteromys*, below.

CHASEN, PAGE 184

Genus **CHIROPODOMYS** Peters, 1868

1868. *Chiropodomys* Peters, Mber. Preuss. Akad. Wiss. 448. *Chiropodomys penicillatus* Peters = *Mus gliroides* Blyth.  
 1934. *Insulaemus* Taylor, Philippine Land Mamm. 469. *Insulaemus calamianensis* Taylor.

We suggest that the forms *anna* and *pictor* (page 185) are well marked outlying races of *C. gliroides*, and in British Museum material *peguensis* is not distinguishable from typical *gliroides*. Our latest researches show that *C. gliroides* should date from the year 1856.

CHASEN, PAGE 185

Genus **HAEROMYS** Thomas, 1911

1911. *Haeromys* Thomas, Ann. Mag. N.H. 7: 207. *Mus margarettae* Thomas.

## GENERIC SYNONYMY

Genus **HAPALOMYS** Blyth, 1859

1859. *Hapalomys* Blyth, J. Asiat. Soc. Bengal, 28: 296. *Hapalomys longicaudatus* Blyth.

Genus **MYCTEROMYS** Robinson & Kloss, 1918; see above under *Mus*, of which it would appear to be a subgenus.

The form *Mycteromys crociduroides vulcani* should probably be considered as a race of

**Mus pahari** Thomas, 1916

(J. Bombay N.H. Soc. 24, 3: 415 Batasia, Sikkim), and to belong to the subgenus *Coelomys*. If it is desired to reduce the number of subgenera in Asiatic *Mus*, then *Coelomys* antedates *Mycteromys*. For comparison of these forms see Ellerman, 1949, 131 where *pahari*, *crociduroides* and *vulcani* are compared.

CHASEN, PAGE 186

Genus **PITHECHEIR** Lesson, 1840

1840. *Pithecheir* Lesson, Species des Mammifères, 264. *Pithecheir melanurus* Lesson, *loc. cit.* 265. (Type locality: western Sumatra.)

We do not know why Chasen listed Java as the type locality. Lesson's name is based on F. Cuvier, 1833, H.N. Mamm. livraison 66, which was a vernacular description of "Pithecheir melanure". Here Cuvier says: as for the countries where it lives and where it will one day no doubt be found again, I have reason to presume, from the date on which I received the painting, and from the paintings which accompanied this one, that the animal comes from the provinces north of Bengal, if it is not from the western parts of Sumatra. Cuvier's friend Alfred Duvaucel had died, and Cuvier only received the painting of the animal, no notes or specimen. Cuvier did not know the scale of the painting, but guessed it was a beast about the size of a rat. Therefore as *Pithecheir* is not known from Bengal (its sole known distribution is Malay States, Sumatra and Java), we suggest restriction of its type locality to western Sumatra, the only other locality mentioned by Cuvier. F. Cuvier, 1842, H.N. Mamm. Tabl. Gén. 4 is an index which gives a scientific name for "Pithecheir melanure". It is valid but antedated by Lesson.

Lesson, 1838, Compléments de Buffon, 477, is a vernacular summary of F. Cuvier (1833) and has no validity. We have not this book, but Dr. Jean Dorst kindly looked it up for us in the Bibliothèque Nationale.

Genus **BANDICOTA** Gray, 1873

1873. *Bandicota* Gray, Ann. Mag. N.H. 12: 418. *Bandicota gigantea* Hardwicke = *Mus indicus* Bechstein.

1907. *Gunomys* Thomas, Ann. Mag. N.H. 20: 203. *Arvicola bengalensis* Gray.

CHASEN'S MALAYSIAN MAMMALS

It appears that *Bandicota bengalensis* should date from 1835 (not "1833" as listed in Ellerman & Morrison-Scott (1951) nor "1832-35" as in Chasen) and we take this opportunity of stating that the closely allied species *Nesokia indica* Gray should date from 1830, and not as listed by us (1951). Both *Nesokia indica* and *Bandicota bengalensis* are of Gray.

