# LIST

OF

# THE VERTEBRATED ANIMALS

EXHIBITED

## IN THE GARDENS

OF THE

## ZOOLOGICAL SOCIETY OF LONDON,

## 1828–1927.

CENTENARY EDITION IN THREE VOLUMES.

BOOK NO.
1361

VOLUME I.

## MAMMALS.

BY

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# PREFACE.

In the early years of the Society, Lists of the Animals exhibited in the Gardens were published frequently, sometimes in the Annual Reports, one of the most complete having been prepared by Broderip in 1844. In 1862 Dr. P. L. Sclater published the first full 'List of the Vertebrated Animals now or lately Living in the Gardens of the Zoological Society of London,' giving the scientific name, the trivial or popular name, the habitat, and the date and mode of acquisition of each. Further editions, with the additions of animals which had been received since, were published in 1863, 1865, 1867, 1872, 1877, 1879, 1880, 1883 and 1896. Much of the space in these volumes was occupied by lists of actual individuals, with the dates of their arrival, matters only of interest in exceptional cases. In the Annual Report for each year there was a printed list of the species new to the Collection exhibited in the year to which the Report referred, and a manuscript catalogue was kept up to date in the Office. Since 1896, however, the cost of printing another edition in the same form has been judged too great for the value of the volume. In connection with the Centenary, however, I obtained sanction for the preparation and publication of a new Vertebrate List on a larger scale. It contains, so far as it has been possible to ascertain them, the names of every vertebrate animal exhibited by the Society alive from 1828 to 1927. Without doubt this covers a large proportion of the species that are likely to be exhibited in captivity. With the object of making it of more than historical value, certain new features have been incorporated. For each species the correct scientific name, according to the accepted rules of

nomenclature, is given, and to this are added the various synonyms or other scientific names that have been given to it. Unfortunately there is no absolute finality in these names, as a number of diligent persons think that they are adding to scientific knowledge by discovering in some hitherto overlooked memoir a name which has priority, according to the rules, over that now in use. But their efforts tend now to be regarded with disfavour rather than approbation, and there is some hope that they may be arrested. Possibly the new Vertebrate List may come to be accepted as final, at least for the animals mentioned in it. In addition to the scientific name, or names, popular, local, or trade names are given, and a reference to the original scientific description and, where possible, to a figure and popular description.

It was necessary that these Lists should be prepared by competent specialists acquainted not only with the animals, but with the methods and history of scientific nomenclature. I have been fortunate in obtaining the services of Fellows of the Society well equipped for the purpose. Major Stanley Smyth Flower, formerly Director of the Zoological Gardens at Giza, Cairo, the son of a former President of the Society, and himself a Vice-President, has prepared the Lists of Mammals and Reptiles; Dr. George Carmichael Low, one of the best known of the amateur ornithologists in this country, that of Birds; Dr. Malcolm Arthur Smith, who, during a long residence in the East, has studied Amphibia in particular, and is now devoting himself entirely to work on that group, has prepared the Amphibia; and Mr. Edward George Boulenger, Director of our Aquarium, with the kind assistance of Mr. John Roxborough Norman, of the British Museum (Natural History), the Fishes.

The number of species of Mammals dealt with is 949; of Birds, 2330; of Reptiles, 736; of Amphibians, 158; and of Fishes, 280. Partly for convenience, and partly because of the amount of matter to be covered, the List is being published in three volumes: I. Mammals, II. Birds, and III. Reptiles, Amphibia and Fishes. They have been prepared on the same system, the details having been arranged by the experts in consultation with me, and we hope that they will be not merely a record of historical interest, but of real service to Zoological Gardens and those who are interested in living animals.

P. CHALMERS MITCHELL,
*Secretary Zool. Soc. Lond.*



OGICAL G...DEN
CALCUTTA.

# INTRODUCTION.

A LIST of live animals extending over a century is very different from a catalogue of specimens in a Museum.

The Museum specimens, whether collected in 1828 or 1928, can be compared and divided into varieties, geographical races, etc.

Only a very small percentage of the animals that have died in a Zoological Garden are available for modern systematic examination.

To attempt to place animals that one has never seen, and of doubtful origin, into subspecies could but lead to confusion. Except in cases of obvious error, the contemporary identifications of the animals by the officials of the Society must be accepted. Fortunately these officials have been very conscientious, and in the earlier days were not ashamed to enter arrivals under such headings as :—

"1832, May 30. A small animal name not known."

The manuscript Daily Occurrence Sheets of the Society commence 25th Feb. 1828, and, with the exception of two days, 1st and 2nd Jan. 1833, are complete for the century, and form the basis of this present List, the information being checked and supplemented by the Society's published Lists of Animals, Annual Reports, Guides, Proceedings and Transactions.

This work has been made easier by a form of personal continuity of knowledge of the Menagerie extending over the century, as it was the late Mr. Benjamin Misselbrook

who, as a boy, joined the staff in 1828, and was Head Keeper from 1869 to 1889, to whom the present writer is indebted for much of his knowledge of animal management in general and of the Society's Collection in particular.

Many individual animals which have lived in the Society's Gardens during the century have been described as new species or subspecies in the Proceedings and other scientific publications. An endeavour has been made to mention all these types in this present list.

S. S. FLOWER.

## CORRIGENDA.

Pp. 31, 32:

**Aotes** should be substituted for **Aotus** three times on p. 31, twice on p. 32.

Genus **Aotes** Humboldt, in Humboldt et Bonpland, Voyage, **2**, 5/6 Livraison, p. 409, 1809.

N.B.—In the "1811" edition Humboldt uses **Aotes** on p. 306 and **Aotus** Illiger on p. 358.

Pp. 91, 100, 101:

**Galidictis** should be substituted for **Galictis** once on p. 91, twice on p. 100 and once on p. 101.

**Galictis** T. Bell, Zool. J. **2** (8) p. 551, 1826, for a different animal, invalidates **Galictis** I. Geoffroy 1837.

The name to be used for this genus is

**Galidictis** I. Geoffroy, Mag. Zool. (2) **1**, text to pl. xi. 3, 1839. *v.* Sherborn, Index Anim. **2**, 11, p. 2626, 1926.

P. 100, line 14, *for* "184" *read* 1884.

P. 249, **636**, line 8, *for* "1959" *read* 1859.

# LIST OF ANIMALS.

## Class MAMMALIA.

The recent existing Mammals may, for practical convenience, be divided into twenty-one Orders :—


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| 1. Primates | 1 |
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| 3. Lipotyphla | 62 |
| 4. Chrysochloridea | 68 |
| 5. Dermoptera | 68 |
| 6. Chiroptera | 69 |
| 7. Carnivora | 78 |
| 8. Pinnipedia | 153 |
| 9. Cetacea | 159 |
| 10. Rodentia | 160 |
| 11. Lagomorpha | 239 |
| 12. Proboscidea | 245 |
| 13. Hyracoidea | 247 |
| 14. Perissodactyla | 248 |
| 15. Artiodactyla | 257 |
| 16. Sirenia | 339 |
| 17. Tubulidentata | 340 |
| 18. Pholidota | 340 |
| 19. Xenarthra | 342 |
| 20. Marsupialia | 349 |
| 21. Monotremata | 380 |


## Order I. PRIMATES.

Families : (Not including HOMINIDAE.)


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| 1. Pongidae | 2 |
| 2. Hylobatidae | 4 |
| 3. Cercopithecidae | 6 |
| 4. Cebidae | 31 |
| 5. Hapalidae | 45 |
| 6. Indrisidae | 50 |
| 7. Lemuridae | 51 |
| 8. Lorisidae | 56 |
| 9. Galagidae | 58 |
| 10. Daubentoniidae | 60 |
| 11. Tarsiidae (not yet in Gardens) | — |

## Family PONGIDAE.

(= part SIMIIDAE of many authors.)

Genera:


| | | Page |
|---|---|---|
| 1. | *Gorilla* | 2 |
| 2. | *Pan* | 2 |
| 3. | *Pongo* | 4 |


### Genus **Gorilla** I. Geoffroy, C. R. Acad. Sci. Paris, **34**, p. 84, 1852.

Species:


| | | Page |
|---|---|---|
| 1. | *gorilla* | 2 |


1. *Gorilla gorilla* (Savage & Wyman), J. Boston Soc. Nat. Hist. (2) **5**, p. 417, 1847.

*Anthropopithecus gorilla.*

Gorilla.

*Hab.* Tropical Africa, from the Cameroons and the Congo on the west to parts of central Africa.

*Figs.* P. Z. S. 1896, p. 505: ♀ juv. head and shoulders, uncoloured. H. O. Forbes, Primates, **2**, 1894, pl. 28*.

The first Gorilla believed to have been brought alive to Europe was a young female, imported in 1855 by Mr. Hulse: it lived for some months in Wombwell's Menagerie. The first in the Gardens was a young male, purchased 10 Oct. 1887, from Mr. Cross.

### Genus **Pan** Oken, Lehrb. Naturges. **3**, pt. 2, pp. xi, 1230, 1816.

Species:


| | | Page |
|---|---|---|
| 1. | *satyrus* | 3 |
| 2. | *calvus* | 3 |
| 3. | *schweinfurthii* | 3 |


* References to figures are illustrations of the whole animal coloured, unless otherwise stated.

2. *Pan satyrus* (Linnaeus), Syst. Nat. **1**, p. 25, 1758.

*Anthropopithecus troglodytes.*

Chimpanzee.

*Hab.* Western Tropical Africa, from Gambia to Congo-land.

*Fig.* Wolf, Zool. Sketches, 1861, fig. 1.

A young male, received 11 Oct. 1835, was the first Chimpanzee exhibited alive in the Gardens: it died 25 March, 1836. £300 was paid for a specimen received 10 May, 1845: it died 29 Dec. 1845.

*Synonymy.* The common West African Chimpanzee has been called *Simia pygmaeus* Schreber 1796, *cp.* Rothschild, P. Z. S. 1904, **2**, p. 430.

Stiles and Orleman, Hygienic Lab. Bull. No. 145, Washington 1927, do not accept Oken 1816 as an authority, and so discard *Pan* and use *Chimpansee* Voigt 1831, calling this species *Chimpansee chimpanse* (Mayer) 1856.

3. *Pan calvus* (Du Chaillu), Proc. Boston Soc. Nat. Hist. **7**, p. 296, 1860. *v.* Elliot, Primates, **3**, p. 234, 1913.

*Anthropopithecus calvus.*

Bald-headed Chimpanzee.

*Hab.* West Africa: Gaboon.

*Figs.* P. Z. S. 1885, pl. 41: head and shoulders, coloured. H. O. Forbes, Primates, **2**, 1894, pl. 29. Elliot, Primates, **3**, 1913, pl. 7: photograph.

First received a young female, "Sally," purchased 24 Oct. 1883.

*Synonymy.* The Bald-headed Chimpanzee has been called *Simia satyrus satyrus* Linnæus 1758, *cp.* Rothschild, P. Z. S. 1904, **2**, p. 430.

4. *Pan schweinfurthii* (Giglioli), Ann. Mus. Civ. Stor. Nat. Genova, **3**, p. 114 (footnote) and p. 135, 1872.

*Anthropopithecus schweinfurthi.*

Schweinfurth's Chimpanzee.

*Hab.* North central Tropical Africa: Niam-niam country, Belgian Congo, Uganda, and western borders of East Africa.

*Figs.* J. A. Allen, Bull. Amer. Mus. Nat. Hist. New York, **47**, 1925, pls. 152–165 : photographs.

A pair from the Bagoma Forest, Uganda, were presented 7 Nov. 1904, by Mr. S. C. Tomkins, C.M.G.

Genus **Pongo** Lacépède, Tabl. Mamm. p. 4, 1799.

Species :

Page
1. *pygmaeus* ..... 4

5. *Pongo pygmaeus* (Hoppius), Amoenit. Acad. p. 68, 1763. *v.* Elliot, Primates, **3**, p. 192, 1913.

*Simia satyrus.*

Orang Utan, or Mias.

*Hab.* Borneo and Sumatra.

*Figs.* Temminck, Mon. Mamm. **2**, 1835–1841, pls. 41, 42 & 70, uncoloured. H. O. Forbes, Primates, **2**, 1894, pl. 27. Elliot, Primates, **3**, 1913, pl. 5 : photographs.

A young male was presented in 1830 by Mr. G. Swinton, it lived for two days only in the Society's house in Bruton Street. The first to be exhibited in the Gardens was a female, purchased 25 Nov. 1837 for £105 from Mr. Moss : it died 28 May, 1839. A male from Sarawak, presented 15 April, 1891, was referred to *Simia morio* Owen.

## Family HYLOBATIDAE.

Genera :

Page
1. *Hylobates* ..... 4
2. *Symphalangus* ..... 6

Genus **Hylobates** Illiger, Prodr. Syst. Mamm. p. 67, 1811.

Species :

Page
1. *lar* ..... 5
2. *hoolock* ..... 5
3. *concolor* ..... 5

6. *Hylobates lar* (Linnaeus), Mantissa Plant. Regn. Anim. Append., p. 521, 1771.

Lar Gibbon. Waawaa (in Malaya). Chanee (in Siam).

*Hab.* South-east Asia: Tenasserim, Siam, Malay Peninsula, Sumatra, Java and Borneo. For the local races of Gibbons *v.* Pocock, P. Z. S. 1927, pp. 719–741.

*Figs.* P. Z. S. 1861, pl. 21, as *H. pileatus*; 1870, pl. 5, fig. 1. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 3, as *H. leuciscus.*

A Gibbon was presented 29 Oct. 1828 by Mr. Vincetet, and two more were received during 1829; we do not know to what species these belonged.

Before 29 April, 1831, two forms of the Lar Gibbon had been identified as living in the Gardens—*H. leuciscus* (Schreber) 1775 and *H. agilis* F. Cuvier 1821.

A pair presented 17 Nov. 1869 by Mr. G. S. Rodon, 1st Royals, represented the typical *H. lar.* A female deposited 4 May, 1871, was referred to *H. variegatus* (E. Geoffroy) 1812. One purchased 1 Jan. 1885 was called *H. pileatus* J. E. Gray 1861, and a female from Borneo, presented 25 April, 1893, by Mr. L. P. Beaufort, *H. muelleri* Martin 1841.

7. *Hylobates hoolock* (Harlan), Trans. Amer. Phil. Soc. Philad. (n. s.) **4**, p. 52, 1834.

Hoolock Gibbon.

*Hab.* Assam, and hill ranges of Burma.

*Figs.* P. Z. S. 1870, pl. 5, fig. 2. Elliot, Primates, **3**, 1913, pl. 4: photograph.

First received in 1839 or early in 1840; entered as *Hylobates scyrites* Ogilby.

8. *Hylobates concolor* Harlan, J. Acad. Nat. Sci. Philad. **5**, pt. 2, p. 231, 1837. *v.* Pocock, Proc. Zool. Soc. London, 1927, p. 736.

Concolor Gibbon.

*Hab.* Indo-China: Siam, Laos States, Annam, Tonkin, Hainan.

*Figs.* P. Z. S. 1877, pl. 70, as *H. leucogenys*; 1905, **2**, pl. 5, as *H. hainanus.*

*Hylobates leucogenys* Ogilby, P. Z. S. 1840, p. 20, was described from a young male, presented by Mr. J. Abel Smith, which lived "some months" in the Gardens and had "recently died," 25 Feb. 1840. A Gibbon presented 26 July, 1892, by Mr. J. Neumann was the first representative of *H. hainanus* Thomas, Ann. Mag. Nat. Hist. (6) **9**, p. 145, 1892.

Genus **Symphalangus** Gloger, Hand. u. Hilfsb. Naturgesch. **1**, pp. xxvii, 34, 1841, 1842.

Species :

Page
1. *syndactylus* ..... 6

9. *Symphalangus syndactylus* (Desmarest), Mamm. p. 531, 1820.

Siamang.

*Hab.* Malay Peninsula and Sumatra.

*Figs.* H. O. Forbes, Primates, **2**, 1894, pl. 26. Elliot, Primates, **3**, 1913, pl. 4 : photograph.

The first Siamang to reach Europe alive was a young male, presented 17 Oct. 1898 by Lieut. S. S. Flower, 5th Fusiliers.

## Family CERCOPITHECIDAE.

Genera :

Page
1. *Pithecus* ..... 6
2. *Nasalis* ..... 9
3. *Colobus* ..... 9
4. *Cercopithecus* ..... 10
5. *Erythrocebus* ..... 19
6. *Cercocebus* ..... 20
7. *Macaca* ..... 22
8. *Cynopithecus* ..... 28
9. *Theropithecus* ..... 28
10. *Papio* ..... 29
11. *Mandrillus* ..... 30

Genus **Pithecus** E. Geoffroy & G. Cuvier, Mag. Encyclop. Paris (1) **3**, p. 462, 1795.

Species :

Page
1. *aygula* ..... 7
2. *entellus* ..... 7
3. *senex* ..... 7
4. *obscurus* ..... 8
5. *pyrrhus* ..... 8
6. *melalophus* ..... 8

10. *Pithecus aygula* (Linnaeus), Syst. Nat. 1, p. 27, 1758.

*Semnopithecus mitratus. S. pileatus* *.

Mitred Monkey. Capped Langur.

*Hab.* South-east Asia : typically from Java, found in various parts of Burma, Assam, and the Malay Peninsula.

*Fig.* Blanford, Fauna Brit. Ind., Mamm. 1888, p. 37, fig. 9 : head only, uncoloured.

Appears to have been first received in, or before, May, 1837. Three presented 22 May, 1922, by the Prince of Wales, were referred to *Presbytes siamensis*. Three born in the Gardens on 7 April, 1912, 27 Sept. 1913 and i[illegible]915, respectively.

11. *Pithecus entellus* (Dufresne), Bul. Soc. philom. Paris, 1, p. 49, 1797.

*Semnopithecus entellus.*

Langur. Entellus Monkey. Hanuman Monkey.

*Hab.* India : the typical form in central and northern India, represented in the Himalayas by *P. e. schistaceus* (Hodgson) 1841, in Madras by *P. e. priam* or *priamus* (Blyth) 1844, and on the Malabar coast by *P. e. hypoleucus* (Blyth) 1841. *Pallipes* Blyth 1844 is a *nom. nud.*

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1, 1820, pl. 10, 1825, pl. 11. J. Bombay Nat. Hist. Soc. 32, 1928, pl. 11 : uncoloured.

First received 26 Oct. 1830, when one was presented by Capt. Fayrer : it died 5 Dec. 1830. The Madras and Malabar forms have from time to time been represented in the Gardens, as well as the commoner, or typical, form.

12. *Pithecus senex* (Erxleben), Syst. Reg. Anim. p. 24, 1777.

*Semnopithecus cephalopterus* List, ed. 9, 1896, p. 4.

Budong Monkey. Purple-faced Langur.

*Hab.* Ceylon, with a form in southern India—*Pithecus johnii* (Fischer) 1829.

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* Pocock, J. Bombay Nat. Hist. Soc. 32, 1928, p. 660, considers *P. pileatus* (Blyth) 1843 a separate species from *P. aygula*.

*Figs.* Elliot, Primates, **3**, 1913, pl. 2 : photograph, as *Pygathrix cephaloptera*.

First received in 1852. A white individual was deposited 12 Jan. 1923.

13. *Pithecus obscurus* (Reid), Proc. Zool. Soc. London, 1837, p. 14.

*Semnopithecus obscurus*.

Dusky Langur. Dusky Leaf-Monkey. Lutong (in Malay).

*Hab.* South-east Asia : Tenasserim, Siam and Malay Peninsula.

*Fig.* Wagner, Schreber, Saügth. Suppl. **5**, 1855, pl. 2.

One purchased 26 Jan. 1874.

14. *Pithecus pyrrhus* (Horsfield), Zool. Res. Java, text to pl. 3, 1824.

*Semnopithecus maurus* List, ed. 9, 1896, p. 5.

Moor Langur.

*Hab.* Java.

*Figs.* Horsfield, *l. c. s.* pl. 3. S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez., Zoogd. 1839–1844, pl. 12, bis, fig. 3 : head only, uncoloured.

First received between 29 April, 1840, and 29 April, 1841.

N.B.—*Pygathrix aurata* (E. Geoffroy) 1812, is the name for this species according to Elliot, Primates, **3**, p. 75, 1913.

15. *Pithecus melalophus* (Raffles), Trans. Linn. Soc. London, **13**, p. 244, 1821.

*Semnopithecus melalophus*.

Simpai Langur. Black-crested Langur.

*Hab.* Sumatra.

*Figs.* Lesson, Centurie Zool. 1830, pl. 40, as *Semnopithecus flavimanus*. S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. 1839–1844, pl. 12, bis, fig. 2 : head only, uncoloured.

One deposited 1 Nov. 1901.

Synonym. *Semnopithecus melanolophus*.

Genus **Nasalis** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 90, 1812.

Species :

Page
1. *larvatus* ..... 9

16. *Nasalis larvatus* (Wurmb), Verhand. Batav. Genootsch. **3**, p. 145, 1781.

Proboscis Monkey.

*Hab.* Borneo.

*Figs.* P. Z. S. 1902, **2**, pl. 18. Fitzinger, Bild.-Atlas, Säugth, 1860, fig. 4.

The first received was a young male purchased 30 June, 1902 : it died 6 Sept. 1902.

Genus **Colobus** Illiger, Prodr. Syst. Mamm. p. 69, 1811.

Species :

Page
1. *polykomos* ..... 9
2. *abyssinicus* ..... 9
3. *badius* ..... 10

17. *Colobus polykomos* (Zimmermann), Geogr. Gesch. **2**, p. 202, 1780.

*Colobus polycomus.*

King Colobus Monkey.

*Hab.* West Africa : Senegambia to the Gaboon, various local races. *C. p. polykomos* occurs in Sierra Leone and Liberia, *C. vellerosus* I. Geoffroy 1834 in the Gold Coast.

*Figs.* Rochebrune, Faun. Sénégamb. Mamm. Suppl. 1886–1887, pl. 8, as *C. ursinus* ; pl. 10, as *C. vellerosus.* P. Z. S. 1905, **2**, p. 328, text-fig. 58, *C. vellerosus* : uncoloured.

First received in, or shortly before, 1841. One purchased 28 March, 1873, was the first exhibited of the White-thighed Colobus, *C. polykomos vellerosus.*

18. *Colobus abyssinicus* (Oken), Lehrb. Naturges. **3**, pt. 2, p. 1182, 1816.

*Colobus guereza.*

Guereza Monkey.

*Hab.* Tropical Africa : in suitable forests from Nigeria and the lower Congo on the west, to Kenia and Kilimanjaro on the east, and north to the Bahr el Ghazal and Abyssinia ; several local races occur.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 6. P. Z. S. 1885, pl. 12, *Colobus guereza caudatus.* Rochebrune, Faun. Sénegamb. Mamm. Suppl. 1886–1887, pls. 11, 12 & 13, as *Guereza rüppelli*, *G. caudatus* and *G. occidentalis.*

The first Guereza received was one presented 2 Sept. 1898 by Mr. Justice Kelly : it was from Nigeria and was referred to *C. a. occidentalis* (Rochebrune) 1887. One received 2 July, 1904, was apparently of the typical Abyssinian form. One presented 3 Nov. 1905 was referred to *C. a. matschiei* Neumann 1899. A male from Mt. Kenia, presented 3 Nov. 1913 by Mr. G. St. Orde-Brown, represented *C. a. caudatus* Thomas 1885. A pair from Ikotos, Lotaka District, Mongalla Province, Sudan, presented in 1920 by Capt. W. R. Barker, D.C.L.I., may be called *C. a. gallarum* Neumann 1902.

19. *Colobus badius* (Kerr), Anim. Kingd. p. 74, 1792.

*Colobus ferrugineus.*

Bay Colobus Monkey.

*Hab.* West Africa : Sierra Leone and eastward.

*Fig.* P. Z. S. 1890, pl. 48.

A female, purchased 16 Oct. 1890, lived for a few days only.

## Genus **Cercopithecus** Linnaeus,

Syst. Nat. **1**, p. 26, 1758. v. Stiles & Orleman, J. Mammalogy, Baltimore, **7**, pp. 48–53, 1926.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *diana* | 11 | 12. *erythrotis* | 16 |
| 2. *brazzae* | 11 | 13. *sclateri* | 16 |
| 3. *leucampyx* | 11 | 14. *aethiops* | 17 |
| 4. *albogularis* | 12 | 15. *sabaeus* | 17 |
| 5. *preussi* | 13 | 16. *tantalus* | 17 |
| 6. *mona* | 13 | 17. *cynosurus* | 18 |
| 7. *grayi* | 14 | 18. *pygerythrus* | 18 |
| 8. *Thoesti* | 14 | 19. *nigroviridis* | 18 |
| 9. *nictitans* | 14 | 20. *hamlyni* | 19 |
| 10. *ascanius* | 15 | 21. *talapoin* | 19 |
| 11. *cephus* | 16 | | |

20. *Cercopithecus diana* (Linnaeus), Syst. Nat. **1**, p. 26, 1758.

*Cercopithecus ignitus* List, ed. 9, 1896, p. 14.

Diana Monkey.

*Hab.* West Africa: the typical short-bearded bay-thighed form from Liberia, the longer-bearded lighter-thighed form from the Gold Coast country. The latter has been called *C. roloway* (Schreber) 1774.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 7. P. Z. S. 1907, pl 41, fig. 1, *diana*: head only, uncoloured; p. 683, text-fig. 179, *roloway*: photograph.

First received in 1829.

21. *Cercopithecus brazzae* Rivière 1886, Rev. Sci (3) 12, 3 July p. 15. *v.* J. A. Allen, Bull. Amer. Mus. Nat. Hist. **47**, 1925, pp. 380–387.

Brazza's Monkey.

*Hab.* Tropical Africa: French and Belgian Congo.

*Figs.* P. Z. S. 1893, pl. 33 (colour criticized by some authors); 1907, p. 686, text-fig. 181: photograph; 1908, pl. 10, fig. 2: immature.

One purchased 17 July, 1896, from the Antwerp Z. G., was the first received. It was later made the type of *C. neglectus brazziformis* Pocock, P. Z. S. 1907, p. 687. One purchased before 18 Feb. 1908, from Mr. F. C. Thorpe of Hull, was the type of *C. ezrae* Pocock, P. Z. S. 1908, p. 158.

*Synonym.* Some authors have considered this species to be the same as *C. neglectus* Schlegel 1876.

22. *Cercopithecus leucampyx* (J. B. Fischer), Synop. Mamm. p. 20, 1830.

*Cercopithecus pluto. C. otoleucus.*

Diadem Monkey. Pluto Monkey.

*Hab.* Tropical Africa: from Angola and the Belgian Congo to Uganda and southern Abyssinia.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 2, as *C. stangeri*. P. Z. S. 1848, Mamm. pl. 3, as *C. pluto*; 1848, p. 57 (uncoloured): type of *C. pluto*; 1902, **1**, pl. 25: type of *C. otoleucus*; 1907, pl. 34, fig. 1 (head only); pl. 39, fig. 2 (head only).

*C. pluto* was described by J. E. Gray, 9 May, 1848, from a specimen then "recently received in the Society's Menagerie." *C. stangeri* was a specimen presented by Dr. Stanger in 1851. *C. otoleucus* was described by P. L. Sclater from one presented 1 March, 1902, by Major C. Delmé-Radcliffe, which Pocock, P. Z. S. 1907, p. 690, identified as *C. leucampyx stuhlmanni* Matschie 1893. A female monkey that lived in the Gardens is "the type, and only known representative" of *C. leucampyx nigrigenis* Pocock, P. Z. S. 1907, p. 692.

Schwarz, Sitz. ber. Gesell. naturforsch. Freunde, Berlin, 9 Feb. 1926, pp. 31–33, considers that *C. leucampyx* and *C. albogularis* should be united as one species, under the older name of *leucampyx*.

23. *Cercopithecus albogularis* (Sykes), Proc. Zool. Soc. London, 1831, p. 106.

*Cercopithecus albigularis.*

Sykes' Monkey.

*Hab.* East Africa: Zambesi-land to the Juba and inland to eastern Belgian Congo. Several local races, those of the mountain forests being of particular interest.

*Figs.* Frazer, Zool. Typ. 1849, pl. 2. P. Z. S. 1892, pl. 40, as *C. stairsi*, an erythristic individual.

The type was obtained in Bombay by Major W. H Sykes, C.M.Z.S., who presented it alive to the Society, *circa* 15 June, 1831. It died 25 Jan. 1832.

The other named forms of this species that have been in the Gardens, in alphabetical order, are :—

*a. albotorquatus* Pousargues 1896 ; see Pocock, P. Z. S. 1907, p. 702, pl. 39, fig. 4.

*b. kandti* Matschie 1905 ; a female presented 7 March, 1913.

*c. kolbi* O. Neumann 1902 ; see Pocock, P. Z. S. 1907, p. 703.

*d. labiatus* I. Geoffroy 1842, or *samango* Sundevall 1844; the race from southern East Africa, a male presented 13 Nov. 1888.

*e. mossambicus* Pocock 1907; the type was presented 7 June, 1893.

*f. rufotinctus* Pocock 1907; the type was presented 20 Sept. 1895. Appears to be a synonym of *albotorquatus*.

*g. stairsi* P. L. Sclater 1892; the type was presented 11 Oct. 1892 by Dr. J. A. Moloney, a member of the expedition under the leadership of the late Lieut. W. Grant Stairs, R.E.

24. *Cercopithecus preussi* Matschie, Sitz. Ber. Ges. naturf. Fr. Berlin, 1898, p. 76. *v.* Pocock, Proc. Zool. Soc. London, 1907, p. 706 *.

*Cercopithecus crossi* H. O. Forbes, Nature, London, **72**, p. 630, 1905.

Preuss's Monkey. Cross's Monkey.

*Hab.* West Africa: Cameroons and Fernando Po.

*Fig.*

One deposited 29 Dec. 1905.

25. *Cercopithecus mona* (Schreber), Säugth. **1**, p. 95. 1775.

Mona Monkey.

*Hab.* West Africa: Nigeria and Cameroons. Introduced into some of the West Indian Islands, where it is established in St. Kitt's and Grenada. Allied forms extend the range of the species—westward *campbelli* and *burnetti* to the Gold Coast and Sierra Leone—eastward *wolfi* and *denti* to the Belgian Congo.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1819, livr. 19. P.Z.S. 1907, p. 709, text-fig. 184: photograph, *mona*. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 8, *mona*. P.Z.S. 1894, pl. 7, *C. wolfi*; 1907, pl. 1, *C. denti*. Frazer, Zool. Typ. 1849, pl. 3, *C. campbelli*. P.Z.S. 1907, pl. 40, figs. 1 & 2: heads only, uncoloured, *campbelli* and *burnetti*.

First received in 1828 or 1829.

* *C. preussi* is considered a subspecies of our 27. *C. thoesti* by Schwarz, Ann. Mag. Nat. Hist. (10) **1**, June 1928, p. 658.

The western forms, *C. campbelli* G. R. Waterhouse 1838 and *C. burnetti* J. E. Gray 1842, appear to have been living in the Gardens in 1844. The first example of *C. wolfi* A. B. Meyer 1890 was one deposited by the Hon. Walter Rothschild, 5 Sept. 1904. One, *C. denti* Thomas 1907, was received in exchange 19 June, 1908.

26. *Cercopithecus grayi* Fraser, Cat. Knowsley Coll. p. 8, 1850. *v.* Pocock, Proc. Zool. Soc. London, 1907, p. 712 *.

*Cercopithecus erxlebeni.*

Gray's Monkey. Erxleben's Monkey.

*Hab.* West Africa : Cameroons to Congo.

*Fig.* Dahlbaum, Stud. Zool. 1856, **1**, pl. 5, fig. 12, as *C. erxlebeni.*

One purchased 17 Dec. 1870. One from the Gaboon, deposited 15 Oct. 1904, was referred to *Cercopithecus nigripes* Du Chaillu 1860, apparently a form of this species.

27. *Cercopithecus l'hoesti* P. L. Sclater, Proc. Zool. Soc. London, 1898, p. 586.

L'hoest's Monkey.

*Hab.* Tropical Africa : Congoland.

*Figs.* P. Z. S. 1898, pl. 48 ; 1907, pl. 41, fig. 2 : head only, uncoloured.

The type was a female, received 2 July, 1898, in exchange from the Antwerp Z. G., and named after Monsieur L'hoest, then Director of the Antwerp Z. G.

28. *Cercopithecus nictitans* (Linnaeus), Syst. Nat. **1**, p. 40, 1766.

Including *Cercopithecus petaurista, C. martini* and *C. erythrogaster* List, ed. 9, 1896, pp. 5–7.

White-nosed Monkey. Putty-nosed Monkey. Hocheur Monkey.

*Hab.* West Africa : Liberia to the Congo.

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* *C. grayi* united as one species with *C. mona*, under the older name of *mona*, by Schwartz, Ann. Mag. Nat. Hist. (10), 1928, p. 657.

*Figs.* P. Z. S. 1849, pl. 9, fig. 2, as *C. ludio*; 1866, pl. 16, as *C. erythrogaster*; 1884, pl. 14, as *C. martini*; 1907, p. 697, text-fig. 183: photograph; 1907, pl. 39, fig. 5; pl. 40, figs. 3 & 6; pl. 41, fig. 4: heads only, uncoloured.

First received about 1829, the White-nosed Monkeys were called *C. petaurista* (Schreber) 1775, till in Oct. 1862, one was referred to *C. nictitans* (Linnaeus) 1766. A female purchased 16 March, 1866, which lived in the Gardens for about two months, was the type of *C. erythrogaster* J. E. Gray, P. Z. S. 1866, p. 168. One purchased 26 May, 1868, appears to have represented both *C. martini* G. R. Waterhouse, P. Z. S. 1838, p. 58, and *C. ludio* J. E. Gray 1849, p. 8. A female purchased 19 Feb. 1884, which died 6 April, 1894, was identified by Pocock, P. Z. S. 1907, p. 721, as *C. signatus* Jentink, Notes Leyden Mus. **8**, p. 55, 1886. Finally, three deposited 17 March, 1905, became (*v.* Pocock, P. Z. S. 1907, p. 718) *C. petaurista buttikoferi* Jentink, Notes Leyden Mus. **8**, p. 56, 1886.

29. *Cercopithecus ascanius* (Audebert), Hist. Nat. Singes, Fam. 4, sect. 2, p. 21, 1799.

*Cercopithecus melanogenys* J. E. Gray 1845.

Alternative name *Cercopithecus nictitans ascanius*.

Blacked-cheeked White-nosed Monkey.

*Hab.* West Africa: Congo, Angola.

*Figs.* Audebert *l. c. s.* pl. 13. F. Cuvier, Hist. Nat. Mamm. 1820, livr. 14. P. Z. S. 1849, Mamm. pl. 9, fig. 1, as *C. melanogenys*; 1907, p. 719, text-fig. 186: photograph; pl. 40, fig. 5: head only, uncoloured.

The first definite record of this monkey living in the Gardens is of a male presented 14 Aug. 1900 by Mr. F. J. Sparrow.

29A. *Cercopithecus ascanius schmidti* Matschie, Zool. Anz. **15**, No. 390, p. 161, 1892.

Alternative name *Cercopithecus nictitans schmidti*.

Schmidt's White-nosed Monkey.

*Hab.* Tropical Africa: Uganda, Upper Congo.

*Fig.* P. Z. S. 1893, pl. 16.

A male, presented 9 Dec. 1883 by the Rev. W. C. Willoughby, and then called *C. petaurista*, was the first *C. schmidti* in the Gardens.

This monkey is named after Dr. Rochus Schmidt.

30. *Cercopithecus cephus* (Linnaeus), Syst. Nat. **1**, p. 27, 1758.

Moustached White-nosed Monkey.

*Hab.* West Africa : from the right bank of the Lower Congo, through the Gaboon country to Spanish Guinea.

*Figs.* F. Cuvier, Hist. Nat. Mamm. **1**, 1821, pl. 19. P. Z. S. 1907, p. 723, text-fig. 187 : photograph. J. A. Allen, Bull. Amer. Mus. Nat. Hist. **47**, 1925, pl. 99 : photographs of head.

First received before 28 Nov. 1830.

N.B.—*Cercopithecus cephus cephodes* Pocock, P. Z. S. 1907, p. 724, a female from the Gaboon, living in the Gardens 19 Aug. 1887 (?) to Jan. 1893 (?), distinguished from typical *cephus* by the tail being greyer and the hair on the ears yellower.

31. *Cercopithecus erythrotis* G. R. Waterhouse, Proc. Zool. Soc. London, 1838, p. 59.

Alternative name *Cercopithecus cephus erythrotis*.

Red-eared Monkey.

*Hab.* West Africa : Fernando Po and Cameroons.

*Figs.* Fraser, Zool. Typ. 1849, pl. 4. P. Z. S. 1907, pl. 41, fig. 5 : head only, uncoloured.

One purchased in Oct. 1862.

32. *Cercopithecus sclateri* Pocock, Proc. Zool. Soc. London, 1904, Abstract No. 5, p. 18, and **1**, p. 433.

Alternative name *Cercopithecus cephus sclateri*.

Sclater's Spot-nosed Monkey.

*Hab.* West Africa : Benin.

*Fig.* P. Z. S. 1904, p. 434, text-fig. 87 : head only, uncoloured.

A young male, the type of the species, was deposited 12 July, 1902, and died 8 Aug. 1902. Named after the late Dr. P. L. Sclater. Perhaps a synonym of *C. erythrotis*. *v.* Schwarz, Ann. Mag. Nat. Hist. (10) **1**, 1928, p. 662.

33. *Cercopithecus aethiops* Linnaeus, Syst. Nat, **1**, p. 28, 1758.

*Cercopithecus griseo-viridis.*

Grivet Monkey.

*Hab.* North-east Africa: Sudan and Abyssinia, between 10° and 20° N. latitude.

*Figs.* F. Cuvier, Hist. Nat. Mamm. **1**, 1819, pl. 22. P. Z. S. 1907, p. 728, text-fig. 188: photograph.

One presented 21 April, 1853, by the Hon. Charles A. Murray.

N.B.—*C. hilgerti* and *C. ellenbecki*, both of O. Neumann 1902, are closely allied forms from southern Abyssinia.

34. *Cercopithecus sabaeus* (Linnaeus), Syst. Nat. **1**, p. 38, 1766 *.

*Cercopithecus callitrichus.*

Green Monkey.

*Hab.* West Africa: Senegambia, Sierra Leone, Liberia, etc., introduced into some of the Cape Verde and West Indian Islands (where it is established in St. Kitt's and Barbados).

*Figs.* F. Cuvier, Hist. Nat. Mamm. **1**, 1819, pl. 21. P. Z. S. 1907, pl. 42, fig. 1: head only, uncoloured.

First received in 1830. Three from St. Kitt's, West Indies, were received 15 Jan. 1866. A female deposited 3 Jan. 1905, was referred to *Cercopithecus werneri* I. Geoffroy 1850.

Young born in the Gardens: one (dead) 31 Jan. 1835, one 22 Feb. 1890.

35. *Cercopithecus tantalus* Ogilby, Proc. Zool. Soc. London, 1841, p. 33.

Tantalus Monkey.

* *C. sabaeus, tantalus, cynosurus* and *pygerythrus* may be called subspecies of *C. aethiops*. *v.* Schwarz, Ann. Mag. Nat. Hist. (10) **1**, June, 1928, pp. 650–652.

*Hab.* West central Africa, north of the Equator, and Nigeria.

*Fig.* P. Z. S. 1907, p. 732, text-fig. 189 : photograph.

Described from a male of unknown origin, obtained in Liverpool, living in the Society's Gardens 13 April, 1841.

Synonymy. *C. passargei* Matschie 1897, *C. pousarguei* nom. nud. in Society's records, 1904.

36. *Cercopithecus cynosurus* (Scopoli), Delic. Faun. Flor. Insubr. p. 44, pl. 19, 1786.

Malbrook Monkey.

*Hab.* West Africa: Lower Congo and southward through parts of Angola.

*Figs.* F. Cuvier, Hist. Nat. Mamm. **1**, 1819, pl. 24. P. Z. S. 1907, p. 734, text-fig. 190: photograph ; pl. 42, fig. 3 : head only, uncoloured.

First received in 1831. A male which 24 Sept. 1833 "had been for some time living at the Society's Gardens" was the type of *Cercopithecus tephrops* E. T. Bennett, P. Z. S. 1833, p. 109.

37. *Cercopithecus pygerythrus* (F. Cuvier), Hist. Nat. Mamm. livr. 24, 1821.

*Cercopithecus lalandii.*

Vervet Monkey.

*Hab.* South and East Africa, with closely allied forms extending into east central Africa and north into the southern Sudan to about 5° N. latitude.

*Figs.* F. Cuvier, *l. c. s.* pl. P. Z. S. 1893, p. 615 : female and young, whole animals, uncoloured. P. Z. S. 1907, p. 736, text-fig. 191 : photograph ; pl. 42, fig. 4 : head only, uncoloured.

First received before 29 April, 1831. Individuals of this group in the Gardens have been referred to *C. centralis* O. Neumann 1900, *C. budgetti* and *C. johnstoni*, both of Pocock 1907.

Five born in the Gardens 1850–1893.

38. *Cercopithecus nigroviridis* Pocock, Proc. Zool. Soc. London, 1907, p. 739.

Alternative name *Allenopithecus nigroviridis.*

Dark-green Monkey. Allen's Baboon-like Monkey.

*Hab.* Central Africa: Upper Congo.

*Figs.* P. Z. S. 1907, pl. 42, fig. 5: head only, uncoloured; 1908, pl. 10, fig. 1.

A female deposited 29 Nov. 1892, which died 15 May, 1894, was the type of the species.

39. *Cercopithecus hamlyni* Pocock, Ann. Mag. Nat. Hist. (7) **20**, p. 521, 1907.

Hamlyn's Nose-marked Monkey or Owl-faced Monkey.

*Hab.* Tropical Africa: "Ituri Forest."

*Fig.* P. Z. S. 1908, pl. 10, fig. 3. Elliot, Primates, **2**, 1912, pl. 10: photograph.

The type, a young male, was deposited 5 Nov. 1907. "It died in 1909 while still young."

40. *Cercopithecus talapoin* (Schreber) Säugth. **1**, p. 101, pl. 17, 1774 or 1775.

Alternative name *Miopithecus talapoin*.

Talapoin Monkey.

*Hab.* Tropical Africa: Cameroons and Congo, extending east to Ruwenzori and south into Angola.

*Fig.* P. Z. S. 1907, pl. 42, fig. 6: head only, uncoloured.

First received in, or about, 1840.

Genus **Erythrocebus** Trouessart, Cat. Mamm. **1**, p. 19, "1896," 1898.

Species:


| | Page |
|---|---|
| 1. *patas* | 19 |
| 2. *pyrronotus* | 20 |


41. *Erythrocebus patas* (Schreber), Säugth. **1**, p. 98, 1775.

*Cercopithecus patas*.

Patas Monkey. Hussar-Monkey.

*Hab.* West Africa: Senegambia, extending westward with many local races to the Cameroons and probably lower Congoland.

*Fig.* F. Cuvier, Hist. Nat. Mamm. **1**, 1820, pl. 25. P. Z. S. 1907, p. 743, text-fig. 192: photograph; pl. 41, fig. 6: head only, uncoloured.

First received in 1829.

42. *Erythrocebus pyrronotus* (Hemprich & Ehrenberg), Verhandl. Ges. naturf. Fr. Berlin, **1**, p. 407, 1829.

*Cercopithecus pyrrhonotus.*

Dancing Red-Monkey. Hemprich's Hussar-Monkey.

*Hab.* East Africa: typically from Kordofan, with allied forms extending south and west to Uganda and upper Congoland.

*Fig.* Hemprich & Ehrenberg, Symb. Phys. 1832, pl. 10. Elliot, Primates, **3**, 1913, pl. 1: photograph.

A Monkey received 21 April, 1853, from the Hon. Charles A. Murray, *via* Egypt, would have been of this species, or of the Blue Nile Hussar, *E. poliophaeus* (Reichenbach) 1862 = *E. albigenus* Elliot 1909.

Genus **Cercocebus** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 97, 1812.

Species:


| | Page |
|---|---|
| 1. *fuliginosus* | 20 |
| 2. *collaris* | 21 |
| 3. *torquatus* | 21 |
| 4. *albigena* | 21 |
| 5. *aterrimus* | 21 |
| 6. *agilis* | 22 |


43. *Cercocebus fuliginosus* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 97, 1812 *.

Sooty Mangabey.

*Hab.* West Africa: Liberia and Sierra Leone.

*Fig.* Schreber, Säugth, pl. 20: as *Simia aethiops.*

First received in 1829 or 1830. An albino individual was deposited 30 Nov. 1926.

Young born in London Z. G.:—before 27 Nov. 1860 (P. Z. S. 1860, p. 422); one 5 June, 1912 (died same day).

* Should be called *Cercocebus torquatus atys* (Audebert), 1797, *fide* Schwarz, Ann. Mag. Nat. Hist. (10) **1**, June, 1928, p. 665.

44. *Cercocebus collaris* J. E. Gray, Brit. Mus. List. Mamm. p. 7, 1843 *.

White-collared Mangabey.

*Hab.* West Africa: Nigeria to the French Congo.

*Fig.* F. Cuvier, Hist. Nat. Mamm. **1**, 1821, pl. 28 (?).

Two received in exchange 16 Aug. 1864.

45. *Cercocebus torquatus* (Kerr), Anim. Kingd. p. 67, no. 39, 1792.

*Cercocebus aethiops* auctorum, nec *Simia aethiops* Linnaeus.

White-crowned Mangabey.

*Hab.* West Africa: Sierra Leone, Liberia and Gold Coast.

*Fig.*

First received in 1829 or 1830. One received in 1843 was referred to *Cercopithecus lunulatus* Kuhl.

46. *Cercocebus albigena* (J. E. Gray), Proc. Zool. Soc. London, 1850, p. 77.

Grey-cheeked Mangabey.

*Hab.* West and central Africa: from the Cameroons and Lower Congo to Uganda, Tanganyika and Mweru.

*Figs.* P. Z. S. 1850, Mamm. pl. 16, as *Presbytis albigena*. Novit. Zool. Tring. **8**, 1901, pl. 1, fig. 2, as *Semnocebus albigena rothschildi*. Ann. Mag. Nat. Hist. (7) **18**, 1906, pl. 11, as *Cercocebus jamrachi*: uncoloured.

One living in the Gardens shortly before 9 April, 1850, was the type of *Presbytis albigena* J. E. Gray 1850. Young Monkeys in the Gardens were the types of *Semnocebus a. johnstoni* and *S. a. rothschildi* Lydekker, Novit. Zool. **7**, pp. 595, 596, 1900. One deposited 31 Oct. 1906, was called *Cercoecbus jamrachi* Pocock, Ann. Mag. Nat. Hist. (7) **18**, p. 454, 1906.

47. *Cercocebus aterrimus* (Oudemans), Zool. Gart. **31**, p. 267, 1890.

Black Mangabey. Congo Mangabey.

*Hab.* Central Africa: Upper Congo.

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* Not distinguishable from *C. torquatus*, *fide* Schwartz, Ann. Mag. Nat. Hist. (10) **1**, June, 1928, p. 666.

*Figs.* P. Z. S. 1899, p. 827, as *Cercocebus congicus*: photograph. Ann. Mag. Nat. Hist. (7) **18**, 1906, pl. 7, as *C. hamlyni*: uncoloured.

A male presented 23 June, 1894, by Sir H. H. Johnston. A young monkey deposited 18 Sept. 1906, probably of this species, was the type of *Cercocebus hamlyni* Pocock, Ann. Mag. Nat. Hist. (7) **18**, p. 208, 1906.

48. *Cercocebus agilis* É. Rivière, Rev. Scient. (3) **12**, p. 15, 1886. *v.* J. A. Allen, Bull. Amer. Mus. Nat. Hist. **17**, p. 336, 1925 *.

Agile Mangabey.

*Hab.* Central Africa: Upper Congo.

*Fig.* Novit. Zool. Tring. **7**, 1900, pl. 3, as *C. chrysogaster*; **8**, 1901, pl. 1, fig. 1, as *C. hagenbecki*.

A young male deposited 6 Feb. 1900, was the type of *C. chrysogaster* Lydekker, Novit. Zool. **7**, p. 279, 1900. A female presented 22 March, 1900, by the Rev. A. Christopher was called *C. hagenbeki* Lydekker, Novit. Zool. **7**, p. 594, 1900.

Genus **Macaca** Lacépède, Mém. de l'Inst. **3**, p. 490, 1801. *v.* W. H. Flower, Cat. Osteol. Mus. R. Coll. Surg. **2**, p. 31, 1884.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *radiata* | 22 | 10. *fuscata* | 25 |
| 2. *sinica* | 23 | 11. *silenus* | 26 |
| 3. *irus* | 23 | 12. *nemestrina* | 26 |
| 4. *mulatta* | 23 | 13. *andamanensis* | 26 |
| 5. *assamensis* | 24 | 14. *arctoides* | 26 |
| 6. *lasiotis* | 24 | 15. *rufescens* | 27 |
| 7. *tcheliensis* | 24 | 16. *maurus* | 27 |
| 8. *sanctijohannis* | 25 | 17. *sylvana* | 27 |
| 9. *cyclopis* | 25 | | |


49. *Macaca radiata* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 98, 1812.

*Macacus sinicus* List, ed. 9, 1896, p. 17.

Bonnet Monkey.

*Hab.* India: southern peninsular India.

* *C. agilis* considered a subspecies of the East African *Cercocebus galeritus* Peters 1879, by Schwarz, Ann. Mag. Nat. Hist. (10) **1**, June, 1928, p. 668.

*Fig.* F. Cuvier, Hist. Nat. Mamm. **1**, livr. 18, as "Tocque."

First received in 1828, 1829 or 1830.

Three born in the Gardens—one 27 April, 1843, one 3 April, 1885, and one in 1908.

50. *Macaca sinica* (Linnaeus), Mantissa Plant., Reg. Anim. Append., p. 521, 1771.

*Macacus pileatus* List, ed. 9, 1896, p. 19.

Toque Monkey.

*Hab.* Ceylon.

*Fig.* F. Cuvier, Hist. Nat. Mamm. **1**, 1825, pl. 34.

First received in 1828, 1829 or 1830.

One reported to have been born in the Gardens, and also one hybrid between this species and *M. radiata*, both in, or before, 1860.

51. *Macaca irus* (F. Cuvier), Mém. Mus. Hist. Nat. Paris, **4**, p. 120, 1818.

*Macacus cynomolgus.* *Macaca fascicularis.*

Kra Monkey. Croo Monkey (R. Owen, 1833). Crab-eating Macaque.

*Hab.* South-east Asia: Arakan, Burma, Siam, Malay Peninsula and islands; very many local races. Introduced into Mauritius.

*Fig.* F. Cuvier, Hist. Nat. Mamm. **1**, 1819, pl. 30.

First received before April, 1831.

Six born in the Gardens 1834–1909.

There are also records of six hybrids born in the Gardens:—

*M. irus* × *M. mulatta* (sexes not stated), 13 July, 1882.
*M. irus* ♂ × *M. mulatta* ♀, 21 March, 1899.
*M. irus* ♂ × *M. mulatta* ♀, 27 April, 1906.
*M. irus* × *M. nemestrina* (sexes not stated), in, or before, 1860.
*M. irus* ♂ × *M. nemestrina* ♀, 1 March, 1906.
*M. irus* ♂ × *Mandrillus sphinx* ♀, 13 Oct. 1878.

52. *Macaca mulatta* (Zimmermann), Geogr. Gesch. **2**, p. 195, 1780.

*Macacus rhesus.*

Bengal Monkey. Bandar. Rhesus Monkey.

*Hab.* India, with allied forms eastward to China.

*Figs.* F. Cuvier, Hist. Nat. Mamm. **1**, 1821, pl. 36. Elliot, Primates, **2**, 1913, pl. 8, as *Pithecus rhesus*: photograph.

Living in the collection 3 Jan. 1829.

At least thirteen born in the Gardens 1834–1925: some reared. Also one hybrid between this species and *Macaca radiata* born 8 Feb. 1846, died 19 May, 1847.

53. *Macaca assamensis* J. McClelland, Proc. Zool. Soc. London, 1839, p. 148.

Himalayan Monkey.

*Hab.* India: Himalayas, Assam and Upper Burma.

*Fig.* P. Z. S. 1872, pl. 25, as *Macacus rheso-similis*.

The first received was from Bhutan, deposited 9 Nov. 1868, by Major C. Richards, B.S.C.: it died 21 March, 1869, and was the type of *M. problematicus* Gray 1870. A female presented 29 Aug. 1869, by the Rev. T. P. Methuen, which died 17 Dec. 1870, was referred to *M. pelops* Hodgson 1840. Another female purchased from Mr. Jamrach 15 Feb. 1872, which died 9 Dec. 1872, was the type of *M. rhesosimilis* P. L. Sclater 1872.

54. *Macaca lasiotis* J. E. Gray, Proc. Zool. Soc. London, 1868, p. 60.

*Macacus lasiotis.*

Hairy-eared Monkey. Chinese Rhesus Monkey.

*Hab.* China.

*Fig.* P. Z. S. 1868, pl. 6: the type-specimen that had lost its tail.

A male presented 15 Jan. 1868, by Miss C. A. Winckworth was the type of the species: it died 25 May, 1870.

55. *Macaca tcheliensis* A. Milne-Edwards, Recherches hist. nat. Mamm. p. 227, 1868–1874.

*Macacus tcheliensis.*

Tcheli Monkey.

*Hab.* Northern China.

*Fig.* Milne-Edwards, *l. c. s.* pl. 32.

A pair presented 17 Aug. 1880, by Dr. S. W. Bushell, C.M.G., C.M.Z.S.

N.B.—*Macaca tcheliensis* is probably a form of *M. lasiotis.*

56. *Macaca sanctijohannis* (Swinhoe), Proc. Zool. Soc. London, 1866, p. 556.

*Macacus sancti-johannis.*

St. John's Monkey (named after Commander St. John, R.N.).

*Hab.* China: North Lena Island, near Hong-Kong.

*Fig.*

A female purchased 14 Jan. 1867, from Mr. R. Swinhoe, was the type.

57. *Macaca cyclopis* Swinhoe, Proc. Zool. Soc. London, 1862, p. 350.

*Macacus cyclopis.*

Round-faced Monkey.

*Hab.* Formosa.

*Fig.* P. Z. S. 1862, pl. 42; 1864, p. 711: uncoloured.

A pair presented 4 Sept. 1862, by Mr. R. Swinhoe, F.Z.S., were the types.

58. *Macaca fuscata* Blyth, J. Asiat. Soc. Bengal, **44**, extra no. Cat. Mamm. & Birds, Burma, p. 6, 1875.

*Macacus speciosus* List, ed. 9, 1896, p. 30 (*nec* F. Cuvier 1825).

Japanese Monkey.

*Hab.* Japan.

*Figs.* P. Z. S. 1875, pl. 47. Temminck, Fauna Jap. Mamm. 1842–1845, pl. 1, as *Innuus speciosus.* Elliot, Primates, **2**, 1913, pl. 7, as *Pithecus fuscatus*: photograph.

The first received was a female presented 2 April, 1874, by Mr. A. A. J. Gower.

One born in the Gardens, 10 Jan. 1906.

59. *Macaca silenus* (Linnaeus), Syst. Nat. **1**, p. 26, 1758.

Alternative name *Macaca ferox* (Shaw) 1792.

Wanderoo Monkey. Lion-tailed Monkey.

*Hab.* India: Western Ghats from below Goa to Cape Comorin.

*Figs.* Blanford, Faun. Brit. Ind. Mamm. 1888, p. 16, fig. 5: head only, uncoloured. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 10. Elliot, Primates, **2**, 1913, pl. 8, as *Pithecus albibarbatus*: photograph.

First received in 1828 or 1829.

60. *Macaca nemestrina* (Linnaeus), Syst. Nat. **1**, p. 35, 1766.

*Macacus nemestrinus.*

Pig-tailed Monkey. Broh.

*Hab.* South-east Asia: Tenasserim, Malay Peninsula and islands.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 9. Elliot, Primates, **2**, 1913, pl. 7, as *Pithecus nemestrinus*: photograph.

First received 19 May, 1830.

Two born in the Gardens: one 22 Sept. 1913, one 13 Dec. 1914; both reared.

61. *Macaca andamanensis* A. D. Bartlett, Land and Water, London, p. 57, 24 July, 1869. Proc. Zool. Soc. London, 1869, p. 468.

*Macacus leoninus.*

Burmese Pig-tailed Monkey.

*Hab.* South-east Asia: Arakan and Upper Burma.

*Figs.* P. Z. S. 1869, p. 467: uncoloured; 1870, pl. 35.

A female, introduced into the Andaman Islands from Burma, presented 8 July, 1869, by Capt. R. A. Brown, R.N., was the type.

62. *Macaca arctoides* I. Geoffroy, Mag. Zool. Paris, **3**, Cl. 1, text to pl. 2, 1833.

*Macacus arctoides.*

? *Macaca speciosa* F. Cuvier 1825.

Brown Stump-tailed Monkey.

*Hab.* Eastern Asia: Burma, Siam, Indo-China and China.

*Figs.* I. Geoffroy, *l. c. s.* pl. 2. P. Z. S. 1872, pl. 12, as *Macacus brunneus* Anderson 1871. Anderson, An. Zool. Res. Yunnan Exp. 1878, pls. 1 & 2.

One alive in the Gardens 26 Feb. 1839, was the type of *Papio melanotis* Ogilby, P. Z. S. 1839, p. 31.

63. *Macaca rufescens* Anderson, Proc. Zool. Soc. London, 1872, p. 204.

*Macacus rufescens.*

Rufous Stump-tailed Monkey.

*Hab.* South-east Asia : Malaya.

*Fig.* P. Z. S. 1872, pl. 24.

A male purchased 14 Feb. 1872, was possibly the type of the species.

64. *Macaca maurus* F. Cuvier, Hist. Nat. Mamm. livr. 40, 1823.

*Magus maurus* of some authors : type of genus *Magus* Lesson 1827.

Moor Monkey.

*Hab.* Celebes.

*Figs.* F. Cuvier, *l. c. s.* pl. " Macaque de l'Inde." Wolf, Zool. Sketches, 1867 (2) pl. 1, as *Macacus ocreatus.* P. Z. S. 1866, pl. 19, as *Macacus inornatus.*

W. Ogilby, 23 June, 1840 (P. Z. S. 1840, p. 56), described *Papio ochreatus* from an animal that he had seen in a travelling collection, and in the summer of 1858 a male was received in exchange from a travelling menagerie, but whether this animal was the type of *ochreatus* is not certain. A female purchased 21 Feb. 1866, was the type of *Macacus inornatus* Gray 1866.

65. *Macaca sylvana* (Linnaeus), Syst. Nat. 1, p. 25, 1758.

*Macacus inuus.*

Barbary Ape. Rock Ape.

*Hab.* North-west Africa : Morocco, Algeria. Periodically introduced by human agency to Gibraltar.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 11, as *Inuus ecaudatus.* Elliot, Primates, 2, 1913, pl. 6, as *Simia sylvanus* : photograph.

First received 11 May, 1829.

One born in the Gardens, 17 May, 1914.

Genus **Cynopithecus** I. Geoffroy, Voyage de Bélanger, p. 66, 1834.

Species :

Page
1. *niger* ..... 28

66. *Cynopithecus niger* (Desmarest), Mamm. Supp. p. 534, 1822.

Black Ape.

*Hab.* Celebes.

*Fig.* Quoy & Gaimard, Voy. Astrolabe, **1**, 1830–1833, pl. 6. Elliot, Primates, **2**, 1913, pl. 6 : photograph.

One was in the Tower Menagerie; a second was exhibited at Exeter 'Change. The third brought alive to England was in the Society's Gardens in 1830. The fourth was presented 4 Dec. 1832, by Mr. G. Travers.

Genus **Theropithecus** I. Geoffroy, Arch. Mus. Hist. Nat. Paris, **2**, p. 567, 1841, 1843.

Species :

Page
1. *gelada* ..... 28
2. *obscurus* ..... 28

67. *Theropithecus gelada* (Rüppell), Neue Wirbelth. Abyss. Säugth. p. 5, 1835.

Gelada Baboon.

*Hab.* Abyssinia.

*Figs.* Rüppell, *l. c. s.* pl. 2. Elliot, Primates, **2**, 1913, pl. 5 : photograph.

Three pairs were deposited 7 Dec. 1877, by Herr Hagenbeck, but one individual had been received at an earlier date.

68. *Theropithecus obscurus* Heuglin, Nova Acta Ac. Caes. Leop.-Carol. **30**, Nachtrag 2, p. 10, 1863.

Dusky Gelada Baboon.

*Hab.* Abyssinia.

*Fig.*

A female presented 16 Aug. 1906, by the Hon. George Savile.

Genus **Papio** Erxleben, Syst. Reg. Anim. p. 15, 1777.

Species :


| | Page |
|---|---|
| 1. *cynocephalus* | 29 |
| 2. *papio* | 29 |
| 3. *anubis* | 29 |
| 4. *porcarius* | 30 |
| 5. *hamadryas* | 30 |


69. *Papio cynocephalus* (Linnaeus), Syst. Nat. **1**, p. 38, 1766.

*Cynocephalus babouin.*

Yellow Baboon.

*Hab.* East and east-central Africa, south to Mashonaland.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 11.

Exhibited alive in London Z. G. from before 20 Oct. 1830. An adult male received a few days before 24 Jan. 1843, was the type of *Cynocephalus thoth* Ogilby, P. Z. S. 1843, p. 11. A pair presented 15 Nov. 1894, by Mr. C. Palmer, were considered as *Papio thoth ibeanus* Thomas 1893, which may be a race of *P. anubis*, see Anderson, Zool. Egypt, Mamm. 1902, pl. 10.

70. *Papio papio* (Desmarest), Mamm. 1, p. 69, 1820.

*Cynocephalus sphinx.*

Guinea Baboon.

*Hab.* West Africa.

*Fig.* Schreber, Säugth. pl. 6, as *Simia sphinx.*

In London Z. G. from before 20 Oct. 1830.

71. *Papio anubis* (F. Cuvier), Hist. Nat. Mamm. livr. 50, 1825.

*Cynocephalus anubis.*

Olive Baboon.

*Hab.* Tropical Africa : widely distributed, with several local races, from West Africa to the Sudan–Abyssinian frontier, and south to Congoland and the Victoria-Nyanza country.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 4.

First received about 1837.

Synonymy. Some authorities prefer to call this species *Papio doguera* (Pucheran) 1856, considering *anubis* (Fischer) 1829 undeterminable. A female received 18 April, 1900, from Capt. Boyd Alexander was referred to *neumanni* Matschie 1897.

*Cynocephalus choras* W. Ogilby P. Z. S. 1843, p. 12, was described from a semi-adult ♂, from West Africa, presented by Lieut. Webb, R.N., and living in the Menagerie, 24 Jan. 1843. It may, possibly, be included under *Papio anubis*.

72. *Papio porcarius* (Brünnich), Dyr. Hist. Univ. Nat.-Theat. p. 13, 1782. *v.* Sherborn, Index Anim. **1**, p. 770, 1902.

*Cynocephalus porcarius.*

Chacma Baboon.

*Hab.* South Africa.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1819, livr. 7. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 12.

One, or more, received before 29 April, 1831. A female, from the Transvaal, presented in 1904 by Mr. J. Adams, which died in 1910, was described as *Papio porcarius griseipes* Pocock, P. Z. S. 1911, p. 558.

73. *Papio hamadryas* (Linnaeus), Syst. Nat. **1**, p. 27, 1758.

*Cynocephalus hamadryas.*

Alternative name *Comopithecus hamadryas.*

Sacred Baboon. Arabian Baboon. Tartarin.

*Hab.* Hills on both African and Arabian sides of the Red Sea, and Somaliland.

*Figs.* Anderson, Zool. Egypt, Mamm. 1902, pls. 1 & 2.

A male presented 29 June, 1849, by the Hon. Charles A. Murray.

Four born in the Gardens 1914–1927.

Genus **Mandrillus** Ritgen, Natürl. Eintheilung Säug. p. 33, 1824 ; *teste* Palmer *v.* Sherborn, Index Anim. **2**, pt. 15, p. 3848, 1928.

Species :


| | Page |
|---|---|
| 1. *sphinx* | 31 |
| 2. *leucophaeus* | 31 |

74. *Mandrillus sphinx* (Linnaeus), Syst. Nat. **1**, p. 25, 1758.

*Cynocephalus mormon.*

Mandrill.

*Hab.* West Africa.

*Figs.* Haacke & Kuhnert, Thierl. 1901, **3**, pl. opp. p. 64. Elliot, Primates, **2**, 1913, pl. 4 : photograph.

First received in 1829.

75. *Mandrillus leucophaeus* (F. Cuvier), Ann. Mus. Hist. Nat. Paris, **9**, p. 477, 1807.

*Cynocephalus leucophaeus.*

Drill.

*Hab.* West Africa.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1818, livr. 1, & 1821, livr. 28. H. O. Forbes, Primates, **1**, 1894, pl. 22.

First received in 1829.

## Family CEBIDAE *.

Genera :


| | Page | | Page |
|---|---|---|---|
| 1. *Aotus* | 31 | 6. *Saimiri* | 37 |
| 2. *Callicebus* | 32 | 7. *Cebus* | 38 |
| 3. *Pithecia* | 34 | 8. *Lagothrix* | 41 |
| 4. *Chiropotes* | 35 | 9. *Ateles* | 41 |
| 5. *Cacajao* | 36 | 10. *Alouatta* | 44 |


### Genus **Aotus** Humboldt & Bonpland, Recueil Obs. Zool. **1**, p. 306, " 1811," 1815.

Species :


| | Page |
|---|---|
| 1. *trivirgatus* | 31 |
| 2. *rufipes* | 32 |
| 3. *felinus* | 32 |


76. *Aotus trivirgatus* Humboldt & Bonpland, Recueil Obs. Zool. **1**, p. 306, " 1811," 1815.

*Nyctipithecus trivirgatus.*

Three-banded Douroucouli, Night-Ape, or Owl-faced Monkey.

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* The division into species of the Cebidae and Hapalidae is, of necessity, provisional.

*Hab.* South America: Brazil, the Guianas and Peru.
*Fig.* Humboldt, *l. c. s.* fig. 28, as *Simia trivirgata.*
One received before 29 April, 1833.

77. *Aotus rufipes* (P. L. Sclater), Proc. Zool. Soc. London, 1872, p. 3.
*Nyctipithecus rufipes.*
Red-footed Douroucouli.
*Hab.* Central America: Nicaragua.
*Fig.* P. Z. S. 1872, pl. 1.
One purchased 12 June, 1871, was the type of the species.

78. *Aotus felinus* (Spix), Sim. et Vespert. Bras. p. 24, 1823.
*Nyctipithecus vociferans.*
Feline Douroucouli.
*Hab.* South America: Brazil, Peru, Ecuador and Colombia.
*Figs.* Spix, *l. c. s.* pl. 18. Fitzinger, Bild.-Atlas, Säught. 1860, fig. 19.
One purchased 29 May, 1857.

Genus **Callicebus** Thomas, Ann. Mag. Nat. Hist. (7) **12**, p. 457, 1903.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *torquatus* | 32 | 5. *caligatus* | 33 |
| 2. *cupreus* | 33 | 6. *melanochir* | 34 |
| 3. *moloch* | 33 | 7. *gigot* | 34 |
| 4. *personnatus* | 33 | | |


79. *Callicebus torquatus* (Hoffmannsegg), Mag. Ges. naturf. Fr. Berlin, **1**, p. 86, 1807.
*Callithrix torquatus.*
Yellow-handed Titi-Monkey. White-collared Titi-Monkey.
*Hab.* South America: north-western Brazil, extending into eastern Ecuador and Peru.
*Fig.*
One deposited 28 Feb. 1901.

80. *Callicebus cupreus* (Spix), Sim. et Vespert. Bras. p. 23, 1823.

*Callithrix cuprea.*

Red Titi-Monkey.

*Hab.* South America : eastern Peru, and Ecuador.

*Figs.* Spix, *l. c. s.* pl. 17. Arch. Mus. Hist. Nat. Paris, **5**, "1845," pl. 28. as *Callithrix discolor.* H. O. Forbes, Primates, **1**, 1894, pl. 14.

One deposited 18 Jan. 1905.

81. *Callicebus moloch* (Hoffmannsegg), Mag. Ges. naturf. Fr. Berlin, **1**, p. 97, 1807.

*Callithrix moloch.*

Molock Titi-Monkey. Orabassu Titi-Monkey.

*Hab.* South America : Brazil.

*Fig.* I. Geoffroy, Arch. Mus. Hist. Nat. Paris 1844, **4**, pl. 3.

A female purchased 24 Nov. 1882.

82. *Callicebus personnatus* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 113, 1812.

*Callithrix personata. Callithrix brunnea. Callithrix nigrifrons.*

Masked Titi-Monkey.

*Hab.* South America : Upper Amazonia.

*Figs.* Spix, Sim. et Vespert. Bras. 1823, pls. 12 & 15.

First received 11 Jan. 1881.

One purchased 14 July, 1882, appears to have been a Black-fronted Titi, *Callicebus personnatus nigrifrons* (Spix) 1823.

83. *Callicebus caligatus* (Wagner), Wiegmann Archiv. **8**, pt. 1, p. 357, 1842.

*Callicebus castaneiventris* (J. E. Gray), Ann. Mag. Nat. Hist. (3) **17**, p. 58, 1866.

Chestnut-bellied Titi-Monkey.

*Hab.* South America : Brazil and Paraguay.

*Fig.*

An adult died in the Gardens 2 June, 1920 (Pocock, P. Z. S. 1925, p. 33).

84. *Callicebus melanochir* (Kuhl), Beitr. Zool. pt. 2, p. 40, 1820.

*Callicebus melanochir* (Wied), Beitr. Naturg. Brasil, **2**, p. 114, 1826.

*Callithrix melanochir.*

Black-handed Titi-Monkey.

*Hab.* South America : eastern Brazil.

*Fig.*

One deposited 16 June, 1894.

85. *Callicebus gigot* (Spix), Sim. et Vespert. Bras. p. 22, 1823.

*Callithrix gigot.*

Grey Titi-Monkey.

*Hab.* South America : Brazil.

*Fig.* Spix, *l. c. s.* pl. 16.

One purchased 31 March, 1883.

Genus **Pithecia** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 115, 1812.

Species :


| | Page |
|---|---|
| 1. *monachus* | 34 |
| 2. *pithecia* | 34 |


86. *Pithecia monachus* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 116, 1812.

Humboldt's Saki Monkey. Hairy Saki.

*Hab.* South America : Upper Amazons of Brazil and Peru.

*Figs.* P. Z. S. 1862, pl. 37 ; 1860, pl. Mamm. 81, as *Pithecia albicans* J. E. Gray 1860.

A female purchased 14 Oct. 1862 ; it died 24 Oct. 1862.

87. *Pithecia pithecia* (Linnaeus), Syst. Nat. **1**, p. 40, 1766.

*Pithecia leucocephala.*

White-headed Saki Monkey.

*Hab.* South America : northern Brazil and the Guianas.

*Figs.* Arch. Mus. Nat. Hist. Paris, **5**, "1845," pl. 29, as *Pithecia chrysocephala*. Voy. Sulphur, Zool. 1844, pl. 2, as *Pithecia pogonias*. Elliot, Primates, **1**, 1913, pl. 6: photograph.

A male presented 15 May, 1866, by Mr. W. H. Barton; it died 26 June, 1866.

Genus **Chiropotes** J. E. Gray, Brit. Mus. Cat. Monkeys, p. 60, 1870.

Species:


| | Page |
|---|---|
| 1. *chiropotes* | 35 |
| 2. *satanas* | 35 |
| 3. *albinasa* | 36 |


88. *Chiropotes chiropotes* (Humboldt & Bonpland), Recueil Obs. Zool. **1**, p. 311, 1811 (1815).

*Pithecia chiropotes.*

Red-backed Saki Monkey. Jacketed Monkey.

*Hab.* South America: northern Brazil, the Guianas and Venezuela.

*Fig.* Spix, Sim. et Vespert. Bras. 1823, pl. 7, as *Brachyurus israelita.*

One presented 15 May, 1834, by Sir Robert Ker Porter, Consul General at Caraccas.

89. *Chiropotes satanas* (Hoffmannsegg), Mag. Ges. naturf. Fr. Berlin, **1**, p. 93, 1807.

*Pithecia satanas.*

Black Saki Monkey. Black Jacket Monkey.

*Hab.* South America: northern Brazil, the Guianas and Venezuela.

*Figs.* Humboldt & Bonpland, Recueil Obs. Zool. 1811 (1815), pl. 27, as *Simia satanas.* P. Z. S. 1864, pl. 41.

One presented 25 May, 1850, by Lord Harris, Governor of Trinidad.

*Chiropotes ater* J. E. Gray, Brit. Mus. Cat. Monk. p. 61, 1870, was founded on two individuals of *C. satanas*, which had each lived for some months in the Society's Gardens, one purchased 8 March, 1864, and one purchased 30 April, 1868.

90. *Chiropotes albinasa* (I. Geoffroy et Deville), C. R. Acad. Sci. Paris, **27**, p. 498, 1848.

*Pithecia albinasa.*

White-nosed Saki Monkey. Red-and-white-nosed Saki.

*Hab.* South America : Amazons.

*Fig.* P. Z. S. 1881, pl. 29.

A female purchased 11 Jan. 1881.

Genus **Cacajao** Lesson, Species des Mammifères, p. 181, 1840.

Species :


| | Page |
|---|---|
| 1. *melanocephalus* | 36 |
| 2. *rubicundus* | 36 |
| 3. *calvus* | 37 |


91. *Cacajao melanocephalus* (E. Geoffroy), Ann. Mus Hist. Nat. Paris, **19**, p. 117, 1812. (Humboldt & Bonpland), Recueil Obs. Zool. p. 316, 1811 (1815).

*Ouacaria melanocephala* List, ed. 9, 1896, p. 41.
*Brachyurus ouakari* List, ed. 8, 1883, p. 36.

Black-headed Uakari Monkey.

*Hab.* South America : northern Brazil.

*Fig.* P. Z. S. 1880, pl. 63.

One received in 1847 or 1848.

92. *Cacajao rubicundus* (I. Geoffroy et Deville), C. R. Acad. Sci. Paris, **27**, p. 498, 1848.

*Ouacaria rubicunda.* *Brachyurus rubicundus.*

Red-faced Uakari Monkey. Red Uakari.

*Hab.* South America : upper Amazons in Peru and extreme western Brazil.

*Figs.* P. Z. S. 1880, pl. 61. Elliot, Primates, **1**, 1913, pl. 6 : photograph.

A female purchased 24 May, 1879, died 22 April, 1880.

93. *Cacajao calvus* (I. Geoffroy), Arch. Mus. Hist. Nat. Paris, **5**, p. 560, 1845.

*Ouacaria calva. Brachyurus calvus.*

Bald Uakari Monkey.

*Hab.* South America: north-western Brazil.

*Fig.* H. O. Forbes, Primates, **1**, 1894, pl. 16.

One purchased 12 June, 1886.

Genus **Saimiri** Voigt, Cuvier's Thierreich, **1**, p. 95, 1831.

Species:


| | Page |
|---|---|
| 1. *sciurea* | 37 |
| 2. *örstedii* | 37 |
| 3. *usta* | 37 |


94. *Saimiri sciurea* (Linnaeus), Syst. Nat. **1**, p. 29, 1758.

*Chrysothrix sciurea.*

Squirrel Monkey.

*Hab.* Northern South America: the Guianas, Venezuela, Colombia and Peru.

*Figs.* Schreber, Säugth. 1774, pl. 30, as *Simia sciurea.* F. Cuvier, Hist. Nat. Mamm. **1**, 1819. Wagner, Schreber, Säugth. Suppl. **5**, 1855, pl. 19.

First received in 1830, if not in 1828 or 1829.

95. *Saimiri örstedii* (Reinhardt), Vidensk. Meddel. Naturh. Foren. Kjöbenhavn, p. 157, 1872.

*Chrysothrix oerstedi.*

Red-backed Squirrel Monkey.

*Hab.* Central America: type-locality in Panama.

*Figs.* Reinhardt, *o. c. s.* pl. 3. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 2.

First received—one purchased 29 April, 1873.

96. *Saimiri usta* I. Geoffroy.

*Saïmiris usta* I. Geoffroy, Arch. Mus. Hist. Nat. Paris, **4**, p. 6, 1844.

*Chrysothrix usta.*

Naked-eared Squirrel Monkey. Geoffroy's Squirrel Monkey.

*Hab.* South America: Brazil, eastern Peru and Bolivia.

*Figs.* I. Geoffroy, *l. c. s.* pl. 1. P. Z. S. 1872, p. 689: head only, uncoloured.

First received—one deposited 4 July, 1871.

Genus **Cebus** Erxleben, Syst. Regn. Anim. **1**, p. 44, 1777.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *apella* | 38 | 6. *xanthosternos* | 39 |
| 2. *capucina* | 38 | 7. *fatuellus* | 40 |
| 3. *albifrons* | 38 | 8. *azarae* | 40 |
| 4. *flavescens* | 39 | 9. *cirrifer* | 40 |
| 5. *barbatus* | 39 | 10. *vellerosus* | 40 |


97. *Cebus apella* (Linnaeus), Syst. Nat. **1**, p. 28, 1758.

*Cebus capucinus.*

Weeper Capuchin-Monkey.

*Hab.* South America: the Guianas, and Brazil.

*Fig.* Audebert, Hist. Nat. Singes, 1799, Fam. 5, sect. **2**, pl. 2, as *Simia apella.*

In London Z. G. before 20 Oct. 1830.

One, ♂, born in the Menagerie 2 Sept. 1885.

98. *Cebus capucina* (Linnaeus), Syst. Nat. **1**, p. 29, 1758.

*Cebus hypoleucus.*

White-throated Capuchin-Monkey.

*Hab.* Central America, and Colombia.

*Figs.* Audebert, Hist. Nat. Singes, 1799, Fam. 5, sect. **2**, pl. 5, as *Simia capucina v. a.* Elliot, Primates, **2**, 1913, pl. 2 : photograph.

One presented in 1829, died 5 April, 1840.

One, "*Cebus capuchinus*," was born in the Gardens 3 July, 1849 ; it lived till 4 Feb. 1850.

99. *Cebus albifrons* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**. p. 111, 1812. (Humboldt & Bonpland), Recueil, Obs. Zool. p. 324, 1811 (1815).

White-fronted Capuchin-Monkey.

*Hab.* South America: Upper Amazons of Brazil, Colombia and Peru.

*Fig.*

First received between 29 April, 1839, and 29 April, 1840. A male purchased 19 Feb. 1887, and an individual presented 11 July, 1888, by Mr. H. B. Whitmarsh, were referred to *Cebus versicolor* Pucheran, *v.* List, ed. 9, 1896, p. 37.

100. *Cebus flavescens* J. E. Gray, Proc. Zool. Soc. London, 1865, p. 827.

Pale Capuchin-Monkey.

*Hab.* South America: Brazil.

*Fig.*

One presented 26 Aug. 1887, by Mr. J. H. Williams. Elliot, Primates, **2**, 1913, p. 91, considers *flavescens* a synonym of *Cebus unicolor* Spix 1823.

101. *Cebus barbatus* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 110, 1812.

*Cebus flavus.*

Bearded Capuchin-Monkey. Slender Capuchin-Monkey.

*Hab.* South America: Bolivia.

*Figs.* Spix, Sim. et Vespert. Bras. 1823, pls. 2, 4 & 5, as *C. libidinosus*, *C. unicolor* and *C. gracilis.*

One received between 29 April, 1833, and 29 April, 1834.

102. *Cebus xanthosternos* Wied, Reise nach Brasil, **1**, p. 371, footnote, 1820. *v.* Osgood, J. Mammalogy Baltimore, **1**, p. 35, 1919.

*Cebus monachus* List, ed. 9, 1896, p. 37.

*Cebus variegatus* (Humboldt) 1812, not tenable *fide* Osgood, *l. c. s.*

Smooth-headed Capuchin-Monkey.

*Hab.* South America: the Guianas and Brazil.

*Fig.* H. O. Forbes, Primates, **1**, 1894, pl. 19.

One deposited 26 Feb. 1868.

103. *Cebus fatuellus* (Linnaeus), Syst. Nat. **1**, p. 42, 1766.

Brown Capuchin-Monkey.

*Hab.* South America: Brazil, the Guianas and Colombia.

*Fig.* Spix, Sim. et Vespert. Bras. 1823, pl. 1, as *Cebus macrocephalus.*

First recorded as received between 29 April, 1844, and 29 April, 1845.

104. *Cebus azarae* Rengger, Naturg. Säugth. Paraguay, p. 26, 1830.

Azara's Capuchin-Monkey.

*Hab.* South America: Paraguay, Peru and Brazil.

*Fig.*

A male purchased 7 Aug. 1880.

105. *Cebus cirrifer* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 110, 1812.

*Cebus lunatus* List, ed. 9, 1896, p. 36.

White-cheeked Capuchin-Monkey. Tufted Capuchin-Monkey. Prego Monkey.

*Hab.* South America: Brazil.

*Fig.* P. Z. S. 1865, pl. 45, as *Cebus leucogenys.*

One, or more, living in the Gardens 27 Nov. 1860 (P. L. Sclater, P. Z. S. 1860, p. 422).

One purchased in 1861 was the type of *Cebus leucogenys* J. E. Gray, P. Z. S. 1865, p. 824.

106. *Cebus vellerosus* I. Geoffroy, Cat. Méth. Primates, p. 44, 1851.

Thick-furred Capuchin-Monkey.

*Hab.* South America: Brazil.

*Fig.*

A male presented 11 Oct. 1893, by Mr. R. Kettle.

Genus **Lagothrix** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 106, 1812.

Species :


| | | Page |
|---|---|---|
| 1. | *humboldtii* | 41 |
| 2. | *infumatus* | 41 |


107. *Lagothrix humboldtii* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 107, 1812.

*Lagothrix lagotricha* (Humboldt & Bonpland), Recueil Obs. Zool. **1**, p. 322, 1811 (1815).

Humboldt's Woolly Monkey.

*Hab.* South America : Colombia, north-western Brazil and north-eastern Peru.

*Figs.* P. Z. S. 1863, pl. 31. Elliot, Primates, **2**, 1913, pl. 2 : photograph.

First received between 29 April, 1844, and 29 April, 1845.

108. *Lagothrix infumatus* (Spix), Sim. et Vespert. Bras. p. 41, 1823.

*Lagothrix pöppigii* Schinz, Synops. Mamm. **1**, p. 72, 1844.

Brown Woolly Monkey. Pöppig's Woolly Monkey.

*Hab.* South America : eastern Ecuador and north-eastern Peru.

*Fig.* Spix, Sim. et Vespert. Bras. 1823, pl. 29, as *Gastrimargus infumatus*.

One received in exchange 11 Aug. 1910.

Genus **Ateles** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **7**, p. 260, 1806.

Species :


| | | Page | | | Page |
|---|---|---|---|---|---|
| 1. | *paniscus* | 42 | 6. | *grisescens* | 43 |
| 2. | *ater* | 42 | 7. | *cucullatus* | 43 |
| 3. | *variegatus* | 42 | 8. | *belzebuth* | 43 |
| 4. | *marginatus* | 42 | 9. | *pan* | 44 |
| 5. | *rufiventris* | 43 | 10. | *geoffroyi* | 44 |

109. *Ateles paniscus* (Linnaeus), Syst. Nat. **1**, p. 26, 1758.

*Ateles pentadactylus.*

Red-faced Spider-Monkey. Coaita. Chameck Spider-Monkey.

*Hab.* South America: the Guianas, northern Brazil and eastern Peru.

*Fig.* F. Cuvier, Hist. Nat. Mamm. livr. 5, 1819, as "Coaita." *v.* livr. 39, 1833, p. 1 of text to "Le Cayoe."

One received before 29 April, 1831, as *Ateles subpentadactylus.*

Three received in 1838 averaged a life in the Gardens of just over one year and seven months.

110. *Ateles ater* F. Cuvier, Hist. Nat. Mamm. **1**, pl. 64, 1823.

Black-faced Spider-Monkey.

*Hab.* South and Central America: eastern Peru to Panama, and the Guianas.

*Figs.* F. Cuvier, *l.c.s.* Elliot, Primates, **2**, 1913, pl. 1: photograph.

First received on, or about, 15 Sept. 1830.

111. *Ateles variegatus* Wagner, Schreber, Säugth. Suppl. **1**, p. 313, 1840.

Variegated Spider-Monkey.

*Hab.* South America: Venezuela, north-western Brazil, eastern Ecuador and north-eastern Peru.

*Fig.* P.Z.S. 1867, pl. 47, as *Ateles bartletti.*

A female presented 14 July, 1870, by the Hon. Arthur H. Gordon, C.M.Z.S., was referred to *Ateles bartletti* J. E. Gray 1867.

112. *Ateles marginatus* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **13**, p. 92, 1809.

*Ateles frontalis* E. T. Bennett, Proc. Zool. Soc. London, 1831, p. 38.

White-whiskered Spider-Monkey.

*Hab.* South America: Brazil and eastern Peru.

*Fig.* Geoffroy, *l. c. s.* pl. 10.

One living in the Gardens 22 Feb. 1831, was the type of *A. frontalis.*

113. *Ateles rufiventris* P. L. Sclater, Proc. Zool. Soc. London, 1872, p. 688.

Red-bellied Spider-Monkey.

*Hab.* South America: Colombia and Panama.

*Fig.* P. Z. S. 1872, pl. 57.

A young female received 11 April, 1871, was the type of the species.

114. *Ateles grisescens* J. E. Gray, Proc. Zool. Soc. London, 1865, p. 732.

Grizzled Spider-Monkey.

*Hab.* South or Central America.

*Fig.*

One purchased in St. Thomas, Virgin Islands, arrived in the Gardens 29 Oct. 1864; it became the type of the species.

115. *Ateles cucullatus* J. E. Gray, Proc. Zool. Soc. London, 1865, p. 733.

Hooded Spider-Monkey.

*Hab.* South America: Colombia?

*Fig.* P. Z. S. 1871, pl. 14.

A male purchased 30 June, 1865, which died 23 Aug. 1865, was the type of the species.

116. *Ateles belzebuth* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, 7, p. 272, 1806.

*Ateles vellerosus* J. E. Gray, Proc. Zool. Soc. London, 1865, p. 733.

Long-haired Spider-Monkey. Marimonda.

*Hab.* Central America, north into Mexico.

*Figs.* Geoffroy, *l. c. s.* pl. 16. P. Z. S. 1872, pl. 2.

In the Gardens before 29 April, 1831.

117. *Ateles pan* Schlegel, Mus. Hist. Nat. Pays-Bas, **7**, p. 180, 1876.

Schlegel's Spider-Monkey.

*Hab.* Central America: typically from Guatemala, reported to extend north into Mexico.

*Fig.*

Two purchased 21 March, 1924.

118. *Ateles geoffroyi* Kuhl, Beitr. Zool. pt. 2, p. 26, 1820.

*Ateles hybridus.*

Geoffroy's Spider-Monkey.

*Hab.* Central America: from Nicaragua to Panama, and into Colombia.

*Figs.* P.Z.S. 1871, pl. 15, as *Ateles melanochir*; 1875, pl. 49, fig. 1.

First received before 29 April, 1844, it was alive in July, 1844, and may have been the type of *Ateles ornatus* Gray; one purchased 30 Sept. 1864, was referred to *Ateles frontatus* (Gray) 1842.

Genus **Alouatta** Lacépède, Tabl. Mamm. p. 4, 1799.

Species:


| | Page |
|---|---|
| 1. *seniculus* | 44 |
| 2. *caraya* | 45 |
| 3. *belzebul* | 45 |
| 4. *ursina* | 45 |


119. *Alouatta seniculus* (Linnaeus), Syst. Nat. **1**, p. 37, 1766.

*Mycetes seniculus.*

Red Howling-Monkey.

*Hab.* South America: Venezuela, Colombia, Ecuador, eastern Peru and western Brazil.

*Fig.* H. O. Forbes, Primates, **1**, 1894, pl. 18.

Two males, collected by Mr. E. Greey, C.M.Z.S., purchased 28 Aug. 1863, are believed to be the first Howling-Monkeys ever brought alive to Europe. One died 25 Sept. 1863, the other 7 Oct. 1863.

120. *Alouatta caraya* (Humboldt & Bonpland), Recueil Obs. Zool. **1**, p. 355, 1811 (1815).

*Mycetes caraya.*
*Alouatta nigra.*

Black Howling-Monkey.

*Hab.* South America: widely distributed from Ecuador to Paraguay.

*Fig.* Spix, Sim. et Vespert. Bras. 1823, pl. 32, 33, as *Mycetes barbatus.*

One purchased 14 July, 1883.

121. *Alouatta belzebul* (Linnaeus), Syst. Nat. **1**, p. 37, 1766.

*Mycetes beelzebul.*

Yellow-handed Howling-Monkey.

*Hab.* South America: north-eastern Brazil.

*Fig.* Spix, Sim. et Vespert. Bras. 1823, pl. 34, as *Mycetes discolor.*

One deposited 13 May, 1904.

122. *Alouatta ursina* (Humboldt & Bonpland), Recueil Obs. Zool. **1**, p. 355, 1811 (1815).

*Mycetes fuscus.*

Brown Howling-Monkey.

*Hab.* South America: Venezuela, Brazil and Peru.

*Figs.* Humboldt, *l. c. s.* pl. 30. Spix, Sim. et Vespert. Bras. 1823, pl. 30.

A male purchased 8 Nov. 1872.

## Family HAPALIDAE.

Genera:


| | Page |
|---|---|
| 1. *Hapale* | 46 |
| 2. *Mystax* | 47 |
| 3. *Oedipomidas* | 49 |
| 4. *Leontocebus* | 49 |
| 5. *Callimico* | 50 |

Genus **Hapale** Illiger, Prodr. Syst. Mamm. p. 71, 1811.

Species:


| | Page |
|---|---|
| 1. *jacchus* | 46 |
| 2. *chrysoleucos* | 46 |
| 3. *pygmaea* | 46 |
| 4. *argentata* | 47 |


123. *Hapale jacchus* (Linnaeus), Syst. Nat. **1**, p. 27, 1758.

*Callithrix jacchus.*

Marmoset.

*Hab.* South America: Brazil.

*Figs.* Schreber, Säugth. 1774, pl. 33. F. Cuvier, Hist. Nat. Mamm. **1**, 1819.

First received in 1831, or possibly earlier.

Four born in the Gardens—two 22 March, 1832, and two 29 May, 1892.

The Black-eared Marmoset, *Hapale penicillata*, is considered to be an individual variety of this species.

124. *Hapale chrysoleucos* Wagner, in Wiegmann Archiv. 1842, **8**, pt. 1, p. 357.

Silky Marmoset.

*Hab.* South America: Brazil.

*Fig.* P. Z. S. 1868, pl. 24, as *Mico sericeus.*

One purchased 21 March, 1868, was the type of *Mico sericeus* J. E. Gray, P. Z. S. 1868, p. 256, and of the genus *Micoella* J. E. Gray 1870.

125. *Hapale pygmaea* (Spix), Sim. et Vespert. Bras. p. 32, 1823.

Pygmy Marmoset.

*Hab.* South America: Upper Amazons.

*Figs.* Spix, *l. c. s.* pl. 24, fig. 2. Castelnau, Expéd. Amer. Sud. Mamm. **1**, 1855, pl. 5, figs. 1, 2.

A male purchased 27 April, 1877.

126. *Hapale argentata* (Linnaeus), Mantissa Plant., Reg. Anim. Append., p. 521, 1771.

*Hapale melanura* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 120, 1812.

Black-tailed Marmoset.

*Hab.* South America: Brazil and Bolivia.

*Fig.* P. Z. S. 1875, pl. 50.

A male purchased 9 Nov. 1874.

Genus **Mystax** J. E. Gray, Brit. Mus. Cat. Monkeys, p. 66, 1870.

Species:


| | Page |
|---|---|
| 1. *rufiventer* | 47 |
| 2. *mystax* | 47 |
| 3. *weddellii* | 47 |
| 4. *illigeri* | 48 |
| 5. *midas* | 48 |
| 6. *ursulus* | 48 |


127. *Mystax rufiventer* (J. E. Gray), Ann. Mag. Nat. Hist. (1) **12**, p. 398, 1843.

*Midas labiatus*, not of Geoffroy 1812.

Red-bellied Tamarin-Monkey.

*Hab.* South America: Upper Amazons of Brazil and Peru.

*Fig.* Voy. Erebus & Terror, Zool. 1844, pl. 18.

One deposited 30 June, 1899.

128. *Mystax mystax* (Spix), Sim. et Vespert. Bras. 1823, p. 29.

*Midas mystax.*

Moustached Tamarin-Monkey.

*Hab.* South America: Upper Amazons of Brazil.

*Fig.* Spix, *l. c. s.* pl. 22.

One deposited 9 Nov. 1900.

129. *Mystax weddellii* (Deville), Rev. Mag. Zool. Paris (2) **1**, p. 55, 1849.

*Midas devillii.*

Deville's Tamarin-Monkey.

*Hab.* South America: eastern Peru, and Bolivia.

*Fig.* Castelnau, Expéd. Amer. Sud. Mamm. **1**, 1855, pl. 6, fig. 2.

One deposited 7 Jan. 1901.

130. *Mystax illigeri* (Pucheran), Rev. Zool. Paris, **8**, p. 336, 1845.

*Midas illigeri.*

Illiger's Tamarin-Monkey.

*Hab.* South America: eastern Peru, Ecuador and Colombia.

*Fig.* P. Z. S. 1871, pl. 13, as *Midas devillii.*

Two deposited 6 Feb. 1923.

131. *Mystax midas* (Linnaeus), Syst. Nat. **1**, p. 28, 1758.

*Midas rufimanus.*

*Leontopithecus midas.*

Red-handed Tamarin-Monkey. Lacépède's Tamarin.

*Hab.* South America: the Guianas.

*Fig.* Schreber, Säugth. **1**, 1774, pl. 37.

One presented shortly before 10 Sept. 1833, by Mr. J. Christopher.

132. *Mystax ursulus* (Hoffmannsegg), Mag. Ges. naturf. Fr. Berlin, **1**, p. 102, 1807.

*Mystax ursulus* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 121, 1812.

*Midas ursulus.*

Negro Tamarin-Monkey.

*Hab.* South America: the Guianas, and north-eastern Brazil.

*Fig.* G. Cuvier, Règn. Anim., ed. accom. planches gravées, Mamm. pl. 19, fig. 3.

First received between 29 April, 1837, and 30 April, 1838.

Genus **Oedipomidas** Reichenbach, Vollständ. Naturg. Affen, p. 5, 1862.

Species :


| | Page |
|---|---|
| 1. *oedipus* | 49 |
| 2. *geoffroyi* | 49 |


133. *Oedipomidas oedipus* (Linnaeus), Syst. Nat. **1**, p. 28, 1758.

*Midas oedipus.*

Pinché Marmoset.

*Hab.* South America : Colombia.

*Figs.* Spix, Sim. et Vespert. Bras. 1823, pl. 23 : *Midas oedipus* var. F. Cuvier, Hist. Nat. Mamm. livr. 59, 1829.

First received in 1847, or early in 1848.

134. *Oedipomidas geoffroyi* (Pucheran), Rev. Zool. Paris, **8**, p. 336, 1845.

*Midas geoffroii.*

Geoffroy's Marmoset.

*Hab.* Central America : Panama and Costa Rica.

*Fig.* P. Z. S. 1871, pl. 38.

Two presented 26 Sept. 1857, by Mr. J. Brenchley.

Genus **Leontocebus** Wagner, 1839 or 1840, in Schreber, Säugth. **1**, Uebersicht, p. ix. *v.* Pocock, Ann. Mag. Nat. Hist. (8) **20**, p. 255, 1917.

Species :


| | Page |
|---|---|
| 1. *chrysomelas* | 49 |
| 2. *rosalia* | 50 |


135. *Leontocebus chrysomelas* (Kuhl), Beitr. Zool. pt. 2, p. 51, 1820.

*Midas chrysomelas.*

Golden-headed Marmoset.

*Hab.* South America : south-eastern Brazil.

*Fig.*

One purchased 14 May, 1869.

136. *Leontocebus rosalia* (Linnaeus), Syst. Nat. **1**, p. 41, 1766.

*Midas rosalia.*

Silky Marmoset. Lion Marmoset.

*Hab.* South America: Brazil to Colombia and the Isthmus of Panama.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1818, livr. 1: "Le Marikina."

One presented shortly before 23 Sept. 1834, by Mr. T. Manton.

Genus **Callimico** Miranda Ribeiro, Bras. Rundschau, Dec. 1911, p. 21. *v.* Thomas, Ann. Mag. Nat. Hist. (8) **11**, p. 131, 1913.

Species:

Page
1. *goeldii* ..... 50

137. *Callimico goeldii* (Thomas), Ann. Mag. Nat. Hist. (7) **14**, p. 189, 1904.

Göldie's Monkey.

*Hab.* South America: Bolivia.

*Fig.*

One deposited 14 April, 1915.

## Family INDRISIDAE.

Genus:

Page
1. *Propithecus* ..... 50

Genus **Propithecus** E. T. Bennett, Proc. Zool. Soc. London, 1832, p. 20.

Species:

Page
1. *diadema* ..... 50

138. *Propithecus diadema* E. T. Bennett, Proc. Zool. Soc. London, 1832, p. 20.

Crowned Sifaka, or Monkey-Lemur.

*Hab.* Madagascar.

*Fig.* Milne-Edwards & Grandidier, Hist. Madagascar, **9**, Mamm. **4**, Atlas, 1, 1875, pls. 1, 2.

One deposited 2 Jan. 1908.

## Family LEMURIDAE.

Genera :


| | Page |
|---|---|
| 1. *Lemur* | 51 |
| 2. *Hapalemur* | 54 |
| 3. *Microcebus* | 55 |
| 4. *Chirogaleus* | 55 |


### Genus **Lemur** Linnaeus, Syst. Nat. **1**, p. 29, 1758.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *variegatus* | 51 | 5. *mongoz* | 53 |
| 2. *macaco* | 51 | 6. *coronatus* | 53 |
| 3. *nigerrimus* | 52 | 7. *catta* | 54 |
| 4. *fulvus* | 52 | | |


139. *Lemur variegatus* Kerr, Anim. Kingd. p. 86, 1792.

*Lemur varius* I. Geoffroy, Cat. Mus. Hist. Nat. Paris, p. 71, 1851.

Ruffed Lemur.

*Hab.* Madagascar.

*Figs.* Milne-Edwards & Grandidier, Hist. Madagascar, **10**, Mamm. **5**, Atlas 2, 1890, pls. 123–128. H. O. Forbes, Primates, **1**, 1894, pl. 7 ; Red-Ruffed Lemur.

One of the Red variety was alive in the collection in, or about, 1830.

A pair of the Black-and-White variety were obtained early in 1831 ; the male died in the Society's house in Bruton Street, and the survivor was brought to the Gardens 25 April, 1831 : it died 18 Sept. 1831.

140. *Lemur macaco* Linnaeus, Syst. Nat. **1**, p. 44, 1766.

Black Lemur.

*Hab.* Madagascar.

*Figs.* P. Z. S. 1862, pl. 41 : female, as *Lemur leucomystax* ; 1880, p. 451 : male, head only, uncoloured ; 1885, p. 672 : female and young male, uncoloured.

A male, purchased 5 June, 1833, was the first specimen that had been seen in England since 1755. A female purchased in Oct. 1861, was the type of *Lemur leucomystax* A. D. Bartlett, P. Z. S. 1862, p. 347.