Genus GUNOMYS Thomas, 1907; see under *Bandicota* of which it is a synonym.

Listed as valid by Chasen, but only used by genus-splitters.

CHASEN, PAGE 187

FAMILY H Y S T R I C I D A E

Genus **HYSTRIX** Linnaeus, 1758

1758. *Hystrix* Linnaeus, Syst. Nat. 10th ed. 1: 56. *Hystrix cristata* Linnaeus, from Italy.  
1823. *Acanthion* F. Cuvier, Mém. Mus. H.N. Paris, 9: 425, 431.  
*Acanthion javanicum* F. Cuvier. Valid as a subgenus.

CHASEN, PAGE 188

We suggest that it is probable *H. javanica* is a valid species (with *sumbawae* as a race), and we suggest that *Thecurus*, which Chasen did not recognize, is a valid genus; see also Ellerman (1949, 3).

Genus **THECURUS** Lyon, 1907. (Not recognized by Chasen)

1907. *Thecurus* Lyon, Proc. U.S. Nat. Mus. 32: 582. *Thecurus sumatrae* Lyon, the Sumatran race of *Hystrix crassispinis* Günther.

The species *H. crassispinis* dates from 1877, not as listed by Chasen.

Genus **ATHERURUS** F. Cuvier, 1829

1829. *Atherurus* F. Cuvier, Dict. Sci. Nat. 59: 483. *Hystrix macrourus* Linnæus.

CHASEN, PAGE 189

Genus **TRICHYS** Günther, 1877

1877. *Trichys* Günther, P.Z.S. 1876: 739. *Trichys lipura* Günther.



GENERIC SYNONYMY

ORDER SIRENIA

FAMILY DUGONGIDAE

Genus **DUGONG** Lacépède, 1799

1799. *Dugong* Lacépède, Tabl. Mamm. 17. *Dugong indicus* Lacépède = *Trichechus* (sic) *dugon* Müller.  
1811. *Halicore* Illiger, Prodr. Syst. Mamm. et Avium, 140. *Trichechus dugong* Gmelin = *Trichechus dugon* Müller.

CHASEN, PAGE 190

ORDER "UNGULATA"

It is customary to divide the Order Ungulata of earlier authors as listed below.

(ORDER PROBOSCIDEA)

FAMILY ELEPHANTIDAE

Genus **ELEPHAS** Linnaeus, 1758

1758. *Elephas* Linnaeus, Syst. Nat. 10th ed. 1: 33. *Elephas maximus* Linnaeus.

The reference to *Elephas maximus indicus* (Chasen, page 190) is 1797. *Elephas indicus* G. Cuvier, Tabl. Élém. H.N. 148, India.

(ORDER ARTIODACTYLA)

FAMILY SUIDAE

Genus **SUS** Linnaeus, 1758

1758. *Sus* Linnaeus, Syst. Nat. 10th ed. 1: 49. *Sus scrofa* Linnaeus, from Germany. (Opinion 75 of the International Commission on Zool. Nomenclature.)  
1847. *Porcula* Hodgson, J. Asiat. Soc. Bengal. 16: 423. *Porcula salvania* Hodgson, from Sikkim Terai, India. Valid as a subgenus.  
1869. *Euhys* Gray, Cat. Carnivora, etc. Brit. Mus. 339. *Sus barbatus* Müller.  
1873. *Aulacochoerus* Gray, Ann. Mag. N.H. 11: 435. *Sus vittatus* Müller = *Sus vittatus* Boie, from Sumatra, a race of *Sus scrofa* Linnaeus.  
1873. *Dasychoerus* Gray, loc. cit. *Sus verrucosus* Müller & Schlegel.  
1892. *Sinismus* Heude, Mém. H.N. Emp. Chinois, 2: 102. Apparently based on the Chinese forms of *Sus scrofa*.

*Sus cristatus* Wagner, 1839; as we have already pointed out (1951, 344) Chasen should have called this *Sus vittatus* (see Chasen, page 191) which has eleven years priority over *S. cristatus*. But we suggested (1951) that all these races can be regarded as races of

**Sus scrofa** Linnaeus, 1758  
(1758. Syst. Nat. 10th ed. 1: 49, Germany).

CHASEN, PAGE 193

## FAMILY TRAGULIDAE

Genus **TRAGULUS** Brisson, 1762

- 1762 *Tragulus* Brisson, Regn. Anim. 65. *Tragulus indicus* Brisson  
( = *Cervus javanicus* Osbeck?)  
1843. *Moschiola* Hodgson, Calcutta J.N.H. 4: 292. *Tragulus mimenoides*  
Hodgson = *Tragulus meminna* Erxleben, from Ceylon. Valid as  
a subgenus.

On the involved nomenclature of this genus see Ellerman & Morrison-Scott (1951, 3, 4 and 349, 350).

A. van Bemmelen, 1949, *Treubia*, 20, 2: 378 points out the necessity for "a rather disagreeable change of nomenclature" in the typical subgenus. For years the Larger Mouse-deer has been called *Tragulus javanicus* Osbeck, and the Lesser Mouse-deer *T. kanchil* Raffles. It was not until 1929 that Sody and Dammerman began to query the existence of the Larger Mouse-deer in Java.

Now van Bemmelen has investigated the problem thoroughly and finds that in no collection can a specimen of the Larger Mouse-deer be found which is reliably known to have come from Java, and, further, that the Larger Mouse-deer has never been observed in Java. Furthermore, a study of the description of *javanicus* together with Osbeck's earlier, pre-Linnean description, and his narrative, makes it clear that the animals which Osbeck bought alive from natives on the coast of Udjon Kulon Peninsula, western Java, were Lesser Mouse-deer, which is in fact the only form of Mouse-deer which does occur in Java.

A switch-round of names is therefore necessary, and the Lesser Mouse-deer must be called *Tragulus javanicus* Osbeck, 1765 ( = *Moschus kanchil* Raffles, 1821), and for the Larger Mouse-deer there is *Tragulus napu* F. Cuvier, 1822 ( = *Tragulus javanicus auct. nec* Osbeck).

Presumably the form from Java listed by Chasen (1940, 201) as *T. kanchil focalinus* is a synonym of *T. j. javanicus*, and presumably *kanchil* Raffles will stand as the Sumatran race of *T. javanicus*.

GENERIC SYNONYMY

CHASEN, PAGE 200

*Tragulus "kanchil" subrufus* dates from 1903.

CHASEN, PAGE 201

FAMILY C E R V I D A E

Genus **CERVUS** Linnaeus, 1758

1758. *Cervus* Linnaeus, Syst. Nat. 10th ed. 1: 66. *Cervus elaphus* Linnaeus, from Sweden.
1827. *Rusa* H. Smith, Griffith's Cuvier Anim. Kingd. 4: 105. *Cervus unicolor* Kerr. Valid as a subgenus.
1838. *Harana* Hodgson, Ann. N.H. 1: 154. *Cervus wallichii* G. Cuvier (from Nepal or Tibet), a race of *Cervus elaphus* Linnaeus.
1838. *Rucervus* Hodgson, Ann. N.H. 1: 154. *Cervus elaphoides* Hodgson = *Cervus duvaucelii* G. Cuvier, probably from northern India. Valid as a subgenus.
1843. *Panolia* Gray, List Mamm. B.M. 180. *Panolia acuticornis* Gray = *Cervus eldi* McClelland, from Manipur. Valid as a subgenus.
1870. *Sika* Sclater, P.Z.S. 115. *Cervus sika* Temminck = *Cervus nippon* Temminck, from Japan. Valid as a subgenus.
1872. *Pseudaxis* Gray, Cat. Ruminants B.M., 70. *Cervus taiouanus* Blyth, the Formosan race of *Cervus nippon* Temminck.
1888. *Sambur* Heude, Mém. H.N. Emp. Chin. 2: 8. *Cervus aristotelis* Cuvier = *Cervus niger* Blainville, the northern Indian race of *Cervus unicolor* Kerr.
1888. *Ussa* Heude, loc. cit. 20. *Cervus nigricans* Brooke, from the Philippine Islands, here selected.
1888. *Melanaxis* Heude, loc. cit. 47. *Cervus alfredi* Sclater, from the Philippine Islands.
1930. *Przewalskium* Flerov, C.R. Acad. Sci. U.R.S.S., 115. *Cervus albirostris* Przewalski, from western Kansu, China. Valid as a subgenus.
1943. *Thaocervus* Pocock, J. Bombay N.H. Soc. 43: 554, 559. *Rucervus schomburgki* Blyth, from Siam. Valid as a subgenus.