Sixteen born in the Gardens 1884–1916, and four hybrids between males of this species and females of *Lemur fulvus* 1899–1913.

141. *Lemur nigerrimus* P. L. Sclater, Proc. Zool. Soc. London, 1880, p. 451.

Very Black Lemur.

*Hab.* Madagascar.

*Figs.* P. Z. S. 1880, p. 451: head only, uncoloured. Milne-Edwards & Grandidier, Hist. Madagascar, **10**, Mamm. **5**, Atlas 2, 1890, pl. 154.

A male purchased 25 Nov. 1878, was the type of the species.

142. *Lemur fulvus* E. Geoffroy, Mag. Encyclop. Paris (2) **1**, p. 47, 1796, & Ann. Mus. Hist. Nat. Paris, **19**, p. 161, 1812.

*Lemur* spp. Nos. 140, 141, 143–146, 148, 150. List, ed. 9, 1896, pp. 48–50.

Brown Lemur.

*Hab.* Madagascar and the Comoro Islands.

*Figs.* P. Z. S. 1863, pls. 17, 18; 1867, pl. 31 (?). Schlegel & Pollen, Rech. Faun. Madagascar, pt. 2, 1868, pl. 2: *L. mayottensis*. Milne-Edwards & Grandidier, Hist. Madagascar. **10**, Mamm. **5**, Atlas 2, 1890, pls. 133–136, 138–141.

First received in 1828.

This species is remarkable for its many varieties, which intergrade, and, at any rate in captivity, interbreed.

Individuals in the Gardens appear to have been registered from time to time under the following names :—

*a. Lemur albifrons.* White-fronted Lemur. First received 1831.

*b. Lemur anjuanensis.* Anguan Lemur. First received 1840.

*c. Lemur collaris.* Collared Lemur. First received 1828.

*d. Lemur flavifrons* (J. E. Gray), P. Z. S. 1867, p. 596. One purchased 11 May, 1867, which died 30 Sept. 1867, was the type.

*e. Lemur mayottensis.* Mayotte Lemur. First received 1878.

*f. Lemur nigrifrons.* Black-fronted Lemur. First received 1831.

Synonymy. *L. brunneus.* *L. melanocephala* (?)

*g. Lemur rufifrons* E. T. Bennett, P. Z. S. 1833, p. 106. Red-fronted Lemur. The type was living in the collection 10 Sept. 1833.

*h. Lemur rufipes.* Red-footed Lemur. First received 1889.

*i. Lemur xanthomystax.* Yellow-whiskered Lemur. First received 1863.

Twenty-eight of at least five varieties born in the Gardens 1846–1912 ; seven of these at the periods when they were born were considered to be hybrids between different species.

143. *Lemur mongoz* Linnaeus, Syst. Nat. **1**, p. 44, 1766.
*Lemur albimanus* List, ed. 9, 1896, p. 48.

Mongoose Lemur.

*Hab.* Madagascar.

*Figs.* P. Z. S. 1871, pl. 16, fig. 2. Milne-Edwards & Grandidier, Hist. Madagascar, **10**, Mamm. **5**, Atlas **2**, 1890, figs. 156, 157, as *Lemur albimanus.*

First received in 1842, or early in 1843.
Three born in the Gardens 1865–1872.

144. *Lemur coronatus* J. E. Gray, Ann. Mag. Nat. Hist. **10**, p. 257, 1842.

Crowned Lemur.

*Hab.* Madagascar.

*Figs.* Milne-Edwards & Grandidier, Hist. Madagascar, **10**, Mamm. **5**, Atlas 2, 1890, pls. 158, 159.

Two purchased 17 Aug. 1892.

Five born in the Gardens 1899–1901.

145. *Lemur catta* Linnaeus, Syst. Nat. **1**, p. 30, 1758.

Ring-tailed Lemur.

*Hab.* Madagascar.

*Fig.* Milne-Edwards & Grandidier, Hist. Madagascar, **10**, Mamm. **5**, Atlas 2, 1890, pl. 171.

Two purchased 17 Dec. 1834.

About nine born in the Gardens 1858–1913.

Genus **Hapalemur** I. Geoffroy, Cat. Mus. Hist. Nat. Paris, p. 74, 1851.

Species :


| | Page |
|---|---|
| 1. *griseus* | 54 |
| 2. *simus* | 54 |


146. *Hapalemur griseus* (E. Geoffroy), Mag. Encyclop. Paris (2) **1**, p. 48, 1796.

Alternative name *Myoxicebus griseus.*

Grey Lemur. Grey Gentle-Lemur.

*Hab.* Madagascar.

*Figs.* Schlegel & Pollen, Rech. Faun. Madagascar, pt. 2, 1868, pl. 3. H. O. Forbes, Primates, **1**, 1894, pl. 8.

One purchased 31 March, 1883.

147. *Hapalemur simus* J. E. Gray, Proc. Zool. Soc. London, 1870, p. 828.

Alternative name *Myoxicebus simus.*

Broad-nosed Lemur. Broad-nosed Gentle-Lemur.

*Hab.* Madagascar.

*Fig.* P. Z. S. 1870, pl. 52.

One purchased 29 July, 1870, was the type of the species.

Genus **Microcebus** E. Geoffroy, Cours de l'Hist. Nat. Mamm. leçon 11, p. 24, 1828.

Species :

Page
1. *murinus* ..... 55
2. *coquereli* ..... 55

148. *Microcebus murinus* (Shaw), Cimelia Physica, p. 25, 1796.

*Microcebus minor.* *Microcebus smithii.*

Lesser Mouse-Lemur.

*Hab.* Madagascar.

*Figs.* Milne-Edwards & Grandidier, Hist. Madagascar, **10** (pt. 2), Mamm. **6**, Atlas 3, 1897, pl. 259, fig. **6**, as *Cheirogaleus minor* : head only. H. O. Forbes, Primates, **1**, 1894, pl. 6, as *Microcebus smithii.*

A male was received before 29 April, 1835 :, it died before 8 Sept. 1835.

The first individuals referred to *M. smithii* (J. E. Gray) 1842, were nine purchased 13 Dec. 1878, from the Rev. G. A. Shaw.

149. *Microcebus coquereli* (A. Grandidier), Rev. Mag. Zool. Paris (2) **19**, p. 85, 1867.

*Chirogaleus coquereli.*

Coquerel's Pygmy-Lemur.

*Hab.* Madagascar.

*Fig.* Schlegel & Pollen, Rech. Faun. Madagascar, pt. 2, 1868, pl. 6.

Eight deposited 13 Nov. 1882.

Two born in the Gardens in Aug. 1885.

Genus **Cheirogaleus** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 172, 1812.

Species :

Page
1. *major* ..... 56

150. *Cheirogaleus major* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 172, 1812.

*Chirogaleus milii* List, ed. 9, 1896, p. 50.

Greater Mouse-Lemur.

*Hab.* Madagascar.

*Fig.* Elliot, Primates, **1**, 1913, pl. 5, as *Chirogale major*.

One purchased 13 Dec. 1878, from the Rev. G. A. Shaw.

## Family LORISIDAE.

Genera :


| | Page |
|---|---|
| 1. *Loris* | 56 |
| 2. *Nycticebus* | 56 |
| 3. *Perodicticus* | 57 |


Genus **Loris** E. Geoffroy, Rapp. Nat. des Makis, Mag. Encyclop. 2 ann. **1**, p. 48, 1796.

Species :


| | Page |
|---|---|
| 1. *tardigradus* | 56 |


151. *Loris tardigradus* (Linnaeus). Syst. Nat. **1**, p. 29, 1758.

*Loris gracilis*.

Slender Loris.

*Hab.* Ceylon and southern India.

*Fig.* Blanford, Faun. Ind. Mamm. 1888, p. 47, fig. 13 : uncoloured.

A female was presented 15 Dec. 1832, by Capt. Faith : it died 21 Dec. 1832.

Genus **Nycticebus** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 162, 1812.

Species :


| | Page |
|---|---|
| 1. *coucang* | 57 |

152. *Nycticebus coucang* (Boddaert), Elench. Anim. p. 67, 1784, 1785.

*Nycticebus bengalensis* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **19**, p. 164, 1812.

*Nycticebus tardigradus* List, ed. 9, 1896, p. 52.

Slow Loris.

*Hab.* South-eastern Asia: from Assam to Tonkin, south through Burma and Siam to the Malay Peninsula, Sumatra, Java and Borneo.

*Figs.* Blanford, Faun. Ind. Mamm. 1888, p. 45, fig. 12: "Tenasserim variety," uncoloured. H. O. Forbes, Primates, **1**, 1894, pl. 3: "Javan Slow-Loris."

First received in 1830 or 1831. The form *javanicus* Geoffroy 1812 is first recorded in 1849. Two, said to be from southern China, were presented 8 July, 1863, by Dr. T. Coghlan.

Genus **Perodicticus** E. T. Bennett, Proc. Zool. Soc. London, 1831, p. 109.

Species:

Page
1. *potto* ..... 57

153. *Perodicticus potto* (J. F. Gmelin), Syst. Nat. **1**, p. 42, 1788. (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 165, 1812.

Bosman's Potto.

*Hab.* West Africa: from Nigeria to Angola, and eastward through Congoland to British East Africa. Several local races have been described.

*Fig.* P. Z. S. 1869, p. 469: uncoloured.

First received in 1848, when one was presented by Dr. Gardner.

One deposited 2 March, 1914, was the first representative of the Mount Elgon Potto, *Perodicticus ibeanus* Thomas 1910.

## Family GALAGIDAE.

Genus :


| | Page |
|---|---|
| 1. *Galago* | 58 |


Genus **Galago** E. Geoffroy, Rapp. Nat. des Makis, Mag. Encyclop. 2 ann. **1**, p. 49, 1796.

Species :


| | Page |
|---|---|
| 1. *garnettii* | 58 |
| 2. *moholi* | 58 |
| 3. *alleni* | 59 |
| 4. *crassicaudatus* | 59 |
| 5. *demidoffii* | 59 |


154. *Galago garnettii* (Ogilby), Proc. Zool. Soc. London, 1838, p. 6.

Garnett's Bush-Baby.

*Hab.* East Africa.

*Fig.* P. Z. S. 1864, pl. 40.

On 23 Jan. 1838, this species was described from a live individual which had been received from a Mr. Garnett. One was purchased 5 April, 1838: it died 3 Jan. 1840.

On the confusion between *G. garnettii* (Ogilby), and the Bush-Babies from Natal and Zululand *G. crassicaudatus zuluensis* Elliot, see Oldfield Thomas, Ann. Mag. Nat. Hist. (8) **20**, 1917, pp. 48–50.

155. *Galago moholi* A. Smith, Report explor. Central Africa, App. p. 42, 1836.

*Galago maholi.*

Moholi Bush-Baby.

*Hab.* Southern Africa.

*Fig.* A. Smith, Illustr. Zool. S. Africa, Mamm. 1839, pl. 8.

First received between 29 April, 1853, and 29 April, 1854.

Nine born in the Gardens 1855–1927.

156. *Galago alleni* G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 87.

Allen's Bush-Baby.

*Hab.* West Africa.

*Fig.* P. Z. S. 1863, pl. 32.

One presented 30 June, 1863, by Mr. W. A. Ashmall, C.M.Z.S.

This species was named after Lieut. William Allen, R.N., C.M.Z.S.

157. *Galago crassicaudatus* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **19**, p. 166, 1812.

Bushy-tailed Bush-Baby, or Grand Galago.

*Hab.* Southern Africa: typically from Quilimane in Portuguese East Africa, this species extends through southern Nyasaland and Rhodesia to Angola, and south to the Transvaal, Zululand and Natal.

*Fig.* P. Z. S. 1863, pl. 28, as *Galago monteiri.*

The first specimen exhibited alive by the Society, 9 June, 1863, was from Angola and was the type of *Galago monteiri* (J. E. Gray), P. Z. S. 1863, p. 145, now considered to be a particularly grey phase of *G. crassicaudatus.*

One, from Zambesia, presented 26 July, 1864, by Dr. Waghorn, was presumably typical *crassicaudatus.*

*Fig.* Peters, R. n. Moss, 1852, pl. 2.

Synonym. *G. c. kirkii* (J. E. Gray), P. Z. S. 1864, p. 456.

158. *Galago demidoffii* G. Fischer, Mem. Soc. Natur. Univ. Imp. Moscou, **1**, p. 24, 1806. *v.* Peters, Proc. Zool. Soc. London, 1863, p. 380.

Alternative name *Galagoides demidoffii.*

Demidoff's Bush-Baby.

*Hab.* Tropical Africa: from Senegal to the Congo, extending eastward to, or nearly to, Uganda.

*Fig.* P. Z. S. 1863, pl. 35.

One purchased 30 June, 1862.

## Family DAUBENTONIIDAE.

Genus :

Page
1. *Daubentonia* ..... 60

Genus **Daubentonia** E. Geoffroy, Décade Philosophique, **4**, p. 193, 1795.

Species :

Page
1. *madagascariensis* ..... 60

159. *Daubentonia madagascariensis* (J. F. Gmelin), Syst. Nat. p. 152, 1788.
Alternative name *Chiromys madagascariensis*.
Aye-Aye.
*Hab.* Madagascar.
*Fig.* Wolf, Zool. Sketches (2) 1867, pl. 3.
A female presented 12 Aug. 1862, by Mr. E. Mellish.

## Order II. MENOTYPHLA.

Families :

Page
1. Tupaiidae ..... 60
2. Macroscelididae ..... 61

## Family TUPAIIDAE.

Genus :

Page
1. *Tupaia* ..... 60

Genus **Tupaia** Raffles, Trans. Linn. Soc. **13**, p. 256, 1820 (1822).

Species :

Page
1. *ferruginea* ..... 61
2. *tana* ..... 61

160. *Tupaia ferruginea* Raffles, Trans. Linn. Soc. **13**, p. 256, 1822.

*Tupaia peguana.*

Malay Tree-Shrew.

*Hab.* South-east Asia: Nepal, Assam and Burma southwards to the Malay Peninsula and Islands.

*Figs.* Bélanger, Voy. Ind. Or. Zool. 1834, pl. 4: "Tupaïa du Pégou." Blanford, Faun. Ind. Mamm. 1888, p. 210, fig. 55: uncoloured.

One presented 8 Feb. 1875, by the Hon. Ashley Eden, C.S.I.

161. *Tupaia tana* Raffles, Trans. Linn. Soc. **13**, p. 257, 1822.

Bornean Tree-Shrew.

*Hab.* Malay Archipelago: Borneo.

*Fig.* P. Z. S. 1876, pl. 36: *Tupaia tana* var. *chrysura*.

One purchased 11 Jan. 1881.

## Family MACROSCELIDIDAE.

Genera:

Page
1. *Macroscelides* .... ..... 61
2. *Elephantulus* ..... 62

### Genus **Macroscelides** A. Smith, Zool. Journ. **4**, p. 435, 1829.

Species:

Page
1. *proboscideus* ..... 61

162. *Macroscelides proboscideus* (Shaw), Gen. Zool. **1**, pt. 2, p. 536, 1800.

Shaw's Elephant-Shrew.

*Hab.* South Africa.

*Figs.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1839, pl. 10, as *M. typus*. P. Z. S. 1912, p. 143, text-fig. 16: photograph.

Two from Bushmanland, presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

Genus **Elephantulus** Thomas & Schwann, Proc. Zool. Soc. London, 1906, **2**, p. 577.

Species:


| | Page |
|---|---|
| 1. *rupestris* | 62 |


163. *Elephantulus rupestris* (A. Smith), Proc. Zool. Soc. London, 1830, p. 11.

Rock Elephant-Shrew.

*Hab.* South Africa.

*Figs.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1839, pl. 11, as *M. rupestris.* Lesson, Centurie Zool. 1830, pl. 12, as *Macroscelides typus.* P. Z. S. 1912, p. 143, text-fig. 17: photograph.

One from Bushmanland, presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

## Order III. LIPOTYPHLA.

Families:


| | Page | | Page |
|---|---|---|---|
| *1. Gymnuridae | — | *5. Desmanidae | — |
| 2. Erinaceidae | 62 | *6. Potamogalidae | — |
| 3. Soricidae | 65 | *7. Solenodontidae | — |
| 4. Talpidae | 67 | 8. Centetidae | 68 |


## Family ERINACEIDAE.

Genus:


| | Page |
|---|---|
| 1. *Erinaceus* | 62 |


Genus **Erinaceus** Linnaeus, Syst. Nat. 1, p. 52, 1758.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *europaeus* | 63 | 6. *auritus* | 64 |
| 2. *pruneri* | 63 | 7. *collaris* | 64 |
| 3. *algirus* | 63 | 8. *micropus* | 65 |
| 4. *frontalis* | 63 | 9. *aethiopicus* | 65 |
| 5. *sclateri* | 64 | | |


* = Not yet alive in Gardens, 31 Dec. 1927.

164. *Erinaceus europaeus* Linnaeus, Syst. Nat. 1, p. 52, 1758.

European Hedgehog.

*Hab.* Europe : Great Britain and Ireland and on the continent, north to southern Scandinavia, south to Spain, Italy, Sicily and Greece, and east at least to Roumania.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 13.

First received—two 29 July, 1828.

165. *Erinaceus pruneri* Wagner, Schreber Säugth. Suppl. **2**, p. 23, 1841.

*Erinaceus albiventris.*

Alternative name *Atelerix pruneri.*

Pruner's Hedgehog.

*Hab.* Tropical Africa : from Senegambia to the Anglo-Egyptian Sudan and Somaliland, and southwards to Central Africa.

*Fig.*

One presented 20 Jan. 1917, by Mrs. C. H. A. Reaney.

166. *Erinaceus algirus* Duvernoy & Lereboullet, 1840, Mém. Soc. Mus. d'Hist. Nat. Strasbourg, **3**, fasc. 2, p. 4. *v.* Miller, Brit. Mus. Cat. Mamm. West Europe, 1912, p. 131.

Alternative name *Atelerix algirus.*

Algerian Hedgehog.

*Hab.* Western Mediterranean coastlands : Morocco, Algeria, Tunisia, Spain, southern France and the Balearic Islands.

*Fig.*

One presented 12 Nov. 1880, by Dr. G. E. Dobson, C.M.Z.S.

Synonym. *Aethechinus algirus.*

167. *Erinaceus frontalis* A. Smith, South Afr. Quart. Journ. **1**, No. 5, p. 10, 1831.

Alternative name *Atelerix frontalis.*

Cape Hedgehog.

*Hab.* South-western Africa: from Benguella to the Cape of Good Hope.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1838, pl. 3.

One received in exchange 13 Aug. 1877.

Synonym. *Aethecinus frontalis.*

168. *Erinaceus sclateri* J. Anderson, Proc. Zool. Soc. London, 1895, p. 414.

Alternative name *Atelerix sclateri.*

Sclater's Hedgehog.

*Hab.* North-east Africa: Somaliland.

*Fig.*

A female presented 24 April, 1893, by Mr. H. W. Seton-Karr, was the type of the species, named after Dr. P. L. Sclater, F.R.S., F.Z.S.

Synonym. *Aethechinus sclateri.*

169. *Erinaceus auritus* S. G. Gmelin, Nov. Comm. Petrop **14**, p. 519, 1770. *v.* Anderson & de Winton, Zool. Egypt, Mamm. p. 156, 1902.

Alternative name *Hemiechinus auritus.*

Long-eared Hedgehog.

*Hab.* Egypt and western Asia: Sinai, Palestine, Cyprus, Turkey in Asia to Kirghis Steppes.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 21.

Four from Egypt, presented 21 April, 1853, by the Hon. Charles A. Murray.

170. *Erinaceus collaris* J. E. Gray, Illustr. Ind. Zool. **1**, pl. 8, 1830–1832.

Alternative name *Hemiechinus collaris.*

Hardwicke's Collared Hedgehog.

*Hab.* India: plains of northern India.

*Fig.* Gray, *l. c. s.* 1829, pl. 8.

Two presented 17 May, 1873, by Mr. A. Anderson, F.Z.S.

171. *Erinaceus micropus* Blyth, J. Asiat. Soc. Bengal, **15**, p. 170, 1846.

Alternative name *Paraechinus micropus.*

South-Indian Hedgehog. Small-footed Hedgehog.

*Hab.* India: plains of southern India, especially on the Madras side.

*Fig.*

One presented 25 Nov. 1886, by Mr. H. R. P. Carter.

172. *Erinaceus aethiopicus* Hemprich & Ehrenberg, Symbolae Physicae, Mamm. 2, p. 5, not numbered, in article on *Herpestes leucurus*, 1832.

Alternative name *Paraechinus aethiopicus.*

Ethiopian Hedgehog.

*Hab.* North-east Africa: Upper Nubia, Eastern Sudan and Abyssinia.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 22.

One presented 29 Sept. 1896, by Mr. J. U. Coxen.

## Family SORICIDAE.

Genera:


| | Page |
|---|---|
| 1. *Sorex* | 65 |
| 2. *Neomys* | 66 |
| 3. *Crocidura* | 66 |


### Genus **Sorex** Linnaeus, Syst. Nat. **1**, p. 53, 1758.

Species:


| | Page |
|---|---|
| 1. *araneus* | 65 |


173. *Sorex araneus* Linnaeus, Syst. Nat. **1**, p. 53, 1758.

*Sorex vulgaris.*

European Shrew.

*Hab.* Europe: from England and Scotland eastward into Asia, north to Scandinavia, south to Spain and Italy.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 15, fig. 3.

One, from Clifton, presented 25 Oct. 1904, by Mr. R. I. Pocock, F.R.S., F.Z.S.

The British Shrew is incompletely differentiated from the Continental Shrew ; it has been distinguished as *Sorex araneus castaneus* Jenyns 1838.

Genus **Neomys** Kaup, Entw.-Gesch. u. Natürl. Syst. Europ. Thierw. **1**, p. 117, 1829.

Species :

Page
1. *fodiens* ..... 66

174. *Neomys fodiens* (Pallas), in Schreber, Säugth. **3**, p. 571, 1777.

Water-Shrew.

*Hab.* Europe : from Great Britain, Norway and the Pyrenees, eastwards into Siberia.

*Figs.* Thorburn, Millais, Mamm. Gt. Britain, **1**, 1904, pl. 16, & Millais, *l. c. s.* pl. opp. p. 158 : uncoloured.

One presented 5 May, 1914, by Mr. W. H. St. Quintin, F.Z.S.

Genus **Crocidura** Wagler, Isis, p. 275, 1832.

Species :

Page
1. *caerulea* ..... 66
2. *russula* ..... 67

175. *Crocidura caerulea* (Kerr), Anim. Kingd. p. 207, 1792.

*Crocidura caerulescens.*

Blue Musk-Shrew. "Musk-rat" (in India).

*Hab.* India, Ceylon and Burma.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **1**, 1829, pl. 9, as *Sorex myosurus.* Blanford, Faun. Ind. Mamm.

1888, p. 234, fig. 65 : uncoloured; of *Crocidura murina* (Linnaeus) 1766, of which *C. caerulea* is probably a form.

One purchased 19 April, 1883.

176. *Crocidura russula* (Hermann), in Zimmermann, Geogr. Gesch. **2**, p. 382, 1780. v. Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 101, 1912.

White-toothed Shrew.

*Hab.* Central and southern Europe.

*Fig.* Brehms Tierleben, Säugth. **1**, 1912, p. 276, lower fig.: uncoloured.

One from Albert, France, deposited 23 March, 1917.

## Family TALPIDAE.

Genus :

1. *Talpa* ..... Page 67

### Genus **Talpa** Linnaeus, Syst. Nat. **1**, p. 52, 1758.

Species :

1. *europaea* ..... Page 67

177. *Talpa europaea* Linnaeus, Syst. Nat. **1**, p. 52, 1758.

European Mole.

*Hab.* Europe: from Great Britain eastwards, and from the Mediterranean to Scandinavia.

*Figs.* Thorburn, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 14.

One presented 15 March, 1864, by Mr. G. N. L. Austin.

## Family CENTETIDAE.

Genus:

1. *Centetes* ..... Page 68

### Genus **Centetes** Illiger. Prodr. Syst. Mamm. p. 124, 1811.

Species:

1. *ecaudatus* ..... Page 68

178. *Centetes ecaudatus* (Schreber), Säugth. **3**, p. 590, 1778.

Tenrec.

*Hab.* Madagascar.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 80.

Two deposited 4 Sept. 1900, by the Hon. Walter Rothschild.

## Order IV. **CHRYSOCHLORIDEA.**

Family:

1. Chrysochloridae ..... Page —

*Chrysochloris* and allied genera, the "Golden Moles" of South Africa, not yet represented in the Gardens.

## Order V. **DERMOPTERA.**

Family:

1. Galeopithecidae ..... Page —

The "Flying Lemurs," "Kubong" or "Colugo" of Malaya and the Philippines, *Galeopithecus* (strictly *Cynocephalus*) and *Galeopterus*, not yet alive in the Gardens, 31 Dec. 1927.

## Order VI. CHIROPTERA.

Bats are divided into about eighteen families, four of which have been represented in the Gardens.

Families:


| | | Page |
|---|---|---|
| 1. | Pteropodidae | 69 |
| 2. | Vespertilionidae | 74 |
| 3. | Emballonuridae | 76 |
| 4. | Molossidae | 77 |


### Family PTEROPODIDAE.

Genera:


| | | Page |
|---|---|---|
| 1. | *Rousettus* | 69 |
| 2. | *Pteropus* | 70 |
| 3. | *Dobsonia* | 73 |
| 4. | *Epomophorus* | 73 |
| 5. | *Cynopterus* | 74 |


Genus **Rousettus** J. E. Gray, London Medical Repository, **15**, p. 299, 1821. *v.* K. Andersen, Brit. Mus. Cat. Chiroptera, **1**, p. 16, 1912.

Species:


| | | Page |
|---|---|---|
| 1. | *leachi* | 69 |
| 2. | *aegyptiacus* | 70 |


179. *Rousettus leachi* (A. Smith), 1829, Zool. Journ. **4**, p. 433. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 25, 1912.

*Cynonycteris collaris.*

African Collared Fruit-Bat.

*Hab.* South and central Africa: from Cape Town to British East Africa.

*Figs.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1840, pl. 48. P. Z. S. 1870, p. 127, ♀ & juv.: uncoloured.

One of these bats, captured at sea off the St. John's

River, Natal, 1 March, 1868, was purchased in London, 27 May, 1868.

Eighty-nine born in the Gardens 1870–1910: born in every month in the year.

180. *Rousettus aegyptiacus* (E. Geoffroy), Ann. Mus. Hist. Nat. Paris, **15**, p. 96, 1810. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 29, 1912.

Egyptian Fruit-Bat.

*Hab.* Western tropical and north-east Africa: from Loanda and Gaboon to Erythrea and Egypt, and north to Palestine, Syria and Cyprus.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 15.

One, captured in the Red Sea, purchased 4 July, 1879; probably of this species.

Genus **Pteropus** Brisson, Regn. Anim. ed. 2, pp. 13, 153–155, 1762. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 61, 1912.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *hypomelanus* | 70 | 6. *gouldi* | 72 |
| 2. *formosus* | 71 | 7. *nechibernicus* | 72 |
| 3. *pselaphon* | 71 | 8. *poliocephalus* | 72 |
| 4. *giganteus* | 71 | 9. *scapulatus* | 73 |
| 5. *vampyrus* | 71 | | |


181. *Pteropus hypomelanus* Temminck, Esq. Zool. p. 61 (pt.), 1853. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, pp. 101, 127, 1912.

Blackish Fruit-Bat.

*Hab.* East Indian Archipelago: typically from Ternate, this species extends west to Siam and Mergui, and east to New Guinea and its islands. At least twelve geographical races have been recognized.

*Fig.*

One, deposited 29 April, 1867, had been captured at sea on a vessel coming from China.

182. *Pteropus formosus* P. L. Sclater, Proc. Zool. Soc. London, 1873, p. 193.

Formosa Fruit-Bat.

*Hab.* Formosa.

*Fig.* P. Z. S. 1873, pl. 22.

A pair presented 9 Jan. 1873, by the Rev. Mr. Ritchie, were the types of the species: one of this pair lived in the Gardens till 4 Oct. 1879.

183. *Pteropus pselaphon* Lay, Zool. Journ. **4**, p. 457, 1829. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 301, 1912.

Hairy-footed Fruit-Bat. Lay's Fruit-Bat.

*Hab.* North Pacific Magellan Archipelago: Bonin and Volcano Islands.

*Figs.* Temminck, Mon. Mamm. **2**, 1837, pl. 37: "Rousette à pieds velus." Richardson, Zool. Beechy Voy. Blossom, Mamm. 1839, pl. 2.

One presented 2 Sept. 1896, by Capt. Kemp.

184. *Pteropus giganteus* (Brünnich), Dyr. Hist. **1**, pp. 45, 59, 1782. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, pp. 326, 329, 1912.

*Pteropus medius.*

Indian Fruit-Bat, or Flying-Fox.

*Hab.* India, Ceylon, Nepal, Assam and Manipur.

*Figs.* Tickell, Calcutta Journ. N. H. **3**, 1843, pl. 3, as *P. edulis*: uncoloured. W. Austen, in Finn, Wild Beasts of World, 1909, pl. opp. p. 176.

Three purchased 19 Feb. 1861.
Six born in the Gardens 1923–1927.

185. *Pteropus vampyrus* (Linnaeus), Syst. Nat. **1**, p. 31, 1758.

*Pteropus edulis.*

Malay Fruit-Bat, or Flying-Fox.

*Hab.* Malay Peninsula and islands, including the Philippines.

*Figs.* Pennant, Hist. Quadr. ed. 2, 1793, pl. 103 : uncoloured. Horsfield, Zool. Res. Java, 1822, pl. 11, as *P. javanicus.*

First received 5 April, 1856, when three were purchased which had been brought to England by Capt. Nesbit (or Nisbett) : one of these lived in the Gardens till 7 Jan. 1857.

186. *Pteropus gouldi* Peters, MB. Akad. Berlin, 1867, p. 703. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 370, 1912.

*Pteropus funereus* nec Temminck.

Gould's Fruit-Bat.

*Hab.* Australia : Queensland, Northern Territory and northern Western Australia.

*Fig.* Gould, Mamm. Austr. **3**, 1863, pl. 30, as *P. funereus.*

One purchased 1 May, 1896.

187. *Pteropus neohibernicus* Peters, MB. Akad. Berlin, 1876, p. 317.

*Pteropus papuanus* Peters & Doria 1881. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, pp. 385, 387, 823, 824, 1912.

Papuan Fruit-Bat.

*Hab.* New Guinea, and islands to the north-east.

*Fig.* P. Z. S. 1888, pl. 20, fig. 2 (head only), as *P. coronatus.*

One from south-eastern New Guinea, purchased 19 Nov. 1925.

188. *Pteropus poliocephalus* Temminck, Mon. Mamm. **1**, p. 179, 1825. *v.* K. Andersen, Brit. Mus. Cat. Chir, **1**, p. 397, 1912.

Grey-headed Fruit-Bat.

*Hab.* Australia : eastern coast regions.

*Figs.* Gould, Mamm. Austral. **3**, 1863, pl. 28. Le Souef & Burrell, Wild Animals of Australasia, 1926, figs. 2, 3 : photographs.

A female was presented 4 July, 1868, by H.R.H. The Duke of Edinburgh.
One born in the Gardens 7 Oct. 1882.

189. *Pteropus scapulatus* Peters, MB. Akad. Berlin, 1862, p. 574. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 403, 1912.
Australian Collared Fruit-Bat.
*Hab.* Northern Australia, from Queensland to Western Australia.
*Fig.*
One, from Thursday Island, purchased 27 May, 1884.

Genus **Dobsonia** Palmer, Proc. Biol. Soc. Wash. **12**, p. 114, 1898. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 448, 1912.

Species :

1. *moluccensis* ..... Page 73

190. *Dobsonia moluccensis* (Quoy & Gaimard), Voy. Astrolabe, Zool. **1**, p. 86, 1830. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, pp. 464, 466, 825, 1912.
Moluccan Fruit-Bat.
*Hab.* Indo-Australian islands, from the Moluccas to New Guinea.
*Fig.* Quoy & Gaimard, *l.c.s.* pl. 11, as *Hypoderma moluccense.*
Two from South-eastern New Guinea, purchased 19 Nov. 1925, were referred to *Dobsonia moluccensis magna* Thomas 1905.

Genus **Epomophorus** E. T. Bennett, Proc. Zool. Soc. London, 1835, p. 149.

Species :

1. *gambianus*..... ..... Page 73

191. *Epomophorus gambianus* (Ogilby), Proc. Zool. Soc. London, 1835, p. 100.
Gambian Fruit-Bat.

*Hab.* West Africa.

*Fig.* Trans. Z. S. **2**, 1836, pl. 6, as *Pteropus whitei*.

A Bat presented 20 March, 1858, by Mr. A. Swanzy, may have been of this species, but the identification is conjectural. No further specimens have been received.

Genus **Cynopterus** F. Cuvier, Dents Mamm. p. 248, 1824. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 586, 1912.

Species :

1. *sphinx* ..... Page 74

192. *Cynopterus sphinx* (Vahl), Skr. Nat. Selsk. **4**, Heft 1, p. 123, 1797. *v.* K. Andersen, Brit. Mus. Cat. Chir. **1**, p. 598, 1912.

*Cynopterus marginatus*.

White-eared Fruit-Bat. Plantain Bat.

*Hab.* India, Ceylon, Assam, northern Burma and northern Siam.

*Fig.* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **15**, 1810, pl. 5, as *Pteropus marginatus*.

A pair purchased 4 May, 1871, from Mr. Jamrach. One born in the Gardens 6 March, 1872.

## Family VESPERTILIONIDAE.

Genera :

1. *Myotis* ..... Page 74
2. *Pipistrellus* ..... 76
3. *Nyctalus* ..... 75
4. *Plecotus* ..... 76

Genus **Myotis** Kaup, Entw.-Gesch. u. Natürl. Syst. Europ. Thierw. **1**, p. 106, 1829.

Species :

1. *nattereri* ..... Page 75

193. *Myotis nattereri* (Kuhl), Ann. Wetterau. Gesellsch. Naturk. **4**, pt. 1, p. 33, 1818. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 174, 1912.

*Vespertilio nattereri.*

Natterer's Bat.

*Hab.* Europe: Great Britain and Ireland, and central and southern continental Europe.

*Fig.* Lodge, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 10.

Twelve presented 19 July, 1872, by Lord Lilford, F.Z.S.: they all died within a few days of their arrival.

Genus **Pipistrellus** Kaup, Entw.-Gesch. u. Natürl. Syst. Europ. Thierw. **1**, p. 98, 1829.

Species:

1. *pipistrellus* ..... Page 76

194. *Pipistrellus pipistrellus* (Schreber), Säugth. **1**, p. 167, pl. 54, 1774.

*Vesperugo pipistrellus.*

Pipistrel Bat.

*Hab.* Europe: very widely distributed from the British Isles, Spain and Scandinavia, eastward into Asia.

*Fig.* Lodge, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 8.

One presented 7 Feb. 1901, by Mr. L. Grundell.

Genus **Nyctalus** Bowditch, Excursions in Madeira and Porto Santo, p. 36, 1825.

Species:

1. *noctula* ..... Page 75

195. *Nyctalus noctula* (Schreber), Säugth. **1**, p. 166, pl. 52, 1774.

*Vespertilio noctula. Vesperugo noctula.*

Noctule Bat.

*Hab.* Europe : from England, Spain and Scandinivia eastward into Asia.

*Fig.* Lodge, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 6.

Five purchased 26 Aug. 1861.

Genus **Plecotus** E. Geoffroy, Descript. de l'Égypte, Hist. Nat. **2**, p. 112, 1812.

Species :

Page
1. *auritus* ..... 76

196. *Plecotus auritus* (Linnaeus), Syst. Nat. **1**, p. 32, 1758.

Long-eared Bat.

*Hab.* Europe : from Great Britain and Ireland eastward into Asia, and in North Africa.

*Fig.* Lodge, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 4.

One presented 11 Nov. 1876, by Miss E. M. Smee.

## Family EMBALLONURIDAE.

Genera :

Page
1. *Taphazous* ..... 76
2. *Rhinopoma* ..... 77

Genus **Taphazous** E. Geoffroy, Descript. de l'Egypt, Hist. Nat. **2**, p. 113, 1812.

Species :

Page
1. *nudiventris* ..... 76

197. *Taphazous nudiventris* Cretzschmar, in Rüppell, Atlas, nördl. Afr. p. 70, pl. 27 B, 1826.

Naked-bellied Tomb-Bat, or Sheath-tailed Bat.

*Hab.* Egypt and Arabia.

*Figs.* Cretzschmar, *l. c. s.* Anderson, Zool. Egypt, Mamm. 1902, pl. 20, fig. 2 (hind quarters only).

One presented 20 Jan. 1873, by Mr. W. Jamrach.

Genus **Rhinopoma** E. Geoffroy, Descript. de l'Égypte, Hist. Nat. **2**, p. 113, 1812.

Species :

1. *microphyllum* ..... Page 77

198. *Rhinopoma microphyllum* (Brünnich), Dyr. Hist. Univ. Nat.-Theat. **1**, p. 50, 1782.

Long-tailed Bat. Mouse-tailed Bat.

*Hab.* North-east Africa and south-west Asia : Egypt to India.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 20, fig. 3.

Sixteen received 12 May, 1914, six in exchange and ten on deposit.

## Family MOLOSSIDAE.

Genus :

1. *Nyctinomus* ..... Page 77

Genus **Nyctinomus** E. Geoffroy, Descript. de l'Égypt, Hist. Nat. **2**, p. 114, 1812.

Species :

1. *angolensis*..... Page 77

199. *Nyctinomus angolensis* Peters, Jornal Sciencias, Lisboa, **3**, 10, p. 124, 1870.

Angola Bat.

*Hab.* Southern and tropical Africa : Angola to Lagos, and Madagascar.

*Fig.* Brit. Mus. Cat. Chir. 1878, pl. 22, fig. 4 : head only, uncoloured.

One presented 20 June, 1903, by Mr. B. McMillan.

## Order VII. CARNIVORA.

(Carnivora vera, or Fissipedia.)

Families :


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| 1. Felidae | 78 |
| 2. Cryptoproctidae | 91 |
| 3. Viverridae | 91 |
| 4. Protelidae | 109 |
| 5. Hyaenidae | 110 |
| 6. Canidae | 111 |
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| 8. Procyonidae | 144 |
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| 11. Ursidae | 147 |


## Family FELIDAE.

Genera :


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| 1. *Felis* | 78 |
| 2. *Acinonyx* | 90 |


### Genus **Felis** Linnaeus, Syst. Nat. **1**, p. 41, 1758.

Species :


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| 1. *leo* | 79 |
| 2. *tigris* | 79 |
| 3. *pardus* | 79 |
| 4. *onca* | 80 |
| 5. *uncia* | 80 |
| 6. *catus* | 80 |
| 7. *silvestris* | 81 |
| 8. *ocreata* | 81 |
| 9. *nigripes* | 82 |
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| 11. *lynx* | 82 |
| 12. *pardella* | 83 |
| 13. *canadensis* | 83 |
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| 25. *viverrina* | 87 |
| 26. *planiceps* | 87 |
| 27. *nebulosa* | 87 |
| 28. *pardalis* | 88 |
| 29. *tigrina* | 88 |
| 30. *yaguarondi* | 88 |
| 31. *eyra* | 89 |
| 32. *geoffroyi* | 89 |
| 33. *salinarum* | 89 |
| 34. *pardinoides* | 90 |
| 35. *pajeros* | 90 |


* = Not yet in London Z. G., 31 Dec. 1927.

200. *Felis leo* Linnaeus, Syst. Nat. 1, p. 41, 1758.

Alternative name *Panthera leo.*

Lion.

*Hab.* Africa and parts of western and south-western Asia.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 3.

First received in Regent's Park 9 June, 1829, when one was transferred there from the Tower of London menagerie.

About sixty born alive in the Gardens 1843–1927.

A hybrid between a male Lion and a female hybrid Jaguar-Leopard, which had been bred in America, was deposited 14 April, 1908.

A male hybrid Tiger-Lion, bred at Nawanagar in India, was presented 21 June, 1924, by Lieut.-Col. H. H. The Maharajah Jam Sahib of Nawanager, G.C.S.I., G.B.E.

201. *Felis tigris* Linnaeus, Syst. Nat. 1, p. 41, 1758.

Alternative name *Panthera tigris.*

Tiger.

*Hab.* India and eastern Asia.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 47.

A tigress, presented 8 June, 1829, by Capt. Mangley, was the first received in the Gardens. Individuals have been exhibited from many parts of India, from Turkestan, Assam, the Malay Peninsula, Sumatra, China, etc. Two Siberian Tigers were presented 11 June, 1906, by H.G. The Duke of Bedford, K.G., P.Z.S.

About twelve born alive in the Gardens 1863–1881.

202. *Felis pardus* Linnaeus, Syst. Nat. 1, p. 41, 1758.

Alternative name *Panthera pardus.*

Leopard, or Panther.

*Hab.* Asia and Africa.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 4 : spotted and black varieties. P.Z.S. 1862, pl. 33 : *Leopardus japonensis* ; 1899, pl. 54 : "Leopard of the Caucasus."

First received 3 June, 1828.

About thirty-eight born in the Gardens 1839–1924, including a black one born 22 June, 1924, which was reared.

203. *Felis onca* Linnaeus, Syst. Nat. **1**, p. 42, 1758.

Alternative name *Panthera onca*.

Jaguar.

*Hab.* South and Central America, and Mexico.

*Figs.* P. Z. S. 1857, Mamm. pl. 58, as *Leopardus hernandesii*. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 48.

First exhibited in the Gardens in July, 1829. Individuals have been received from many localities; a female from Marzatlan, Mexico, presented 28 Nov. 1857, by Miss M. Knight, was the type of *Leopardus hernandesii* J. E. Gray, P. Z. S. 1857, p. 278.

About seven born in the Gardens 1861–1913.

204. *Felis uncia* Schreber, Säugth. **3**, p. 586, 1778.

Alternative name *Uncia uncia*.

Ounce. Snow-Leopard.

*Hab.* Highlands of Central Asia: Tibet, etc., north to the Altai.

*Figs.* Schreber, *l. c. s.* pl. 100. C. E. Swan, in Finn, Wild Beasts of World, 1909, pl. opp. p. 72.

First received 6 March, 1891.

205. *Felis catus* Linnaeus, Syst. Nat. **1**, p. 42, 1758, *Felis domestica*.

Domestic Cat.

*Hab.* Among the breeds exhibited in the Gardens from 1828 onwards were "Abyssinian," "Anatolian," "Angoran," "Indian," "Manx," "Persian," and "Siamese."

For the division of the Domestic Cat into two species:—

A. Striped Tabby, *Felis torquata*, F. Cuvier 1826: Synonymy. *F. angorensis*, *F. striata*;

B. Blotched Tabby, *Felis catus* Linnaeus 1758 ;
*see* Pocock, P.Z.S. 1907, i. pp. 147, 149, 151, pls. 8, 9.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 53, as *Catus domesticus*.

206. *Felis silvestris* Schreber, Säugth. **3**, p. 397, 1777.
*Felis catus* List, ed. 9, 1896, p. 58.

European Wild Cat.

*Hab.* Europe : from Great Britain and Spain, through central and southern Europe, eastward into Asia Minor and Caucasia.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **1**. 1904, pl. 17.

First received 11 June, 1828.

Individuals have been exhibited in the Gardens of the typical *Felis silvestris silvestris* of central Europe, of *F. s. grampia* Miller 1907 from Scotland, and of *F. s. tartessia* Miller 1907 from Andalusian Spain.

Eight hybrid cats are recorded as having been born in the Gardens :—

3 *Felis silvestris* ♂ × *Felis ocreata ugandae* ♀, 14 Aug. 1907. *v.* Pocock, P.Z.S. 1907, **2**, pp. 749, 750, text-figs. 194, 195.

3 "*Felis chaus* × *Felis domestica*," 24 March, 1913 : two lived.

2 "*Felis chaus* × *Felis domestica*," 6 March, 1914 : one lived.

207. *Felis ocreata* J. F. Gmelin, Anh. Bruce Reisen Africa, p. 79, 1791. *v.* Sherborn, Index Anim. **1**, p. 687, 1902.

Fettered Cat. Libyan Cat. Caffer Cat.

*Hab.* Africa : from Cape Colony to Egypt, and Syria.

*Figs.* Cretzschmar, Rüppell, Reis. n. Afr. Atlas, 1826, pl. 1, as *Felis maniculata*. Anderson, Zool. Egypt, Mamm. 1902, pl. 24, as *Felis lybica*.

First received in 1852, or earlier. Individuals have been presented from Cape Colony (*F. ocreata cafra*)*, Uganda (*F. ocreata ugandae*), Somaliland the Abyssinian coast, Suakim, Egypt, Syria, etc.

* *Felis cafra* Desmarest, Mamm. Suppl. p. 540, 1822. *Felis caffra* List, ed. 9, 1896, p. 59.

208. *Felis nigripes* Burchell, Travels S. Africa, **2**, p. 592, 1824.

Alternative name *Microfelis nigripes*.

Black-footed Cat.

*Hab.* South Africa: north to Zambesiland, and to Damaraland.

*Figs.* P.Z.S. 1907, pp. 672, 673, text-figs. 177, 178: photographs.

Two presented 26 May, 1906, by Mr. A. W. Guthrie, C.M.Z.S.

209. *Felis chaus* Schreber, Säugth. **3**, 1777, *nec* Guelden-staedt, Nov. Comm. Ac. Petrop. **20**, p. 483, 1776. *v.* de Winton, Ann. Mag. Nat. Hist. (7) **2**, p. 291, 1898, & J. A. Allen, J. Mamm. Baltimore, **1**, pp. 90, 91, 1920.

Jungle Cat. Marsh Cat.

*Hab.* Egypt and Asia: from Palestine and Trans-caucasia eastwards to Burma and Indo-China.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **1**, 1829, pl. 3: *Felis affinis*. Anderson, Zool. Egypt, Mamm. 1902, pl. 25.

First received in 1843, or early in 1844.

Individual Cats from India have been called *Felis affinis*.

210. *Felis lynx* Linnaeus, Syst. Nat. **1**, p. 43, 1758.

Alternative name *Lynx lynx*.

Northern Lynx. Scandinavian Lynx.

*Hab.* Europe and Asia: wooded portions of Europe from the Pyrenees and Alps to the extreme north, and from the Atlantic coast eastward to Ladák, Tibet, etc., and all suitable parts of Asia north of the Himalayas. Now practically exterminated in many European countries.

*Fig.* Wolf, Zool. Sketches (2) 1867, pl. 6.

First received in 1828. Individuals have come from Norway 1838, the Carpathians 1882, Astor (Baltistan) 1882, Cashmir 1896, and the Caucasus 1905. Asiatic specimens are often called *Felis isabellina* Blyth 1847.

211. *Felis pardella* (Miller), Ann. Mag. Nat. Hist. (7) **20**, p. 398, 1907.

*Felis pardina* List, ed. 9, 1896, p. 59 (not of Oken 1816).

Alternative name *Lynx pardellus*.

Spanish Lynx.

*Hab.* Spain and Portugal.

*Fig.* Elliot, Mon. Felidae, 1883, pl. 38.

One presented 15 May, 1839, by Mr. C. Haurie.

212. *Felis canadensis* (Kerr), Anim. Kingd. **1**, p. 157, 1792.

Alternative name *Lynx canadensis*.

Canadian Lynx.

*Hab.* Northern North America: Newfoundland to Alaska.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 12.

At least one individual in Gardens before 29 April, 1831.

213. *Felis rufa* Schreber, Säugth. pl. 109 *b*, 1777. *v.* J. A. Allen, J. Mamm. Baltimore, **1**, pp. 90, 91, 1920.

Alternative name *Lynx rufus*.

Bay Lynx. Bobcat.

*Hab.* North America: Nova Scotia to California, south to Florida and Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 1.

First received 17 Nov. 1830.

214. *Felis caracal* Schreber, Säugth. pl. 110, 1777.

Alternative name *Caracal caracal*.

Caracal Lynx.

*Hab.* Africa and Asia: widely distributed in suitable localities from South Africa to Egypt and Morocco, and from Palestine to India.

*Figs.* Wolf, Zool. Sketches, 1861, pls. 10 & 11, showing individual colour-phases.

The first received was one presented 21 Feb. 1831, by H.R.H. The Duke of Sussex : it died 29 Dec. 1836.

Seven born in the Gardens 1908–1912.

215. *Felis manul* Pallas, Reise Russ. Reichs. **3**, p. 692, 1776.

Alternative name *Trichailurus manul.*

Manul, or Pallas's Cat.

*Hab.* Asia: Transcaspia, Turkestan, Tibet, Siberia and Mongolia.

*Figs.* J. Asia. Soc. Bengal, **11**, 1842, v. p. 276, pl. 2, as *Felis nigripectus.* P. Z. S. 1907, i. p. 300, text-fig. 87 : photograph.

One from Tibet, received 3 April, 1906, in exchange from the Calcutta Z. G., was called *Otolocobus manul nigripectus* (Hodgson).

216. *Felis concolor* Linnaeus, Mantissa Plant., Regn. Anim. Append., p. 522, 1771.

Alternative name *Puma concolor.*

Puma. Couguar. Mountain-Lion (in America).

*Hab.* America: from Patagonia northwards to the borders of the United States and British Columbia. Divided into many local races, which have been given specific or subspecific names.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pls. 96 & 97. P. Z. S. 1861, pl. 22 : juv.

First received 3 June, 1828. A white Puma is recorded to have been purchased from Mr. Jamrach 27 May, 1848 : it died 20 Jan. 1852.

Thirty born in the Gardens 1831–1925.

217. *Felis serval* Schreber, Säugth. p. 407, pl. 108, 1776.

Alternative name *Leptailurus serval.*

Serval.

*Hab.* Tropical and South Africa.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 8.