The reference to *Cervus unicolor* is 1792, Anim. Kingd., 300, Ceylon.

CHASEN, PAGE 202

*Cervus kuhli* Müller & Schlegel. Chasen stated that he was insufficiently acquainted with this small species to discuss its affinities. Although Lydekker (1915, 4: 61) listed this species (with a question mark) in *Rusa*, he stated that it differed from the other species in the subgenus *Rusa* by its longer antler-pedicles and larger auditory bullae, characters affiliating it to *Hyelaphus*, "with which it apparently agrees in the presence of a glandular cleft in the hind pasterns." The last

character seems to be the main distinguishing character between *Axis* (including *Hyelaphus*) and *Cervus* (including the other subgenera listed above). Simpson (1945) gave *Axis* (with *Hyelaphus*) generic rank, and in 1951 we followed his generic classification in the Cervidae. It seems that *C. kuhli* may be referable to *Hyelaphus*, so we include the reference to that subgenus.

Genus **AXIS** H. Smith, 1827. (Not in Chasen)

1827. *Axis* H. Smith, Griffith's Cuvier, Anim. Kingd. 5: 312. *Cervus axis* Erxleben, from the Ganges, India.  
 1846. *Hyelaphus* Sundevall, K. Svenska Vetensk. Akad. Handl. 1844: 180. *Cervus porcinus* Zimmermann, from Bengal. Valid as a subgenus.

As noted above, it may be that *C. kuhli* will be referable to genus *Axis*, subgenus *Hyelaphus*.

Genus **MUNTIACUS** Rafinesque, 1815

1815. *Muntiacus* Rafinesque, Analyse de la Nature, 56. *Cervus muntjak* Zimmermann. *Nomen nudum* (1).  
 1816. *Cervulus* Blainville, Bull. Soc. Philom. Paris, 74. *Cervus muntjak* Zimmermann.  
 1923. *Procops* Pocock, P.Z.S. 207. *Cervulus feae* Thomas & Doria, from Tenasserim.

CHASEN, PAGE 204

## FAMILY BOVIDAE

Genus **BOS** Linnaeus, 1758

1758. *Bos* Linnaeus, Syst. Nat. 10th ed. 1: 71. *Bos taurus* Linnaeus (domestic cattle).  
 1837. *Bibos* Hodgson, J. Asiat. Soc. Bengal, 6: 499. *Bibos subhemachalus* Hodgson = *Bos gaurus* H. Smith. Valid as a subgenus.  
 1843. *Poëphagus* Gray, List Mamm. B.M., 153. *Bos grunniens* Linnaeus, from Asia (the Yak). Valid as a subgenus.  
 1847. *Gavcus* Hodgson, J. Asiat. Soc. Bengal, 16: 705. *Bos frontalis* Lambert (the domestic Gayal).  
 1901. *Gauribos* Heude, Mém. H.N. Emp. Chin. 5, 1: 3. *Gauribos laosiensis* Heude.

<sup>1</sup> Rafinesque, 1815, *Analyse de la Nature*. This book contains many *nomina nuda*, some of which are currently used. We consider that one of these names, *Muntiacus*, should be placed on the *Official List*. The Muntjak was known many years ago as *Cervulus* Blainville, 1816, but *Muntiacus* is now in current use and although it cannot really be pleaded that confusion would result, it would not be a helpful step to revert now to *Cervulus*. We have submitted this case to the Commission. (Ellerman & Morrison-Scott, 1951, 4).