First received 11 Jan. 1839. Individuals have come from various parts of South, West and East Africa. A black Serval from Nairobi was presented 25 April, 1911.

Synonym. *Felis capensis* J. R. Forster 1781.

218. *Felis servalina* W. Ogilby, Proc. Zool. Soc. London, 1839, p. 94.

Alternative name *Leptailurus ogilbyi* (Schinz), 1844.

Servaline Cat.

*Hab.* Tropical Africa: from Senegambia, Sierre Leone and the Congo-Angola border eastward to the Bahr-el-Ghazal and Uganda.

*Fig.* P. Z. S. 1874, pl. 63.

First received 11 Sept. 1874, when one was presented by Mr. S. Shield.

A young female, of unknown locality, presented 23 June, 1897, by the Rev. E. Millar, was described as *Felis servalina liposticta* Pocock, P. Z. S. 1907, p. 666, pl. 38, fig. 4. One, from Uganda, presented 4 June, 1898, by Mr. F. G. Hall, was referred to *F. s. pantastica* Pocock, P. Z. S. 1907, p. 665, pl. 38, fig. 3.

219. *Felis bengalensis* Kerr, Anim. Kingd. p. 151, 1792.

Alternative name *Prionailurus bengalensis*.

Indian Leopard-Cat.

*Hab.* South-eastern Asia: from India to Tonkin and the Philippine Islands, south to the Malay Peninsula and islands.

*Fig.* Elliot, Mon. Felidae, 1878–1883, pl. 21.

First received before 29 April, 1833.

220. *Felis rubiginosa* I. Geoffroy, Bélanger, Voy. Ind. Or. Zool. p. 140, 1834.

Alternative name *Prionailurus rubiginosus*.

Rusty-spotted Cat.

*Hab.* Ceylon and southern peninsular India.

*Figs.* I. Geoffroy, *l. c. s.* pl. 6. Elliot, Mon. Felidae, 1878–1883, pl. 29.

One presented 14 Sept. 1881, by Mr. C. E. Pole Carew.

221. *Felis marmorata* Martin, Proc. Zool. Soc. London, 1836, p. 108.

Alternative name *Pardofelis marmorata.*

Marbled Cat.

*Hab.* South-eastern Asia: from Sikhim and the Eastern Himalayas, through the hilly regions of Assam and Burma, to the Malay Peninsula and islands.

*Fig.* Elliot, Mon. Felidae, 1878–1883, pl. 9.

One from Perak, Malay Peninsula, presented 29 May, 1885, by Mr. Frank Swettenham.

222. *Felis aurata* Temminck, Mon. Mamm. 1, p. 120, 1827. *v.* Pocock, Proc. Zool. Soc. London, 1907, p. 656.

*Felis chrysothrix* List, ed. 9, 1896, p. 58.

Alternative name *Profelis aurata.*

African Tiger-Cat.

*Hab.* Tropical West Africa: from Sierre Leone to the Ituri Forest.

*Fig.* P. Z. S. 1873, pl. 27.

One presented 2 Aug. 1843, by the Earl of Derby: it died 20 Oct. 1843.

223. *Felis temminckii* Vigors & Horsfield, Zool. Journ. 3, p. 451, 1828.

Alternative name *Profelis temminckii.*

Golden Cat.

*Hab.* Eastern Asia: widely distributed from the Himalayas to China, and southwards to Sumatra and Borneo. Various varieties and local races appear to exist.

*Figs.* P. Z. S. 1867, pl. 36, as *Felis "aurata"*; 1898, pl. 1, as *Felis dominicanorum.*

First received 19 June, 1867, in exchange from the Amsterdam Z. G.

One, from the Province of Foochow, China, presented 6 Dec. 1897. by Messrs. C. B. Rickett & J. de La Touche, was the type of *F. dominicanorum* La Touche, P. Z. S. 1898, pp. 1, 2.

224. *Felis viverrina* E. T. Bennett, Proc. Zool. Soc. London, 1833, p. 68.

Alternative name *Zibethailurus viverrina*.

Fishing Cat.

*Hab.* South-Eastern Asia: India and Ceylon to southern China and Indo-China, south to the Malay Peninsula.

*Fig.* Wolf, Zool. Sketches (2) 1867, pl. 7.

One purchased, for £15, 10 June, 1843: it died 14 Oct. 1844.

225. *Felis planiceps* Vigors & Horsfield, Zool. Journ. 3, p. 450, 1828.

Alternative name *Ictailurus planiceps*.

Rusty Tiger-Cat.

*Hab.* Malaya: Malay Peninsula, Sumatra, Borneo.

*Figs.* Vigors & Horsfield, *l. c. s.* pl. 12. Elliot, Mon. Felidae, 1883, pl. 17.

One in the Gardens before 29 April, 1833.

226. *Felis nebulosa* Griffith, Carnivora, p. 37, 1821.

*Felis macrocelis. Felis macroceloides.*

Alternative name *Neofelis nebulosa*.

Clouded Leopard. Clouded Tiger.

*Hab.* East Indies: in hilly or mountainous districts from Sikhim and Bhutan, through Assam and Burma to Siam and the Malay Peninsula and islands.

*Figs.* P. Z. S. 1862, pl. 43, as *Leopardus brachyurus* (Formosa specimen). Wolf, Zool. Sketches, 1861, pl. 7 (Assam specimens).

First received—one purchased 24 March, 1854: it appears to have died 1 April, 1854. Two purchased 16 May, 1854, died 15 Nov. and 1 Dec. 1858.

In the autumn of 1824 one, from Sumatra, was brought alive to England by Sir Stamford Raffles. Among the localities from whence the Society has received specimens are Nepal, Assam and British North Borneo.

227. *Felis pardalis* Linnaeus, Syst. Nat. **1**, p. 42, 1758.

Alternative name *Leopardus pardalis*.

Ocelot.

*Hab.* America: typically from Mexico, extending south through Central America to many parts of South America. Many local or individual forms have been named as separate species or subspecies.

*Figs.* Fraser, Zool. Typ. 1849, pl. 11, as *Felis melanura*. Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 86. Wolf, Zool. Sketches, 1861, pl. 5, as *Felis picta*.

First received in 1828.

Two born in Gardens 11 Dec. 1857, and one 29 April, 1858.

228. *Felis tigrina* Schreber, Säugth. **3**, p. 396, pl. 106, 1775.

Alternative name *Margay tigrina*.

Margay. American Tiger-Cat.

*Hab.* South America: from southern Brazil northwards, with allied forms in Central America and Mexico.

*Fig.* Elliot, Mon. Felidae, 1883, pl. 19.

One alive in the Gardens 20 Oct. 1830.

229. *Felis yaguarondi* Lacépède, in Azara, Voy. dans. l'Amér. Mérid. pl. 10, 1809.

*Felis yaguarundi* List, ed. 9, 1896, p. 60.

Alternative name *Herpailurus yaguarondi*.

Jaguarondi Cat.

*Hab.* America: from Argentina, Paraguay and southern Brazil, through South and Central America to Mexico, and probably into Texas (within the last century).

*Figs.* Azara, *l. c. s.*: uncoloured. Wolf, Zool. Sketches (2) 1867, pl. 5.

First received in 1852.

The red colour-phase of the *yaguarondi* has usually been considered a separate species, *eyra*.

230. *Felis eyra* Desmarest, Mamm. **1**, p. 231, 1820.

Alternative name *Herpailurus eyra*.

Eyra Cat.

*Hab.* America: from Argentina to Mexico.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 6.

First received 29 April, 1850, in exchange from the Antwerp Z. G.

The Eyra is probably not a distinct species, but a colour-phase of the Jaguarondi.

231. *Felis geoffroyi* D'Orbigny & Gervais, Extr. Proc.-Verb. Soc. Philom. Paris, p. 40, 1844.

*Felis geoffroii* List, ed. 9, 1896, p. 61.

Alternative name *Oncifelis geoffroyi*.

Geoffroy's Cat. Argentine Wood-Cat.

*Hab.* South America: from the Magellan Straits north to Paraguay.

*Fig.* P. Z. S. 1867, pl. 24, as *Pardalina warwicki*.

A male purchased 10 Oct. 1870.

232. *Felis salinarum* Thomas, Ann. Mag. Nat. Hist. (7) **12**, p. 239, 1903.

Alternative name *Oncifelis salinarum*.

Salt-Desert Cat.

*Hab.* South America: Argentina and southern Bolivia.

*Figs.* J. A. Allen, Bull. Amer. Mus. Nat. Hist. **41**, 1919, pp. 412–417, figs. 24–29: photographs of skins.

One presented 16 Dec. 1915, by Mr. W. A. Smithers, C.M.Z.S.

233. *Felis pardinoides* J. E. Gray, Proc. Zool. Soc. London, 1867, p. 400.

Alternative name *Oncilla pardinoides*.

Hensel's Cat.

*Hab.* South America: from south-western Brazil to Ecuador, Colombia and Venezuela, extending into Central America. *Felis pardinoides oncilla* Thomas 1903 is from Costa Rica.

*Fig.* Elliot, Mon. Felidae, 1883, pl. 20: lower figure.

One presented 11 June, 1917, by Mr. W. A. Smithers, C.M.Z.S.

234. *Felis pajeros* Desmarest, Nouv. Dict. Hist. Nat. (2) **6**, p. 114, 1816.

*Felis passerum* List, ed. 9, 1896, p. 61.

Alternative name *Lynchailurus pajeros*.

Pampas Cat.

*Hab.* South America: typically from Argentina, this species extends south to Patagonia, east to Uruguay and southern Brazil, west to Chile, and north to Peru and possibly to Ecuador.

*Fig.* Waterhouse, Zool. Voy. Beagle, Mamm. 1839, pl. 9.

The first received was one purchased 19 Oct. 1868.

Genus **Acinonyx** Brookes, Cat. Anat. & Zool. Mus. p. 16, 1828.

Species:

1. *jubatus* ..... Page 90

235. *Acinonyx jubatus* (Schreber), Säugth. **3**, pl. 105, 1778.

*Cynaelurus jubatus*.

Chita. Cheetah. Guépard. Hunting Leopard.

*Hab.* Africa and Asia: in suitable localities from the Cape to northern Egypt, and from Syria to Afghanistan and India.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 13. P. Z. S. 1877, pl. 55, as *Felis lanea*.

One purchased 11 May, 1829, appears to have been the first received.

A male from South Africa, purchased 29 May, 1877, from Mr. A. Mosenthal, was the type of "The Woolly Cheetah," *Felis lanea* P. L. Sclater, P. Z. S. 1877, p. 532.

## Family CRYPTOPROCTIDAE.

Genus :


| | Page |
|---|---|
| 1. *Cryptoprocta* | 91 |


Genus **Cryptoprocta** E. T. Bennett, Proc. Zool. Soc. London, 1833, p. 46.

Species :


| | Page |
|---|---|
| 1. *ferox* | 91 |


236. *Cryptoprocta ferox* E. T. Bennett, Proc. Zool. Soc. London, 1833, p. 46.

Fossa.

*Hab.* Madagascar.

*Fig.* Schlegel & Pollen, Rech. Faun. Madagascar, pt. 2, 1868, pl. 8.

A male purchased 12 Nov. 1890.

## Family VIVERRIDAE.

Genera :


| | Page | | Page |
|---|---|---|---|
| 1. *Viverra* | 92 | 12. *Herpestes* | 101 |
| 2. *Civettictis* | 92 | 13. *Ichneumia* | 104 |
| 3. *Viverricula* | 93 | 14. *Galerella* | 105 |
| 4. *Genetta* | 93 | 15. *Bdeogale* | 106 |
| 5. *Paradoxurus* | 96 | 16. *Atilax* | 106 |
| 6. *Arctictis* | 98 | 17. *Crossarchus* | 107 |
| 7. *Arctogale* | 99 | 18. *Mungos* | 107 |
| 8. *Nandinia* | 99 | 19. *Helogale* | 108 |
| 9. *Hemigalus* | 100 | 20. *Cynictis* | 108 |
| 10. *Galictis* | 100 | 21. *Suricata* | 109 |
| 11. *Galidia* | 101 | | |

Genus **Viverra** Linnaeus, Syst. Nat. **1**, p. 43, 1758.

Species :

Page
1. *zibetha* ..... 92
2. *tangalunga* ..... 92

237. *Viverra zibetha* Linnaeus, Syst. Nat. **1**, p. 44, 1758.

Large Indian Civet-Cat.

*Hab.* India, Burma, Siam, Tonkin, southern China, etc.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pl. 5. Blanford, Faun. Ind. Mamm. 1888, p. 97, fig. 23 ; uncoloured.

First received before 18 July, 1829.

238. *Viverra tangalunga* J. E. Gray, Proc. Zool. Soc. London, 1832, p. 63.

Sumatran Civet-Cat.

*Hab.* South-east Asia : Malay Islands from Sumatra eastwards to the Philippines and Moluccas, with allied forms in Burma, Indo-China and the Malay Peninsula.

*Fig.* P. Z. S. 1876, pl. 37 : *Viverra megaspila* from "Pinang."

One purchased 13 Jan. 1869.

Genus **Civettictis** Pocock, Proc. Zool. Soc. London, 1915, p. 134.

Species :

Page
1. *civetta* ..... 92

239. *Civettictis civetta* (Schreber), Säugth. **3**, pl. 111, 1778.

*Viverra civetta.*

African Civet-Cat.

*Hab.* Tropical Africa : widely distributed, several local races.

*Fig.* P. Z. S. 1871, pl. 29.

First received in 1828 or 1829, specimens have come from various localities in West Africa, from Angola, from East Africa and from the Anglo-Egyptian Sudan.

One born in the Gardens in July, 1862.

Genus **Viverricula** Hodgson, Ann. Mag. Nat. Hist. (1) **1**, p. 152, 1838.

Species :

1. *malaccensis* ..... Page 93

240. *Viverricula malaccensis* (J. F. Gmelin), Syst. Nat. **1**, p. 92, 1788.

Rasse Civet-Cat. Small Indian Civet.

*Hab.* South-eastern Asia : from India and Ceylon to South China and Tonkin, and south through the Malay Peninsula to Java, etc. Also found in Socotra, the Comoro Islands and Madagascar, possibly introduced by human agency.

*Figs.* Wolf, Zool. Sketches (2) 1867, pl. 8. Schlegel & Pollen, Rech. Faun. Madagascar, Part 2, 1868, pl. 10, as *Viverra schlegelii.*

In Gardens before 29 April, 1831.

One from Johanna, Comoro Islands, presented 28 Oct. 1872, by Mr. C. E. Bewsher, was referred to *Viverricula schlegeli* (Pollen).

Genus **Genetta** Oken, Lehrb. Naturges. **3**, pt. 2, p. 1010, 1816.

Genets vary so much individually, that those forms that have been alive in the Gardens might all be included in one species as *Genetta genetta* Linnaeus 1758. For historical interest eight species are maintained in this list.

Species :

1. *felina* ..... Page 94
2. *dongolana* ..... 94
3. *genetta* ..... 94
4. *pardina* ..... 95
5. *poensis* ..... 95
6. *rubiginosa* ..... 95
7. *senegalensis* ..... 95
8. *tigrina* ..... 96

241. *Genetta felina* (Thunberg), K. Vet. Ac. Nya Handl. **32** (3) p. 165, 1811. *v.* Sherborn, Index Anim. **2**, pt. 10, p. 2343, 1926.

Feline Genet

*Hab.* Africa : South and south-west Africa.

*Fig.* W. L. Sclater, Faun. S. Afric. Mamm. **1**, 1900, p. 56, fig. 14 : uncoloured.

One received between 29 April, 1837 and 30 April, 1838.

One received 1 March, 1911, was referred to *Genetta ludia* Thomas, P.Z.S. 1906, pt. 2, p. 579 : apparently a form of *G. felina*.

242. *Genetta dongolana* Hemprich & Ehrenberg, Symbolae Physicae, Mamm. 2, p. 6, not numbered : in article on *Herpestes leucurus*, 1832.

Dongola Genet.

*Hab.* North and East Africa : southern Algeria to the Egyptian-Sudan, Abyssinia, Somaliland, and into British East Africa.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 26.

First received 25 May, 1850, when one was presented by the Hon. Charles A. Murray.

One from Burao, Somaliland, was presented 16 May, 1908, by Dr. R. E. Drake-Brockman, F.Z.S.

*G. dongolana* is perhaps a northern form of *G. felina*.

243. *Genetta genetta* (Linnaeus), Syst. Nat. **1**, p. 45, 1758.
*Genetta vulgaris.*

European Genet.

*Hab.* South-western Europe : Spain, Portugal, France and the Balearic Islands, and of unascertained range in north and north-western Africa. Various local races.

*Fig.* Flower & Lydekker, Mamm. 1891, p. 528, fig. 233 : uncoloured.

First received in 1828. One said to be from "Cape Coast" received 4 Oct. 1864; one from Province Traz os Montes, Portugal, 24 July, 1871 ; one from Tripoli 23 Oct. 1877.

Three hybrids between this and other species of Genet are recorded as having been born in the Gardens : with *pallida* 9 March, 1858, with *tigrina* 5 Oct. 1859, and with *pardina* 18 June, 1885.

244. *Genetta pardina* I. Geoffroy, Mag. Zool. Paris, Cl. 1, pl. 8, text, 1832.
Pardine Genet.
*Hab.* West Africa: Senegal, Gaboon, Congo, etc.
*Fig.* I. Geoffroy, *l. c. s.* pl. 8.
One purchased 15 April, 1882.

245. *Genetta poensis* G. R. Waterhouse, Proc. Zool. Soc. London, 1838, p. 59.
Waterhouse's Genet.
*Hab.* West Africa : southern Nigeria.
*Fig.*
One presented 1 Oct. 1911, by Mr. W. A. Lamborn.

246. *Genetta rubiginosa* Pucheran, Rev. Mag. Zool. Paris, (2) 7, p. 154, 1855.
Rusty-spotted Genet.
*Hab.* Africa : south and central.
*Fig.*
One deposited 8 Nov. 1926.

247. *Genetta senegalensis* (J. B. Fischer), Synop. Mamm. p. 170, 1829.
Pale Genet.
*Hab.* Africa : Senegambia.
*Fig.* F. Cuvier, Hist. Nat. Mamm. 1821, livr. 35.
One presented 26 April, 1853, by Dr. Fitzgibbon.

248. *Genetta tigrina* (Schreber), Säugth. **3**, p. 425, pl. 115, 1778.

Blotched Genet.

*Hab.* South and East Africa.

*Fig.*

A female was living in the collection in 1859. Four born in the Gardens 1874–1875.

Genus **Paradoxurus** F. Cuvier, Hist. Nat. Mamm. No. 186, 1821.

Species:


| | Page |
|---|---|
| 1. *hermaphroditus* | 96 |
| 2. *aureus* | 97 |
| 3. *grayi* | 97 |
| 4. *larvatus* | 98 |
| 5. *leucomystax* | 98 |


249. *Paradoxurus hermaphroditus* (Pallas), Schreber, Säugth. **3**, p. 426, 1778.

*Paradoxurus niger*, *P. hermaphroditus* and *P. philippensis* List, ed. 9, 1896, p. 65.

Indo-Malayan Palm-Civet. Toddy Cat (in India). Músang (in Malaya).

*Hab.* South and south-eastern Asia :—

Typical *P. hermaphroditus* occurs in Burma, Siam, the Malay Peninsula, Sumatra, Java and Borneo.

*Paradoxurus niger* (Desmarest), Mamm. p. 208, 1820, is found in India and Ceylon.

*Paradoxurus philippinensis* Jourdan, C. R. Acad. Sci. **5**, p. 523, 1837, *v.* Blanford, Proc. Zool. Soc. London, 1885, p. 800, occurs in the Philippine Islands.

These are not distinct species. Individual specimens occur with intermediate characters. *P. niger* may be considered a western, and *P. philippinensis* an eastern form of the species *P. hermaphroditus*.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pls. 7, 8, 9, 12 & 13, as, respectively, *Paradoxurus crossii*, *P. pallasii*, *P. prehensilis*, *P. bondar* and

*P. pennantii.* Fitzinger, Bild-Atlas, Säugth. 1860, fig. 60, as *P. typus.* Blanford, Faun. Ind. Mamm. 1888, p. 109, fig. 27, as *P. hermaphroditus*: uncoloured.

First received 3 July, 1830.

One received 23 April, 1831, and called the White-fronted Paradoxure, *Paradoxurus albifrons*, was the type of *Paradoxurus pallasii* J. E. Gray, P. Z. S. 1832, p. 67.

One living in the Gardens 10 April, 1832, was the type of *Paradoxurus fuliginosus* J. E. Gray, P. Z. S. 1832, p. 65.

A Palm-Civet received between 29 April, 1837, and 30 April, 1838, was referred to *Paradoxurus crossii* J. E. Gray, P. Z. S. 1832, p. 67, the type of which was an animal that had lived in the Surrey Z. G. before April, 1832.

The first reference to *Paradoxurus philippinensis* being alive in the collection is in July, 1844.

One Palm-Civet, *Paradoxurus niger*, born in the Gardens 19 Oct. 1882.

250. *Paradoxurus aureus* F. Cuvier, Mém. Mus. Hist. Nat. Paris, **9**, p. 48, 1822.

Ceylonese Palm-Civet. Golden Palm-Cat.

*Hab.* Ceylon.

*Figs.* Cuvier, *l. c. s.* pl. 4, lower figure: uncoloured. P. Z. S. 1885, pl. 50.

First received between 29 April, 1844, and 29 April, 1845.

251. *Paradoxurus grayi* E. T. Bennett, Proc. Zool. Soc. London, 1835, p. 118.

Alternative name *Paguma grayi.*

Himalayan Palm-Civet.

*Hab.* Himalayas and Arakan, with a subspecies in the Andaman Islands, *P. tytlerii* Tytler, J. Asia. Soc. Bengal, **33**, p. 188, 1864.

*Fig.*

The type of *P. grayi* was a Palm-Civet living in the Society's Gardens 11 Aug. 1835; it had been purchased from a dealer. The first Andaman specimen received was presented 20 May, 1865, by Mr. A. Grote, C.M.Z.S.

252. *Paradoxurus larvatus* (H. Smith), in Griffith, Cuv. Anim. Kingd. **2**, p. 281, 1827.

Alternative name *Paguma larvata*.

Masked Palm-Civet.

*Hab.* East Asia : China, Formosa.

*Fig.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pl. 11.

One purchased 29 March, 1867.

Twelve born in the Gardens 1869–1912, and three hybrids between this species and *P. leucomystax* 1881–1882.

253. *Paradoxurus leucomystax* J. E. Gray, Proc. Zool. Soc. London, 1836, p. 88.

Alternative name *Paguma leucomystax*.

White-whiskered Palm-Civet.

*Hab.* South-east Asia : Tenasserim, Malay Peninsula, Sumatra and Borneo.

*Fig.* Fraser, Zool. Typ. 1849, pl. 10, as *Paradoxurus ogilbyi*, sp. n., the type of which had been alive in the Gardens.

One purchased 12 Oct. 1877, was the first individual referred to *P. leucomystax*.

Genus **Arctictis** Temminck, 1824, Prospectus de Monogr. des Mammifères, Monographies, **1**, p. xxi., **2**, p. 310, 1827.

Species :

1. *binturong* ..... Page 98

254. *Arctictis binturong* (Raffles), Trans. Linn. Soc. London, **13**, p. 253, 1822.

Binturong.

*Hab.* South-eastern Asia: from Assam and Siam through the Malay Peninsula to Sumatra, Java and Borneo.

*Fig.* Wolf, Zool. Sketches (2) 1867, pl. 10.

First received 1 June, 1843, when one was presented by the Earl of Auckland.

One presented 14 Aug. 1873, by Sir Harry Ord, C.B., was considered to be a Grey Binturong, *Arctictis albifrons* (F. Cuvier) 1822. *A. albifrons*, however, may be considered a synonym of *A. binturong*.

Genus **Arctogale** (Peters 1864 ined.), J. E. Gray, Proc. Zool. Soc. London, 1864, p. 542.

Species:

Page
1. *leucotis* ..... 99

255. *Arctogale leucotis* (Blyth), in Horsfield, Cat. Mamm. Mus. E.-India Co. p. 66, 1851.

*Arctogale trivirgata* and *A. leucotis* List, ed. 9, 1896, p. 66.

Small-toothed Palm-Civet.

*Hab.* South-east Asia: Assam, Burma, Siam, Malay Peninsula, Sumatra, Java, Borneo.

*Fig.* P. Z. S. 1877, pl. 71, as *Paradoxurus prehensilis*.

One presented 18 July, 1877, by Mr. W. H. Pattison was from Burma.

One from Borneo was purchased 26 May, 1880, and referred to *Paradoxurus stigmaticus* Temminck, Esq. Zool. p. 120, 1853, now sometimes called the Branded Palm-Civet, *Arctogalidea stigmatica*.

Genus **Nandinia** J. E. Gray, Brit. Mus. List Mamm. p. 54, 1843.

Species:

Page
1. *binotata* ..... 100

256. *Nandinia binotata* (Reinwardt), in J. E. Gray, Spic. Zool. **2**, p. 9, 1830.

Two-spotted Palm-Civet.

*Hab.* West Africa : Ashanti, Congoland, etc.

*Fig.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pl. 10, as *Paradoxurus hamiltonii* : " from the living animal in the Surrey Zoological Gardens."

First received between 29 April, 1839, and 29 April, 1840.

One born in the Gardens 19 July, 1882.

Genus **Hemigalus** Jourdan, C. R. Acad. Sci. Paris, **5**, p. 442, 1837. *v.* W. H. Flower, Cat. Osteol. Mus. R. Coll. Surg. **2**, p. 99, 184.

Species :

Page
1. *hardwickii* ..... 100

257. *Hemigalus hardwickii* (J. E. Gray), Spic. Zool. **2**, p. 9, 1830.

*Hemigalea hardwickii.*

Hardwicke's Civet-Cat. Zebra Civet-Cat.

*Hab.* South-east Asia : Malay Peninsula and Borneo.

*Fig.*

One purchased 13 Oct. 1881.

Genus **Galictis** I. Geoffroy, C. R. Acad. Sci. Paris, **5**, p. 581, 1837.

Species :

Page
1. *striata* ..... 100
2. *vittata* ..... 101

258. *Galictis striata* (I. Geoffroy), Dict. Class. Hist. Nat. **10**, p. 214, 1826.

*Galidictis striata.*

Broad-banded Mongoose.

*Hab.* Madagascar.

*Fig.*

A female presented 28 May, 1907, by the Ven. Archdeacon Kestell-Cornish.

259. *Galictis vittata* (J. E. Gray), Proc. Zool. Soc. London, 1848, p. 22.

*Galidictis vittata.*

Narrow-banded Mongoose.

*Hab.* Madagascar.

*Figs.* P. Z. S. 1848, Mamm. pl. 1. Voy. Samarang, 1850, Vert. pl. 7.

One deposited 12 March, 1906.

Genus **Galidia** I. Geoffroy, C. R. Acad. Sci. Paris, **5**, p. 580, 1837.

Species :

Page
1. *elegans* ..... 101

260. *Galidia elegans* I. Geoffroy, C. R. Acad. Sci. Paris, **5**, p. 581, 1837.

Elegant Mongoose.

*Hab.* Madagascar.

*Fig.*

A female purchased 14 Dec. 1867.

Genus **Herpestes** Illiger, Prodr. Syst. Mamm. pp. 135 & 302, 1811.

Species :

| | Page | | Page |
|---|---|---|---|
| 1. *ichneumon* ..... | 102 | 6. *fulvescens* ..... | 103 |
| 2. *cafra* ..... | 102 | 7. *vitticollis* ..... | 103 |
| 3. *nyula* ..... | 102 | 8. *urva* ..... | 104 |
| 4. *auropunctatus* ..... | 102 | 9. *javanicus* ..... | 104 |
| 5. *smithii* ..... | 103 | 10. *brachyurus* ..... | 104 |

261. *Herpestes ichneumon* (Linnaeus), Syst. Nat. **1**, p. 43, 1758.

Egyptian Mongoose, or Ichneumon. Nymss (in Egypt).

*Hab.* North and north-eastern Africa, with local races in the southern Sudan and on into Congoland, and a representative in Spain and Portugal.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 27.

The typical form was first exhibited in the Gardens before 29 April, 1831. The Spanish form, *Herpestes widdringtonii* J. E. Gray 1842, was first received in 1853.

262. *Herpestes cafra* J. F. Gmelin, Syst. Nat. **1**, p. 85, 1788.

Kaffir Mungoose. Large Grey Mongoose (South Africa).

*Hab.* Africa: typically from the Cape of Good Hope, it is distributed over nearly all southern and tropical Africa to as far north as Nigeria and Abyssinia, and is reported to have been introduced into Madagascar.

*Fig.* Matschie, Säugth. Deutsch-Ost-Africa, 1895, p. 79, fig. 45: uncoloured.

One presented 22 Sept. 1920, by Mr. R. H. Lapage.

Synonymy. *Herpestes cafer*, *Mungos caffer*.

263. *Herpestes nyula* (Hodgson), Journ. Asia. Soc. Bengal, **5**, p. 236, 1836.

*Herpestes griseus.*

Alternative name *Calogale nyula.*

Grey Mongoose. "Common Indian Mongoose."

*Hab.* India: widely distributed.

*Fig.* L. A. Sargent, in Finn, Wild Beasts of World, 1909, pl. opp. p. 92.

First received in 1828.

One born in the Gardens in 1898.

N.B.—This species is also known as *Herpestes edwardsi* and as *H. malaccensis.*

264. *Herpestes auropunctatus* (Hodgson), Journ. Asia. Soc. Bengal, **5**, p. 235, 1836.

Alternative name *Calogale auropunctatus.*

Spotted Mongoose. Burmese Mongoose.

*Hab.* Northern and eastern India, with a form in Burma, *H. a. birmanicus* Thomas 1886, which has been introduced and widely established in the West Indies.

*Fig.*

First received in 1848, or early in 1849.

Five born in the Gardens 1925, 1926 : all reared.

265. *Herpestes smithii* J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 578, 1837.

Alternative name *Calogale smithii.*

Ruddy Mongoose.

*Hab.* India and Ceylon.

*Fig.* P. Z. S. 1851, pl. 30.

The type lived in the Surrey Z. G. ; the first individual in the Society's Gardens was one brought from Ceylon by Mr. A. Grace in 1850.

266. *Herpestes fulvescens* Kelaart, Journ. Asia. Soc. Bengal, **20**, p. 162, 1851.

Altenative name *Calogale fulvescens.*

Ceylon Brown Mongoose. Mrs. MacCarthy's Mongoose.

*Hab.* Ceylon.

*Fig.* P. Z. S. 1851, pl. 31, as *Cynictis maccarthiae.*

One brought from Ceylon by Mr. A. Grace, which "lived sometime in the Gardens of the Society," was the type of *Cynictis maccarthiae* J. E. Gray, P. Z. S. 1851, p. 131.

267. *Herpestes vitticollis* E. T. Bennett, Proc. Zool. Soc. London, 1835, p. 67.

Alternative name *Calogale vitticollis.*

Striped-necked Mongoose.

*Hab.* Southern India and Ceylon.

*Fig.* Fraser, Zool. Typ. 1849, pl. 8.

One purchased 25 March, 1847, from Mr. Tyler for £8.

268. *Herpestes urva* (Hodgson), Journ. Asia. Soc. Bengal, **5**, p. 238, 1836.

Alternative name *Calogale urva.*

Crab-eating Mongoose.

*Hab.* Asia : south-western Himalayas and Assam, east to China and south to Tenasserim.

*Fig.* Blanford, Faun. Ind. Mamm. 1888, p. 130, fig. 35 : uncoloured.

One purchased 17 Sept. 1887.

269. *Herpestes javanicus* (Desmarest), E. Geoffroy, Descript. de l'Egypte, Hist. Nat. **2**, p. 139, footnote 1, 1812.

Javan Mongoose.

*Hab.* South-east Asia : Malay Peninsula and Java.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1821, livr. 25. Horsfield, Zool. Res. Java, 1822, pl. 20, as *Mangusta javanica.*

One purchased 3 July, 1834, died 13 Feb. 1841, having lived in the Gardens 6 years 7 months 10 days.

270. *Herpestes brachyurus* J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 578, 1837.

Short-tailed Mongoose. Water Mongoose.

*Hab.* South-east Asia : Malay Peninsula, Sumatra and Borneo.

*Fig.* Voy. Samarang, 1850, Vert. pl. 4.

A male presented 24 June, 1912, by the Government of the Federated Malay States.

Genus **Ichneumia** I. Geoffroy, Ann. Sci. Nat. Paris (2) **8**, p. 251, 1837.

Species :

Page
1. *albicauda* ..... 104

271. *Ichneumia albicauda* (G. Cuvier), Règne Anim. ed. 2, **1**, p. 158, 1829.

*Herpestes albicauda.*

White-tailed Mongoose.

*Hab.* Tropical Africa: widely distributed from southern Algeria to Upper Nubia, and south to Guinea on the west and Natal on the east.

*Figs.* Hemprich & Ehrenberg, Symb. Phys. 1832, pl. 12, as *Herpestes leucurus*. Haacke & Kuhnert, Thierl. 1901, **3**, p. 73: uncoloured.

One presented 4 March, 1886, by Mr. F. J. Jackson, F.Z.S.

Genus **Galerella** J. E. Gray, Proc. Zool. Soc. London, 1864, p. 564.

Species:


| | Page |
|---|---|
| 1. *ochracea* | 105 |
| 2. *pulverulenta* | 105 |
| 3. *gracilis* | 105 |


272. *Galerella ochracea* (J. E. Gray), Proc. Zool. Soc. London, 1848, p. 138.

*Herpestes ochraceus.*

Ochraceous Mongoose.

*Hab.* Tropical Africa: typically from Abyssinia, the range extends east to Somaliland and south-west to Congoland.

*Fig.* P. Z. S. 1848, Mamm. pl. 8.

One presented 2 Aug. 1898, by Mr. R. M. Hawker, F.Z.S.

273. *Galerella pulverulenta* (Wagner), Münch. Gel. Anzeig. **9**, p. 426, 1839. *v.* Thomas, Proc. Zool. Soc. London, 1882, p. 74.

*Herpestes pulverulentus.*

Dusty Mongoose.

*Hab.* South Africa.

*Fig.*

One purchased 30 Aug. 1862.

274. *Galerella gracilis* (Rüppell), Neue Wirbelth. Abyss. Säugth. p. 29, 1835.

*Herpestes gracilis.*

Slender Mongoose.

*Hab.* Tropical Africa: from Senegambia to Upper Nubia and Abyssinia, and south through East Africa to Natal.

*Fig.* Rüppell *l. c. s.* pl. 8, fig. 2.

One presented 19 Sept. 1883, by Col. J. H. Bowker, F.Z.S.

Genus **Bdeogale** Peters, Mitt. Ges. naturf. Fr. Berlin, 19 Nov. 1850. *v.* Reise n. Mossamb. Zool. **1**, p. 119, 1852.

Species:

1. *puisa* ..... Page 106

275. *Bdeogale puisa* Peters, Monats. K. Preuss. Ak. Wiss. Berlin, p. 82, 1852. *v.* Reise n. Mossamb. p. 124, 1852.

Puisa Mongoose.

*Hab.* East Africa.

*Fig.* Peters, Reise n. Mossamb. 1852, pl. 28.

A male presented 12 Oct. 1892, by General Mathews, C.M.G., lived in the Gardens till 30 Aug. 1903.

Genus **Atilax** F. Cuvier, Hist. Nat. Mamm. livr. 54, 1826.

Species:

1. *paludinosus* ..... Page 106

276. *Atilax paludinosus* (G. Cuvier), Règne Anim. ed. 2, **1**, p. 158, 1829.

*Herpestes galera.*

Marsh-Mongoose.

*Hab.* Tropical and South Africa: from the Upper Nile southwards.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1826, livr. 54: "Vansire."

First received in 1847, or early in 1848.

Two born in the Gardens 13 June, 1872.

Genus **Crossarchus** F. Cuvier, Hist. Nat. Mamm. livr. 47, 1825.

Species :

Page
1. *obscurus* ..... 107

277. *Crossarchus obscurus* F. Cuvier, Hist. Nat. Mamm. livr. 47, 1825.

Kusimanse.

*Hab.* West Africa.

*Fig.* F. Cuvier, *l. c. s.* pl. 199.

A female presented early in 1833 by Capt. Forde.

Genus **Mungos** E. Geoffroy & G. Cuvier, Mag. Encyclop. Paris (1) **2**, p. 187, 1795.

Species :

Page
1. *mungo* ..... 107

278. *Mungos mungo* (J. F. Gmelin), Syst. Nat. **1**, p. 84, 1788.

*Crossarchus fasciatus. Ariela fasciata.*

Zebra Mongoose. Banded Mongoose. Banded Ichneumon.

*Hab.* Tropical and South Africa: from Gambia, Kordofan and Abyssinia southwards. Several local races have been named.

*Figs.* Rüppell, Neue Wirbelth. Abyss. Säugth. 1835, pl. 9, fig. 2, as *Herpestes zebra*. Haacke & Kuhnert, Thierl. 1901, **3**, pl. opp. p. 72.

First received shortly before 26 May, 1835, when one was deposited by the Earl of Derby. One from Somaliland presented 16 March, 1907, by Major-General C. E. Luard, was referred to *Crossarchus somalicus* Thomas 1895. One from Gambia presented 22 July, 1923, by Dr. E. Hopkinson, C.M.G., D.S.O., F.Z.S., was referred to *Ariela gambiana* (Ogilby) 1835.

Genus **Helogale** J. E. Gray, Proc. Zool. Soc. London, 1861, p. 308.

Species:

Page
1. *undulata* ..... 108
2. *varia* ..... 108

279. *Helogale undulata* (Peters), Monats. K. Preuss. Ak. Wiss. Berlin, p. 81, 1852. *v.* Reise n. Mossamb. p. 114, 1852.

Peter's Pygmy Mongoose.

*Hab.* East Africa.

*Fig.* Peters, Reise n. Mossamb. 1852, pl. 25.

One deposited 1 Dec. 1914.

280. *Helogale varia* Thomas, Proc. Zool. Soc. London, 1902, **1**, p. 119.

Thomas's Pygmy Mongoose.

*Hab.* East Africa: typically from Nyasaland.

*Fig.*

One presented 27 Feb. 1911, by the Rev. W. D. Braginton.

Genus **Cynictis** Ogilby, Proc. Zool. Soc. London, 1833, p. 48.

Species:

Page
1. *penicillata* ..... 108

281. *Cynictis penicillata* (G. Cuvier), Règne Anim. ed. 2, **1**, p. 158, 1829.

Yellow or Levaillant's Meerkat.

*Hab.* South Africa.

*Fig.* T. S. Z. **1**, pl. 3, 1835, as *Cynictis steedmannii*.

First received alive in 1856.

Four born in the Gardens 1883–1917.

Genus **Suricata** Desmarest,
Tabl. Méth. Mamm. in Nouv. Dict.
d'Hist. Nat. **24**, 1804.

Species:

Page
1. *suricatta* ..... 109

282. *Suricata suricatta* (Erxleben), Syst. Reg. Anim. p. 488, 1777.

*Suricata tetradactyla.*

Meerkat: the true "Meerkat" of S. Africa.

*Hab.* South Africa.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1820, livr. 22. Haacke & Kuhnert, Thierl. 1901, **3**, p. 74: uncoloured.

First received in 1830 (for disposition *vide* P. Z. S. 1831, p. 28).

Eight born in the Gardens:—two 21 Feb. 1888; two 16 May, 1888; and four 19 Oct. 1924: three, of the four, reared.

## Family PROTELIDAE.

Genus:

Page
1. *Proteles* ..... 109

Genus **Proteles** I. Geoffroy, Mém. Mus. Hist. Nat. Paris, **11**, p. 354, 1824.

Species:

Page
1. *cristatus* ..... 109

283. *Proteles cristatus* (Sparrman), Resa till Goda Hopps-Udden, etc., p. 581, 1783.

Aard-Wolf.

*Hab.* Africa: widely distributed from the Cape northwards to the Anglo-Egyptian Sudan.

*Figs.* P. Z. S. 1869, pl. 36. Anderson, Zool. Egypt, Mamm. 1902, pl. 28.

One purchased 26 Oct. 1868.

## Family HYAENIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Hyaena* | 110 |
| 2. | *Crocuta* | 111 |


### Genus **Hyaena** Zimmermann, Spec. Zool. Geograph. p. 365, 1777.

Species :


| | | Page |
|---|---|---|
| 1. | *hyaena* | 110 |
| 2. | *brunnea* | 110 |


284. *Hyaena hyaena* (Linnaeus), Syst. Nat. **1**, p. 40, 1758.

*Hyaena striata.*

Striped Hyaena.

*Hab.* Africa and Asia : from Senegal, Nigeria and East Africa to Persia and India.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 43. Anderson, Zool. Egypt, Mamm. 1902, pl. 29.

First received in June, 1829, when one was transferred to Regent's Park from the Tower of London Menagerie. Examples have come from Morocco, Tripoli, Egypt, parts of Tropical Africa, Arabia and India.

About fourteen born in the Gardens 1840–1919 : at least six of these did not survive their birth.

285. *Hyaena brunnea* Thunberg, Svenska Vetenskaps Akad. Handl. 1820, p. 59.

Brown Hyaena. Strand-Wolf.

*Hab.* South Africa.

*Fig.* Schreber, Säugth. Suppl. pl. 96 Aa, *circa* 1840.

A female purchased 3 March, 1853, died 13 Aug. 1866, having lived in the Gardens 13 years 5 months 10 days. A second individual was purchased 7 Feb. 1870.

Genus **Crocuta** Kaup,
Isis, **21**, p. 1145, 1828.

Species :

Page
1. *crocuta* ..... 111

286. *Crocuta crocuta* (Erxleben), Syst. Reg. Anim. p. 578, 1777.

*Hyaena crocuta*. *Hyaena maculata*.

Spotted Hyaena.

*Hab.* Africa : widely distributed from the Cape northwards to Senegambia and to the Anglo-Egyptian Sudan. Many individuals and possible local races have been given names as species and subspecies.

*Fig.* Flower & Lydekker, Mamm. 1891, p. 543, fig. 247 : uncoloured.

First received 9 June, 1829 : transferred from the Tower of London Menagerie.

Fourteen born in the Gardens 1868–1886.

## Family CANIDAE.

Genera :

Page
1. *Canis* ..... 111
2. *Vulpes* ..... 117
3. *Urocyon* ..... 120
4. *Alopex* ..... 120
5. *Cerdocyon* ..... 121
6. *Pseudalopex* ..... 122
7. *Lycalopex* ..... 123
8. *Dusicyon* ..... 123
9. *Chrysocyon* ..... 124
10. *Nyctereutes* ..... 124
11. *Otocyon* ..... 125
12. *Cuon* ..... 125
13. *Lycaon* ..... 126
14. *Speothos* ..... 127

Genus **Canis** Linnaeus, Syst. Nat. **1**, p. 38, 1758.

Species :

Page
1. *familiaris* ..... 112
2. *lupus* ..... 113
3. *pallipes* ..... 114
4. *lupaster* ..... 114
5. *aureus* ..... 115
6. *anthus* ..... 115
7. *latrans* ..... 115
8. *variegatus* ..... 116
9. *adustus* ..... 116
10. *mesomelas* ..... 116

287. *Canis familiaris* Linnaeus, Syst. Nat. **1**, p. 38, 1758.

Domestic Dog.

Principal breeds formerly in the London Z. G., under the names by which they were registered, with the year in which they were first exhibited:—

1. Abyssinian Sheep Dog, 1841.
2. Alpine Mastiff, 1835 or 1836.
3. Australian, 1828 (see p. 113, under *C. f. dingo*).
4. Barbary, 1839.
5. Belgian, 1839.
6. Black-mouthed Chinese, 1828.
7. Bloodhound, 1828.
8. Castilian Greyhound, 1829.
9. Cuban Bloodhound, 1842.
10. Cuban Mastiff, 1830 (or earlier).
11. Egyptian, 1830 (or earlier).
12. Egyptian Hairless, 1833, see P. Z. S. 1833, p. 113.
13. Esquimaux, 1828.
14. Greek Greyhound, 1838.
15. Hare-Indian, or Mackenzie River, 1827 or 1828.
16. Hungarian Wolf Dog, 1828.
17. Italian Wolf Dog, 1827 or 1828.
18. Japanese, 1878, see P. Z. S. 1879, pp. 115, 116 and 788.
19. Kangaroo Greyhound, 1839.
20. Magellanic, 1833.
21. Mexican, 1829, or earlier.
22. Mogadore, 1831.
23. Mount St. Bernard, 1839.
24. Newfoundland, 1840.
25. New Guinea, 1891.
26. Nootka Sound, 1842 or 1843.
27. Persian Greyhound, 1831.
28. Persian Sheep Dog, 1840.
29. Pyrenean, 1831.
30. Rampoor Hound, 1877.
31. Russian Greyhound, 1829.
32. Siberian, 1831.
33. Terra del Fuego, 1830 (probably earlier).
34. Terrier, 1828.
35. Thibet Mastiff, or Watch Dog, 1828.

287 *a*. *Canis familiaris dingo* F. A. A. Meyer, Zool. Entdeck. p. 33, 1793. *v.* Sherborn, Index Anim. **1**, p. 302, 1902.

Dingo, or Warrigal.

*Hab.* Australia.

*Figs.* Gould, Mamm. Austral. **3**, 1863, pl. 52. Wild Animals of Australasia, 1926, fig. 9: photograph.

One received from Capt. Murray 7 March, 1828, and another 22 Dec. 1828.

"The term dingo came from the aborigine's name of contempt for the white man's dog. They called the wild dog the warrigal."—A. S. Le Souef & H. Burrell, 'Wild Animals of Australasia,' 1926, p. 90.

Many born in the Gardens 1836–1921.

288. *Canis lupus* Linnaeus, Syst. Nat. **1**, p. 39, 1758.

Wolf.

*Hab.* Europe, central and northern Asia and North America. Originally throughout Europe, from Ireland eastward, and across Palaeartic Asia to Japan: now exterminated in the British Isles and in the more settled and thickly populated parts of continental Europe. In North America from Labrador to Alaska and south through the United States to Mexico. Geographical, altitudinal, seasonal and individual variations occur: many of these have been given specific and subspecific names.

*Figs.* Mivart, Canidae, 1890, pls. 1–3; pl. 4, as *Canis lupus occidentalis*. Temminck, Fauna Jap. Mamm. 1842–1845, pl. 9, as *Canis hodophilax*. P. Z. S. 1874, pl. 78, as *Canis niger*.

First received before 25 Feb. 1828, Wolves from many parts of Europe, from Portugal and southern Spain to Transylvania and Macedonia, have been exhibited. Of Asiatic Wolves, a pair presented 6 Aug. 1867, by Lieut. A. A. Kinloch, R.B., and Lieut. J. Biddulph, 19th Hussars, were called *Canis niger* P. L. Sclater, P. Z. S. 1874, p. 654 (nec *C. niger* Hermann 1804, or Kerr 1792). A male Wolf presented 21 May, 1912, by H.M. King George V., was referred to *Canis laniger* (Hodgson).

A female Wolf from Japan, presented 26 June, 1878, by Mr. H. H. Jones, F.Z.S., was called *Canis hodophylax* Temminck. Of American Wolves, the first definite record appears to be of one from Hudson's Bay, deposited in the collection 8 Dec. 1868, representing *Canis lupus occidentalis* Richardson 1829, often called "Actic Wolf" and "Timber Wolf."

About one hundred and fifty-five Wolves are recorded as having been born in the Gardens. Of these eighty-six were probably of European parentage 1829–1921, and were all born in the month of May with the exceptions of one litter on 1 June, 1848, and one on 4 April, 1921. Fourteen were *C. niger*, 1869–1873, only one of these being reared, and fifty-five were *C. occidentalis*, 1903–1914.

Three hybrids "between Common and Indian Wolf" were born in the Gardens 21 March, 1850.

Eight hybrids between the Dingo and Wolf have also been born in the Gardens: five in 1841, three in 1905.

289. *Canis pallipes* Sykes, Proc. Zool. Soc. London, 1831, p. 101.

Indian Wolf.

*Hab.* India. Either this, or an allied species, extends as far as Arabia.

*Fig.* Mivart, Canidae, 1890, pl. 4.

One purchased 10 March, 1848.

Fourteen born in the Gardens 1852–1916, all in the month of March: at least seven of these cubs were successfully reared.

290. *Canis lupaster* Hemprich & Ehrenberg, Sym. Phys. Mamm. dec. 2, no page number, 1832.

Alternative name *Thos lupaster*.

Wolf-like Jackal.

*Hab.* Egypt: the Nile Valley from Aswan to the Mediterranean.

*Fig.* Anderson, Zool. Egypt. Mamm. 1902, pl. 30.

Probably first received in 1848.

Young born in the Gardens (see under *C. aureus*).

291. *Canis aureus* Linnaeus, Syst. Nat. 1, p. 40, 1758.

Alternative name *Thos aureus*.

Oriental Jackal.

*Hab.* East Europe and Asia : typically from Persia, this species extends west to the Balkan Peninsula and Hungary, and east to India, Ceylon and Burma.

*Figs.* Pallas, Zoograph. Rosso-Asiat. 1811, 1, pl. refer. p. 39. Mivart, Canidae, 1890, pl. 10.

First received in 1828.

At least thirty-eight Jackals have been born in the Gardens 1850–1909 ; these include individuals of *C. anthus* and of *C. lupaster*.

292. *Canis anthus* F. Cuvier, Hist. Nat. Mamm. livr. 17, p. 3 of text & plate, 1820.

Alternative name *Thos anthus*.

North African Jackal.

*Hab.* Southern Spain and all North Africa, from Morocco to western Egypt, with closely-allied forms in many parts of northern tropical Africa.

*Fig.* Mivart, Canidae, 1890, pl. 11.

Owing to confusion with *C. aureus*, it is not known when *C. anthus* was first received.

One from Spain was deposited 10 Sept. 1872.

Young born in the Gardens (see under *C. aureus*).

293. *Canis latrans* Say, in Long Exped. Rocky Mts. 1, p. 168, 1823.

Alternative name *Thos latrans*.

Coyote (pronounced Ko-yo-tee). "Prairie Wolf."

*Hab.* North America : typically from Nebraska, Coyotes are found through middle and western N. America from Alberta and Winnipeg in Canada to the south of Mexico. Several local races are recognized by specialists.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 2, 1851, pl. 71. Mivart, Canidae, 1890, pl. 9.

First received in 1843, or early in 1844.

Thirty-eight born in the Gardens 1909–1927 : many of these successfully reared.

294. *Canis variegatus* Cretzschmar, in Rüppell, Reis. n. Afr. Atlas, p. 31, 1826.

Alternative name *Thos variegatus*.

Variegated Jackal. Long-legged Jackal.

*Hab.* North-east Africa: Abyssinia and Red Sea Province of the Sudan.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 31.

Two presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

295. *Canis adustus* Sundevall, Öfv. K. Vet.-Ak. Förhandl. **3**, p. 121, 1846, 1847.

Alternative name *Thos adustus*.

Side-striped Jackal. Ashy-Jackal (in South Africa).

*Hab.* Africa: widely distributed from Caffraria, Mozambique and Angola to the Gaboon and the Gambia, and to the Bahr-el-Ghazal.

*Figs.* P. Z. S. 1870, pl. 23. Mivart, Canidae, 1890, pl. 13.

One purchased 1 April, 1870, which died 2 Oct. 1873, was the type of *Canis lateralis* P. L. Sclater, P. Z. S. 1870, p. 279.

Two born in the Gardens 2 April, 1889.

296. *Canis mesomelas* Schreber, Säugth. **3**, p. 370, 1778.

Alternative name *Thos mesomelas*.

Black-backed Jackal. Golden Jackal (in South Africa).

*Hab.* South and tropical Africa: widely distributed, with more or less distinct local races, from the Cape of Good Hope to Somaliland and the Blue Nile.

*Figs.* Mivart, Canidae, 1890, pl. 12. W. Austen, in Finn, Wild Beasts of World, 1909, pl. opp. p. 104.

First received on, or before, 3 Jan. 1851. Two purchased 1 July, 1898, were considered to be *Canis hagenbecki* Noack 1886.

Eleven born in the Gardens 1886–1915.

## Genus **Vulpes** Oken, Lehrb. Naturges. 3, pt. 2, p. 1033, 1816.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *vulpes* | 117 | 6. *bengalensis* | 119 |
| 2. *fulva* | 117 | 7. *chama* | 119 |
| 3. *velox* | 118 | 8. *rüppelli* | 119 |
| 4. *ferrilatus* | 118 | 9. *pallida* | 119 |
| 5. *leucopus* | 118 | 10. *zerda* | 120 |


297. *Vulpes vulpes* (Linnaeus), Syst. Nat. 1, p. 40, 1758.

*Canis vulpes.*

Fox.

*Hab.* Palaearctica: Europe, from the Arctic coast to the Mediterranean, and from Ireland eastward far into Asia, with closely allied forms in North Africa, from Morocco to Egypt.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **1**, 1904, pl. 18.

First received early in 1828. The Gardens have had examples of the Scandinavian Fox, *V. v. vulpes* (Linnaeus) 1758, the Central European Fox, *V. v. crucigera* (Bechstein) 1789, the Iberian Fox, *V. v. silacea* Miller 1907, the Moroccan Fox, *V. v. atlantica* Wagner 1841, and the Egyptian Fox, *V. v. aegyptiaca* (Sonnini) 1816.

Fourteen born in the Gardens 1877–1909.

298. *Vulpes fulva* (Desmarest), Mammalogie, **1**, p. 203, 1820.

*Canis fulvus. C. decussatus. C. argentatus.*

American Red Fox. Cross-Fox. Silver Fox. Black Fox.

*Hab.* North America: typically from Virginia, this species ranges, with several local forms from Newfoundland and Labrador, to Alaska and California.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 1852, **1**, pl. 6 (Cross-Fox); 1851, **2**, pl. 87 (Red Fox); 1854, **3**, pl. 116 (Black, or Silver Fox).

First received in 1828, when specimens were presented, by the Hudson's Bay Company, of the Red, Cross and Silver varieties.

Seven "Silver Foxes" are recorded as having been born in the Gardens 1857–1862, and also five hybrids between this species and the European Fox, two in 1832, three in 1870.

299. *Vulpes velox* (Say) in Long Exped. Rocky Mts. **1**, p. 487, 1823.

*Canis velox.*

Kit Fox.

*Hab.* Western North America: typically from Colorado, Kit Foxes are found as far north as the Alberta region of Canada, and south to Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 52.

First received 29 Sept. 1865.

A Fox, said to be from Honduras, presented 4 Aug. 1876, by Surgeon-Major Archer, was referred to this species.

300. *Vulpes ferrilatus* Hodgson, J. Asiat. Soc. Bengal, **11**, p. 278, 1842.

Small Tibetan Fox.

*Hab.* Tibet and Nepal.

*Fig.* Hodgson, *l. c. s.* pl. 1.

One presented 7 April, 1922, by H.R.H. The Prince of Wales, K.G., F.Z.S.

301. *Vulpes leucopus* Blyth, J. Asiat. Soc. Bengal, **23**, p. 729, 1854.

*Canis leucopus* List, ed. 9, 1896, p. 77.

Indian Desert Fox.

*Hab.* Asia: desert and semi-desert regions of western and northern India, and of Afghanistan, Baluchistan and Persia.

*Fig.* Mivart, Canidae, 1890, pl. 29.

One presented 29 Dec. 1887, by Col. Sir Oliver St. John, K.C.S.I., F.Z.S.

Two born in the Gardens 14 May, 1891.

302. *Vulpes bengalensis* (Shaw), Gen. Zool. **1**, pt. 2, p. 330, 1800.

*Canis bengalensis.*

Bengal Fox.

*Hab.* India : widely distributed.

*Fig.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pl. 2.

In Gardens from before 29 April, 1835.

303. *Vulpes chama* (A. Smith), South African Quart. Journ. **2**, p. 89, 1833.

*Canis chama.*

Silver-backed Fox. Silver Fox (in South Africa).

*Hab.* South Africa.

*Fig.* P. Z. S. 1875, pl. 17.

One presented 6 Jan. 1875, by Mr. H. N. B. Good.

304. *Vulpes rüppelli* (Schinz), Cuv. Thierr. **4**, Supp. p. 508, 1825.

*Canis famelicus* Cretzschmar, in Rüppell, Reis. n. Afr. Atlas, p. 15, 1826.

Sand-Fox.

*Hab.* North Africa and south-western Asia : Algeria to Somaliland, Sinai to the Persian Gulf.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 33, as *Vulpes famelica.*

First received 19 Feb. 1869.

305. *Vulpes pallida* (Cretzschmar), in Rüppell, Reis. n. Afr. Atlas, p. 33, 1826.

*Canis pallidus.*

Pale Fox.

*Hab.* North-east Africa : the Sudan. Allied forms occur in Nigeria and Senegambia.

*Fig.* Anderson, Zool. Egypt. Mamm. 1902, pl. 34.

Two presented 24 Nov. 1885, by Capt. J. S. Talbot, 1st. Btn. Shropshire Light Infantry.

306. *Vulpes zerda* (Zimmermann), Geogr. Geschichte, **2**, p. 247, 1780.

*Canis cerdo* J. F. Gmelin 1788.

Alternative name *Fennecus zerda*.

Fennec Fox.

*Hab.* North Africa and Sinai.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 35.

Two purchased 21 Aug. 1858.

Genus **Urocyon** Baird, Mamm. N. Amer. p. 121, 1857.

Species:

Page
1. *cinereoargenteus* ..... 120

307. *Urocyon cinereoargenteus* (Schreber). Säugth. pl. 92, 1775.

*Canis cinereo-argenteus. C. virginianus.*

Grey Fox. Virginian Fox. Tri-coloured Fox.

*Hab.* North America, widely spread in the United States from the Atlantic to the Pacific coasts, extending through Mexico and Central America to Panama and on into northern South America.

*Fig.* Audubon & Bachman, Quadr. N. Amer. 1852, **1**, pl. 21.

First received in 1831. Specimens received from California 23 Aug. 1892, would now probably be called *U. californicus* Mearns 1897, and from Nicaragua 20 Aug. 1896, might be *U. guatemalae* Miller 1899.

Genus **Alopex** Kaup, Entw.-Gesch. Natürl. Syst. Europ. Thierw. **1**, p. 85, 1829.

Species:

Page
1. *lagopus* ..... 121

308. *Alopex lagopus* (Linnaeus), Syst. Nat. **1**, p. 40, 1758.

*Canis lagopus.* *Vulpes lagopus.*

Arctic Fox.

*Hab.* Arctic Regions of Old and New World.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 121. P.Z.S. 1912, pp. 56–59 : photographs.

One presented 11 Dec. 1831, by Mr. Rudston only lived five days, but one presented 14 Nov. 1832, by the Hudson's Bay Company lived in the Gardens 3 years, 4 months, 27 days ; it had been caught on the ice in Hudson's Bay about one hundred miles from land by Capt. Hanwell, of the ship 'Prince of Wales.'

Genus **Cerdocyon** H. Smith, in Jardine Nat. Libr. Mamm. **9**, p. 259, 1839.

Species :

Page
1. *thous* ..... 121
2. *microtis* ..... 121

309. *Cerdocyon thous* (Linnaeus), Syst. Nat. **1**, p. 60, 1766.

*Canis cancrivorus.* *Canis rudis.*

Crab-eating Fox. Rough Fox.

*Hab.* South America : from Venezuela and the Guianas to the extreme south of Brazil.

*Figs.* Burmeister, Erläut. Faun. Bras. 1856, pl. 22, as *C. cancrivorus.* Mivart, Canidae, 1890, pl. 15.

One presented 20 March, 1872, by Dr. Palin, C.M.Z.S.

Synonym. *Canis azarae* Wied 1826.

310. *Cerdocyon microtis* (P. L. Sclater), Proc. Zool. Soc. London, 1882, p. 631.

*Canis microtis.*

Small-eared Fox.

*Hab.* South America : Amazonia.

*Fig.* P. Z. S. 1882, pl. 47.

One purchased 4 Sept. 1882, was the type of the species.

Synonym. *Cerdocyon sclateri* (Allen).

Genus **Pseudalopex** Burmeister, Erläut. Faun. Bras. p. 44, 1856.

Species :


| | Page |
|---|---|
| 1. *culpaeus* | 122 |
| 2. *gymnocercus* | 122 |
| 3. *griseus* | 123 |


311. *Pseudalopex culpaeus* (Molina), Essai Hist. Nat. Chili, p. 320, 1789.

*Canis magellanicus* List, ed. 9, 1896, p. 81.

Colpeo Fox. Magellanic Fox.

*Hab.* South America : from Ecuador to the Straits of Magellan.

*Fig.* Mivart, Canidae, 1890, pl. 14.

Appears to have been first received 19 Aug. 1830, as *Canis coquimbensis*. A pair purchased 6 July, 1870, were referred to *C. magellanicus* J. E. Gray, P. Z. S. 1836, p. 88. One presented 4 Feb. 1914, by Mr. W. A. Smithers, C.M.Z.S., was the first registered as *culpaeus*.

312. *Pseudalopex gymnocercus* (G. Fischer), Zoognosia, **3**, p. 178, 1814. *v.* Osgood, Proc. Biol. Soc. Washington, **28**, p. 143, 1915.

*Pseudalopex azarica* Thomas, Ann. Mag. Nat. Hist. (8) **13**, 1914, p. 360.

*Canis azarae* and *C. fulvipes* List, ed. 9, 1896, pp. 80, 81.

*Canis azarae* auctorum, *nec* Wied 1826.

Azara's Fox.

*Hab.* South America : Argentina and Paraguay.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 16. Mivart, Canidae, 1890, pl. 17.

One purchased 6 Aug. 1847, from Mr. Berri, died 12 Aug. 1851. The first referred to *C. fulvipes* Martin 1837 was one presented 9 Oct. 1874, by Mr. F. Grant.

Five born in the Gardens—four 17 May, 1858, and one 8 June, 1860.

313. *Pseudalopex griseus* (J. E. Gray), Proc. Zool. Soc. London, 1836, p. 88.

*Canis fulvicaudus* List, ed. 9, 1896, p. 81.

Argentine Grey Fox.

*Hab.* South America : Argentina.

*Figs.* Burmeister, Erläut. Faun. Bras. 1856, pls. 24, 25.

One purchased 2 Jan. 1874.

Synonym. *Canis gracilis* Burmeister 1861.

Genus **Lycalopex** Burmeister, Thiere Brasil, **1**, p. 95, 1854.

Species :

1. *vetulus* ..... Page 123

314. *Lycalopex vetulus* (Lund), Kong. Danske Vidensk. Selsk. Blik Bras. Dyrev. **9**, p. 125, 1842.

*Canis vetulus* List, ed. 9, 1896, p. 81.

Hoary Fox.

*Hab.* South America : Brazil.

*Fig.* Lund, Kong. Danske Vidensk. Selsk. **11**, 1845, pl. 40.

One presented 23 Oct. 1883, by Mrs. H. E. Hunt.

Genus **Dusicyon** H. Smith, in Jardine Nat. Libr. Mamm. **9**, p. 248, 1839.

Species :

1. *australis* ..... Page 124

315. *Dusicyon australis* (Kerr), Anim. Kingd. p. 144, 1792.

*Canis antarcticus.*

Antarctic Wolf. Antarctic Fox.

*Hab.* Falkland Islands: for its rarity in 1870 *see* P. Z. S. 1870, p. 797. Now extinct.

*Fig.* Mivart, Canidae, 1890, pl. 8.

Four individuals appear to have been exhibited in the Gardens:—

1. Presented 12 June, 1845, by Mr. W. Brown: died 8 May, 1846.
2. Presented 31 Aug. 1852: died 8 Dec. 1852.
3. Received 24 Aug. 1868; collected by M. A. A. Leconte.
4. Female presented 8 Nov. 1870, by Mr. H. Byng.

Genus **Chrysocyon** H. Smith, in Jardine Nat. Libr. Mamm. **9**, p. 241, 1839.

Species:

Page
1. *brachyurus* ..... 124

316. *Chrysocyon brachyurus* (Illiger), Abh. K. Akad. Wiss. Berlin (1811), pp. 109, 121, 1815. *v.* Osgood, J. Mamm. Baltimore, **1**, p. 35, 1919.

*Canis jubatus.*

Maned Wolf. Red Wolf.

*Hab.* South America: southern Brazil, Paraguay and Argentina.

*Figs.* P. Z. S. 1877, pl. 81; 1908, p. 64, text-fig. 15: photograph; 1927, p. 308, text-fig. 10: photograph.

A female purchased 30 Nov. 1877, from Mr. Petty.

Genus **Nyctereutes** Temminck, Tijdschrift Natuurl. Gesch. Physiol. Leiden, **5**, p. 285, 1839.

Species:

Page
1. *procyonoides* ..... 125

317. *Nyctereutes procyonoides* (J. E. Gray), Illustr. Ind. Zool. **2**, pl. 1, 1833–1834.

*Nyctereutes procyonides. Canis procynides.*

Raccoon-like Dog.

*Hab.* North-eastern Asia : eastern Siberia, China and Japan.

*Figs.* Temminck, Fauna Jap. Mamm. 1842–1845, pl. 8, as *Nycthereutes viverrinus* ; P. Z. S. 1874, pl. 50.

A male purchased 21 May, 1874.

Seven born in the Gardens 2 May, 1877.

Genus **Otocyon** Lichtenstein, Wiegm. Archiv. **1**, p. 290, 1838.

Species :

Page
1. *megalotis* ..... 125

318. *Otocyon megalotis* (Desmarest), Mamm. Suppl. p. 538, 1822.

*Otocyon lalandii* (Desmoulins), 1823.

Long-eared Fox. Delalande's Fox.

*Hab.* South Africa : to as far north as the Belgian Congo, East Africa and Somaliland.

*Fig.* Mivart, Canidae, 1890, pl. 45.

One presented 16 Feb. 1847, by Capt. Sir Edward Belcher, C.B., R.N., lived just over five-and-a-half years in the Gardens.

Genus **Cuon** Hodgson, Ann. Mag. Nat. Hist. (1) **1**, p. 152, 1838.

Species :

Page
1. *dukhunensis* ..... 125
2. *alpinus* ..... 126
3. *rutilans* ..... 126

319. *Cuon dukhunensis* (Sykes), Proc. Zool. Soc. London, 1831, p. 100.

*Canis primaevus.*

Indian Wild Dog. Dhole. Kolson.

*Hab.* India.

*Fig.* Mivart, Canidae, 1890, pl. 41.

One presented 5 May, 1842, by Col. W. H. Sykes: it died 30 Sept. 1842.

Eleven born in the Gardens 1925–1927.

320. *Cuon alpinus* (Pallas), Zoogr. Rosso-Asiat. **1**, p. 34, 1811.

*Cyon alpinus.*

Siberian Wild Dog.

*Hab.* Central Asia.

*Fig.* Mivart, Canidae, 1890, pl. 42.

A pair received in exchange 2 Dec. 1906.

321. *Cuon rutilans* (S. Müller), Zoogdieren Indisch. Archipel. p. 27, in Verhandl. Neederl. Bezitt. 1839–1844.

*Canis javanicus.*

Malay Wild Dog.

*Hab.* South-eastern Asia: southern Burma, Malay Peninsula, Sumatra and Java.

*Fig.* Mivart, Canidae, 1890, pl. 40, as *Cyon javanicus.*

A male presented 7 Sept. 1875, by Mr. Mumford. This animal was in Mander's Travelling Menagerie, and was sold to Mr. Mumford when that collection was dispersed by auction at the Agricultural Hall in August, 1875.

Genus **Lycaon** Brookes, in Griffith, Anim. Kingd. **5**, p. 151, 1827.

Species:

Page
1. *pictus* ..... 126

322. *Lycaon pictus* (Temminck), Ann. gén. des Sciences physiques, **3**, p. 54, 1820.

Cape Hunting-Dog.

*Hab.* Africa: from the Cape to the Anglo-Egyptian Sudan.

*Figs.* Cretzschmar, in Rüppell, Reis. n. Afr. Atlas, 1826, pl. 12. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 42.

The type appears to have been an individual alive in London, in the Exeter 'Change Menagerie, about 1815. The first owned by the Society died 19 Aug. 1829.

One deposited 12 Oct. 1911, was referred to *Lycaon pictus sharicus* Thomas, and a male presented 21 Nov. 1911, by Lieut. H. C. Dobbs, 124th Beluch. Inf., to *Lycaon pictus somalicus* Thomas.

Genus **Speothos** Lund, Kong. Danske Vidensk. Selsk. Blik Bras. Dyrev. **8**, p. 93, 1841.

Species:

Page
1. *venaticus* ..... 127

323. *Speothos venaticus* (Lund), Kong. Danske Vidensk. Selsk. Blik Bras. Dyrev. **9**, p. 203, 1842.

*Icticyon venaticus.*

Bush-Dog.

*Hab.* South America: Brazil and the Guianas, extending north to Panama—*Icticyon panamensis* Goldman 1912.

*Figs.* P. Z. S. 1880, pl. 10; 1927, p. 307, text-fig. 9: photograph.

A female presented 20 Aug. 1879, by Mr. J. E. Tinné.

## Family MUSTELIDAE.

Genera:

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1. *Lutra* ..... 128
2. *Helictis* ..... 130
3. *Mustela* ..... 130
4. *Putorius* ..... 132
5. *Vormela* ..... 133
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13. *Poecilogale* ..... 140
14. *Taxidea* ..... 140
15. *Grison* ..... 141
16. *Spilogale* ..... 141
17. *Mephitis* ..... 142
18. *Conepatus* ..... 142

Genus **Lutra** Brisson, Regn. Anim. ed. 2, p. 13, 1762.

Species:


| | | Page |
|---|---|---|
| 1. | *lutra* | 128 |
| 2. | *maculicollis* | 128 |
| 3. | *cinerea* | 128 |
| 4. | *tarayensis* | 129 |
| 5. | *canadensis* | 129 |
| 6. | *platensis* | 129 |


324. *Lutra lutra* (Linnaeus), Syst. Nat. **1**, p. 45, 1758.

*Lutra vulgaris.*

European Otter.

*Hab.* Europe: widely distributed, extending into parts of Asia and northern Africa.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 19.

First received in 1827, or early in 1828.

Four born in the Gardens: two on 13 Aug. 1846, both of which lived for over six years, and two 11 Aug. 1856.

325. *Lutra maculicollis* Lichtenstein, Arch. für Naturg. **1**, 1, p. 89, 1835.

Alternative name *Hydrictis maculicollis.*

Spotted-necked Otter.

*Hab.* West Africa: Sierra Leone to the Congo.

*Fig.* Lichtenstein, *l. c. s.* pl. 2, fig. 1.

One purchased 23 Dec. 1919.

326. *Lutra cinerea* Illiger, Abh. Ak. Berlin, 1811, p. 99, 1815. *v.* Thomas, Proc. Zool. Soc. London, 1889, p. 193.

*Lutra leptonyx.*

Alternative name *Amblonyx cinerea.*

Indian Small-clawed Otter.

*Hab.* South-east Asia: widely distributed, north to the Himalayas and China, south to the Malay Peninsula and Islands.

*Fig.* Horsfield, Res. Java, 1824, pl. 21.

A male presented 10 Nov. 1888, by Mr. W. L. Sclater, F.Z.S.

327. *Lutra tarayensis* Hodgson, J. Asiat. Soc. Bengal, **8**, p. 319, 1839.

*Lutra nair* List, ed. 9, 1896, p. 89.

Alternative name *Lutrogale tarayensis.*

Indian Otter.

*Hab.* South-east Asia: India to Malaya.

*Fig.*

One purchased 27 Aug. 1879.

Synonymy *Lutra barang* F. Cuvier 1823. *v.* Thomas, P. Z. S. 1889, p. 195. *Lutra macrodus* J. E. Gray, P. Z. S. 1865, p. 128. *v.* Blanford, Faun. Ind. Mamm. Appendix, 1891, p. 601. *v.* also Wroughton, J. Bombay N. H. S. **26**, p. 349, 1919.

328. *Lutra canadensis* (Schreber), Säugth. pl. 126 *b*, 1766.

Alternative name *Lontra canadensis.*

Canadian Otter.

*Hab.* North America: Eastern Canada, extending, with local races, west to Washington and California and south to Arizona and Florida.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 51; **3**, 1854, pl. 122.

One presented 27 Sept. 1831, by the Hudson's Bay Company, died 4 Nov. 1831.

329. *Lutra platensis* G. R. Waterhouse, Zool. Voy. Beagle, p. 21, 1839.

*Lutra felina.*

Alternative name *Lontra platensis.*

South American Otter.

*Hab.* South America: Argentina.

*Fig.*

One presented 6 Dec. 1910, by Mr. W. Clyne.

Genus **Helictis** J. E. Gray, Proc. Zool. Soc. London, 1831, p. 94.

Species :


| | Page |
|---|---|
| 1. *subaurantiaca* | 130 |
| 2. *personata* | 130 |


30. *Helictis subaurantiaca* Swinhoe, Proc. Zool. Soc. London, 1862, p. 355.

Chinese Ferret-Badger.

*Hab.* China.

*Figs.* P. Z. S. 1862, pl. 44 ; 1879, pl. 29.

A female purchased 26 Nov. 1874, died 29 Nov. 1878.

331. *Helictis personata* (I. Geoffroy), Bélanger, Voy. Ind. Or. Zool. p. 137, 1834.

Alternative name *Melogale personata*.

Burmese Ferret-Badger.

*Hab.* Burma.

*Figs.* Bélanger, *l. c. s.* pl. 5. Blanford, Faun. Ind. Mamm. 1888, p. 175, fig. 44 : uncoloured.

A female presented 4 Nov. 1904, by Capt. E. W. Burnett.

Genus **Mustela** Linnaeus, Syst. Nat. **1**, p. 45, 1758.

Species :


| | Page |
|---|---|
| 1. *erminea* | 130 |
| 2. *hibernica* | 131 |
| 3. *nivalis* | 131 |
| 4. *africana* | 131 |
| 5. *vison* | 131 |


332. *Mustela erminea* Linnaeus, Syst. Nat. **1**, p. 46, 1758.

Stoat.

*Hab.* Europe : from Great Britain eastward into Asia, and from the Arctic coast southward to the Pyrenees and Alps.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 23.

One presented 27 July, 1870, by Capt. Salvin.

333. *Mustela hibernica* (Thomas & Barrett-Hamilton), Zoologist (3) **19**, p. 125, 1895.

Irish Stoat.

*Hab.* Ireland and the Isle of Man.

*Fig.* Lodge, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 24.

One presented 10 April, 1895, by Lord Powerscourt, F.Z.S.

334. *Mustela nivalis* Linnaeus, Syst. Nat. **1**, p. 69, 1766.

*Mustela vulgaris* List, ed. 9, 1896, p. 85.

Alternative name *Gale nivalis.*

Weasel.

*Hab.* Europe : from Great Britain eastward into Asia, and from the Arctic coast southward to the Mediterranean.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 25.

One purchased 13 Sept. 1834.

335. *Mustela africana* Desmarest, Nouv. Dict. Hist. Nat. **19**, p. 376, 1818.

Egyptian Weasel.

*Hab.* Egypt ; also found in Malta and in the Azores (possibly introduced by human agency).

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 36, as *Putorius africanus.*

Three presented 12 May, 1897, by the Giza Z. G.

336. *Mustela vison* Schreber, Säugth. pl. 127 *b*, 1777.

Alternative name *Lutreola vison.*

American Mink.

*Hab.* North America : in suitable localities almost throughout Canada, the United States and Alaska.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 33, as *Putorius vison.*

One purchased 23 July, 1886.

Genus **Putorius** G. Cuvier, Règne Anim. **1**, p. 147, 1817. Miller, N. Amer. Mamm. p. 127, 1923 *.

Species :


| | Page |
|---|---|
| 1. *putorius* | 132 |
| 2. *furo* | 132 |
| 3. *nigripes* | 132 |


337. *Putorius putorius* (Linnaeus) Syst. Nat. **1**, p. 46, 1758.

*Mustela putorius.*

Polecat.

*Hab.* Europe: from Great Britain eastward, and from Scandinavia to the Mediterranean.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 22.

First received 19 March, 1828 : it had been caught in a trap in Regent's Park.

338. *Putorius furo* (Linnaeus), Syst. Nat. **1**, p. 46, 1758.

*Mustela furo.*

Ferret.

*Hab.* Domestic in Europe. Though usually assumed to be a domestic variety of *Putorius putorius*, the Ferret appears to be more nearly related to the Asiatic *P. eversmanni.* *v.* Miller, Brit. Mus. Cat. Mamm. W. Eur. p. 423, 1912.

*Figs.* Schreber, Säugth. 1775 ? pl. 133 : White Ferret. F. Cuvier, Hist. Nat. Mamm. 1820, livr. 22 : "Le Furet," Coloured Ferret.

Two from Japan were presented 14 Dec. 1881, by Mrs. J. F. Faed. English Ferrets had been in the Gardens many years before that.

339. *Putorius nigripes* Audubon & Bachman, Quad. N. Amer. **2**, p, 297, 1851.

*Mustela nigripes.*

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* Bulletin U.S. Nat. Mus. **128**, Washington, D.C. 1924.

Black-footed Polecat.

*Hab.* North America: Great Plains, from western North Dakota and northern Montana to Texas.

*Figs.* Audubon & Bachman, *l.c.s.* pl. 93. P.Z.S. 1911, p. 559, text-fig. 145: photograph.

One received 16 Feb. 1911, in exchange from Washington.

Genus **Vormela** W. Blasius, Ber. Naturfors. Gesellsch. Bemberg, **13**, p. 9, 1884. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 428, 1912.

Species:

Page
1. *peregusna* ..... 133

340. *Vormela peregusna* (Gueldenstaedt), Nov. Comm. Acad. Sci. Imp. Petrop. **14**, p. 441, 1770. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 429, 1912.

*Mustela sarmatica.*

Marbled Polecat.

*Hab.* Eastern Europe and Asia: Bukowina, Roumania, Bulgaria, southern Russia, and from Asia Minor and Palestine to central China

*Fig.* Blanford, Faun. Ind. Mamm. 1888, p. 164, fig. 41: uncoloured.

Four, from Quetta, presented 8 Feb. 1889, by Col. Sir Oliver St. John, K.C.S.I., R.E.

Genus **Martes** Pinel, Actes Soc. Hist. Nat. Paris, **1**, p. 55, 1792. *v.* Miller, N. Amer. Mamm. p. 114, 1923.

Species:

Page
1. *martes* ..... 134
2. *foina* ..... 134
3. *zibellina* ..... 134
4. *americana* ..... 134
5. *pennanti* ..... 135
6. *flavigula* ..... 135

341. *Martes martes* (Linnaeus), Syst. Nat. **1**, p. 46, 1758.

*Mustela martes.*

Pine-Marten.

*Hab.* Europe, including the British Isles, and eastwards into Asia.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 21.

The first received were two from Russia, presented 26 Feb. 1829, as "Sables" by the Marchioness of Londonderry.

342. *Martes foina* (Erxleben), Syst. Regn. Anim. **1**, p. 458, 1777.

*Mustela foina.*

Beech-Marten. Stone-Marten.

*Hab.* Europe: central and southern continental Europe from the Mediterranean to the Baltic, and from the Atlantic coast eastward into Asia.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1823, livr. 39; "La Fouine."

First received before 29 April, 1831.

343. *Martes zibellina* (Linnaeus), Syst. Nat. **1**, p. 46, 1758.

*Mustela zibellina.*

Sable.

*Hab.* Northern Asia.

*Fig.* L. A. Sargent, in Finn, Wild Beasts of World, 1909, pl. opp. p. 116.

First received in 1842, or early in 1843.

344. *Martes americana* (Turton), Linn. Syst. Nat. **1**, p. 60, 1806. *v.* Miller, N. Amer. Mamm. p. 114, 1923.

*Martes leucopus.*

American Marten, or Sable.

*Hab.* Canada, Alaska and the northern United States.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 138, as *Mustela martes*.

First received alive in 1850.

345. *Martes pennanti* (Erxleben), Syst. Regn. Anim. **1**, p. 470, 1777. *v.* Miller, N. Amer. Mamm. p. 116, 1923.

*Mustela pennanti*. *Mustela canadensis*.

Pekan, or Fisher-Marten.

*Hab.* Canada.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 41.

A female was presented by the Hudson's Bay Company 14 Nov. 1832: she died 13 July, 1833.

Synonym. *Pekania pennanti*.

346. *Martes flavigula* (Boddaert), Elench. Anim. p. 88, 1785.

*Mustela flavigula*.

Alternative name *Charronia flavigula*.

Indian Marten. White-cheeked Marten. Hardwicke's Marten.

*Hab.* South-eastern Asia: India and Burma to China, and south to the Malay Peninsula and Sumatra.

*Fig.* Blanford, Faun. Ind. Mamm. 1888, p. 158, fig. 39: uncoloured.

The first received was one presented 23 April, 1831, by Capt. Shore: it escaped from its cage and was killed by a Harpy Eagle 17 April, 1832.

Genus **Gulo** Storr, Prodr. Meth. Mamm. p. 34, 1780.

Species:

Page
1. *gulo* ..... 136

347. *Gulo gulo* (Linnaeus), Syst. Nat. **1**, p. 45, 1758.
*Gulo luscus.*

Wolverine, or Glutton.

*Hab.* Northern forests of Europe, Asia and North America. The name *G. gulo* is often restricted to the European, typically Lapland, form, and *G. luscus* (Linnaeus) 1766 used for the Wolverines of N. America, which, however, are now divided up into many local races, recognized by some authorities as distinct species.

*Figs.* Fitzinger, Bild-Atlas, Säugth. 1860, fig. 70, as *Gulo arcticus.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 26, as *G. luscus.*

A Wolverine was alive in the Gardens in 1831: at various dates individuals appear to have been obtained from Scandinavia, from Russia and from N. America.

Genus **Tayra** Oken, Lehrb. Naturges. **3**, pt. 2, p. 1001, 1816.

Species:

1. *barbara* ..... Page 136

348. *Tayra barbara* (Linnaeus), Syst. Nat. **1**, p. 46, 1758.
*Galictis barbara.*

Tayra.

*Hab.* South and Central America to as far north as Mexico.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1826, livr. 55: "Le Galera."

One presented shortly before 31 May, 1831, by Mr. E. Hodgkinson, who had been given the animal in Venezuela by General Paez, the President.
Two born in the Gardens 5 Sept. 1878.

Genus **Meles** Brisson, Regn. Anim. ed. 2, p. 13, 1762.

Species:

1. *meles* ..... Page 137
2. *anakuma* ..... 137
3. *leucurus* ..... 137

349. *Meles meles* (Linnaeus), Syst. Nat. **1**, p. 48, 1758.

*Meles taxus.*

European Badger.

*Hab.* Europe: from the British Isles, Scandinavia and Spain eastward into northern Asia.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 20.

First received in 1828.

Twenty born in the Gardens 1842–1914, all between the 20th of February and the 18th of March.

350. *Meles anakuma* Temminck, Fauna Japon. p. 30, 1844.

*Meles ankuma. Meles amurensis.*

Japanese Badger.

*Hab.* Japan, and mainland of north-eastern Asia.

*Fig.* Temminck, *l. c. s.* pl. 6.

Two purchased 1 June, 1865, were referred to the typical form.

One deposited 26 July, 1899, was called a Siberian Badger, and might be called *Meles anakuma amurensis* Schrenk.

351. *Meles leucurus* Hodgson, J. Asiat. Soc. Bengal, **16**, p. 763, 1847.

*Meles leptorhynchus* A. Milne-Edwards, 1867.

Sharp-nosed Badger.

*Hab.* Eastern Asia: Tibet, Nepal, Assam, Yunnan, China.

*Figs.* Hodgson, *l. c. s.* pl. 29, as *Taxidea leucurus.* A. Milne-Edwards, Recherches Mamm. 1868–1874, pl. 25.

One presented 13 Nov. 1873, by Mr. R. Swinhoe, F.Z.S.

Genus **Arctonyx** F. Cuvier, Hist. Nat. Mamm. livr. 51 (pl. 220), 1825.

Species :

Page
1. *collaris* ..... 138

352. *Arctonyx collaris* F. Cuvier. Hist. Nat. Mamm. (pl. 220), livr. 51, 1825.

Hog-Badger. Sand Pig Badger.

*Hab.* East Asia : eastern Himalayas to Yunnan, and south to Tenasserim.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **1**, 1829, pl. 6, as *Mydaus collaris*. Blanford, Faun. Ind. Mamm. 1888, p. 179, fig. 47 : uncoloured.

One presented 29 Aug. 1842, by the Earl of Auckland: it died 1 Oct. 1842.

One, from Tavoy, presented 6 Aug. 1867, by Dr. J. Anderson, C.M.Z.S., lived in the Gardens till 29 Jan. 1874.

Genus **Mellivora** Storr, Prodr. Meth. Mamm. p. 34, 1780.

Species :

1. *ratel* ..... Page 138

353. *Mellivora ratel* (Sparrman) Kongl. Vetenskaps Acad. Handl. Stockholm, **38**, p. 147, pl. 4, fig. 3, 1777.

*Mellivora capensis*. *Mellivora indica*.

Ratel. Honey-Badger.

*Hab.* Africa and Asia : in suitable localities from the Cape of Good Hope to the base of the Himalayas.

*Figs.* Wolf, Zool. Sketches (2) 1867, pl. 9 : usual colour varieties. P. Z. S. 1867, pl. 8 ; 1909, **1**, pl. 61 (uncoloured) : unusual colour varieties. Anderson, Zool. Egypt, Mamm. 1902, pl. 39.

A Ratel was one of the very first mammals to be owned by the Society ; it lived for some months in the office at Bruton Street, and was transferred to Regent's Park when the Zoological Garden was begun.

A female received in exchange 3 Aug. 1866, was the type of *Mellivora leuconota* P. L. Sclater, P. Z. S. 1867, p. 98. Later (P. Z. S. 1871, p. 232), Mr. Sclater wrote that *leuconota* was not a distinct species.

A Ratel deposited 1 March, 1909, which died "a few weeks" later, was the type of *Mellivora signata* Pocock, P. Z. S. 1909, 1, p. 394. Mr. Pocock told me, in 1927, that *signata* is not to be considered as a species.

Genus **Ictonyx** Kaup, Thierr. **1**, p. 352, 1835.

Species:


| | Page |
|---|---|
| 1. *capensis* | 139 |
| 2. *erythraea* | 139 |
| 3. *senegalensis* | 139 |
| 4. *libyca* | 140 |
| 5. *multivittata* | 140 |


354. *Ictonyx capensis* Kaup, Thierr. **1**, p. 353, 1835.

*Ictonyx zorilla*. *Zorilla capensis*.

Cape Striped-Weasel. Muis-hond (in South Africa).

*Hab.* South Africa.

*Fig.* Matschie, Säugth. Deutsch-Ost-Afr. 1895, p. 83, fig. 48 : uncoloured.

One purchased 18 June, 1840, for £3.

355. *Ictonyx erythraea* de Winton, Ann. Mag. Nat. Hist. (7) **1**, p. 248, 1898.

Erythrean Striped-Weasel.

*Hab.* North-east Africa : eastern Sudan to Somaliland.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 37.

Two presented 4 June, 1910, by Mr. G. Blaine, F.Z.S.

356. *Ictonyx senegalensis* (J. E. Gray), Proc. Zool. Soc. London, 1865, p. 151.

Senegal Striped-Weasel.

*Hab.* West Africa : Gambia to northern Nigeria.

*Fig.*

One presented 23 May, 1926, by Capt. C. H. Armitage, C.M.G., D.S.O., F.Z.S.

357. *Ictonyx libyca* (Hemprich & Ehrenberg), Symbolae Physicae, Mamm. 2, p. 6, not numbered, in article on *Herpestes leucurus*, 1832.

Alternative name *Poecilictis libyca*.

Libyan Striped-Weasel.

*Hab.* North-east Africa : Egypt.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 38.

One presented 13 Sept. 1889, by Capt. W. W. Besant, Norfolk Regiment.

358. *Ictonyx multivittata* (Wagner), Schreber, Säugth. Suppl. pl. 133 *b*, 1840.

*Ictonyx frenata.*

Alternative name *Poecilictis multivittata*.

Bridled Striped-Weasel.

*Hab.* North-east Africa : the Sudan.

*Fig.* Wagner, *l. c. s.* as *Rhabdogale multivittata*.

One presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

Genus **Poecilogale** Thomas, Ann. Mag. Nat. Hist. (5) **11**, p. 370, 1883.

Species :

Page
1. *albinucha* ..... 140

359. *Poecilogale albinucha* (J. E. Gray), Proc. Zool. Soc. London, 1864, p. 69.

White-naped Weasel.

*Hab.* South Africa.

*Fig.* P. Z. S. 1864, pl. 10, as *Zorilla albinucha*.

Two presented 1 Dec. 1897, by Mr. W. Champion, F.Z.S.

Genus **Taxidea** G. R. Waterhouse, Proc. Zool. Soc. London, 1838, pp. 153, 154, 1839.

Species :

Page
1. *taxus* ..... 141

360. *Taxidea taxus* (Schreber), Säugth. **3**, p. 520, 1778.

*Taxidea americana.*

American Badger.

*Hab.* North America: typically from Labrador and Hudson's Bay, allied forms are found in Colorado, Texas, California and Lower California.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 47, as *Meles labradoria.*

One purchased 23 Jan. 1869.

Genus **Grison** Oken, Lehrb. Naturges. **3**, pt. 2, p. 1000, 1816.

Species:

Page
1. *furax* ..... 141
2. *allamandi* ..... 141

361. *Grison furax* Thomas, Ann. Mag. Nat. Hist. (7) **20**, p. 162, 1907.

*Galictis vittata* List, ed. 9, 1896, p. 85.

Grison.

*Hab.* South America: the Guianas and Brazil.

*Fig.* T. Z. S. **2**, 1841, pl. 35.

First received in 1831, or early in 1832.

362. *Grison allamandi* (T. Bell), Proc. Zool. Soc. London, 1837, p. 45.

*Galictis allamandi.*

Allamand's Grison.

*Hab.* South America: Argentina and Bolivia, and northward into Central America.

*Fig.* T. Z. S. **2**, 1841, pl. 37.

One presented 15 Dec. 1915, by Mr. W. A. Smithers, C.M.Z.S.

Genus **Spilogale** J. E. Gray, Proc. Zool. Soc. London, 1865, p. 150.

Species:

Page
1. *putorius* ..... 142

363. *Spilogale putorius* (Linnaeus), Syst. Nat. **1**, p. 44, 1758.

Little Skunk. Alleghenian Spotted Skunk.

*Hab.* North America: widely distributed in eastern and middle United States.

*Fig.*

Two purchased 29 Dec. 1910.

Genus **Mephitis** E. Geoffroy & G. Cuvier, Mag. Encyclop. Paris (1) **2**, p. 187, 1795.

Species:

Page
1. *mephitis* ..... 142

364. *Mephitis mephitis* (Schreber), Säugth. pl. 121, 1776.

*Mephitis mephitica.*

Canadian Skunk.

*Hab.* North America: Canada and the United States, many local forms.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 42, as *Mephitis chinga.*

One from Hudson's Bay, presented 20 Nov. 1865, by Capt. D. Herd, H.B.C.S., C.M.Z.S.

N.B.—One from Mexico, presented 30 April, 1896, by Mr. H. H. Cochrane, may have been *Mephitis macroura* Lichtenstein 1832.

Genus **Conepatus** J. E. Gray, Ann. Mag. Nat. Hist (2) **1**, p. 581, 1837.

Species:

Page
1. *humboldtii* ..... 142
2. *mapurito* ..... 143
3. *gibsoni* ..... 143
4. *proteus* ..... 143
5. *amazonicus* ..... 143

365. *Conepatus humboldtii* J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 581, 1837.

*Mephitis humboldtii. Thiosmus humboldtii.*

Patagonian Skunk.

*Hab.* Southern South America.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 15.

One received in 1853, which "lived for some months" in the Gardens, was the model for Wolf's picture.

366. *Conepatus mapurito* (J. F. Gmelin), Syst. Nat. **1**, p. 88, 1788.

Chilian Skunk.

*Hab.* South and Central America.

*Fig.*

One presented 7 April, 1864, by Mr. Edmonds.

367. *Conepatus gibsoni* Thomas, Ann. Mag. Nat. Hist. (8) **5**, p. 241, 1910.

Argentine Skunk.

*Hab.* South America: Argentina.

*Fig.*

One presented 3 March, 1911, by Mr. W. A. Smithers.

368. *Conepatus proteus* Thomas, Ann. Mag. Nat. Hist. (7) **9**, p. 239, 1902.

Cordovan Skunk.

*Hab.* South America: Argentina and Patagonia.

*Fig.*

One presented 4 or 15 May, 1917, by Mr. W. A. Smithers, C.M.Z.S.

369. *Conepatus amazonicus* Lichtenstein, Abh. Ak. Berlin, 1838, p. 272. *v.* Thomas, Ann. Mag. Nat. Hist. (7) **8**, p. 527, 1901.

*Mephitis amazonica.*

Amazonian Skunk.

*Hab.* South America: Brazil.

*Fig.*

Two presented 9 Aug. 1923, by Mr. G. Chambers, C.M.Z.S.

## Family PROCYONIDAE.

Genera :


| | Page |
|---|---|
| 1. *Bassariscus* | 144 |
| 2. *Bassaricyon* | 144 |
| 3. *Potos* | 145 |
| 4. *Procyon* | 145 |
| 5. *Nasua* | 146 |


Genus **Bassariscus** Coues, Science, 9, p. 516, 1887. *v.* Miller, N. Amer. Mamm. p. 112, 1923.

Species :


| | Page |
|---|---|
| 1. *astutus* | 144 |


370. *Bassariscus astutus* (Lichtenstein), Isis, 24, p. 513, 1831. *v.* Miller, N. Amer. Mamm. p. 112, 1923.

*Bassaris astuta.*

Cacomistle. "Cunning Cat-Squirrel."

*Hab.* Mexico, with closely allied forms spreading north to Texas, Nevada and Oregon.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 14.

One presented 20 Feb. 1841, by Mr. Stoltz of Vera Cruz, through Lieut. Smith, R.N., C.M.Z.S.: it died 8 Feb. 1842.

Genus **Bassaricyon** Allen, Proc. Acad. Nat. Sci. Philadelphia, p. 20, 1876. *v.* Miller, N. Amer. Mamm. p. 111, 1923.

Species :


| | Page |
|---|---|
| 1. *alleni* | 144 |


371. *Bassaricyon alleni* Thomas, Proc. Zool. Soc. London, 1880, p. 397.

Pale-faced Kinkajou.

*Hab.* South America: Ecuador and British Guiana. A southern form of *Bassaricyon gabbii* Allen 1876, of Costa Rica and Panama.

*Fig.* P.Z.S. 1880, pl. 38.

First received 28 March, 1894, when one was presented by Mr. A. Murray.

Genus **Potos** E. Geoffroy & G. Cuvier, Mag. Encyclop. Paris (1) **2**, p. 187, 1795.

Species :

Page
1. *flavus* ..... 145

372. *Potos flavus* (Schreber), Säugth. **1**, pl. 42, 1774. *v.* Thomas, Ann. Mag. Nat. Hist. (7) **9**, p. 267, 1902.

*Cercoleptes caudivolvulus.*

Kinkajou. American Potto.

*Hab.* South and Central America, northward to Mexico.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1821, livr. 25 : "Le Potto."

First received 1 July, 1830.

Genus **Procyon** Storr, Prodr. Meth. Mamm. p. 35, 1780.

Species :

Page
1. *lotor* ..... 145
2. *cancrivorus* ..... 145

373. *Procyon lotor* (Linnaeus), Syst. Nat. **1**, p. 48, 1758.

Raccoon.

*Hab.* North America : widely distributed in Canada and the United States, it occurs in Mexico and to as far south as Costa Rica.

*Fig.* Audubon & Bachman, Quad. N. Amer. **2**, 1851, pl. 61.

First received 23 April, 1828.

Ten born in the Gardens 1868–1895.

374. *Procyon cancrivorus* (G. Cuvier), Tabl. El. Hist. Nat. Anim. p. 113, 1798.

Alternative name *Euprocyon cancrivorus.*

Crab-eating Raccon. Agouara.

*Hab.* South and Central America to as far north as Panama, and possibly on to Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 140.

First received in 1847, or early in 1848.

Five born in the Gardens 1903, 1904.

Genus **Nasua** Storr, Prodr. Meth. Mamm. p. 35, 1780.

Species :


| | | Page |
|---|---|---|
| 1. | *nasua* | 146 |
| 2. | *vittata* | 146 |
| 3. | *narica* | 146 |


375. *Nasua nasua* (Linnaeus), Syst. Nat. **1**, p. 64, 1766.

*Nasua rufa.*

Ring-tailed Coati (pronounced Ko-at-ee).

*Hab.* South America : Brazil.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1818, livr. 1 "Coati roux." P. Z. S. 1866, pl. 17, as *Nasua dorsalis.*

First received in 1828.

About six born in the Gardens 1847–1886.

376. *Nasua vittata* Tschudi, Faun. Peruan. p. 101, 1844–1846.

Banded Coati.

*Hab.* South America : the Guianas and Venezuela.

*Fig.* Novit. Zool. Tring, **16**, 1909, pl. 1 : head only.

One presented 3 Sept. 1900, by Mr. G. P. Ashmore.

377. *Nasua narica* (Linnaeus), Syst. Nat. **1**, p. 64, 1766.

White-nosed Coati.

*Hab.* America : Mexico, Central America and south to Peru.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1819, livr. 4, 2 plates ; 1825, livr. 48 : "Coati-brun" and "Coati brun-foncé."

First received in 1828.

## Family AILURIDAE.

Genus:

Page
1. *Ailurus* ..... 147

### Genus **Ailurus** F. Cuvier, Hist. Nat. Mamm. livr. 50, 1825.

Species:

Page
1. *fulgens* ..... 147

378. *Ailurus fulgens* F. Cuvier, Hist. Nat. Mamm. **3** (pl. 203), livr. 50, 1825.

*Aelurus fulgens.*

Panda.

*Hab.* Eastern Himalayas.

*Fig.* P. Z. S. 1869, pl. 41.

First received 22 May, 1869, when a male was presented by Dr. Simpson.

Five born in the Gardens 1919–1921.

## Family URSIDAE.

Genera:

Page
1. *Thalarctos* ..... 147
* 2. *Ursus* ..... 148
3. *Melursus* ..... 152

### Genus **Thalarctos** Gray, Ann. of Philos, n. s. **10**, p. 62, 1825. *v.* Miller, N. Amer. Mamm. p. 106, 1923.

Species:

Page
1. *maritimus* ..... 147

379. *Thalarctos maritimus* (Phipps), Voyage towards the North Pole, p. 185, 1774. *v.* Miller, N. Amer. Mamm. p. 107, 1923.

*Ursus maritimus.*

Polar Bear.

*Hab.* North Polar Regions.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 1851, 2, pl. 91. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 73, as *Thalassarctos polaris*.

The first received was one purchased 2 July, 1829, from Mr. James; it died 10 Dec. 1843, having lived in the Gardens 14 years 5 months 8 days.

Twenty cubs have been born, 1861–1922, but none reared.

Genus **Ursus** Linnaeus, Syst. Nat. **1**, p. 47, 1758.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *arctos* | 148 | 5. *japonicus* | 152 |
| 2. *horribilis* | 150 | 6. *ornatus* | 152 |
| 3. *americanus* | 150 | 7. *malayanus* | 152 |
| 4. *tibetanus* | 151 | | |


380. *Ursus arctos* Linnaeus, Syst. Nat. **1**, p. 47, 1758.

Brown Bear.