## GENERIC SYNONYMY

### Bos [contd.]

1901. *Uribos* Heude, *loc. cit.*: 5. *Uribos platyceros* Heude.  
1901. *Bubalibos* Heude, *loc. cit.*: 6. *Bubalibos annamiticus* Heude.  
1940. *Novibos* Coolidge, Mem. Mus. Comp. Zool. Harvard, 54: 425,  
*Bos (Bibos) sauveli* Urbain.

The species *Bos gaurus* and *B. sondaicus* (listed by Chasen) belong to the subgenus *Bibos*, but *sondaicus* should have been called

**Bos banteng** Wagner, 1844 (in Schreber, Säugth. Suppl. 4: 517, Java).

Chasen refers all Oxen to one genus *Bos*, and there is much to be said in favour of this classification, but for those who wish to regard Buffaloes as a distinct genus, *Bubalus* is available for *B. bubalis*, listed by Chasen in *Bos*, page 206.

Genus **BUBALUS** H. Smith, 1827. (Not recognized by Chasen.)

1827. *Bubalus* H. Smith, Griffith's Cuvier Anim. Kingd. 5: 371. *Bos bubalus* Gmelin = *Bos bubalis* Linnaeus.

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Genus **CAPRICORNIS** Ogilby, 1837

1837. *Capricornis* Ogilby, P.Z.S. 1836: 139. *Antilope thar* Hodgson, the Nepal race of *Antilope sumatraensis* Bechstein.  
1898. *Capricornulus* Heude, Mém. Mus. H.N. Emp. Chin. 4: 13. *Antilope crispa* Temminck, from Japan. Valid as a subgenus.  
1898. *Nemotragus* Heude, *loc. cit.* *Capricornis erythropygius* Heude = *Capricornis (Antilope) milneedwardsi* David, the Szechuan race of *Antilope sumatraensis* Bechstein.  
1898. *Lithotragus* Heude, *loc. cit.* *Capricornis maritimus* Heude, the Tonkin race of *Antilope sumatraensis* Bechstein.  
1898. *Austritragus* Heude, *loc. cit.*: 14. *Antilope sumatraensis* Bechstein.

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## (ORDER PERISODACTYLA)

### FAMILY RHINOCEROTIDAE

Genus **RHINOCEROS** Linnaeus, 1758

1758. *Rhinoceros* Linnaeus, Syst. Nat. 10th ed. 1: 56. *Rhinoceros unicornis* Linnaeus, from India.

Chasen preferred to regard both his species of *Rhinoceros* as congeneric, but many authors prefer to separate *R. sumatrensis* generically, in which case the prior name is *Didermocerus*.

## CHASEN'S MALAYSIAN MAMMALS

- Genus **DIDERMOCERUS** Brookes, 1828. (Not recognized by Chasen)  
1828. *Didermocerus* Brookes, Cat. Anat. Zool. Museum of J. Brookes, London, 75. *Didermocerus sumatrensis* = *Rhinoceros sumatrensis* Fischer.  
1841. *Dicerorhinus* Gloger, Handbuch Naturgesch, 125. *Rhinoceros sumatrensis* Cuvier (= *Rhinoceros sumatrensis* Fischer).

## FAMILY TAPIRIDAE

Genus **TAPIRUS** Brisson, 1762

1762. *Tapirus* Brisson, Regn. Anim. 81-82. *Tapirus terrestris* Brisson = *Hippopotamus terrestris* Linnaeus, from Brazil.  
1771. *Tapirus* Brännich, Zool. Fundamenta, 44, 45. *Hippopotamus terrestris* Linnaeus.  
1913. *Acrocodia* Goldman, Proc. Biol. Soc. Washington, 26: 65. *Tapirus indicus* Desmarest. Valid as a subgenus.

The reference for *Tapirus indicus* is Desmarest 1819, Nouv. Dict. H.N. 32: 458, Malay Peninsula, which antedates the one given in Chasen.

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