*Hab.* Europe, Asia and North America: closely allied forms inhabit, or have inhabited within historical times, the northern hemisphere, from the northern limits of continental Europe, Asia and America, south to the Atlas Mountains in north-west Africa, the Himalayas, the Shan States in Indo-China, and Mexico.

At least twenty-eight different scientific names have been given to the Brown Bears of Europe. Fifteen or more races have been defined, sometimes vaguely, in Asia, while from North America Mr. G. S. Miller, in 1923, had to list eighty-nine nominal species and subspecies.

Thus, at the present time, it may be considered impossible to give a correct technical determination to any living Brown Bear when the precise locality, in which it was caught, is unknown.

The contemporary identifications of the officials of the Zoological Society have formed the basis of this present list. The American forms being treated as a separate species—as these have always been exhibited as the "Grizzly Bear."

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 72.

The European Brown Bear was first received in 1828.

A female bear from Siberia, presented 16 Sept. 1829, by Mr. Flockton, may have represented *Ursus arctos collaris* F. Cuvier, Hist. Nat. Mamm. livr. 42, 1824.

A Bear from "Jesso, Japan," received 12 May, 1869, was presumably *Ursus arctos yesoensis* Lydekker, Proc. Zool. Soc. London, 1897, p. 422.

A Bear from "Hakodadi, Japan," presented 18 Oct. 1864, by Capt. W. Beauchamp Seymour, R.N., was identified as *Ursus arctos beringensis*, see P. Z. S. 1864, p. 374.

A Bear from "Kamschatka," presented 30 Sept. 1910, by Mr. W. S. Race, was identified as *Ursus arctos beringianus* Middendorff, Reis. Nord. u. Ost. Sibir. 1, pt. 2, pl. 1, 1851.

Six Brown Bears are recorded as born in the Gardens—one 18 Jan. 1851, three 27 Dec. 1861, and two 18 Jan. 1916—none reared.

80 *a. Ursus arctos syriacus* Hemprich & Ehrenberg, Symbolae Physicae, pl. 1, 1828.

Syrian Bear.

*Hab.* Western Asia: in certain mountainous localities from Asia Minor and Syria to Persia.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 17.

A female was purchased 4 April, 1851.

One presented 26 Aug. 1851, by Mr. Alderman Finnis, which had been brought in one of his vessels from Bussorah in the Persian Gulf, was the original of Wolf's figure.

One was born (dead) 25 Jan. 1916.

380 *b. Ursus arctos isabellinus* Horsfield, Trans. Linn. Soc. London, **15**, p. 332, 1826–1827.

Isabelline Bear. Kashmir Brown Bear.

*Hab.* The Himalayas from Afghanistan to Nepal.

*Fig.* Lydekker, Great & Small Game India, 1900, pl. 9, fig. 8: head only.

A Bear presented 8 Aug. 1828, by Mr. Craigg, may have been of this form. One deposited in 1849 by Sir H. Hunloke, Bart., appears to be the first definite record.

380 *c. Ursus arctos piscator* Pucheran, Rev. Mag. Zool. Paris, 1855, p. 392.

*Spelaeus piscator.*

Fishing Bear. Hairy-eared Bear. Mongolian Bear.

*Hab.* North-east Asia : typically from Kamchatka.

*Figs.* Voy. Venus, 1846, Mamm. pl. 4, as *Ursus arctos* var. P. Z. S. 1867, p. 817 : head only, uncoloured.

One presented 14 Sept. 1867, by Mr. W. S. Stonehewer, was the type of *Ursus lasiotis* J. E. Gray, Ann. Mag. Nat. Hist. (3) **20**, p. 301, 1867.

381. *Ursus horribilis* Ord, Guthrie's Geography, 2nd Amer. ed. 2, pp. 291, 299, 1815. *v.* Miller, N. Amer. Mamm. p. 92, 1923.

*Spelaeus horribilis. Danis horribilis.*

Grizzly Bear.

*Hab.* Western North America from Alaska and the Mackenzie to California, Arizona and Mexico, formerly ranging eastward to Alberta, Montana and Texas.

*Fig.* Audubon & Bachman, Quadr. N. Amer. 3, 1854, pl. 131, as *Ursus ferox.*

It is possible that a specimen was received in 1828 or 1829, but the first definite notice of a Grizzly Bear being in the possession of the Society was the one presented 17 Jan. 1832, by King William IV. This bear had been presented to King George III., about 1813, by the Hudson's Bay Company, and had been kept in the Tower of London for nearly 20 years. It was the last of the animals of the historic old Tower Menagerie to be transferred to the Zoological Society's Gardens. This Bear died 30 Oct. 1838, after 26 years of life in London.

382. *Ursus americanus* Pallas, Spicil. zool. fasc. 14, pp. 5, 6, 1780.

Alternative name *Euarctos americanus.*

American Black Bear.

*Hab.* North America, type-locality eastern North America. Closely-allied forms extend the range, from Canada and Alaska to Florida and Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 141.

First exhibited in 1828. One purchased 28 Jan. 1868, was described and figured as *Ursus nasutus* P. L. Sclater, P. Z. S. 1868, p. 73, pl. 8. In P.Z.S. 1871, p. 232, Sclater considers his *U. nasutus* to be a colour variety of *U. americanus*.

One born (dead) 3 Feb. 1918.

Five hybrids between *Ursus americanus* and *Ursus arctos* have been born in the Gardens, three 31 Dec. 1859, and two 28 Dec. 1919.

382 *a*. *Ursus americanus cinnamomum* Audubon & Bachman, Quadr. N. Amer. **3**, p. 125, 1854. *v.* Miller, N. Amer. Mamm. p. 91, 1923.

*Ursus americanus* var. *cinnamomum*.

Cinnamon Bear.

*Hab.* North America, type-locality northern Rocky Mountains.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 127.

The Cinnamon Bear was first exhibited 23 Oct. 1829, when a pair were presented by the Hudson's Bay Company; one of these lived in the Gardens till 11 Nov. 1848, the other till 28 May, 1851.

One born in the Gardens 19 Jan. 1839, was killed by its father. One was born (dead) 15 Jan. 1845.

383. *Ursus tibetanus* F. Cuvier, Hist. Nat. Mamm. livr. 39, 1823.

Alternative name *Selenarctos tibetanus*.

Himalayan Black Bear.

*Hab.* Asia: widely distributed in wooded districts, from the western frontiers of Afghanistan and Baluchistan, east to China, Hainan and Formosa, south to Mergui and north to Siberia.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1824, livr. 41.

First exhibited in 1828 or 1829, individuals have been received from various parts of India, from northern China in 1866, from Formosa in 1867, and from eastern Siberia in 1870.

Synonymy. *Ursus torquatus*. *Arcticonus tibetanus*.

384. *Ursus japonicus* Schlegel, Handleidung tot de Beoefning der Dierkunde, pt. 1, p. 42, 1857.

Alternative name *Selenarctos japonicus*.

Japanese Bear.

*Hab.* Japan.

*Fig.* P. Z. S. 1862, pl. 32.

Two female Bears, purchased 1 April, 1862, from Capt. Ward, who had brought them from Japan, were the types of *Ursus japonicus* P. L. Sclater, P. Z. S. 1862, pp. 187 & 261.

385. *Ursus ornatus* F. Cuvier, Hist. Nat. Mamm. livr. 50, 1825.

Alternative name *Tremarctos ornatus*.

Spectacled Bear.

*Hab.* South America: mountains of Peru and Colombia.

*Fig.* F. Cuvier, *l. c. s.* pl.

One received in exchange 21 Sept. 1832: it died 8 Oct. 1835.

386. *Ursus malayanus* Raffles, Trans. Linn. Soc. London, **13**, p. 254, 1822.

Alternative name *Helarctos malayanus*.

Malay Bear. Sunbear. Bruang (in Malaya).

*Hab.* South-eastern Asia: Burma, Siam, Malay Peninsula, Sumatra, Java and Borneo.

*Fig.* Horsfield, Zool. Res. Java, 1822, pl. 15.

One received 12 Oct. 1831, from Mr. Cops, of the Tower of London Menagerie: it lived till 6 March, 1839.

Genus **Melursus** F. A. A. Meyer, Uebersicht neuest. zool. Entdeck, p. 155, 1793–1794.

Species:

Page
1. *ursinus* ..... 153

387. *Melursus ursinus* (Shaw), Naturalist's Miscellany, no. 19, pls. 58 & 59, 1791.

Sloth-Bear.

*Hab.* India and Ceylon.

*Fig.* L. A. Sargent, in Finn, Wild Beasts of World, 1909, pl. opp. p. 148.

The first received was one purchased 25 June, 1829, from Capt. Timins.

## Order VIII. **PINNIPEDIA.**

Families :

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1. Otariidae ..... 153
2. Odobenidae ..... 155
3. Phocidae ..... 156

### Family OTARIIDAE.

Genera :

Page
1. *Zalophus* ..... 153
2. *Otaria* ..... 154
3. *Arctocephalus* ..... 154

Genus **Zalophus** Gill, Comm. Essex Inst. **5**, p. 7, 1866. *v.* Miller, N. Amer. Mamm. p. 162, 1923.

Species :

Page
1. *californianus* ..... 153

388. *Zalophus californianus* (Lesson), Dict. Class. Hist. Nat. **13**, p. 420, 1828.

*Otaria californiana.*

Californian Sea-Lion.

*Hab.* North-east Pacific Ocean.

*Fig.* Haacke & Kuhnert, Thierl. 1901, **3**, pl. opp p. 260.

Specimens had been exhibited alive in both the Brighton and Southport Aquariums at least as early as 1877. The first received in our Gardens was one, deposited, 11 Aug. 1892.

Young born in the Gardens: one 27 May, 1922, one 4 June, 1925, one 13 June, 1926. All three reared.

Synonym. *Otaria gillespii* McBain 1858.

Genus **Otaria** Péron, Voyage aux Terres Australes, **2**, p. 37, footnote, 1816.

Species:

Page
1. *byronii* ..... 154

389. *Otaria byronii* (Desmarest), Ency. Méth. Mamm. (1) p. 240, 1820.

*Otaria byronia* (Blainville), Journ. Phys. **91**, p. 300, 1820, is a *nom. nud.* *v.* Sherborn, Index Anim. **2**, p. 942, 1924.

*Otaria jubata* List, ed. 9, 1896, p. 97.

Southern, or Patagonian, Sea-Lion.

*Hab.* Southern South America and Islands.

*Figs.* P.Z.S. 1866, p. 80: uncoloured; 1869, pl. 7, ♂ & ♀ juv. Wolf, Zool. Sketches (2) 1867, pl. 11, as "*O. hookeri.*"

A young male captured near Cape Horn in June, 1862, by Monsieur A. A. Leconte, who exhibited it in France and England, was purchased by the Society 25 Jan. 1866. It died 14 Feb. 1867. A female from the Falkland Islands arrived in the Gardens 24 Aug. 1868.

N.B.—*Eumetopias jubata* (Schreber) 1776 is the Northern Sea-Lion. Syn. *E. stelleri.*

Genus **Arctocephalus** E. Geoffroy & F. Cuvier, Dict. Sci. Nat. **39**, p. 554, 1826.

Species:

Page
1. *pusillus* ..... 155
2. *forsteri* ..... 155

390. *Arctocephalus pusillus* (Schreber), Säugth. **3**, p. 314, 1778.

*Otaria pusilla.*

Cape Sea-Lion. South African Fur-Seal.

*Hab.* South Africa.

*Fig.* W. L. Sclater, Faun. S. Afr. Mamm. 1900, p. 121, fig. 35 : uncoloured.

A young female was presented 25 Oct. 1871, by Sir Henry Barkly, C.M.Z.S., who obtained it in Cape Town.

391. *Arctocephalus forsteri* Lesson, Dict. Class. Hist. Nat. **13**, p. 421, 1828.

*Otaria hookeri.*

Hooker's Sea-Lion. New Zealand Fur-Seal.

*Hab.* New Zealand, and islands to the south.

*Fig.* J. E. Gray, Voy. Erebus & Terror, Zool. **1**, 1844, pl. 14, as *Arctocephalus hookeri* : uncoloured.

Three, from the Auckland Islands, presented 26 Jan. 1887, by the Hon W. J. M. Larnach, C.M.G.

## Family ODOBENIDAE.

Genus :

Page
1. *Odobenus* ..... 155

### Genus **Odobenus** Brisson, Regn. Anim. ed. 2, p. 30, 1762.

Species :

Page
1. *rosmarus* ..... 155

392. *Odobenus rosmarus* (Linnaeus), Syst. Nat. **1**, p. 38, 1758.

*Trichecus rosmarus.*

Atlantic Walrus.

*Hab.* Arctic Seas.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 18: young animal. P. Z. S. 1909, pl. 76: young animal.

A young female from the Spitzbergen Seas, collected by Capt. Henry (or Hervey?) of Peterhead and deposited in the Gardens 12 Oct. 1853, was the first Walrus exhibited alive. It died the day after its arrival. The second, a young male from Davis's Straits, purchased for £200, 1 Nov. 1867, lived in the Gardens one month, eighteen days.

## Family PHOCIDAE.

Genera:


| | | Page |
|---|---|---|
| 1. | *Halichoerus* | 156 |
| 2. | *Phoca* | 156 |
| 3. | *Monachus* | 157 |
| 4. | *Cystophora* | 158 |
| 5. | *Mirounga* | 158 |


### Genus **Halichoerus** Nilsson, Faun. Scandinav. **1**, p. 377, 1820.

Species:


| | | Page |
|---|---|---|
| 1. | *grypus* | 156 |


393. *Halichoerus grypus* (Fabricius), Skriv. af Nat. Selsk. **1**, pt. 2, p. 167, 1791.

Grey Seal.

*Hab.* North Atlantic, especially coasts of British Isles and Scandinavia.

*Figs.* Millais, Mamm. Gt. Britain, **1**, 1904, pls. 26, 27 & 28.

First received 11 Nov. 1871, when a pair were purchased.

### Genus **Phoca** Linnaeus, Syst. Nat. **1**, p. 37, 1758.

Species:


| | | Page |
|---|---|---|
| 1. | *vitulina* | 157 |
| 2. | *hispida* | 157 |
| 3. | *groenlandica* | 157 |

394. *Phoca vitulina* Linnaeus, Syst. Nat. **1**, p. 38, 1758.

Seal. Harbour Seal (in America).

*Hab.* North Atlantic coasts and islands, occasionally ascending rivers.

*Figs.* Millais, Mamm. Gt. Britain, **1**, 1904, pls. 31, 32.

First received 21 July, 1830, when one was purchased. One still-born 7 June, 1862. One born 9 June, 1868, lived for one week.

395. *Phoca hispida* Schreber, Säugth. **3**, pl. 86, 1775.

Ringed Seal.

*Hab.* North Atlantic and Arctic Seas: typically from the coasts of Greenland and Labrador.

*Fig.* Millais, Mamm. Gt. Britain, **1**, 1904, pl. 34.

First received 10 July, 1905, when one was purchased.

Synonymy. *Pusa hispida*. *Phoca foetida*.

396. *Phoca groenlandica* Fabricius, in Müller, Zool. Dan. Prod. p. viii. 1776.

Harp Seal.

*Hab.* North Atlantic and Arctic Seas.

*Figs.* P.Z.S. 1870, pl. 32. Millais, Mamm. Gt. Britain, **1**, 1904, pl. 35.

First received 6 May, 1869, when four males were purchased; a female was purchased five days later.

## Genus **Monachus** Fleming, Philosophy of Zoology, **2**, p. 187, 1822.

Species:

Page
1. *monachus* ..... 157

397. *Monachus monachus* (Hermann), Besch. Ges. naturf. Fr. Berlin, **4**, p. 501, 1779.

*Monachus albiventer* (Boddaert), Elench. Anim. p. 170, 1785.

Monk Seal.

*Hab.* Mediterranean Sea, and adjacent parts of the Atlantic along the coast of Morocco and to Madeira.

*Fig.* Brehm, Tierl. Säugth. **2**, 1914, opp. p. 622: photograph.

First received 18 May, 1882, when a young female was presented by Mr. M. Yeats Brown: it died the same day.

Genus **Cystophora** Nilsson, Faun. Scandinav. **1**, p. 382, 1820.

Species:

1. *cristata* ..... Page 158

398. *Cystophora cristata* (Erxleben), Syst. Reg. Anim. p. 590, 1777.

Bladder-nosed Seal.

*Hab.* North Atlantic and Arctic Seas.

*Fig.* Brehm, Tierl. Säugth. **2**, 1914, p. 621: uncoloured.

First received 6 May, 1870, when two males and a female were purchased.

Genus **Mirounga** J. E. Gray, in Griffith, Anim. Kingd. **5**, p. 179, 1827.

Species:

1. *leonina* ..... Page 158

399. *Mirounga leonina* (Linnaeus), Syst. Nat. **1**, p. 37, 1758.

*Macrorhinus leoninus.*

Southern Elephant Seal.

*Hab.* Antarctic Seas.

*Fig.* Novit. Zool. Tring, **17**, 1910, pl. 8.

One was deposited, 23 March, 1911, by H.M. the King, who had received it from Dr. L. Péringuez, F.Z.S.; it was from Crozet Island, and registered as *Macrorhinus crozetensis* Lydekker.

On 6 April, 1914, two were presented by H.G. the Duke of Bedford, K.G., F.R.S., President of the Society.

## Order XI. CETACEA.

Families:


| | Page | | Page |
|---|---|---|---|
| 1. Balaenidae ..... | — | 5. Kogiidae..... | — |
| 2. Rhachianectidae .... | — | 6. Ziphiidae ..... | — |
| 3. Balaenopteridae .... | — | 7. Platanistidae ..... | — |
| 4. Physeteridae ..... | — | 8. Delphinidae ..... | 159 |


Only the Delphinidae have been represented alive in the London Z.G.

### Family DELPHINIDAE.

Genus:


Page

1. *Phocaena* ..... 159


Genus **Phocaena** Cuvier, Règne Anim. **1**, p. 279, 1817; & Desmarest Nouv. Dict. Hist. Nat. ed. 2, **9**, p. 163, 1817.

Species:


Page

1. *phocaena* ..... 159


400. *Phocaena phocaena* (Linnaeus), Syst. Nat. **1**, p. 77, 1758.

*Phocaena communis.*

North Atlantic Porpoise.

The most numerous cetacean on the coasts of the British Isles, occasionally entering rivers, the Porpoise inhabits the Atlantic from the White Sea to the Straits of Gibraltar (migrating into the Baltic, Mediterranean and Black Seas), and from Greenland to the east coast of the United States. It also occurs in the North Pacific.

*Fig.* Harmer, Rep. Cetacea, No. 10, Brit. Mus. 1927, p. 19, fig. 11: uncoloured.

First received 4 Dec. 1862, when one was presented by Mr. Reading: it died the next day. One purchased alive 10 March, 1865, was made the type of *Phocaena tuberculifera* J. E. Gray, P. Z. S. 1865, p. 318.

## Order X. RODENTIA

(or Rodentia Simplicidentata).

Families :


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|---|---|
| *1. Anomaluridae | — |
| *2. Idiuridae | — |
| 3. Petauristidae | 160 |
| 4. Sciuridae | 164 |
| 5. Castoridae | 184 |
| 6. Muscardinidae | 185 |
| 7. Muridae | 188 |
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| 9. Geomyidae | 215 |
| 10. Bathyergidae | 215 |
| *11. Aplodontidae | — |
| 12. Jaculidae | 217 |
| 13. Zapodidae | 219 |
| 14. Pedetidae | 220 |
| 15. Hystricidae | 220 |
| 16. Erethizontidae | 223 |
| 17. Echimyidae | 225 |
| 18. Octodontidae | 226 |
| 19. Ctenodactylidae | 227 |
| *20. Petromyidae | — |
| 21. Capromyidae | 227 |
| 22. Myocastoridae | 229 |
| 23. Thryonomyidae | 230 |
| 24. Dinomyidae | 230 |
| 25. Cuniculidae | 231 |
| 26. Dasyproctidae | 231 |
| 27. Vizcaciidae | 234 |
| *28. Abrocomidae | — |
| 29. Caviidae | 236 |
| 30. Hydrochoeridae | 238 |


### Family PETAURISTIDAE.

Genera :


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|---|---|
| 1. *Petaurista* | 160 |
| 2. *Sciuropterus* | 162 |
| 3. *Glaucomys* | 162 |
| 4. *Euglaucomys* | 163 |
| 5. *Petinomys* | 163 |


Genus **Petaurista** Link, Beyträg. Naturg. pt. 2, p. 78, 1795. *v.* Thomas, Proc. Zool. Soc. London, 1896, p. 1015.

Species :


| | Page |
|---|---|
| 1. *petaurista* | 161 |
| 2. *alborufus* | 161 |
| 3. *inornatus* | 161 |
| 4. *leucogenys* | 161 |
| 5. *philippensis* | 162 |


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* = Not yet alive in Gardens, 31 Dec. 1927.

401. *Petaurista petaurista* (Pallas), Zool. Misc. p. 54, 1766.

*Pteromys nitidus.*

Large Malay Flying-Squirrel.

*Hab.* South-east Asia : Siam, Formosa, Malay Peninsula, Sumatra, Java, Natuna and Borneo.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 99, as *Pteromys petaurista*. P. Z. S. 1862, pl. 45, as *Pteromys grandis*.

One presented between 30 April, 1840, and 5 March, 1841, by Mr. H. Cuming, C.M.Z.S.

402. *Petaurista alborufus* (A. Milne-Edwards), Rech. Hist. Nat. Mamm. p. 298, 1868–1874. C. R. Acad. Sci. Paris, **70**, p. 342, 1870.

*Pteromys alborufus.*

Red-and-White Flying-Squirrel.

*Hab.* Asia : Moupin, eastern Tibet and Szechuen, western China.

*Fig.* Milne-Edwards, Rech. Hist. Nat. Mamm. 1868–1874, pl. 45.

One presented 9 Sept. 1887, by Mr. P. Montgomery.

403. *Petaurista inornatus* (I. Geoffroy), in Jacquemont, Voyage Ind. **4**, Mamm. p. 62, 1844.

*Pteromys inornatus.*

Large Red Kashmir Flying-Squirrel.

*Hab.* Asia : North India.

*Figs.* I. Geoffroy, *l. c. s.* Atlas, **2**, pl. 4. P. Z. S. 1872, pl. 50, as *Pteromys magnificus*.

One purchased 10 or 11 April, 1872.

404. *Petaurista leucogenys* (Temminck), Mon. Mamm. Tab. Method. **1**, p. 27, 1827.

*Pteromys leucogenys.*

White-cheeked Flying-Squirrel.

*Hab.* Asia : Japan.

*Fig.* Temminck & Schlegel, Faun. Japon. Mamm. 1847, pl. 13.

A female presented 15 April, 1874, by Mr. A. A. J. Gower.

405. *Petaurista philippensis* (Elliot), Madras J. Lit. & Sci. p. 217, 1839. *v.* Robinson & Kloss, Rec. Ind. Mus. **15**, p. 177, 1918.

*Pteromys oral.*

Large Brown Flying-Squirrel.

*Hab.* Asia : south India and Ceylon.

*Fig.* Blanford, Faun. Ind. Mamm. 1891, p. 361, fig. 122 : uncoloured.

One presented 18 July, 1892, by Mr. W. M. Daly.

Genus **Sciuropterus** F. Cuvier, Dents des Mamm. p. 161, 1825.

Species :

1. *russicus* ..... Page 162

406. *Sciuropterus russicus* (Tiedemann), Zoologie, **1**, p. 451, 1808. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 941, 1912.

European Flying-Squirrel.

*Hab.* Europe: Scandinavia, Finland and northern Russia, and eastward into Siberia.

*Fig.*

Two, from Russia, presented 11 Oct. 1898, by Mrs. Nias.

Genus **Glaucomys** Thomas, Ann. Mag. Nat. Hist. (8) **1**, p. 5, 1908.

Species :

1. *volans* ..... Page 162

407. *Glaucomys volans* (Linnaeus), Syst. Nat. **1**, p. 63, 1758.

*Sciuropterus volucella.*

American Flying-Squirrel.

*Hab.* North America: widely distributed in the United States, extending north into Canada and south into Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 28, as *Pteromys volucella*.

A female, received in 1829 or 1830, "lived in the Society's Collection for upwards of a year" (P. Z. S. 1831, p. 38).

Four, or six, born in the Gardens 1859–1860.

Genus **Euglaucomys** Howell, Proc. Biol. Soc. Washington, **28**, p. 109, 1915.

Species:

Page
1. *fimbriatus* ..... 163

408. *Euglaucomys fimbriatus* (J. E. Gray), Mag. Nat. Hist. (n. s.), **1**, p. 584, 1837.

*Sciuropterus fimbriatus.*

Small Kashmir Flying-Squirrel.

*Hab.* Asia: northern India, the Himalayas and Afghanistan.

*Fig.*

One presented 11 Dec. 1872, by Capt. the Hon. G. Napier.

Genus **Petinomys** Thomas, Ann. Mag. Nat. Hist. (8) **1**, p. 6, 1908.

Species:

Page
1. *fuscocapillus* ..... 163

409. *Petinomys fuscocapillus* (Jerdon), in Blyth, J. Asiat. Soc. Bengal, **16**, pt. 2, p. 867, 1847.

*Sciuropterus layardi.*

Layard's Flying-Squirrel. Small Travancore Flying-Squirrel.

*Hab.* Asia: south India and Ceylon.

*Fig.*

One presented 8 Oct. 1877, by Sir Charles P. Layard.

## Family SCIURIDAE.

Genera :


| | Page | | Page |
|---|---|---|---|
| 1. *Sciurus* | 164 | 10. *Euxerus* | 176 |
| 2. *Funambulus* | 169 | 11. *Geosciurus* | 177 |
| 3. *Tamiodes* | 169 | 12. *Tamias* | 177 |
| 4. *Ratufa* | 169 | 13. *Eutamias* | 178 |
| 5. *Protoxerus* | 171 | 14. *Cynomys* | 178 |
| 6. *Funisciurus* | 171 | 15. *Citellus* | 179 |
| 7. *Heliosciurus* | 173 | 16. *Callospermophilus* | 182 |
| 8. *Callosciurus* | 173 | 17. *Marmota* | 183 |
| 9. *Xerus* | 176 | | |


### Genus **Sciurus** Linnaeus, Syst. Nat. **1**, p. 63, 1758.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *vulgaris* | 164 | 9. *niger* | 166 |
| 2. *persicus* | 164 | 10. *arizonensis* | 167 |
| 3. *carolinensis* | 165 | 11. *variabilis* | 167 |
| 4. *colliaei* | 165 | 12. *hudsonicus* | 167 |
| 5. *griseoflavus* | 165 | 13. *chapmani* | 168 |
| 6. *boothiae* | 166 | 14. *pusillus* | 168 |
| 7. *hypopyrrhus* | 166 | 15. *stramineus* | 168 |
| 8. *aestuans* | 166 | 16. *variegatus* | 168 |


410. *Sciurus vulgaris* Linnaeus, Syst. Nat. **1**, p. 63, 1758.

European Squirrel.

*Hab.* Europe: wooded districts from Great Britain and Ireland eastward into Asia, and from the extreme northern limits of tree-growth south to the Mediterranean.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 37.

English Squirrels, from St. Albans, were received 10 May, 1828 ; Continental Squirrels at later dates. The British Squirrel, as distinct from the various races found in Continental Europe, is called *Sciurus vulgaris leucourus* Kerr 1792.

411. *Sciurus persicus* Erxleben, Syst. Regn. Anim. **1**, p. 417, 1777.

*Sciurus syriacus* List, ed. 9, 1896, p. 107.

Alternative name *Tenes persicus*.

Persian Squirrel.

*Hab.* Persia, Asia Minor and Syria.

*Fig.* Hemprich & Ehrenberg, Symb. Phys. 1832, pl. 8.

Three presented 20 Dec. 1889, by Capt Bailward, R.A., F.Z.S., were called *S. syriacus*.

One presented 25 Jan. 1923, by Major Dickson, C.I.E., was the first registered as *S. persicus*.

412. *Sciurus carolinensis* J. F. Gmelin, Syst. Nat. **1**, p. 148, 1788.

*Sciurus cinereus.*

Alternative name *Neosciurus carolinensis.*

Grey Squirrel.

*Hab.* Eastern North America: New Brunswick to Minnesota, south to Florida and Louisiana. Introduced into England, where it has established itself in some London Parks and country districts.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 7.

Both the grey and black varieties of this species were exhibited in the Gardens before 29 April, 1831. An albino individual was received in 1835.

Two born in the Gardens in 1907, and two 21 April, 1912.

413. *Sciurus colliaei* Richardson, in Appendix to Beechey, Voy. Blossom (1830?). *v.* Bachman, Proc. Zool. Soc. London, 1838, p. 95.

Collie's Squirrel.

*Hab.* North America: Mexico.

*Figs.* Voy. Blossom, Zool. Mamm. 1839, pl. 1, as *Sciurus colliei.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 104.

A female purchased 7 June, 1901.

414. *Sciurus griseoflavus* (J. E. Gray), Ann. Mag. Nat. Hist. (3) **20**, p. 427, 1867.

Yellow-grey Squirrel.

*Hab.* Central America: Guatemala and Mexico.

*Fig.*

A male received in exchange 12 Oct. 1886.

415. *Sciurus boothiae* J. E. Gray, Brit. Mus. List Spec. Mamm. p. 139, 1843.

Honduras Squirrel.

*Hab.* Central America: Honduras, Guatemala and Nicaragua.

*Fig.* Voy. Sulphur, Zool. 1844, pl. 13, fig. 1.

First received in 1851.

416. *Sciurus hypopyrrhus* Wagler, Isis, 1831, p. 510.

Alternative name *Echinosciurus hypopyrrhus.*

Black-backed Squirrel.

*Hab.* Mexico and Central America.

*Figs.* P. Z. S. 1848, Mamm. pl. 7. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 12.

One purchased 13 Aug. 1862, appears to have been the first received.

This Squirrel may be considered a subspecies of *Sciurus aureogaster* F. Cuvier 1829, and called *S. a. hypopyrrhus.*

Synonym. *Sciurus dorsalis* J. E. Gray, P. Z. S. 1848, p. 138.

417. *Sciurus aestuans* Linnaeus, Syst. Nat. 1, p. 88, 1766.

Alternative name *Guerlinguetus aestuans.*

Tropical Squirrel.

*Hab.* South America: the Guianas, Brazil, eastern Peru and Bolivia.

*Fig.* Shaw, Gen. Zool. 2, 1801, pl. 156, as *Myoxus guerlingus*: uncoloured.

One purchased 12 May, 1870.

418. *Sciurus niger* Linnaeus, Syst. Nat. 1, p. 64, 1758.

Alternative name *Guerlinguetus niger.*

Fox-Squirrel.

*Hab.* North America: typically from South Carolina, this species ranges over the eastern and middle United States and into Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. 1851–54, **1**, pl. 34 ; **2**, pl. 68.

In Gardens from before 29 April, 1831. One from Texas, purchased 17 March, 1865, was referred to *Sciurus ludovicianus* Custis 1806.

Synonymy. *Sciurus vulpinus. S. capistratus. Parasciurus niger.*

419. *Sciurus arizonensis* Coues, Amer. Nat. **1**, p. 357, 1867. *v.* Miller, N. Amer. Mamm. p. 228, 1923.

Arizona Squirrel.

*Hab.* North America : Arizona, New Mexico and northern Mexico.

*Fig.*

One presented 21 July, 1887, by Dr. R. W. Shufeldt.

420. *Sciurus variabilis* I. Geoffroy, Mag. Zool. Paris, **2**, pl. 4, 1832.

Alternative name *Guerlinguetus variabilis.*

Variable Squirrel. Gerrard's Squirrel.

*Hab.* Northern South America and Panama.

*Figs.* Tschudi, Faun. Peru. 1844–1846, pl. 10. P. Z. S. 1861, pl. 16, as *Sciurus gerrardi.*

One purchased 24 June, 1876. One from Colombia, presented 21 April, 1913, by Mr. W. K. Pomeroy, F. Z. S., was called *Sciurus saltuensis bondae.*

Synonym. *Sciurus gerrardi* J. E. Gray, P. Z. S. 1861, p. 92, named after Mr. Edward Gerrard.

421. *Sciurus hudsonicus* Erxleben, Syst. Regn. Anim. **1**, p. 416, 1777.

*Sciurus hudsonius* List, ed. 9, 1896, p. 110.

Alternative name *Tamiasciurus hudsonicus.*

Chikaree. American Red Squirrel. Hudson's Bay Squirrel.

*Hab.* North America : widely distributed, with many local races, in Canada and the United States.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 1852, **1**, pl. 5 (*S. richardsonii*) ; pl. 14 (*S. hudsonius*). Klugh, J. Mamm. Baltimore, **8**. 1927, pls. 1–5 : photographs.

First received in 1844, or early in 1845.

422. *Sciurus chapmani* Allen, Bull. Amer. Mus. Nat. Hist. **12**, p. 16, 1899.

Chapman's Squirrel.

*Hab.* South America : Trinidad.

*Fig.*

One presented 22 Sept. 1906, by Mr. A. Guiseppi.

423. *Sciurus pusillus* Desmarest, Mamm. p. 337, 1820.

Pygmy Squirrel.

*Hab.* South America : the Guianas and Brazil.

*Fig.* P. Z. S. 1878, pl. 41.

Two presented 30 May, 1888, by Mr. R. F. Daly.

424. *Sciurus stramineus* Eydoux et Souleyet, Voy. Bonite, Zool. **1**, p. 37, 1841.

Fraser's Squirrel.

*Hab.* South America : Ecuador and western Peru.

*Fig.* Eydoux et Souleyet, *l. c. s.* Atlas, Mamm. pl. 9, as "Écureuil paillé."

One received in exchange 6 April, 1878.

Synonym. *Macroxus fraseri* J. E. Gray, Ann. Mag. Nat. Hist. (3) **20**, p. 430, 1867.

425. *Sciurus variegatus* Erxleben, Syst. Regn. Anim. **1**, p. 421, 1777.

Red-bellied Squirrel.

*Hab.* South and Central America.

*Fig.* Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 11.

One, believed to be from Vera Cruz, purchased 9 June, 1871 ; individuals from Trinidad received in 1886 and 1891.

Genus **Funambulus** Lesson, Illustr. Zool. text to pl. 43, 1832.

Species:

Page
1. *palmarum* ..... 169

426. *Funambulus palmarum* (Linnaeus), Syst. Nat. **1**, p. 86, 1766.

*Sciurus palmarum.*

Palm-Squirrel.

*Hab.* India and Ceylon.

*Figs.* Lesson, Illustr. Zool. 1832, pl. 43, as *Funambulus indicus.* L. A. Sargent, in Finn, Wild Beasts of World, 1909, pl. opp. p. 188.

First received in summer of 1828.

Genus **Tamiodes** Pocock, Proc. Zool. Soc. London, 1923, p. 215.

Species:

Page
1. *tristriatus* ..... 169

427. *Tamiodes tristriatus* (G. R. Waterhouse), Mag. Nat. Hist. (n. s.) **1**, p. 499, 1837.

*Sciurus tristriatus.*

Jungle Striped-Squirrel.

*Hab.* India and Ceylon.

*Fig.*

Two females presented 16 March, 1874, by Capt. Forster.

Genus **Ratufa** J. E. Gray, Ann. Mag. Nat. Hist. (3) **20**, p. 273, 1867.

Species:

Page
1. *macroura* ..... 170
2. *indica* ..... 170
3. *bicolor* ..... 170
4. *ephippium* ..... 170
5. *gigantea* ..... 171

428. *Ratufa macroura* (Pennant), Ind. Zool. **1**, pl. 1, 1769.

*Sciurus macrurus.*

Grizzled Hill-Squirrel.

*Hab.* Ceylon and southern India.

*Fig.* J. A. S. B. **16**, 1847, pl. 36, fig. 2.

A pair presented 9 July, 1873, by Mr. H. Nevill were referred to *Sciurus tennenti* Layard (i. e. *S. tennantii*).

One purchased 4 Dec. 1873, was referred to *Sciurus macrurus.*

429. *Ratufa indica* (Erxleben), Syst. Regn. Anim. **1**, p. 420, 1777.

*Sciurus maximus.*

Malabar Giant Squirrel.

*Hab.* India.

*Fig.* Fraser, Zool. Typ. 1849, pl. 26, as *Sciurus elphinstonei.*

First received in, or before, 1830.

Two presented 26 May. 1898, by Mr. R. C. Wroughton, were identified as *Sciurus maximus dealbatus.*

430. *Ratufa bicolor* (Sparrman), Götheb. Wetenskaps Handl. **1**, p. 70, 1778.

*Sciurus bicolor.*

Jelerang Squirrel.

*Hab.* Malay Islands: Sumatra, Java, Bali, etc.

*Fig.* J. E. Gray, Illustr. Ind. Zool. **2**, 1833–1834, pl. 19, as *Sciurus macrourus.*

One deposited 11 Aug. 1863.

431. *Ratufa ephippium* (S. Müller), Tijd. Nat. Gesch. Physiol. **5**, p. 147, 1838–1839.

*Sciurus ephippium.*

Saddled Squirrel.

*Hab.* Malay Islands: Borneo, Natuna, Billiton and Banka.

*Fig.* S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. 1839–1844, pl. 13.

One presented 15 May, 1877, by Lieuts. Hill and Isaacs, R.N.

432. *Ratufa gigantea* (McClelland), Proc. Zool. Soc. London, 1839, p. 150.

*Sciurus giganteus.*

Assam Giant Squirrel.

*Hab.* Eastern India: Sikkim, Assam and Burma.

*Fig.*

One purchased 11 Nov. 1873, was referred to *Sciurus macruroides* Hodgson 1849, which is now considered a local race of *R. gigantea.*

Genus **Protoxerus** Forsyth Major, Proc. Zool. Soc. London, 1893, p. 189.

Species:

Page
1. *stangeri* ..... 171

433. *Protoxerus stangeri* (G. R. Waterhouse), Proc. Zool. Soc. London, 1842, p. 127.

*Xerus stangeri.*

Stanger's Squirrel. Equatorial African Giant Squirrel.

*Hab.* Tropical Africa: from the Gold Coast and Nigeria, east to Kenia Colony and south to Angola.

*Fig.* Fraser, Zool. Typ. 1849, pl. 23, as *Sciurus stangeri.*

One purchased 22 June, 1866.

Genus **Funisciurus** Trouessart, Le Naturaliste, 2, p. 293, 1880.

Species:

Page
1. *pyrropus* ..... 172
2. *lucostigma* ..... 172
3. *cepapi* ..... 172
4. *palliatus* ..... 172

434. *Funisciurus pyrropus* (F. Cuvier), Hist. Nat. Mamm. 3, pl. 240 (Z. S. L. Library), 1833.

*Sciurus pyrrhopus.*

Red-footed Squirrel.

*Hab.* West Africa : Liberia to the Belgian Congo.

*Fig.* F. Cuvier, *l. c. s.*: "Écureuil aux pieds roux." P. Z. S. 1890, pl. 40, *Sciurus pyrrhopus anerythrus.*

One presented 23 Sept. 1896, by Mr. E. Edwards.

435. *Funisciurus leucostigma* (Temminck), Esq. Zool. p. 133, 1853.

White-spotted Squirrel.

*Hab.* West Africa.

*Fig.*

One, from the Gold Coast, presented 18 June, 1910, by Dr. H. G. F. Spurrell. *F. leucostigma* is probably a form of *F. pyrropus*, cf. Jentinck, Notes Leyden Mus. 4, 1882, p. 31.

436. *Funisciurus cepapi* (A. Smith), Rep. explor. Central Africa, App. p. 43, 1836.

Alternative name *Paraxerus cepapi.*

Grey-footed Squirrel.

*Hab.* South and south-east Africa.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1838, pl. 5.

One purchased 22 May, 1920.

437. *Funisciurus palliatus* (Peters), Monatsb. Akad. Wiss. Berlin, p. 273, 1852. *v.* Jentinck, Notes Leyden Mus. 4, p. 16, 1882.

Red-headed Squirrel.

*Hab.* East and south-east Africa.

*Figs.* Peters, Reis. Moss. Säugth. 1852, pl. 31, fig. 1. P. Z. S. 1864, p. 13, pl. 1, as *Sciurus ornatus* J. E. Gray.

One presented 29 Dec. 1927, by Mr. J. Spedan Lewis, F.Z.S.

Genus **Heliosciurus** Trouessart, Le Naturaliste, **2**, p. 292, 1880.

Species :

Page
1. *gambianus* ..... 173

438. *Heliosciurus gambianus* (Ogilby), Proc. Zool. Soc. London, 1835, p. 103.

Gambian Tree-Squirrel.

*Hab.* Africa : from Senegal to Abyssinia, south to Angola and Rhodesia. *v.* Ingoldby, P. Z. S. 1927, pp. 471–487.

*Figs.* P. Z. S. 1927, Ingoldby, pls. 1–4.

One presented 24 May, 1898, by Mr. W. H. Boyle, was referred to *Sciurus annulatus* Desmarest, a not positively identifiable species.

One presented 18 June, 1910, by Dr. H. G. F. Spurrell, was referred to *Sciurus punctatus* Temminck.

Genus **Callosciurus** J. E. Gray, Ann. Mag. Nat. Hist. (3) **20**, p. 277, 1867.

Species :

Page
1. *erythraeus* ..... 173
2. *finlaysonii* ..... 174
3. *atrodorsalis* ..... 174
4. *caniceps* ..... 174
5. *prevostii* ..... 174
6. *notatus* ..... 175
7. *nigrovittatus* ..... 175
8. *vittatus* ..... 175
9. *pygerythrus* ..... 175

439. *Callosciurus erythraeus* (Pallas), Nov. Sp. Quadr. Glires Ord. p. 377, 1778, n. v. ; & ed. 2, p. 377, 1784.

Pallas's Squirrel.

*Hab.* East Asia : from Sikkim and Bhutan east to China, Formosa, Hainan and Tonkin, and south to the Malay Peninsula.

*Fig.*

One purchased 3 April, 1867, was referred to *Sciurus castaneoventris* Gray 1842. One presented 9 Nov. 1872, by Mr. R. Swinhoe, F.Z.S., was called *Sciurus griseopectus* Blyth 1847. One deposited 17 March, 1905, was registered as *Sciurus styani* Thomas 1894. All three appear to be local races of *C. erythraeus*.

440. *Callosciurus finlaysonii* (Horsfield), Zool. Res. Java, pages unnumbered, No. 7, Gen. enum. Indian Sciuri, 1824.

*Sciurus finlaysoni.*

Finlayson's Squirrel.

*Hab.* South-east Asia : Siam.

*Fig.*

One deposited 7 Sept. 1905.

441. *Callosciurus atrodorsalis* (J. E. Gray), Ann. Mag. Nat. Hist. (1) **10**, p. 263, 1842.

*Sciurus atrodorsalis. Sciurus atridorsalis.*

Burmese Dark-backed Squirrel.

*Hab.* Burma and Siam.

*Fig.*

One presented 4 May, 1886, by Mr. C. C. Black.

442. *Callosciurus caniceps* (J. E. Gray), Ann. Mag. Nat. Hist. (1) **10**, p. 263, 1842.

*Sciurus caniceps.*

Hoary-headed Squirrel.

*Hab.* South-eastern Asia : Burma and Siam, north of 13° N. Represented south of 13° N. by *C. epomophorus*, and south of 7° N. by *C. concolor*, and in the west, to Tonkin, by *C. imitator* Thomas, P. Z. S. 1925, p. 502.

*Fig.*

Two purchased 22 June, 1866.

443. *Callosciurus prevostii* (Desmarest), Mamm. p. 335, 1822.

*Sciurus prevosti. Sciurus rafflesii.*

Prevost's Squirrel. Raffles's Squirrel.

*Hab.* South-east Asia : Malay Peninsula, Sumatra, Borneo, Celebes and smaller islands—many well-defined local races.

*Figs.* Vigors & Horsfield, Zool. Journ. London, **4**, 1829, pl. 4, *Sciurus rafflesii.* Schlegel, Nederl. Tijd. Dierk. **1**, 1863, pl. 1, fig. 1, *S. prevostii.*

One purchased 29 May, 1877.

444. *Callosciurus notatus* (Boddaert), Elench. Mamm. p. 119, 1785.

*Sciurus notatus.*

Boddaert's Coconut-Squirrel. Ljungh's Plantain-Squirrel.

*Hab.* Java, Bali, etc.

*Figs.* Horsfield, Zool. Res. Java, 1824, pt. 7, pl. 27, as *Sciurus plantani*. W. P. Dando, in Brehm, Tierl. Säugth. **2**, 1914, opp. p. 533 : photograph.

One purchased 17 Sept. 1862.

Synonym. *Sciurus plantani* Ljungh 1801.

445. *Callosciurus nigrovittatus* (Horsfield), Zool. Res. Java, pages unnumbered, No. 2, Gen. enum. Indian Sciuri, 1824.

*Sciurus nigrovittatus.*

Malay Squirrel.

*Hab.* South-east Asia : Malay Peninsula, Sumatra, Java, Borneo, etc.

*Fig.* Coulon, Mém. Soc. Sci. Nat. Neufchâtel, **1** 1835, pl. 11, as *S. griseiventer*.

Two purchased 11 March, 1868.

446. *Callosciurus vittatus* (Raffles), Trans. Linn. Soc. London, **13**, p. 259, 1822.

*Sciurus vittatus.*

Alternative name *Tomeutes vittatus.*

Banded Squirrel. Penang Squirrel. Coconut Squirrel.

*Hab.* South-east Asia : Malay Peninsula, Sumatra, Java, Borneo, etc., many forms peculiar to many small islands.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1821.

Two deposited 12 Feb. 1863.

447. *Callosciurus pygerythrus* (I. Geoffroy), Mag. Zool. Paris, Cl. 1, 1832.

*Sciurus pygerythrus. Sciurus blanfordi.*

Alternative name *Tomeutes pygerythrus.*

Blanford's Irrawaddy Squirrel.

*Hab.* Burma.

*Fig.* Belanger, Voy. Ind. Or. Zool. 1834, pl. 7.

One presented 8 Feb. 1875, by Mrs. Dunn.

Genus **Xerus** Hemprich & Ehrenberg, Symbol. Phys. Mamm. **1**, page not numbered, 1832.

Species:

Page
1. *rutilus* ..... 176
2. *getulus* ..... 176

448. *Xerus rutilus* (Cretzschmar), in Rüppell, Reis. n. Afrika, Atlas, **1**, p. 59, 1826.

Sudan Ground-Squirrel.

*Hab.* North-east and East Africa: from the Anglo-Egyptian Sudan southwards to Kenia Colony.

*Fig.* Cretzschmar, *l. c. s.* pl. 24.

One presented 4 June, 1885, by Mrs. Blair.

449. *Xerus getulus* (Linnaeus), Syst. Nat. **1**, p. 64, 1758.

Alternative name *Atlantoxerus getulus.*

Barbary Ground-Squirrel.

*Hab.* North-west Africa: Morocco.

*Fig.* Schreber, Säugth. 1780?, pl. 221, as *Sciurus getulus.*

First received on or about 15 June, 1839, when four were presented by Mr. W. Willshire, C.M.Z.S.

Genus **Euxerus** Thomas, Ann. Mag. Nat. Hist. (8) **3**, p. 473, 1909.

Species:

Page
1. *erythropus* ..... 176

450. *Euxerus erythropus* (H. R. Schinz), Syst. Verz. Säugth. **2**, p. 23, 1845. *v.* Sherborn, Index Anim. **2**, p. 2212, 1926.

*Xerus erythropus.* *Funisciurus erythropus.*

Red-footed Ground-Squirrel.

*Hab.* Tropical Africa: from the western forests to British East Africa.

*Fig.* F. Cuvier, Mamm. 1830, pl. 239: "Écureuil fossoyeur."

First received between 29 April, 1840, and 29 April, 1841.

Genus **Geosciurus** A. Smith, Quart. J. S. Afric. Zool. **2**, p. 128, 1834.

Species:

Page
1. *capensis* ..... 177

451. *Geosciurus capensis* (Kerr), Anim. Kingd. p. 266, 1792.

*Xerus setosus.*

Cape Ground-Squirrel. Bristly Ground-Squirrel.

*Hab.* South Africa, north to Namaqualand.

*Fig.* L. Medland, in Brehm, Tierl. Säugth. **2**, 1914, opp. p. 533: photograph.

One presented 30 June, 1835, by Capt. Edie: it died 17 Dec. 1835.

Genus **Tamias** Illiger, Prodr. Syst. Mamm. p. 83, 1811.

Species:

Page
1. *striatus* ..... 177

452. *Tamias striatus* (Linnaeus), Syst. Nat. **1**, p. 64, 1758.

*Tamias lysteri.*

Eastern Chipmunk. Eastern Chipping Squirrel.

*Hab.* North America: typically from Virginia and Carolina, forms are found in other parts of the United States to as far as Minnesota and Oklahoma, and into Canada—*Tamias striatus lysteri* Richardson 1829.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 8.

First received in 1836 or early in 1837.

Two born in the Gardens in 1907.

Genus **Eutamias** Trouessart, Bull. Soc. d'Études Sci. d'Angers, **10**, fasc. 1, p. 86, 1880, *fide* Miller, N. Amer. Mamm. p. 119, 1923.

Species:


| | Page |
|---|---|
| 1. *quadrivittatus* | 178 |
| 2. *asiaticus* | 178 |


453. *Eutamias quadrivittatus* (Say), in Long, Exped. Rocky Mts. **2**, p. 45, 1823.

Four-banded Chipping Squirrel, or Western Chipmunk.

*Hab.* Western North America: from British Columbia to Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 25.

Three deposited 1 Dec. 1913, were recorded as from British Columbia.

Synonym. *Tamias quadrivittatus.*

454. *Eutamias asiaticus* (J. F. Gmelin), Syst. Nat. 1, p. 150, 1788.

*Tamias asiaticus.*

Western Chipping Squirrel, or Chipmunk.

*Hab.* Western North America: from the Mackenzie (Canada) to Mexico.

*Fig.*

Three presented 19 Sept. 1896, by Mr. A. E. Spear, were recorded as from Washington Territory, U.S.A.

Genus **Cynomys** Rafinesque, Amer. Monthly Mag. **2**, p. 45, 1817.

Species:


| | Page |
|---|---|
| 1. *ludovicianus* | 178 |


455. *Cynomys ludovicianus* (Ord), Guthrie's Geography, 2nd Amer. ed. **2**, pp. 292, 302, 1815.

Prairie-Marmot. Prairie-Dog.

*Hab.* North America: widely spread from the Canadian border, through the United States to Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 99, as *Spermophilus ludovicianus*.

A female presented 29 Dec. 1859, by the Proprietors of "The Field" newspaper, appears to have been the first individual alive in the Gardens.

Twenty born in the Gardens 1864–1925.

Genus **Citellus** Oken, Lehrb. Naturgesch. **3**, pt. 2, p. 842, 1816.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *citellus* | 179 | 7. *richardsonii* | 181 |
| 2. *mongolicus* | 179 | 8. *mexicanus* | 181 |
| 3. *erythrogenys* | 180 | 9. *tridecemlineatus* | 181 |
| 4. *eversmanni* | 180 | 10. *grammurus* | 182 |
| 5. *mugosaricus* | 180 | 11. *xanthoprymnus* | 182 |
| 6. *parryii* | 180 | | |


456. *Citellus citellus* (Linnaeus), Syst. Nat. **1**, p. 80, 1766.

*Spermophilus citillus.*

European Souslik.

*Hab.* East-central and east Europe, and on into Asia.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 104. Brehm. Tierl. Säugth. 2, 1914, opp. p. 465 : photograph.

Five purchased 24 Aug. 1865.

457. *Citellus mongolicus* (A. Milne-Edwards), Ann. des Sci. Nat. Zool. (5) **7**, p. 376, 1867.

*Spermophilus mongolicus.*

Mongolian Souslik.

*Hab.* Mongolia and parts of China.

*Fig.* A. Milne-Edwards, Recherches Mamm. 1868–1874, pl. 17.

Two presented 13 Nov. 1873, by Mr. R. Swinhoe, F.Z.S.

458. *Citellus erythrogenys* (Brandt), Bull. Acad. St. Petersb. **9**, p. 43, 1841.

*Spermophilus erythrogenys.*

Red-cheeked Souslik.

*Hab.* Central Asia: Altai, Balkash, etc.

*Fig.* Büchner, in Prejevalsky, Wiss. Result. Centr.-Asien Reis. **1**, Säugth. 1888, pl. 1.

One deposited 12 Oct. 1899.

459. *Citellus eversmanni* (Brandt), Bull. Acad. St. Petersb. **9**, p. 43, 1841.

*Spermophilus eversmanni.*

Eversmann's Souslik.

*Hab.* Central Asia: Altai, etc.

*Fig.* Middendorff, Reise Sibiriens, **2**, Zool. 1853, pl. 3.

Four deposited 12 Oct. 1899, were registered as *Spermophilus altaicus* (Eversmann) 1841.

460. *Citellus mugosaricus* Lichtenstein, in Eversmann, Reis. Orenb. p. 119, 1823.

*Spermophilus mugosaricus.*

Lichtenstein's Souslik.

*Hab.* Central Asia: Altai, Turkestan, etc.

*Fig.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 32, fig. 2.

Four deposited 12 Oct. 1899.

461. *Citellus parryii* (Richardson), Appendix to Parry's 1819–1820 Voyage, p. 316, 1824, 1825.

*Spermophilus empetra.*

Parry's Souslik. Parry's Marmot-Squirrel.

*Hab.* North America: Canada and Alaska.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 9.

One presented 18 Jan. 1902, by Mr. E. Whymper, was referred to this species.

462. *Citellus richardsonii* (Sabine), Trans. Linn. Soc. London, **13**, p. 589, 1822.

Richardson's Souslik. Tawny American Marmot.

*Hab.* North America: Canada, typically from Saskatchewan.

*Figs.* Sabine, *l. c. s.* pl. 28: uncoloured. Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 50.

Two purchased in July, 1859, were called *Spermophilus guttatus*, a name now restricted to an Old World species.

463. *Citellus mexicanus* (Erxleben), Syst. Regn. Anim. **1**, p. 428, 1777.

*Spermophilus mexicanus.*

Mexican Ground-Squirrel. Mexican Souslik.

*Hab.* Mexico, extending into Texas.

*Figs.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 31, fig. 2. Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 109.

Two presented 5 Dec. 1882, by Mrs. Simmonds.

464. *Citellus tridecemlineatus* (Mitchill), Med. Repos. n.s. **6** (21), p. 248, 1821. *v.* Miller, N. Amer. Mamm. p. 193, 1923.

*Spermophilus tridecemlineatus.*

Thirteen-striped Ground-Squirrel, or Souslik. Leopard Ground-Squirrel.

*Hab.* North America: middle-western United States from Montana and Minnesota to New Mexico and Texas.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 1851–1854, pl. 39. J. Mamm. Baltimore, **8**, 1927, pl. 23: photographs of young.

Five, said to be from Michigan, were purchased 23 Oct. 1883.

465. *Citellus grammurus* (Say), in Long, Exped. Rocky Mts. 2, p. 72, 1823.

*Spermophilus grammurus.*

Say's Ground-Squirrel. Line-tailed Souslik.

*Hab.* North America: western United States, Texas and Mexico.

*Fig.*

One presented 15 Nov. 1886, by Mr. B. F. Russell.

Synonym. *Otospermophilus grammurus*, divided into nine subspecies, *v.* Miller, N. Amer. Mamm. pp. 180, 181, 1923.

466. *Citellus xanthoprymnus* E. T. Bennett, Proc. Zool. Soc. London, 1835, p. 90.

*Citillus xanthoprymna.*

Little Marmot.

*Hab.* Asia Minor.

*Fig.*

One, from Erzeroun, presented 10 June, 1835, by Mr. K. E. Abbott, C.M.Z.S., was the type of *xanthoprymna*: it died 11 March, 1837. Its skin is still preserved in the British Museum (Natural History), Dec. 1927.

Genus **Callospermophilus** Merriam, Proc. Biol. Soc. Washington, **11**, p. 189, 1901.

Species:

Page
1. *lateralis*..... 182

467. *Callospermophilus lateralis* (Say), in Long, Exped. Rocky Mts. 2, p. 46, 1823.

*Tamias lateralis.*

Side-striped Ground-Squirrel. Say's Marmot-Squirrel.

*Hab.* North America: Colorado and Nevada, north to British Columbia and Alberta.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 114, as *Spermophilus lateralis.*

One presented 9 March, 1893, by Mr. A. N. Pacey.

Genus **Marmota** Blumenbach, Handb. Naturgesch. **1**, p. 79, 1779.

Species :


| | Page |
|---|---|
| 1. *marmota* | 183 |
| 2. *monax* | 183 |
| 3. *bobak* | 184 |
| 4. *caudata* | 184 |


468. *Marmota marmota* (Linnaeus), Syst. Nat. **1**, p. 60, 1758.

*Arctomys marmotta.*

Alpine Marmot.

*Hab.* Europe : Alps and Carpathians.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1820, livr. 21. Haacke & Kuhnert, Thierl. **1**, 1901, pl. opp. p. 572.

One purchased 22 Feb. 1843, died 19 June, 1849, having lived in the Gardens 6 years, 3 months, 27 days.

469. *Marmota monax* (Linnaeus), Syst. Nat. **1**, p. 60, 1758.

*Arctomys monax. Arctomys empetra.*

Alternative name *Marmotops monax.*

Woodchuck. American Marmot. Groundhog.

*Hab.* North America : Canada, from the Atlantic to the Pacific coasts, Alaska, and the eastern and middle United States. Allied forms in the western United States.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 2, & **3**, 1854, pl. 103, as *Arctomys pruinosus*, from one living in the London Z. G.

Two presented 17 Nov. 1835, appear to have been the first received ; since then examples have lived in the Gardens of both the typical form from the eastern United States, and of *canadensis* Erxleben 1777, from Quebec, New Brunswick, etc.

Two born in the Gardens, 31 March, 1872.

470. *Marmota bobak* (P. L. S. Müller), Natursyst. Suppl. u. Regist.-Band, p. 40, 1776. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p 937, 1912.

Alternative name *Marmotops bobak*.

Bobak Marmot.

*Hab.* Eastern Europe : Poland, Galicia and Bukowina, through Russia, into Asia.

*Fig.* Schreber, Säugth. 1780, pl. 209.

First received 27 May, 1828 : it died 30 Jan. 1829.

471. *Marmota caudata* (Jacquemont), Voy. Ind. Zool. **4**, p. 66, 1844.

*Arctomys caudatus*.

Alternative name *Marmotops caudata*.

Long-tailed Marmot. Red Marmot.

*Hab.* Central Asian Mountains north of India.

*Figs.* Jacquemont, Voy. Ind. Atlas, **2**, 1844, pl. 5. Blanford, Faun. Ind. Mamm. 1891, p. 390, fig. 124 : uncoloured.

Two purchased 4 May, 1871, from Mr. Jamrach, as *Arctomys bobac*.

## Family CASTORIDAE.

Genus :

Page
1. *Castor* ..... 184

### Genus **Castor** Linnaeus, Syst. Nat. **1**, p. 58, 1758.

Species :

Page
1. *fiber* ..... 184
2. *canadensis* ..... 185

472. *Castor fiber* Linnaeus, Syst. Nat. **1**, p. 58, 1758.

European Beaver.

*Hab.* Europe : formerly widely distributed, now only existing in parts of Scandinavia and in a few localities on the Rhone and Elbe, and possibly on the Danube and Pripet.

*Fig.* Haacke & Kuhnert, Thierl. **1**, 1901, pl. opp. p. 368.

Six from the Rhone were purchased 29 June, 1893, from Monsieur V. Cantarel, of Toulouse. Two from Norway were purchased 23 May, 1922.

473. *Castor canadensis* Kuhl, Beiträge Zool. pt. 2, p. 64, 1820.

Canadian Beaver.

*Hab.* North America: widely distributed in Canada, Alaska and the United States, and just crossing the boundary line into Mexico.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 46.

The first received were two presented 7 Aug. 1828, by Earl Dalhousie.

About thirty born in the Gardens 1864–1916.

## Family MUSCARDINIDAE.

Genera :


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|---|---|---|
| 1. | *Eliomys* | 185 |
| 2. | *Dyromys* | 186 |
| 3. | *Glis* | 186 |
| 4. | *Muscardinus* | 187 |
| 5. | *Graphiurus* | 187 |
| 6. | *Claviglis* | 187 |


Genus **Eliomys** Wagner, Abhandl. K. Bayer, Akad. Wissensch. München, Math.-Phys. Cl. III. p. 176, 1843. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 550, 1912.

Species :


| | | Page |
|---|---|---|
| 1. | *quercinus* | 185 |


474. *Eliomys quercinus* (Linnaeus), Syst. Nat. **1**, p. 84, 1766.

*Myoxus quercinus.*

Garden Dormouse.

*Hab.* Continental Europe: from Belgium and France east to Austria and Dalmatia, north to northern Germany, south to Spain and Italy.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1823, livr. 40: "Le Lérot." Haacke & Kuhnert, Thierl. p. 41, **1**, 1901, as *Eliomys nitela*: uncoloured.

Two purchased 24 Sept. 1866.

Genus **Dyromys** Thomas, Ann. Mag. Nat. Hist. (7) **20**, p. 406, 1907.

Species:

1. *nitedula* ..... Page 186

475. *Dyromys nitedula* (Pallas), Nov. Sp. Quadr. Glir. Ord. p. 88, 1778, n. v.; & ed. 2, p. 88, 1784.

*Myoxus dryas.*

Oak Dormouse.

*Hab.* Europe: from Switzerland, north-eastern Italy and northern Hungary to eastern Russia and Asia Minor.

*Fig.* Schreber, Säugth. 1782, pl. 225, B.

One presented 15 May, 1882, by Prof. Wrzesniowsky. An Anatolian specimen presented 5 June, 1920, by Capt. G. N. Rogers.

Genus **Glis** Brisson, Regn. Anim. ed. 2, p. 13, 1762.

Species:

1. *glis* ..... Page 186

476. *Glis glis* (Linnaeus), Syst. Nat. **1**, p. 87, 1766.

*Myoxus glis.*

Fat Dormouse. Seven-Sleeper.

*Hab.* Europe: from France, Spain and Germany eastward to Asia Minor. Introduced into England, where it appears to have established itself in parts of Herts. and Bucks., and is known locally as "Chinchilla."

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1821, livr. 30: "Le Loir." Haacke & Kuhnert, Thierl. p. 40, **1**, 1901: uncoloured.

First received in 1852, or early in 1853.

Genus **Muscardinus** Kaup, Entw.-Gesch. u. Natürl. Syst. Europ. Thierw. **1**, p. 134, 1829.
*v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 583, 1912.

Species :

Page
1. *avellanarius* ..... 187

477. *Muscardinus avellanarius* (Linnaeus), Syst. Nat. **1**, p. 62, 1758.

Dormouse.

*Hab.* Europe: from England eastward, north to Sweden, south to the Pyrenees and Italy.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 38.

First received before 29 April, 1831.

Genus **Graphiurus** F. Cuvier, Hist. Nat. Mamm. **3**, livr. 60, 1829.

Species :

Page
1. *ocularis* ..... 187

478. *Graphiurus ocularis* (A. Smith), Zool. Journ. **4**, p. 439, 1829.

*Graphiurus capensis.*

Cape Dormouse.

*Hab.* South Africa.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1829, pl. 254. A. Smith, Illustr. Zool. S. Afric. Mamm. 1843, pl. 39.

Two purchased 21 March, 1868.

Genus **Claviglis** Jentink, Notes Leyden Mus. **10**, p. 41, 1888.

Species :

Page
1. *crassicaudatus* ..... 188
2. *spurrelli* ..... 188

479. *Claviglis crassicaudatus* Jentink, Notes Leyden Mus. **10**, p. 41, 1888.

*Graphiurus crassicaudatus.*

Thick-tailed Dormouse.

*Hab.* West Africa: Sierra Leone to Southern Nigeria.

*Fig.*

Two presented 8 May, 1910, by Col. L. S. Blackden.

480. *Claviglis spurrelli* (Dollman), Ann. Mag. Nat. Hist. (8) **9**, March 1912, p. 315.

*Graphiurus spurrelli.*

Spurrell's Dormouse.

*Hab.* West Africa: Gold Coast and Sierra Leone.

*Fig.*

One presented 12 Feb. 1912, by Dr. H. G. F Spurrell: it died 20 March, 1912.

## Family MURIDAE.

Genera:


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| 1. *Hydromis* | 189 |
| 2. *Cricetus* | 189 |
| 3. *Cricetulus* | 190 |
| 4. *Oryzomys* | 190 |
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| 35. *Ondatra* | 213 |

Genus **Hydromis** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **6**, p. 89, 1805.

Species :

Page
1. *chrysogaster* ..... 189
2. *leucogaster* ..... 189

481. *Hydromis chrysogaster* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **6**, p. 90, 1805.

*Hydromys chrysogaster.*

Golden-bellied Beaver-Rat.

*Hab.* Australia and Tasmania. "Now a comparatively rare animal, and in South Australia (and in some of the other States) it is becoming increasingly difficult to obtain." *v.* Prof. F. Wood Jones, P.Z.S. 1922, p. 589.

*Fig.* Gould, Mamm. Austral. **3**, 1863, pl. 24.

A male presented 16 Feb. 1869, by the Botanic Gardens, Adelaide.

482. *Hydromis leucogaster* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **6**, p. 90, 1805.

*Hydromys leucogaster.*

White-bellied Beaver-Rat.

*Hab.* Australia : area of natural distribution no longer obtainable.

*Fig.* Gould, Mamm. Austral. **3**, 1863, pl. 26.

One received in exchange 18 May, 1885.

N.B.—This is, probably, not a distinct species but a form of *H. chrysogaster*.

Genus **Cricetus** Leske, Anfangsgrunde der Naturgesch. **1**, p. 168, 1779. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 596, 1912.

Species :

Page
1. *cricetus* ..... 190

483. *Cricetus cricetus* Linnaeus, Syst. Nat. **1**, p. 60, 1758.
*Cricetus frumentarius.*
Hamster.
*Hab.* Europe: from Belgium and northern France eastward to Russia and Asia Minor.
*Figs.* P.Z.S. 1870, pl. 26, as *Cricetus nigricans.* Haacke & Kuhnert, Thierl. **1**, 1901, pl. opp. p. 274.
Three purchased 25 May, 1849, from Mr. Jamrach.

Genus **Cricetulus** A. Milne-Edwards, Ann. Sci. Nat. Zool. (5) **7**, p. 375, 1867.

Species:

Page
1. *griseus* ..... 190
2. *accedula* ..... 190

484. *Cricetulus griseus* A. Milne-Edwards, Ann. Sci. Nat. Zool. (5) **7**, p. 376, 1867.
Grey Sand-Hamster.
*Hab.* North-eastern Asia: north China and Mongolia.
*Fig.* A. Milne-Edwards, Rech. Mamm. 1868–1874, pl. 12, fig. 1.
Two presented 10 Dec. 1915, by Mr. A. L. Hall.

485. *Cricetulus accedula* (Pallas), Nov. Sp. Quadr. Glir. Ord. p. 257, 1778.
*Cricetulus migratorius* (Pallas), Reis. Russ. Reichs. **2**, p. 703, 1794.
Migratory Hamster.
*Hab.* Eastern Russia and western Asia.
*Fig.* Pallas, Glir. 1778, pl. 18, A, as *Mus accedula.*
Four, from northern Persia, presented 1 Dec. 1919, by Dr. P. A. Buxton.
Seven born in the Gardens during 1920.

Genus **Oryzomys** Baird, Mamm. N. Amer. p. 458, 1857.

Species:

Page
1. *longicaudatus* ..... 191

486. *Oryzomys longicaudatus* (E. T. Bennett), Proc. Zool. Soc. London, 1832, p. 2.

Long-tailed Mouse.

*Hab.* South America: from Tierra del Fuego, Chile and Peru to Paraguay and Brazil.

*Fig.* Voy. Beagle, Mamm. 1839, pl. 11, fig. 1.

One presented 8 July, 1913, by Mr. W. Goodfellow, F.Z.S.

Genus **Reithrodon** G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 29.

Species:

Page
1. *typicus* ..... 191

487. *Reithrodon typicus* G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 30.

Pampas Gerbil.

*Hab.* South America: Argentina.

*Fig.* Voy. Beagle, Mamm. 1839, pl. 26, is of the allied species from Patagonia, *Reithrodon cuniculoïdes* G. R. Waterhouse, P.Z.S. 1837, p. 30.

Three presented 16 Oct. 1912, by Mr. W. A. Smithers, C.M.Z.S.

Twenty-one born in the Gardens 1912–1914.

Genus **Phyllotis** G. R. Waterhouse, P.Z.S. 1837, p. 28.

Species:

Page
1. *griseoflavus* ..... 191

488. *Phyllotis griseoflavus* G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 28.

Leaf-eared Mouse. Long-eared Mouse.

*Hab.* South America: typically from the Rio Negro.

*Fig.*

One presented 30 Aug. 1897, by Mr. E. A. Fitzgerald.

Genus **Akodon** Meyen, Nova Acta Ac. Caes. Leop.-Carol, **16**, p. 599, 1833.

Species:

Page
1. *arenicola* ..... 192

489. *Akodon arenicola* (G. R. Waterhouse), Proc. Zool. Soc. London, 1837, p. 18.

Pampas Field-Mouse.

*Hab.* South America: Chile, Argentine, Paraguay and southern Brazil.

*Fig.* Voy. Beagle, Mamm. 1839, pl. 13, as *Mus arenicola.*

Two presented 16 Oct. 1912, by W. A. Smithers, C.M.Z.S.

Genus **Nyctomys** Saussure, Rev. mag. zool. Paris (2) **12**, p. 106, 1860.

Species:

Page
1. *sumichrasti* ..... 192

490. *Nyctomys sumichrasti* Saussure, Rev. mag. zool. Paris (2) **12**, p. 107, 1860.

Sumichrast's Night-Mouse.

*Hab.* Mexico and through Central America to Colombia.

*Fig.* Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 14, fig. 2, as *Hesperomys sumichrasti.*

One deposited 14 Oct. 1912, appears to have been the first individual received.

Genus **Rattus** G. Fischer, Nationalmus. Naturges. Paris, **2**, p. 128, 1803. *v.* Miller, N. Amer. Mamm. p. 428, 1923.

Species:

| | Page | | Page |
|---|---|---|---|
| 1. *rattus* ..... | 193 | 5. *chrysophilus* ..... | 194 |
| 2. *norvegicus* ..... | 193 | 6. *blanfordi* ..... | 194 |
| 3. *namaquensis* ..... | 193 | 7. *vociferans* ..... | 194 |
| 4. *auricomis* ..... | 193 | 8. *exulans* ..... | 194 |

491. *Rattus rattus* (Linnaeus), Syst. Nat. **1**, p. 61, 1758.

*Mus rattus. Mus alexandrinus.*

Black Rat. Roof Rat. Alexandrine Rat.

*Hab.* Apparently originated in the Orient, and has, by unintentional human agency, spread all over the world. Arrived in England between 1095 and 1191.

*Figs.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pls. 42, 43.

The "Black Rat" was on exhibition in the Gardens from before 29 April, 1831; "three varieties" of it were added in 1839–1840. Five "Australian Bush-Rats, *Hapalotis arboricola*," presented 23 Aug. 1897, proved to be imported ship-rats of this species.

Synonym. *Epimys rattus.*

492. *Rattus norvegicus* (Erxleben), Syst. Regn. Anim. **1**, p. 381. 1777.

*Mus decumanus.*

Brown Rat. Sewer Rat.

*Hab.* Apparently originated in the Orient, and has spread, by unintentional human agency, nearly all over the world. Arrived in England about 1728.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 44.

The white domestic race of this rat was on exhibition in the Gardens from before 29 April, 1831.

Synonym. *Epimys norvegicus.*

493. *Rattus namaquensis* (A. Smith), Quart. J. S. Afr. Zool. **2**, p. 160, 1834.

Namaqua Rat.

*Hab.* South Africa: Namaqualand, etc.

*Fig.*

First received, from Bushmanland, 18 Nov. 1911, presented by Capt. H. A. P. Littledale, F.Z.S.

494. *Rattus auricomis* (de Winton), Proc. Zool. Soc. London, 1896, p. 802.

*Mus auricomis.*

Golden Rat.

*Hab.* South Africa: Mashonaland, Rhodesia, Griqualand, etc.

*Fig.*

Two deposited 14 Nov. 1907.

495. *Rattus chrysophilus* (de Winton), Proc. Zool. Soc. London, 1896, p. 801.

*Mus chrysophilus.*

Darling's Rat.

*Hab.* South-east Africa: Mashonaland and Transvaal, south to Zululand, north to Nyasaland.

*Fig.*

One deposited 14 Nov. 1907.

496. *Rattus blanfordi* (Thomas), Ann. Mag. Nat. Hist. (5) **7**, p. 24, 1881.

*Mus blanfordi.*

Blanford's Rat.

*Hab.* India: Madras Presidency.

*Fig.* P.Z.S. 1881, pl. 50.

Three, from the Shevaroy Hills, Madras, presented 30 May, 1891, by Mr. W. L. Sclater, F.Z.S.

497. *Rattus vociferans* (Miller), Proc. Biol. Soc. Washington, **13**, p. 137, 1900.

Noisy Rat.

*Hab.* Malaya: typically from Trang, Lower Siam, extends to other parts of the Malay Peninsula and islands.

*Fig.*

One, from Selangor, presented 23 July, 1921, by Mr. C. B. Kloss, F.Z.S.

498. *Rattus exulans* (Peale), U.S. Expl. Exped. Mamm. **8**, p. 47, 1848. *v.* Thomas, Proc. Zool. Soc. London, 1895, p. 338.

*Mus exulans.*

Pacific Rat.

*Hab.* Fijian and other islands of the Pacific.

*Fig.* White, Trans. New Zeal. Inst. 1891, **23**, pl. 22, as *Mus maorium* Hutton 1879: heads only, uncoloured.

Fourteen, from Sunday Island, Kermadec Group, presented 14 March, 1895, by the Countess of Glasgow.

Genus **Mastomys** Thomas, Ann. Mag. Nat. Hist. (8) **16**, p. 477, 1915.

Species:

Page
1. *coucha* ..... 195

499. *Mastomys coucha* (A. Smith), Rep. explor. Central Africa, App. p. 43, 1836.

*Mus coucha.*

White-nosed Rat. "Shamba Rat" (in East Africa).

*Hab.* South and tropical Africa: from the Transvaal to Kordofan.

*Fig.*

Six deposited 14 Nov. 1907.

Fourteen born in the Gardens 1923–1925.

Genus **Mus** Linnaeus, Syst. Nat. **1**, p. 59, 1758.

Species:

Page
1. *musculus* ..... 195
2. *booduga* ..... 196
3. *musculoïdes* ..... 196

500. *Mus musculus* (Linnaeus), Syst. Nat. **1**, p. 62, 1758.

House-Mouse.

*Hab.* Probably originally a native of Asia, this animal has, by unintentional human agency, made its home in almost every part of the world.

*Figs.* Anderson, Zool. Egypt, Mamm. 1902, pl. 45, *M. m. orientalis.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 41.

White mice were on exhibition in the Gardens from before June, 1833.

On 13 Aug. 1839, Mr. H. Oliver presented fifty-three mice, representing five varieties—white, black, black and white, fawn, fawn and white.

The wild eastern form, *Mus musculus orientalis* Cretzschmar 1828, appears to have been first exhibited 27 Sept. 1894.

501. *Mus booduga* (J. E. Gray), Mag. Nat. Hist. 1, p. 586, 1837.

*Mus booduga* and *M. cervicolor* Blanford, Faun. Ind. Mamm. 1891, pp. 416, 417.

*Mus cervicolor* List, ed. 9, 1896, p. 121.

Alternative name *Leggada booduga*.

Indian Field-Mouse. Fawn-coloured Field-Mouse.

*Hab.* India, widely distributed, with local races, from Ceylon to Assam.

*Fig.*

The first mention of a Mouse, possibly of this species, in the Gardens is in 1831.

On 31 May, 1876, four were presented by Lieut.-Col. C. S. Sturt, C.M.Z.S., who caught them near Rajcote—"the species is common in Kattiawar."

502. *Mus musculoïdes* Temminck, Esq. Zool. p. 161, 1853.

Alternative name *Leggada musculoïdes*.

Pygmy Mouse.

*Hab.* West Africa: from Senegambia to the Upper Belgian Congo.

*Fig.*

Six, from the Gambia, presented 14 July, 1924, by Capt. Sir Cecil H. Armitage, C.M.G., D.S.O., F.Z.S.

Eight born in the Gardens 1924–1925: all were reared.

Genus **Micromys** Dehne, 1841. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 840, 1912.

Species:

Page
1. *minutus* ..... 197

503. *Micromys minutus* (Pallas), Reise d. versch. Prov. Russ. Reichs. **1**, p. 454, 1771. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 841, 1912.

*Mus minutus.*

Harvest Mouse.

*Hab.* Europe and Asia: typically from the banks of the Volga, this species extends west to England, Scotland and Denmark, and east to Tonkin.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 39.

In Gardens from before 29 April, 1831. The western European form, which occurs in Great Britain, is known technically as *Micromys minutus soricinus* (Hermann) 1780.

Genus **Arvicanthis** Lesson, Nouv. Tabl. Règn. Anim. p. 147, 1842.

Species:


| | Page |
|---|---|
| 1. *barbarus* | 197 |
| 2. *niloticus* | 197 |
| 3. *dorsalis* | 198 |
| 4. *pumilio* | 198 |


504. *Arvicanthis barbarus* (Linnaeus), Syst. Nat. **1**, pars **2**, in addenda, not paged, 1766.

*Mus barbarus.*

Barbary Kusu. Barbary Striped-Mouse. Palmetto Mouse.

*Hab.* North-west Africa: Morocco, Algeria, Tunisia.

*Figs.* Duvernoy & Lereboullet, Mém. Soc. Mus. Hist. Nat. Strasbourg, **3**, Anim. Vert. Algérie, Mamm. 1842, pl. 1. figs. 1, 2 & 3.

First received in the spring of 1828, when three were presented by Lord Colchester.

Ten born in the Gardens in 1852, three born 4 June, 1855, three born 3 Oct. 1860, and eleven in 1893.

505. *Arvicanthis niloticus* (Desmarest), Ency. Méthod. Mamm. Suppl. p. 281, 1822. *v.* Anderson & de Winton, Zool. Egypt, Mamm. p. 279, 1902.

*Isomys variegatus.*

Nile Kusu. Nile Rat.

*Hab.* Egypt.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 46.

Three presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

Two born in the Gardens 7 June, 1894, and four 8 Feb. 1897.

506. *Arvicanthis dorsalis* (A. Smith), Illustr. Zool. S. Afr. Mamm. pl. 46, fig. 2, 1845.

One-striped Kusu Mouse.

*Hab.* South Africa : north to Benguela on the west, and Nyasaland on the east.

*Fig.* A. Smith, *l. c. s.* 1845, pl. 46, fig. 2.

One, from the Orange River Colony, received 2 June, 1911.

507. *Arvicanthis pumilio* (Sparrman), K. Vet. C. Nya Handl. Stockholm, **5**, p. 236, 1784. *v.* Sherborn, Index Anim. **1**, p. 788, 1902.

South African Kusu, or Striped Mouse.

*Hab.* South Africa and East Africa: north to Benguela on the west, and Kilimanjaro on the east.

*Figs.* A. Smith, Illust. Zool. S. Afr. Mamm. 1845, pl. 46, fig. 1. W. L. Sclater, Faun. S. Afr. Mamm. **2**, 1901, p. 62, fig. 98 : uncoloured.

One, from Bushmanland, presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

Genus **Eosaccomys** Palmer, Science (n. s.) **17**, p. 873, 1903.

Species:

Page
1. *campestris* ..... 198

508. *Eosaccomys campestris* (Peters), Bericht Verh. Akad. Wiss. Berlin, 1846, p. 258, 1847.

*Saccostomus campestris.*

Cape Pouched-Rat.

*Hab.* South and south-east Africa.

*Figs.* P. Z. S. 1882, pl. 14, fig. 2, as *Saccostomus lapidarius*. W. L. Sclater, Faun. S. Afr. Mamm. **2**, 1901, p. 55, fig. 96: uncoloured.

One presented 21 July, 1899, by Mr. J. E. Matcham, C.M.Z.S.

Genus **Dasymys** Peters, Monats. Ber. Akad. Wiss. Berlin, 1875, p. 12.

Species:

Page
1. *incomtus* ..... 199

509. *Dasymys incomtus* (Sundevall), Öefv. K. Vetenskaps-Akad. Förhandl. 1846, **3**, p. 120, 1847.

Peters's Water-Rat.

*Hab.* South-east Africa: Natal to Nyasaland.

*Fig.*

Three deposited 14 Nov. 1907.

One born in the Gardens in 1908.

Genus **Steatomys** Peters, Bericht Verh. Akad. Wiss. Berlin, 1846, p. 258, 1847.

Species:

Page
1. *pratensis* ..... 199

510. *Steatomys pratensis* Peters, Bericht Verh. Akad. Wiss. Berlin, 1846, p. 258, 1847.

Fat Mouse.

*Hab.* South-east Africa: Portuguese East Africa, Mashonaland and Nyasaland.

*Fig.* Peters, Reis. Mossamb. Säugth. 1852, pl. 34, fig. 2, as *Steatomys edulis*.

Five deposited 14 Nov. 1907.

Genus **Acomys** I. Geoffroy, Ann. Sci. Nat. Zool. (2) **10**, p. 126, 1838.

Species:

Page
1. *cahirinus* ..... 199
2. *hunteri* ..... 200
3. *nesiotes* ..... 200

511. *Acomys cahirinus* (Desmarest), Nouv. Dict. Hist. Nat. (2) **29**, p. 70, 1819.

Cairo Spiny-Mouse.

*Hab.* Egypt.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 47.

Four presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

Seventy-seven born in the Gardens 1894–1926.

512. *Acomys hunteri* de Winton, Novit. Zool. Tring, **8**, p. 401, 1901.

Hunter's Spiny-Mouse.

*Hab.* North-east Africa: Red Sea Province of the Sudan.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 49.

Three presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

Eleven born in the Gardens 1894–1895.

513. *Acomys nesiotes* D. M. A. Bate, Ann. Mag. Nat. Hist. (7) **11**, p. 565, 1903.

Cyprian Spiny-Mouse.

*Hab.* Cyprus.

*Fig.*

Four presented 27 Aug. 1903, by Mr. R. L. N. Mitchell.

Genus **Apodemus** Kaup, Entw.-Gesch. u. Natürl. Syst. Europ. Thierw. **1**, p. 150, 1829.
*v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 791, 1912.

Species:

Page
1. *sylvaticus* ..... 200

514. *Apodemus sylvaticus* (Linnaeus), Syst. Nat. **1**, p. 62, 1758.

*Mus sylvaticus.*

Long-tailed Field-Mouse. Wood-Mouse.

*Hab.* Europe: from Great Britain and Ireland eastward, and from Scandinavia to the Mediterranean.

*Figs.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 40, including *intermedius* and *wintoni*.

First received before 29 April, 1831.

A de Winton's Mouse, from Horsham, was presented 21 May, 1915, by Sir E. G. Loder, Bart., V.P.Z.S.; this may be called *Mus sylvaticus wintoni* Barrett-Hamilton 1900, or *Apodemus flavicollis wintoni* (*v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 831, 1912.)

Genus **Nesokia** J. E. Gray, Ann. & Mag. Nat. Hist. **10**, p. 264, 1842.

Species:

Page
1. *bandicota* ..... 201
2. *suilla* ..... 201

515. *Nesokia bandicota* (Bechstein), Allgem. Uebers. d. vierfüs, Thiere, **2**, p. 714, 1800.

*Mus bandicota. Mus giganteus.*

Alternative name *Bandicota bandicota*.

Bandicoot-Rat.

*Hab.* India.

*Fig.* Hardwicke, Trans. Linn. Soc. **7**, pl. 18, 1804, as *Mus giganteus*: good life-size picture, uncoloured.

Three "Bombay Rats," presented 26 July, 1831, by Capt. Barclay, may have been of this species. Five presented 5 July, 1832, by Lord Clare, were definitely referred to it. Two "white varieties" were presented 18 June, 1885, by Col. C. S. Sturt, C.M.Z.S.

One born in the Gardens 5 Aug. 1886.

Seven (of this species?) born 17 Oct. 1831.

516. *Nesokia suilla* Thomas, Ann. Mag. Nat. Hist. (7) **20**, p. 203, 1907.

*Nesokia hardwickii* List, ed. 9, 1896, p. 122.

Egyptian Bandicoot-Rat.

*Hab.* Egypt: in a few localities only.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 50, as *Nesokia bacheri*.

One presented 19 Sept. 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

Genus **Notomys** Lesson, Nouv. Tabl. Règn. Anim. p. 129, 1842.

Species:


| | Page |
|---|---|
| 1. *mitchelli* | 202 |
| 2. *cervinus* | 202 |


517. *Notomys mitchelli* (Ogilby), Trans. Linn. Soc. London, **18**, p. 130, 1838, 1841.

*Hapalotis mitchelli.*

Mitchell's Kangaroo-Mouse, or Jerboa-Rat.

*Hab.* Australia: south-central and South Australia.

*Fig.* Gould, Mamm. Austral. **3**, 1863, pl. 9.

Three purchased 24 Sept 1862.

Ten born in the Gardens—two in 1863, eight in 1924.

518. *Notomys cervinus* (Gould), Proc. Zool. Soc. London, 1851, p. 127.

Fawn Kangaroo-Mouse, or Jerboa-Rat.

*Hab.* Australia: central and South Australia.

*Figs.* Gould, Mamm. Austr. **3**, 1863, pl. 10. Wild Animals of Australasia, 1926, fig. 21: photograph.

Fourteen deposited 20 April, 1906.

Genus **Cricetomys** G. R. Waterhouse, Proc. Zool. Soc. London, 1840, p. 2.

Species:


| | Page |
|---|---|
| 1. *gambianus* | 202 |


519. *Cricetomys gambianus* G. R. Waterhouse, Proc. Zool. Soc. London, 1840, p. 2.

Giant Rat. Gambian Pouched-Rat.

*Hab.* Tropical Africa: from Gambia south to Angola, and east to the Upper Nile and to Portuguese East Africa. Many races of this animal have been described as distinct species or subspecies.

*Fig.* Brehms Tierleben, Säugth. **2**, 1914, opp. p. 373: photograph.

One purchased 5 Aug. 1857.

Genus **Melomys** Thomas, Ann. Mag. Nat. Hist. (9) **9**, p. 261, 1922.

Species:

Page
1. *bruijnii* ..... 203

520. *Melomys bruijnii* (Peters & Doria), Ann. Mus. Civ. Stor. Nat. Genova, **8**, 1876, p. 336.

*Uromys bruijnii.*

Naked-tailed Mouse.

*Hab.* New Guinea: southern Dutch territory.

*Fig.* Ann. Mus. Civ. Stor. Nat. Genova, **16**, 1881, pl. 17.

Two presented 31 May, 1913, by Mr. C. B. Kloss, F.Z.S., and Mr. A. F. R. Wollaston, F.Z.S.

Genus **Otomys** F. Cuvier, Dents des Mamm. p. 168, 1825.

Species:

Page
1. *irroratus* ..... 203
2. *brantsii* ..... 203
3. *unisulcatus* ..... 204

521. *Otomys irroratus* (Brants), Het Geslacht der Muizen, p. 94, 1827. *v.* de Winton, Ann. Mag. Nat. Hist. (7) **2**, 1898, p. 5.

Vley Mouse.

*Hab.* Africa: from South Africa to Somaliland.

*Figs.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 30. A. Smith, Illustr. Zool. S. Afr. Mamm. 1840, pl. 22, as *Euryotis irrorata.*

Six deposited 14 Nov. 1907.

522. *Otomys brantsii* (A. Smith), Quart. J. S. Afr. Zool. **2**, p. 150, 1834.

Alternative name *Parotomys brantsii.*

Brants's Mouse.

*Hab.* South Africa.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1840, pl. 24, as *Euryotis brantsii.*

Two from Bushmanland, presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

523. *Otomys unisulcatus* F. Cuvier, Hist. Nat. Mamm. livr. 60, fig. 264, 1829.

Alternative name *Myotomys unisulcatus.*

Bush Mouse.

*Hab.* South Africa.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1840, pl. 23, as *Euryotis unisulcatus.*

Two, from Bushmanland, presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

Genus **Gerbillus** Desmarest, Nouv. Dict. Hist. Nat. **24**, Tab. Méth. p. 22, 1804.

Species:


| | Page |
|---|---|
| 1. *gerbillus* | 204 |
| 2. *pyramidum* | 204 |
| 3. *tarabuli* | 205 |
| 4. *pygargus* | 205 |
| 5. *paeba* | 205 |


524. *Gerbillus gerbillus* (Olivier), Bull. Soc. philom. Paris, **2**, p. 121, 1801.

*Gerbillus aegyptius.*

Lesser Egyptian Gerbil.

*Hab.* North Africa: Egypt and westward to Algeria and northern Nigeria.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 40.

A Gerbil from Egypt, presented 25 May, 1850, by the Hon. Charles A. Murray, and called *Gerbillus tenuis*, may have been of this species. Six, from Egypt, were presented 11 May, 1892, by Dr. J. Anderson, F.R.S., F.Z.S.

Five born in the Gardens in 1907.

525. *Gerbillus pyramidum* I. Geoffroy, Dict. Class. Hist. Nat. **7**, p. 321, 1825.

Greater Egyptian Gerbil.

*Hab.* North Africa: from northern Nigeria and Algeria to Egypt, with a local race in Sinai.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 41.

Two presented 11 May, 1892, by Dr. J. Anderson, F.R.S., F.Z.S.

526. *Gerbillus tarabuli* Thomas, Proc. Zool. Soc. London, 1902, p. 5.

Oldfield Thomas's Gerbil. Sebha Gerbil.

*Hab.* North-east Africa: Tripoli and Egypt.

*Fig.*

Two deposited 13 July, 1903.

Seven born in the Gardens in 1904.

527. *Gerbillus pygargus* F. Cuvier, Trans. Zool. Soc. London, 2, p. 142, 1838.

White-rumped Gerbil.

*Hab.* North-east Africa: Nubia.

*Fig.*

One presented 2 Oct. 1880, by Count Rembielinski.

N.B.—*Gerbillus campestris*, from Suakin, List, ed. 9, 1896, p. 117, is probably of this species.

528. *Gerbillus paeba* A. Smith, Rep. explor. Central Africa, App. p. 43, 1836.

Red Gerbil.

*Hab.* South Africa: Transvaal and Namaqualand.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1842, pl. 36, fig. 2, as *Gerbillus tenuis*.

One received in exchange 20 Nov. 1923.

## Genus **Dipodillus** Lataste, Le Naturaliste, 1881, p. 506.

Species:


| | Page |
|---|---|
| 1. *quadrimaculatus* | 206 |
| 2. *simoni* | 206 |
| 3. *garamantis* | 206 |

529. *Dipodillus quadrimaculatus* Lataste, Le Naturaliste, 4, p. 27, 1882.

*Dipodillus campestris* List, ed. 9, 1896, p. 125.

Pygmy Gerbil.

*Hab.* North Africa : Egypt.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 42.

Two presented 26 April, 1894, by Dr. J. Anderson, F.R.S., F.Z.S.

530. *Dipodillus simoni* (Lataste), Le Naturaliste, 1881, p. 449.

Simon's Pygmy Gerbil.

*Hab.* North Africa : Algeria.

*Fig.*

One received in exchange 29 June, 1883.

531. *Dipodillus garamantis* (Lataste), Le Naturaliste, 1881, p. 507.

*Gerbillus garamantis.*

Garamantic Gerbil.

*Hab.* North Africa : Algeria and south to the borders of Nigeria.

*Fig.*

One presented 5 June, 1900, by the Rev. A. S. Eaton.

Genus **Meriones** Illiger, Prodr. Syst. Mamm. p. 82, 1811.

Species :


| | | Page |
|---|---|---|
| 1. | *crassus* | 206 |
| 2. | *libycus* | 207 |
| 3. | *shawii* | 207 |
| 4. | *longifrons* | 208 |


532. *Meriones crassus* Sundevall, K. Vet.-Ak. Handl. p. 233 (1842), 1843. *v.* Sherborn, Index Anim. 2, pt. 7, p. 1605, 1925.

Sundevall's Jird.

*Hab.* Sinai and north-east Africa: represented in Nubia by *pallidus* Bonhote, P. Z. S. 1912, p. 226, and in Tripoli by *tripolius* Thomas, A. M. N. H. (9) **3**, p. 265, 1919.

*Fig.*

Three Jirds, from Tripoli, presented 17 Oct. 1901, by Mr. J. I. S. Whitaker, F.Z.S., were called *M. schousboei.*

Eleven were born in the Gardens 1901–1902.

Several Jirds, from Egypt, presented 8 Sept. 1913, by Mr. J. L. Bonhote, F.Z.S., were referred to *M. selysii.*

533. *Meriones libycus* Lichtenstein, Verzeich. Doubl. Zool. Mus. Berlin, 1823, p. 5.

*Gerbillus melanurus. Gerbillus shawi* (in part).

Lichtenstein's Jird.

*Hab.* North Africa: Egypt, represented in Tripoli by *caudatus* Thomas, A. M. N. H. (9) **3**, p. 267, 1919, and in Algeria, south of the Atlas, by *schousboei.*

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 43, as *M. shawi melanurus.*

A Jird, from Egypt, was presented 25 May, 1850, by the Hon. Charles A. Murray.

At least 224 born in the Gardens 1892–1927 have been called *M. shawi.*

534. *Meriones shawii* (Duvernoy), 1834. *v.* Duvernoy & Lereboullet, Anim. Vertébr. Algerie, Mamm. Mém. Soc. Mus. Hist. Nat. Strasbourg, **3**, p. 23, 1842.

*Gerbillus shawi. Gerbillus selysii.*

Shaw's Jird.

*Hab.* North Africa: typically from Algeria, north of the Atlas, it is represented in southern Algeria and Tripoli by *guyoni*, etc., and in Egypt by *isis* Thomas, A. M. N. H. (9) **3**, p. 271, 1919.

*Figs.* Duvernoy & Lereboullet, *l. c. s.* pl. 1, fig. 4. P. Z. S. 1884, pl. 7.

Four Jirds, from Tunis, presented 25 Sept. 1892, by Monsieur A. de Lautreppe, may have been of this species.

535. *Meriones longifrons* Lataste, Proc. Zool. Soc. London, 1884, p. 88.

*Gerbillus longifrons* List, ed. 9, 1896, p. 118.
*Gerbillus erythyrurus* List, ed. 8, 1883, p. 109.

Long-fronted Jird.

*Hab.* Arabia.

*Fig.* P. Z. S. 1884, pl. 6.

Twenty-four presented 25 Oct. 1882, by Lieut. Paget, R.N.: some of these, or their decendants, were the types of the species.

Ninety-four born in the Gardens 1883–1889.

Genus **Tatera** Lataste, Le Naturaliste, 1882, p. 126.

Species:


| | Page |
|---|---|
| 1. *indica* | 208 |
| 2. *robusta* | 208 |
| 3. *afra* | 209 |
| 4. *brantsii* | 209 |
| 5. *lobengulae* | 209 |
| 6. *gambiana* | 210 |


536. *Tatera indica* (Hardwicke) Trans. Linn. Soc. London, 8, p. 279, 1807.

*Gerbillus indicus.*

Indian Gerbil.

*Hab.* India, Baluchistan and Ceylon, in suitable localities.

*Figs.* Hardwicke, *l. c. s.* pl. 7: on large scale, uncoloured. Blanford, Faun. Ind. Mamm. 1891, p. 397, fig. 128: uncoloured.

Eight purchased 31 March, 1879.

537. *Tatera robusta* (Cretzschmar), in Rüppell, Reis. N. Afr. Atlas, 1, p. 75, 1826.

*Gerbillus robustus.*

Robust Gerbil.

*Hab.* North Africa: Egypt and the Sudan.

*Fig.* Cretzchmar, *l. c. s.* pl. 29, fig. *b* : not a good picture.

Two presented 20 June, 1881, by M. Alphonse Milne-Edwards, F.M.Z.S.

538. *Tatera afra* (J. E. Gray), Spicil. Zool. **1**, p. 10, 1828.

*Gerbillus afra. Gerbillus afer.*

Alternative name *Taterona afra.*

Cape Gerbil.

*Hab.* South Africa : from the Cape Province north to Mashonaland, and Nyasaland.

*Fig.* A Smith, Illustr. S. Afr. Zool. Mamm. 1842, pl. 35.

Three deposited 14 Nov. 1907.

539. *Tatera brantsii* (A. Smith), Rep. explor. Central Africa, App. p. 43, 1836.

*Gerbillus brantsii.*

Brants's Gerbil.

*Hab.* South-eastern Africa : Transvaal and Portuguese East Africa.

*Fig.* A Smith, Illustr. Zool. S. Afr. Mamm. 1845, pl. 46, fig. 1, as *Gerbillus montanus.*

Five received 14 June, 1927, collected by Mr. H. B. Cott, F.Z.S.

Eight born in the Gardens 1927.

540. *Tatera lobengulae* (de Winton), Ann. Mag. Nat. Hist. (7) **2**, p. 4, 1898.

*Gerbillus lobengulae.*

Lobengula's Gerbil.

*Hab.* South Africa : Mashonaland, Matabeleland.

*Fig.*

One purchased 2 June, 1909.

541. *Tatera gambiana* Thomas, Ann. Mag. Nat. Hist. (8) **6**, p. 428, 1910.

Alternative name *Taterona gambiana*.

Gambian Gerbil.

*Hab.* West Africa: Gambia.

*Fig.*

One presented 23 May, 1926, by Sir Cecil H. Armitage, K.B.E., C.M.G., D.S.O., F.Z.S.

Genus **Pachyuromys** Lataste, Le Naturaliste, 1880, p. 313.

Species:

Page
1. *duprasi* ..... 210

542. *Pachyuromys duprasi* Lataste, Le Naturaliste, 1880, p. 314.

Fat-tailed Gerbil.

*Hab.* North Africa: Algerian Sahara and Wadi Natron, western Lower Egypt.

*Fig.* Novit. Zool. Tring, **10**, 1903, pl. 8, fig. 3.

Three, from the Wadi Natron, Lower Egypt, presented 6 July, 1903, by the Director, School of Medicine, Cairo, represent *Pachyuromys duprasi natronensis* de Winton, Novit. Zool. Tring, **10**, p. 285, 1903.

Seventy-eight born in the Gardens 1903–1925.

Genus **Psammomys** Cretzschmar, in Rüppell, Reis. N. Afr. Atlas, **1**, p. 56, 1828.

Species:

Page
1. *obesus* ..... 210

543. *Psammomys obesus* Cretzschmar, in Rüppell, Reis. N. Afr. Atlas, **1**, p. 58, 1828.

Fat Sand-Rat.

*Hab.* North-east Africa: Egypt and Nubia.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 44.

Two presented 11 May, 1892, by Dr. J. Anderson, F.R.S., F.Z.S.

Genus **Desmodillus** Thomas & Schwann, Proc. Zool. Soc. London, 1904, **1**, p. 177.

Species :

Page
1. *auricularis* ..... 211

544. *Desmodillus auricularis* (A. Smith), Quart. J S. Afr. Zool. **2**, p. 160, 1834.

Eared Gerbil. Namaqualand Gerbil.

*Hab.* South Africa : northern Cape Province to Damaraland.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1840, pl. 26.

One presented 18 Nov. 1911, by Capt. H. A. P. Littledale, F.Z.S.

Synonym. *Pachyuromys auricularis.*

Genus **Lemmus** Link, Beyträge zur Naturgesch. **1**, pt. 2, p. 75, 1795. *v.* Hinton, Brit. Mus. Monogr. Voles, **1**, p. 186, 1926.

Species :

Page
1. *lemmus* ..... 211

545. *Lemmus lemmus* (Linnaeus), Syst. Nat. **1**, p. 59, 1758.

*Myodes lemmus.*

Norwegian Lemming.

*Hab.* Norway, Sweden and Finland.

*Fig.* Schreber, Säugth. 1780? pl. 195, as *Mus lemmus.*

Two presented by the Rev. W. Bilton between 29 April, 1839 and 29 April, 1840.

Genus **Clethrionomys** Tilesius, Isis (n. s.) **2**, p. 28, 1850. *v.* Palmer, Proc. Biol. Soc. Washington, **41**, p. 87, 1928.

Species:

Page
1. *glareolus* ..... 212

546. *Clethrionomys glareolus* (Schreber), Säugth. **4**, p. 680, 1780.

*Arvicola pratensis. Evotomys glareolus.*

Bank-Vole. Long-tailed Vole.

*Hab.* Europe, from the Pyrenees and Italy to Scotland and Scandinavia, west to England and Wales, east into Siberia. Divided into about nine geographical races. The race occurring in Great Britain is known as *Clethrionomys glareolus britannicus* (G. S. Miller), 1900.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 45.

One was presented 7 Sept. 1885, by Mr. E. Rosling.

Genus **Arvicola** Lacépède, Tabl. Mamm. p. 10, 1799. *v.* Hinton, Brit. Mus. Monogr. Voles, **1**, p. 385, 1926.

Species :

Page
1. *amphibius* ..... 212

547. *Arvicola amphibius* (Linnaeus), Syst. Nat. **1**, p. 61, 1758.

Water-Vole.

*Hab.* Great Britain ; represented by allied species on the continent of Europe and in Asia.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 48.

Four presented 20 Dec. 1869, by Mr. T. C. White.

Four (black variety), from Scotland, presented 5 Sept. 1885, by Mr. W. Arkwright, F.Z.S., may have been of the form now known as *Arvicola amphibius reta* G. S. Miller 1910.

Genus **Microtus** Schrank, Fauna Boica, **1**, p. 72, 1798. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 659, 1912.

Species :

Page
1. *agrestis* ..... 213
2. *sandayensis* ..... 213

548. *Microtus agrestis* (Linnaeus), Fauna Suecica, ed. 2, p. 11, 1761.

*Arvicola agrestis.*

Short-tailed Vole. Grass Vole. Field-Vole.

*Hab.* Europe: from England, Scotland and the Scotch islands eastward, north to Scandinavia, south to Portugal and Spain.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **2**, 1905, pl. 46; & pl. 47 (*M. orcadensis*).

Six presented 4 Nov. 1892, by Mr. J. E. Harting, F.Z.S.

*Microtus agrestis hirtus* (Bellamy) 1839, is a name used for the Short-tailed Voles of England and southern Scotland.

Ten born in the Gardens 1926–1927.

549. *Microtus sandayensis* Millais (see next line).

*Microtus orcadensis sandayensis* Millais, Mamm. Gt. Britain, **2**, p. 280, 1905.

Sanday Island Vole.

*Hab.* Sanday Island, North Orkney Islands, Scotland.

A female presented 11 July, 1914, by Mr. W. R. Ogilvie-Grant, F.Z.S.

This island representative of the Short-tailed Vole, *Microtus agrestis*, is considered a distinct species by Mr. G. S. Miller, *v.* Brit. Mus. Cat. Mamm. W. Europe, p. 696, 1912, with two subspecies pp. 697, 698.

Genus **Ondatra** Lacépède, Tabl. Mamm. p. 9, 1799. Link, Beyträge zur. Naturgesch. **1**, pt. 2, p. 52, 1795. *nom. nud.*, *v.* Sherborn, Index Anim. **1**, p. 694, 1902.

Species:

1. *zibethica* ..... Page 213

550. *Ondatra zibethica* (Linnaeus), Syst. Nat. **1**, p. 79, 1766.

*Fiber zibethicus.*

Musquash. American Musk-Rat.

*Hab.* North America: Canada, Alaska and the United States.

*Fig.* Audubon & Bachman, Quadr. N. Amer. 1852, **1**, pl. 13.

One purchased 1 Aug. 1839, for £2 from Mr. W. Ogilby, was the first received.

On 27 March, 1845, £2 10*s.* 0*d.* was paid to Mr. Jamrach for a single specimen.

## Family SPALACIDAE.

Genus:

Page
1. *Rhizomys* ..... 214

### Genus **Rhizomys** J. E. Gray, Proc. Zool. Soc. London, 1831, p. 95.

Species:

Page
1. *sumatrensis* ..... 214
2. *badius* ..... 214

551. *Rhizomys sumatrensis* (Raffles), Trans. Linn. Soc. London, **13**, p. 258, 1820–1822.

Large Bamboo-Rat.

*Hab.* South-east Asia.

*Fig.* Anderson, An. Zool. Res. Yunnan Exp. 1878, pl. 13 A, as *R. erythrogenys*.

One presented 23 Aug. 1894, by Mr. A. M. Kinloch.

552. *Rhizomys badius* Hodgson, Calcutta J. Nat. Hist. **2**, p. 60, 1842.

Alternative name *Cannomys badius*.

Bay Bamboo-Rat.

*Hab.* South-east Asia: eastern India, Burma and Siam.

*Fig.* Anderson, An. Zool. Res. Yunnan Exp. 1878, pl. 14.

One presented 16 Feb. 1876, by Mr. J. Wood-Mason.

## Family GEOMYIDAE.

Genus :

Page
1. *Thomomys* ..... 215

Genus **Thomomys** Wied, Nova Acta Ac. Caes. Leop.-Carol, **19**, pt. 1, p. 377, 1839.

Species :

Page
1. *bottae* ..... 215

553. *Thomomys bottae* (Eydoux & Gervais), Mag. Zool. Paris, **6**, p. 23, 1836.

*Thomomys bulbivorus.*

Botta's Pocket Gopher. Camas Rat.

*Hab.* California, extending into Lower California.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 142, as *Pseudostoma borealis*, represents this or an allied form.

Two from Berkeley, California, presented 14 Aug. 1922, by the Rotterdam Z. G.

## Family BATHYERGIDAE.

Genera :

Page
1. *Georychus* ..... 215
2. *Myoscalops* ..... 216

Genus **Georychus** Illiger, Prodr. Syst. Mamm. p. 87, 1811.

Species :

Page
1. *capensis* ..... 215
2. *hottentottus* ..... 216
3. *zechi* ..... 216

554. *Georychus capensis* (Pallas), Nov. Sp. Quadr. Glir Ord. p. 76, 1778.

Cape Silky Ground-Rat, or Mole-Rat.

*Hab.* South Africa: Cape Province, with allied forms ranging northwards on the west to Namaqualand, and on the east to the Transvaal.

*Fig.*

One, an albino, presented 1 May, 1889, by the Rev. G. H. R. Fisk, C.M.Z.S.

555. *Georychus hottentottus* (Lesson & Garnot), Voy. Coquille, **1**, p. 166, 1826.

Hottentot Ground-Rat. Mole-Rat.

*Hab.* South Africa: Cape, Natal, Kalahari, Mashonaland, etc.

*Fig.* Lesson & Garnot, *l. c. s.* pl. 2, fig. 2, as *Bathyergus hottentottus*.

Two presented 9 Dec. 1908, by Mr. J. ffolliott Darling, F.Z.S.

556. *Georychus zechi* Matschie, Sitz.-Ber. Ges. naturf. Fr. Berlin, No. 4, p. 146, 1900.

Zech's Ground-Rat.

*Hab.* West Africa: Togoland to Ashanti.

*Fig.* W. S. Berridge, Brehm Tierl. Säugth. **2**, 1914, opp. p. 248: photograph.

One presented 1 April, 1910, by Capt. C. H. Armitage, D.S.O.

Genus **Myoscalops** Thomas, Proc. Zool. Soc. London, 1890, p. 448.

Species:

Page
1. *argenteocinereus* ..... 216

557. *Myoscalops argenteocinereus* (Peters), Bericht Verh. Akad. Wiss. Berlin, p. 259, 1846.

Silvery Mole-Rat.

*Hab.* Tropical Africa.

*Fig.* Peters, Reis. Moss. Säugth. 1852, pl. 31, fig. 2, as *Bathyergus argenteocinereus*.

Five deposited 23 June, 1900.

## Family JACULIDAE.

Genera :


| | Page |
|---|---|
| 1. *Allactaga* | 217 |
| 2. *Scarturus* | 218 |
| 3. *Jaculus* | 218 |


### Genus **Allactaga** F. Cuvier, Proc. Zool. Soc. London, 1836, p. 141.

Species :


| | Page |
|---|---|
| 1. *alactaga* | 217 |
| 2. *indica* | 217 |
| 3, *williamsi* | 217 |


558. *Allactaga alactaga* (Olivier), Bull. Soc. philom. Paris, **2**, p. 121, 1800. *v.* Thomas, Ann. Mag. Nat. Hist. (6) **20**, p. 309, 1897.

*Alactaga decumana.*

Persian Jerboa.

*Hab.* Persia.

*Fig.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 25, as *Dipus decumanus.*

Two presented 17 Nov. 1893, by Capt. R. A. Ogilby, F.Z.S.

559. *Allactaga indica* J. E. Gray, Ann. Mag. Nat. Hist. (1) **10**, p. 262, 1842.

*Alactaga indica.*

Afghan Jerboa.

*Hab.* Afghanistan, Baluchistan and parts of Persia.

*Fig.*

One presented 30 Oct. 1880, by Major W. E. Money.

560. *Allactaga williamsi* Thomas, Ann. Mag. Nat. Hist. (6) **20**, p. 309, 1897.

Williams's Jerboa.

*Hab.* Asia Minor : Kurdistan, Armenia, etc.

*Fig.*

One presented 15 Aug. 1905, by Mr. R. B. Woosnam.

Genus **Scarturus** Gloger, Hand-und Hilfsbuch. Naturg. **1**, p. 106, 1842.

Species :

Page
1. *tetradactylus* ..... 218

561. *Scarturus tetradactylus* (Lichtenstein), Verzeich. Doubl. Zool. Mus. Berlin, p. 2, 1823.

*Scirtomys tetradactylus.*

Egyptian Four-toed Jerboa. Long-eared Jerboa.

*Hab.* Egypt : the Maryût district and country to the west only.

*Figs.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 23, lower figures, as *Dipus tetradactylus.* F. W. Bond, "Field," London, 25 June, 1921, p. 815 : photograph.

Two presented 21 May, 1921, by the Giza Z. G.

Genus **Jaculus** Erxleben, Syst. Regn. Anim. **1**, p. 404, 1777.

Species :

Page
1. *jaculus* ..... 218
2. *orientalis* ..... 218

562. *Jaculus jaculus* Linnaeus, Syst. Nat. **1**, p. 63, 1758.

*Dipus hirtipes* List, ed. 9, 1896, p. 125.

Lesser Egyptian Jerboa.

*Hab.* North Africa : from French West Africa to Somaliland, also Sinai and Syria ; many local races.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 53.

Six presented 13 Oct. 1881, by Mr. N. H. Beyts.

563. *Jaculus orientalis* Erxleben, Syst. Regn. Anim. **1**, p. 404, 1777.

*Dipus aegyptius* List, ed. 9, 1896, p. 124.

Alternative name *Scirtopoda orientalis.*

Greater Egyptian Jerboa.

*Hab.* North Africa: Algiers, Tunis, Tripoli and western Lower Egypt.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 54.

Two presented 4 June, 1830, by Mr. Hanmer Warrington, C.M.Z.S.

Seven born in the Gardens: four in 1871 and three in 1910.

## Family ZAPODIDAE.

Genera:


| | Page |
|---|---|
| 1. *Zapus* | 219 |
| 2. *Sicista* | 219 |


### Genus **Zapus** Coues, Bull. U.S. Geol. and Geogr. Surv. Terr. (2) **1**, p. 253, 1876.

Species:


| | Page |
|---|---|
| 1. *hudsonius* | 219 |


564. *Zapus hudsonius* (Zimmermann), Geogr. Gesch. **2**, p. 358, 1780.

Hudson Jumping-Mouse.

*Hab.* North America: from Labrador, through Canada, to Alaska, and in the United States to as far south as Colorado and North Carolina.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 85, as *Meriones hudsonicus*.

Two deposited 7 Jan. 1908, appear to have been the first received.

### Genus **Sicista** J. E. Gray, in Griffith, Cuv. Anim. Kingd. **5**, p. 228, 1827.

Species:


| | Page |
|---|---|
| 1. *trizona* | 219 |


565. *Sicista trizona* (Petényi), Termeszetrajzi Füzetek, **5**, p. 103, 1882. *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 539, 1912.

*Sminthus vagus* List, ed. 9, 1896, p. 122.

Grey-striped Mouse.

*Hab.* Europe: Hungary; also recorded from Denmark and Norway.

*Fig.*

One, from the Tatra Mountains, presented 4 Dec. 1886, by Dr. A. Wryesniowski.

## Family PEDETIDAE.

Genus:

Page
1. *Pedetes* ..... 220

### Genus **Pedetes** Illiger, Prodr. Syst. Mamm. p. 81, 1811.

Species:

Page
1. *cafer* ..... 220

566. *Pedetes cafer* (Pallas), Nov. Sp. Quadr. Glir. Ord. p. 87, 1778.

*Pedetes caffer.*

Cape Jumping Hare. Spring-Haas.

*Hab.* South Africa.

*Fig.* P.Z.S. 1899, p. 428: uncoloured.

One presented 31 March, 1899, by Mr. W. Champion.

## Family HYSTRICIDAE.

Genera:

Page
1. *Hystrix* ..... 220
2. *Atherurus* ..... 222

### Genus **Hystrix** Linnaeus, Syst. Nat. 1, p. 56, 1758.

Species:

Page
1. *cristata* ..... 221
2. *javanica* ..... 221
3. *leucura* ..... 221
4. *longicauda* ..... 222

567. *Hystrix cristata* Linnaeus, Syst. Nat. 1, p. 56, 1758.
Crested Porcupine.
*Hab.* Africa: widely distributed; also found locally in Italy and Sicily, possibly due to introduction by human agency.
*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 55.
First received 20 May, 1828. Individuals have come from Morocco, Suakim, the Upper Nile and various parts of West, South and East Africa.
Some authorities prefer to call the Porcupines from South and Tropical Africa *Hystrix africae australis*.
At least twenty-seven born in the Gardens 1833–1927.

568. *Hystrix javanica* (F. Cuvier), Mém. Mus. Hist. Nat. Paris, 9, p. 431, 1822.
Alternative name *Acanthion javanicum*.
Crestless Porcupine.
*Hab.* Java.
*Fig.*
A male lived in the Surrey Z. G. for ten or twelve years (before June, 1847), where it paired with a female *H. cristata*; one hybrid was born. *v.* J. E. Gray, P. Z. S. 1847, p. 103.
This species was first received in the London Z. G. in 1848, or early in 1849.

569. *Hystrix leucura* Sykes, Proc. Zool. Soc. London, 1831, p. 103.
Alternative name *Acanthion leucurus*.
Indian Porcupine.
*Hab.* India and Ceylon, and parts of western and west-central Asia.
*Fig.* P. Z. S. 1865, pl. 16, as *Hystrix malabarica*.
First received in April, 1862, when two were presented by Mr. A. Grote, F.Z.S.
Seven born in the Gardens 1865–1867.

570. *Hystrix longicauda* Marsden, Sumatra, p. 118, & Atlas, pl. 13, 1811.

Alternative name *Acanthion longicauda*.

Sumatran Porcupine.

*Hab.* South-eastern Asia: Sumatra, Malay Peninsula.

*Fig.* P. Z. S. 1866, pl. 31, as *Acanthochoerus grotei*.

One, from Malacca, presented 18 April, 1866, by Mr. A. Grote, F.Z.S., was one of the two types of *Acanthochoerus grotei* J. E. Gray, P. Z. S. 1866, p. 310.

Eleven born in the Gardens 1914–1927: generally reared.

Genus **Atherurus** "G. Cuvier," F. Cuvier, Dict. Sci. Nat. **59**, p. 483, 1829.

Species:


| | Page |
|---|---|
| 1. *macrourus* | 222 |
| 2. *africanus* | 222 |


571. *Atherurus macrourus* (Linnaeus), Syst. Nat. 1, p. 57, 1758.

*Atherura fasciculata*.

Asiatic Brush-tailed Porcupine.

*Hab.* South-eastern Asia: Burma, north to Chittagong, Tipperah and the Khási Hills, and south through the Malay Peninsula to Sumatra and Java.

*Figs.* J. E. Gray, Illustr. Ind. Zool. **2**, 1883–1834, pl. 15, as *Hystrix fasciculata*. Blanford, Faun. Ind. Mamm. 1891, p. 446, fig. 146, as *Atherura macrura*: uncoloured.

First received 18 Sept. 1867, when one was purchased.

One born in the Gardens 20 May, 1924, and one 17 Sept. 1925: both reared.

572. *Atherurus africanus* J. E. Gray, Ann. Mag. Nat. Hist. (1) **10**, p. 261, 1842.

*Atherura africana*.

African Brush-tailed Porcupine.

*Hab.* West and central Africa.

*Fig.* Rochebrune, Faun. Sénégamb. Mamm. 1883, pl. 4, as *Atherura armata.*

One from Fernando Po was presented on, or before, 23 Jan. 1829, by Lieut. Vidal : it died 28 Nov. 1829.

One born in the Gardens in 1907.

## Family ERETHIZONTIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Erethizon* | 223 |
| 2. | *Coendou* | 223 |


### Genus **Erethizon** F. Cuvier, Mém. Mus. Hist. Nat. Paris, **9**, p. 432, 1822.

Species :


| | | Page |
|---|---|---|
| 1. | *dorsatum* | 223 |


573. *Erethizon dorsatum* (Linnaeus), Syst. Nat. **1**, p. 57, 1758.

*Erethizon dorsatus.*

Canadian Porcupine.

*Hab.* North America: Canada, with allied forms in Alaska and parts of the United States.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 36, as *Hystrix dorsata.*

First received in 1829.

Two have been born in the Gardens, in the month of May: one in 1884, one in 1916.

### Genus **Coendou** Lacépède, Tabl. Mamm. p. 11, 1799.

Species :


| | | Page |
|---|---|---|
| 1. | *bicolor* | 224 |
| 2. | *insidiosus* | 224 |
| 3. | *mexicanum* | 224 |
| 4. | *prehensilis* | 224 |
| 5. | *spinosus* | 224 |
| 6. | *villosus* | 225 |

574. *Coendou bicolor* (Tschudi), Faun. Peru, **1**, p. 186, 1845.
Peruvian Tree-Porcupine.
*Hab.* South America: Peru.
*Fig.* Tschudi, *l. c. s.* pl. 15.
One deposited 16 June, 1914.

575. *Coendou insidiosus* (Lichtenstein), in Kuhl, Beitr. Zool. p. 71, 1820.
*Sphingurus insidiosus.*
Lichtenstein's Hairy Tree-Porcupine.
*Hab.* South America: the Guianas and Venezuela.
*Fig.* Brandt, Mém. Acad. St. Petersb. Sci. Nat. (6) **1**, 1835, pl. 4.
One received 13 July, 1866.

576. *Coendou mexicanum* (Kerr), Anim. Kingd. **1**, p. 214, 1792.
*Sphingurus mexicanus.*
Mexican Tree-Porcupine.
*Hab.* Mexico and parts of Central America.
*Fig.*
One presented 12 Aug. 1870, by Capt. J. C. Hobbs.

577. *Coendou prehensilis* (Linnaeus), Syst. Nat. **1**, p. 57, 1758.
*Sphingurus prehensilis.*
Brazilian Tree-Porcupine.
*Hab.* South America.
*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 137, as *Cercolabes prehensilis.*
Apparently first received in 1839.

578. *Coendou spinosus* (F. Cuvier), Mém. Mus. Hist. Nat. Paris, **9**, p. 433, 1822.
*Sphingurus spinosus.*
Spiny Tree-Porcupine.

*Hab.* South America : Brazil.
*Fig.* P. Z. S. 1884, pl. 33.
One received in exchange 1 May, 1884.

579. *Coendou villosus* (F. Cuvier), Mém. Mus. Hist. Nat. Paris, **9**, p. 434, 1822.
*Sphingurus villosus.*
Hairy Tree-Porcupine.
*Hab.* South America : Brazil.
*Fig.* W. S. Berridge, Brehm, Tierl. Säugth. **2**, 1914, opp. p. 166 : photograph.
One purchased 5 May, 1875.
One born in the Gardens 9 July, 1878.

## Family ECHIMYIDAE.

Genus :

1. *Echimys* ..... Page 225

Genus **Echimys** F. Cuvier, Nouv. Bull. Soc. philom. Paris, No. 24, p. 394, 1809.
*v.* Miller, N. Amer. Mamm. p. 439, 1923.

Species :

1. *spinosus* ..... Page 225

580. *Echimys spinosus* Desmarest, Nouv. Dict. Hist. Nat. (2) **10**, p. 57, 1817.
*Echinomys spinosus.*
Spiny Rat.
*Hab.* South America : the Guianas, Brazil, Bolivia and Paraguay.
*Fig.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 36, fig. 1.
Two received in exchange 26 June, 1865, from the Jardin des Plantes, Paris.

## Family OCTODONTIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Octodon* | 226 |
| 2. | *Ctenomys* | 226 |


### Genus **Octodon** E. T. Bennett, Proc. Zool. Soc. London, 1832, p. 46.

Species :


| | | Page |
|---|---|---|
| 1. | *degus* | 226 |


581. *Octodon degus* (Molina), Sagg. Stor. Nat. Chili, p. 303, 1782.

*Octodon cumingii* E. T. Bennett, P. Z. S. 1832, p. 47.

Cuming's Octodon, or Chilian Bush-Rat. Degu.

*Hab.* South America : Chile and Peru.

*Figs.* T. Z. S. 2, 1841, pl. 16. Tschudi, Faun. Peru, 1844–1846, pl. 12, as *Octodon cumingii* var. *peruana*.

First received 10 Oct. 1831, when three were presented by Mr. H. Cuming ; one of these died 27 Dec. 1835, having lived here for 4 years 2 months 17 days.

Many born in the Gardens 1868–1913.

### Genus **Ctenomys** De Blainville, Bull. Soc. philom. Paris, p. 64, 1826.

Species :


| | | Page |
|---|---|---|
| 1. | *mendocina* | 226 |


582. *Ctenomys mendocina* Philippi, Arch. Naturg. **35, 1**, p. 38, 1869.

Philippi's Tucutucu.

*Hab.* South America : Argentina and Patagonia.

*Fig.* T. Z. S. 2, 1841, pl. 17, is of *Ctenomys magellanicus*.

One presented 2 March, 1915, by Mr. W. A. Smithers, C.M.Z.S.

## Family CTENODACTYLIDAE.

Genus :

Page
1. *Ctenodactylus* ..... 227

Genus **Ctenodactylus** J. E. Gray, Spicil. Zool. p. 10, 1830.

Species :

Page
1. *gundi* ..... 227

583. *Ctenodactylus gundi* (Rothman), 1776. *v.* Thomas, Novit. Zool. Tring, **27**, p. 506, 1920.

Gundi Rat. Masson's Comb-Rat.

*Hab.* North Africa : Algeria, Tunis and Tripoli.

*Figs.* J. E. Gray, Spicil. Zool. 1830, pl. 10 : uncoloured. Brehm, Tierl. Säugth. **2**, 1914, opp. p. 200 : photograph.

First received 4 June, 1830, when two females from Tripoli were presented by Mr. Hanmer Warrington, C.M.Z.S.

## Family CAPROMYIDAE.

Genera :

Page
1. *Capromys* ..... 227
2. *Plagiodontia* ..... 229

Genus **Capromys** Desmarest, Bull. Soc. philom. Paris, p. 187. 1822. *v.* Sherborn, Index Anim. **2**, pt. 5, p. 1070, 1924.

Species :

Page
1. *pilorides* ..... 227
2. *prehensilis* ..... 228
3. *brownii* ..... 228
4. *thoracatus* ..... 228

584. *Capromys pilorides* (Say), J. Acad. Nat. Sci. Philad. **2**, p. 333, 1822.

Fournier's Hutia.

*Hab.* Cuba.

*Figs.* G. Cuvier, Règne Anim. ed. accom. planches gravées, pl. 56, fig. 3, as *C. fournieri*. Brehm, Tierl. Säugth. 2, 1914, opp. p. 185: photograph.

First received in 1831 (purchased from Mr. Linder—? 20 Oct. 1831); it died 31 Jan. 1832.

Eight born in the Gardens (one 12 March; one 6 May; three 12 May; three 7 Aug.) in 1868.

585. *Capromys prehensilis* Poeppig, J. Acad. Nat. Sci. Philad. 4, p. 11, 1824.

Poeppig's Hutia.

*Hab.* Cuba.

*Fig.*

One purchased 24 May, 1860, from Mr. Jamrach; it died (probably) 10 June, 1860. A second purchased 18 June, 1862, also from Mr. Jamrach.

586. *Capromys brownii* J. B. Fischer, Synopsis Mamm. Addenda, p. 389 (= 589), 1830.

*Capromys brachyurus.*

Short-tailed Hutia. Jamaican Hutia.

*Hab.* Jamaica.

*Fig.*

Apparently first received in 1861; further specimens were obtained in 1862, 1865, 1871, 1878, 1895 and 1925.

*C. brownii* is type species of the subgenus *Geocapromys* Chapman 1901.

587. *Capromys thoracatus* (True), Proc. U. S. Nat. Mus. 11, 1888, p. 469. Sept. 1889.

Swan-Island Hutia.

*Hab.* Swan Island (Little Swan Island), West Indies.

*Fig.*

One presented 17 July, 1908, by Dr. Percy R. Lowe.

*C. thoracatus* is of the subgenus *Geocapromys*.

Genus **Plagiodontia** F. Cuvier, Ann. Sci. Nat. Zool. (2) **6**, p. 347, 1836.

Species:

Page
1. *aedium* ..... 229

588. *Plagiodontia aedium* F. Cuvier, Ann. Sci. Nat. Zool. (2) **6**, p. 347, 1836.

House Hutia. Rat-like Hutia.

*Hab.* West Indies: Dominica.

*Fig.* F. Cuvier, *l. c. s.* pl. 17: uncoloured.

First received between 29 April, 1855, and 29 April, 1856.

## Family MYOCASTORIDAE.

Genus:

Page
1. *Myocastor* ..... 229

Genus **Myocastor** Kerr, Anim. Kingd. p. 225, 1792.

Species:

Page
1. *coypus* ..... 229

589. *Myocastor coypus* (Molina), Sagg. Stor. Nat. Chili, p. 287, 1782.

*Myopotamus coypus.*

Coypu Rat.

*Hab.* South America: Chile, Patagonia, Argentina etc.

*Fig.* G. Cuvier, Règne Anim. ed. accom. planches gravées, pl. 63, fig. 1.

First received—a male purchased 18 Feb. 1835: it died 27 Aug. 1835.

119 born in the Gardens 1883–1927.

## Family THRYONOMYIDAE.

Genus:

1. *Thryonomys* ..... Page 230

Genus **Thryonomys** Fitzinger, SB. Ak. Wien, **56**, p. 141, 1867. *v.* Thomas, Proc. Zool. Soc. London, 1896, p. 1025.

Species:

1. *swinderianus* ..... Page 230

590. *Thryonomys swinderianus* (Temminck), Mon. Mamm. **1**, p. 248, 1827.

*Aulacodus swindernianus* List, ed. 9, 1896, p. 127.

Great Cane-Rat. "Ground Hog."

*Hab.* Tropical Africa: widely distributed from Gambia and Sierra Leone to the Upper Nile, and to South Africa.

*Figs.* Temminck, *l. c. s.* p. 25: uncoloured. Rochebrune, Faun. Sénégamb. Mamm. 1883, pl. 3, fig. 2, as *A. swinderianus*. Brehm Tierl. Säugth. **2**, 1914, opp. p. 185: photograph.

A male purchased 13 June, 1866.

## Family DINOMYIDAE.

Genus:

1. *Dinomys* ..... Page 230

Genus **Dinomys** Peters, Monatsber. Ak. Wiss Berlin, p. 551, 1873.

Species:

1. *branickii* ..... Page 230

591. *Dinomys branickii* Peters, Monatsber. Ak. Wiss Berlin, p. 552, 1873.

Páca-rána.

*Hab.* South America: Peru, with closely allied forms extending into Ecuador and Colombia.

*Figs.* P.Z.S. 1904, 2, pl. 10; 1926, p. 222, text-fig. 8: photographs.

First received 10 June, 1925, when a young female was presented by Mr. H. Whitley, F.Z.S.: it died 9 Aug. 1925.

## Family CUNICULIDAE.

Genus:

Page
1. *Cuniculus* ..... 231

### Genus **Cuniculus** Brisson, Regn. Anim. ed. 2, p. 13, 1762.

Species:

Page
1. *paca* ..... 231

592. *Cuniculus paca* (Linnaeus), Syst. Nat. **1**, p. 81, 1766.

*Coelogenys paca.*

Spotted Paca. Spotted Cavy.

*Hab.* South and Central America, extending north into Mexico.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 144.

One presented 23 June, 1829, by Capt. Lyon, was the first received.

Two born in the Gardens—one 1 May, 1888, one 29 Feb. 1920.

Synonyms. *Aguti paca.* *Ayouti paca.*

## Family DASYPROCTIDAE.

Genus:

Page
1. *Dasyprocta* ..... 232

## Genus **Dasyprocta** Illiger, Prodr. Syst. Mamm. p. 93, 1811.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *aguti* | 232 | 6. *prymnolopha* | 233 |
| 2. *azarae* | 232 | 7. *punctata* | 233 |
| 3. *cristata* | 232 | 8. *variegata* | 234 |
| 4. *colombiana* | 233 | 9. *acouchy* | 234 |
| 5. *mexicana* | 233 | 10. *pratti* | 234 |


593. *Dasyprocta aguti* (Linnaeus), Syst. Nat. **1**, p. 80, 1766.

Golden Agouti. Orange-rumped Agouti.

*Hab.* South America: typically from Brazil; found in the Guianas and Venezuela. Introduced on St. Thomas, Virgin Islands, West Indies.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 141.

First received early in 1828.

At least nineteen born in the Gardens 1851–1925.

594. *Dasyprocta azarae* Lichtenstein, Verzeich. Doubl. Zool. Mus. Berl. p. 3, 1823.

Azara's Agouti.

*Hab.* South America: southern Brazil; represented in Paraguay by *D. felicia* Thomas 1917.

*Fig.* P. Z. S. 1876, pl. 29.

First received early in 1849.

595. *Dasyprocta cristata* (Desmarest), Nouv. Dict. Hist. Nat. (2) **1**, p. 213, 1816.

West Indian Agouti.

*Hab.* West Indies: St. Vincent, St. Lucia, etc.

*Fig.* P. Z. S. 1874, pl. 82, as *D. antillensis.*

Appears to have been first received in Aug. 1868.

Two from St. Lucia, presented 24 Nov. 1874, by Mr. N. Holland, were the types of *Dasyprocta antillensis* P. L. Sclater, P.Z.S. 1874, p. 666.

*D. albida* Gray 1842 may be a synonym of this species.

596. *Dasyprocta colombiana* Bangs, Proc. Biol. Soc. Washington, **12**, p. 163, 1898.

Bang's Agouti.

*Hab.* South America: Colombia.

*Fig.*

One presented 21 April, 1913, by Mr. W. P. Pomeroy, F.Z.S.

597. *Dasyprocta mexicana* Saussure, Rev. Mag. Zool. Paris (2), **12**, p. 53, 1860.

Mexican Agouti.

*Hab.* Mexico.

*Fig.* Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 18, fig. 1.

One presented 19 Feb. 1874, by Mr. H. A. M. de Lichtabbel.

598. *Dasyprocta prymnolopha* Wagler, Isis, **24**, p. 619, 1831.

Hairy-rumped Agouti.

*Hab.* South America: Brazil.

*Fig.* Schreber, Säugth. pl. 172, *c*.

Seven purchased 1 Jan. 1875.

At least eighteen born in the Gardens 1876–1926, and three hybrids between this species and *D. agouti* born in 1922.

599. *Dasyprocta punctata* J. E. Gray, Ann. Mag. Nat. Hist. (1) **10**, p. 264, 1842.

Central-American Agouti.

*Hab.* Central America, extending north into Mexico.

*Figs.* Voy. Sulphur, 1844, pl. 15. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 18, fig. 2, as *D. isthmica*.

First received in 1861.

At least five born in the Gardens—1872, 1874, 1877 and 1913.

*Dasyprocta isthmica* Alston, P.Z.S. 1876, p. 347, is either a synonym, or a subspecies, of *D. punctata*.

600. *Dasyprocta variegata* Tschudi, Faun. Peru. p. 190, 1844.

Variegated Agouti.

*Hab.* South America: from southern Bolivia northwards to Colombia. Some subspecies, or geographical races, can be recognized.

*Fig*, Tschudi, *l. c. s.* pl. 16.

One presented 13 June, 1874, by Mrs. Wood.

601. *Dasyprocta acouchy* (Erxleben), Syst. Reg. Anim. p. 354, 1777.

Alternative name *Myoprocta acouchy*.

Acouchy.

*Hab.* South America: the Guianas and northern Brazil.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860 fig. 142.

A pair were exhibited alive to the Society on 23 Nov. 1830; they belonged to Mr. T. Bell: they both died in May 1831. Others were obtained in 1838 or 1839.

602. *Dasyprocta pratti* (Pocock), Ann. Mag. Nat. Hist. (8) **12**, p. 110, 1913.

Alternative name *Myoprocta pratti*.

Green Acouchy.

*Hab.* South America: Brazil and Peru.

*Fig.*

One purchased 1 April, 1913.

## Family VIZCACIIDAE.

Genera :


| | Page |
|---|---|
| 1. *Chinchilla* | 235 |
| 2. *Lagidium* | 235 |
| 3. *Vizcacia* | 235 |

Genus **Chinchilla** Bennett, Gardens & Menag. Zool. Soc. **1**, p. 1, 1830.

Species:

Page
1. *laniger* ..... 235

603. *Chinchilla laniger* (Molina), Sagg. Stor. Nat. Chili, p. 301, 1782.

*Chinchilla lanigera* Bennett, 1830.

Chinchilla.

*Hab.* South America: Chile, Peru.

*Figs.* Bennett, Gardens & Menag. Zool. Soc. 1830, **1**, p. 1: uncoloured. G. Cuvier, Règne Anim. ed. accom. planches gravées, pl. 69, fig. 3.

The first live Chinchilla was brought to London by Capt. Beechey, R.N., in 1829.

Thirty born in the Gardens 1848–1908.

Genus **Lagidium** Meyen, Nov. Acta Ac. Caes. Leop.-Carol, **16**, p. 576, 1833.

Species:

Page
1. *peruanum* ..... 235

604. *Lagidium peruanum* Meyen, Nova Acta Ac. Caes. Leop.-Carol, **16**, p. 578, 1833.

*Lagotis cuvieri.*

Mountain Chinchilla. Long-eared Viscacha.

*Hab.* South America: Patagonia and the southern Andes.

*Figs.* Meyen, *l. c. s.* pl. 41. T. Z. S. **1**, 1835, pl. 4.

One purchased 6 June, 1832, from Mr. Alderton, was the type of the new genus and species *Lagotis cuvieri* E. T. Bennett, P. Z. S. 1833, pp. 57–60: it died 24 April, 1833. A second individual was purchased 8 July, 1882.

Genus **Vizcacia** Schinz, Naturg. und Abbild. Säugth. p. 243, 1824 (1825).

Species:

Page
1. *viscacia* ..... 236

605. *Vizcacia viscacia* (Molina), Sagg. Stor. Nat. Chili, p. 342, 1782.

*Lagostomus trichodactylus.*

Viscacha.

*Hab.* South America: Argentina.

*Fig.* Lesson, Illustr. Zool. 1831–1832, pl. 8.

One presented 2 July, 1838, by Mr. G. Dickson; it died 23 Nov. 1839.

Twenty four born in the Gardens 1867–1897.

## Family CAVIIDAE.

Genera:


| | | Page |
|---|---|---|
| 1. | *Cavia* | 236 |
| 2. | *Kerodon* | 237 |
| 3. | *Dolichotis* | 238 |


### Genus **Cavia** Pallas, Miscell. Zool. fasc. 2, p. 16, 1767.

Species:


| | | Page |
|---|---|---|
| 1. | *porcellus* | 236 |
| 2. | *aperea* | 237 |
| 3. | *rufescens* | 237 |
| 4. | *flavidens* | 237 |
| 5. | *spixii* | 237 |


606. *Cavia porcellus* (Linnaeus), Syst. Nat. 1, p. 59, 1758.

Restless Cavy, or Guinea-Pig.

*Hab.* South America: domesticated and introduced into North America, Europe, Egypt, etc.

*Figs.* Cumberland, Guinea-Pig, London (Upcott Gill), 1905.

Exhibited from 1828 onwards.

A "Maned Guinea Pig" was presented 2 Dec. 1843, by Queen Victoria.

Very many born in the Gardens.

607. *Cavia aperea* Erxleben, Syst. Reg. Anim. p. 348, 1777.
Pig-like Cavy. Erxleben's Guinea-Pig.
*Hab.* South America: Brazil.
*Fig.* Schreber, Säugth. 1780?, pl. 173, A, fig. 3. Brehm, Tierl. Säugth. **2**, 1914, opp. p. 141: photograph.
Two deposited 1 Oct. 1907.

608. *Cavia rufescens* Lund, K. Dansk. Vid. Selsk. Afhandl. **8**, p. 283, 1841. *v.* Thomas, Ann. Mag. Nat. Hist. (7) **8**, p. 532, 1901.
Pampas Cavy. Lund's Guinea-Pig.
*Hab.* South America: Argentina, Uruguay, Brazil, Paraguay and Bolivia.
*Fig.*
One presented 16 Oct. 1912, by Mr. W. A. Smithers, C.M.Z.S., represented *Cavia rufescens pamparum* Thomas, A. M. N. H. (7) **8**, p. 533, 1901.

609. *Cavia flavidens* Brandt, Mém. Acad. St. Petersb. Sci. Nat. (6) **1**, p. 439, 1835.
Alternative name *Galea flavidens*.
Yellow-toothed Cavy.
*Hab.* South America: Brazil and Bolivia.
*Fig.* Brandt, *l. c. s.* pl. 17.
One purchased 31 March, 1880.

610. *Cavia spixii* Wagler, Isis, 1831, p. 512.
Alternative name *Galea spixii*.
Spix's Cavy.
*Hab.* South America: Brazil.
*Fig.* Schreber, Säugth. 1780?, pl. 173, A, fig. 2.
First received between 29 April, 1858, and 29 April, 1859.

Genus **Kerodon** F. Cuvier, Dents. des Mamm. p. 151, 1823.

Species:

Page
1. *rupestris* ..... 238

611. *Kerodon rupestris* (Wied), Isis, 1820, p. 43.
*Cerodon rupestris.*
Rock-Cavy. Moco-Cavy.
*Hab.* South America : Brazil.
*Fig.* Schreber, Säugth. 1780 ?, pl. 173, A, fig. 1, as *Cavia rupestris.*
First received in 1847 or early in 1848.

Genus **Dolichotis** Desmarest, Mamm. p. 360, 1822.

Species :


| | Page |
|---|---|
| 1. *magellanica* | 238 |
| 2. *salinicola* | 238 |


612. *Dolichotis magellanica* (Kerr), Anim. Kingd. p. 220, 1792.
*Dolichotis patachonica* (Shaw), 1801.
Patagonian Cavy. Mara. Pampas Hare.
*Hab.* South America : Patagonia.
*Fig.* Lesson, Centurie Zool. 1830, pl. 42, as *Mara magellanica.*
Two presented 28 July, 1864, by Mr. J. Duguide.
Ten born in the Gardens 1894–1899, May to Sept.

613. *Dolichotis salinicola* H. Burmeister, Proc. Zool. Soc. London, 1875, p. 634.
Salt-Desert Cavy. Salt-Marsh Rabbit.
*Hab.* South America : Argentina.
*Figs.* P. Z. S. 1875, pl. 69 ; 1906, **1**, pl. 4.
One deposited 23 Jan. 1906.

Family HYDROCHOERIDAE.

Genus :


| | Page |
|---|---|
| 1. *Hydrochoerus* | 239 |

Genus **Hydrochoerus** Brisson, Regn. Anim. ed. 2, p. 12, 1762.

Species :

Page
1. *hydrochoeris* ..... 239

614. *Hydrochoerus hydrochoeris* (Linnaeus), Syst. Nat. **1**, p. 103, 1766.

*Hydrochoerus capybara.*

Capybara.

*Hab.* South America, extending north to Panama.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 143.

One presented 12 March, 1833, by Mr. H. Baker was the first received.

One born in the Gardens 30 Nov. 1874, died 8 Dec. 1874.

## Order XI. LAGOMORPHA
(or Rodentia Duplicidentata).

Families :

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1. Leporidae ..... 239
2. Ochotonidae ..... 245

## Family LEPORIDAE.

Genera :

Page
1. *Lepus* ..... 239
2. *Oryctolagus* ..... 243
3. *Sylvilagus* ..... 243

Genus **Lepus** Linnaeus, Syst. Nat. **1**, p. 57, 1758.

Species :

Page
1. *timidus* ..... 240
2. *hibernicus* ..... 240
3. *mediterraneus* ..... 240
4. *europaeus* ..... 241
5. *americanus* ..... 241
6. *arcticus* ..... 241
7. *nigricollis* ..... 242
8. *ruficaudatus* ..... 242
9. *senegalensis* ..... 242
10. *canopus* ..... 242

615. *Lepus timidus* Linnaeus, Syst. Nat. **1**, p. 57, 1758.

*Lepus variabilis.*

Mountain Hare. Variable Hare.

*Hab.* Northern Europe and Asia.

*Figs.* Thorburn, in Millais, Mamm. Gt. Britain, **3**, 1906, pls. 50, 51[1].

Three forms of this species have been exhibited alive in the Gardens:—

(i.) *L. t. timidus* Linnaeus 1758, from Scandinavia, first received in 1831. Two born in the Gardens 25 May, 1895 (the mother arrived from Norway 18 April, 1895).

(ii.) *L. t. varronis* G. S. Miller 1901, from mountains of Central Europe, received in 1828?

(iii.) *L. t. scoticus* Hilzheimer 1906, from Scotland (introduced into England, Wales and Ireland), first exhibited in 1828.

616. *Lepus hibernicus* Bell, Hist. Brit. Quadrupeds, p. 341, 1837.

Alternative name *Lepus timidus hibernicus.* *v.* Miller, Brit. Mus. Cat. Mamm. W. Europe, p. 531, 1912.

Irish Hare.

*Hab.* Ireland: introduced into parts of Wales and Scotland.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **3**, 1906, pl. 51[2].

First received in 1833. Type of "Irish Hare" of Yarrell, P. Z. S. 1833, p. 88.

617. *Lepus mediterraneus* Wagner, Münch. Gelehrt. Anzeiger, p. 439, 17 March, 1841. *v.* Miller, Brit. Mus. Cat. Mamm. W. Eur. p. 513, 1912.

Sardinian Hare.

*Hab.* Sardinia.

*Fig.*

Owing to confusion with Hares from the African coast of the Mediterranean, it is not certain when the Sardinian Hare was first received in the Gardens, or what species, if any, of North African Hare has lived in the collection.

618. *Lepus europaeus* Pallas, Nov. Sp. Quadr. Glir. Ord. p. 30, 1778.

European Hare.

*Hab.* Europe: from Great Britain to Russia, and from the Baltic south to the Pyrenees, Italy and Greece. Introduced and established in Ontario, Canada, and the north-eastern United States.

*Fig.* Thorburn, in Millais, Mamm. Gt. Britain, **3**, 1906, pl. 49.

First exhibited in 1828. Native English Hares are sometimes placed in a subspecies, *Lepus europaeus occidentalis* de Winton 1898.

619. *Lepus americanus* Erxleben, Syst. Regn. Anim. **1**, p. 330, 1777.

American Varying Hare. American Northern Hare.

*Hab.* North America: typically from Hudson's Bay; races are found from Newfoundland and Labrador to British Columbia and Alaska, and in the northern parts of the United States to as far south as Virginia and California.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pls. 11 & 12.

The first received in the Gardens appear to be four presented 26 Feb. 1886.

620. *Lepus arcticus* Ross, Voy. of Discovery, H.M.SS. Isabella & Alexander, 8vo. ed. **2**, a. 4, p. 151, 1819. *v.* Miller, N. Amer. Mamm. p. 449, 1923.

Polar Hare.

*Hab.* North America: Arctic regions, south to Labrador and Newfoundland.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 32, as *Lepus glacialis.*

One presented 8 Jan. 1927, by Capt. J. C. Jackson is referred to *Lepus arcticus bangsi* Rhoads, 1896, typically from Newfoundland.

21. *Lepus nigricollis* F. Cuvier, Dict. Sc. Nat. **26**, p. 307, 1823.

Black-necked Hare. Black-naped Hare.

*Hab.* India: southern India and Ceylon.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1837, **3**, pl. 285 (Z. S. L. Library): "Lièvre à cou noir."

One presented 13 Aug. 1880, by the Hon. L. S. Jackson.

622. *Lepus ruficaudatus* I. Geoffroy, Dict. Class. Hist. Nat. **9**, p. 381, 1826.

Indian Hare.

*Hab.* India: northern India generally, from Hazara to Assam.

*Fig.* A. Wagner, Hügel's Kaschmir, 1848, **4**, pl. opp. p. 574, as *L. macrotus*: uncoloured.

Two presented 12 May, 1890, by Mr. W. L. Sclater, F.Z.S.

623. *Lepus senegalensis* (Rochebrune), Faun. Sénégamb. Mamm. p. 73, 1883.

Senegal Hare.

*Hab.* West Africa: Senegal to Sierra Leone.

*Fig.*

One presented 19 April, 1905, by Capt. Sir George Denton, K.C.M.G.

624. *Lepus canopus* Thomas & Hinton, Novit. Zool. Tring, **28**, p. 12, 1921.

Nigerian Hare.

*Hab.* West Africa : northern Nigeria.

*Fig.*

One from the Kano district, deposited 11 Aug. 1921.

Genus **Oryctolagus** Lilljeborg, Sveriges og Norges Ryggradsdjur, **1**, p. 417, 1874. *v.* Miller, Brit. Mus. Cat. Mamm. W. Eur. p. 484, 1912.

Species :

Page
1. *cuniculus* ..... 243

625. *Oryctolagus cuniculus* (Linnaeus), Syst. Nat. **1**, p. 58, 1758.

*Lepus cuniculus.*

Rabbit.

*Hab.* North-western Africa and Europe ; details of distribution modified by human agency. Introduced into the British Isles, Australia, etc., etc.

*Figs.* Thorburn, in Millais, Mamm. Gt. Britain, **3**, 1906, pl. 52 ; P. Z. S. 1857, pl. 56, & 1861, pl. 4: domestic varieties.

Both wild and domestic rabbits were on exhibition in the Gardens in 1828.

A female from Porto Santo, Madeira, deposited in 1861, was later referred to *Lepus huxleyi* Haeckel 1874. A female from Dhia, off Candia, Crete, received in 1904, was described as *Oryctolagus cuniculus cnossius* by Miss D. M. A. Bate, P. Z. S. 1905, **2**, p. 322.

Genus **Sylvilagus** J. E. Gray, Ann. Mag. Nat. Hist. (3) **20**, p. 221, 1867.

Species :

Page
1. *brasiliensis* ..... 244
2. *superciliaris* ..... 244
3. *sylvaticus* ..... 244

626. *Sylvilagus brasiliensis* (Linnaeus), Syst. Nat. **1**, p. 58, 1758.

*Lepus brasiliensis.*

Brazilian Hare.

*Hab.* Tropical America: Brazil to Honduras and Mexico.

*Fig.*

First received 29 March, 1879.

Synonym. *Tapeti brasiliensis.*

N.B.—Individuals from Central America may be a distinct species, *Sylvilagus gabbi* (Allen), 1877.

627. *Sylvilagus superciliaris* (Allen), Bull. Amer. Mus. Nat. Hist. **12**, p. 196, 1899.

White-browed Hare.

*Hab.* Tropical America: Colombia.

*Fig.*

Two presented 29 April, 1914, by Mr. W. K. Pomeroy, F.Z.S.

628. *Sylvilagus sylvaticus* (Bachman), J. Acad. Nat. Sci. Philad. **7**, p. 403, 1837.

*Lepus sylvaticus.*

Cottontail Rabbit.

*Hab.* North America. Cottontails are widely distributed, from Canada, throughout the United States, to Mexico. Forty-five species and subspecies from this area are listed by Miller, N. Amer. Mamm. 1923, pp. 463–477.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **1**, 1852, pl. 22, as *L. sylvaticus*, & **2**, 1851, pl. 94, as *L. nuttallii.*

First received 28 Feb. 1885. Five born in the Gardens during 1887. These may have been *Sylvilagus nuttallii* (Bachmann), 1837, or *S. floridanus* (Allen), 1890, or of some other species. If *nuttallii* and *sylvaticus* are synonymous, *nuttallii* has page preference.

## Family OCHOTONIDAE.

Genus :

Page
1. *Ochotona* ..... 245

Genus **Ochotona** Link, Beytr. Naturg. **1**, pt. 2, p. 74, 1795. *v.* Thomas, Proc. Zool. Soc. London, 1896, p. 1026.

Species :

Page
1. *roylei* ..... 245

629. *Ochotona roylei* (Ogilby), in Royle, Illustr. Botany etc. Himalayas, p. lxix (69), 1839.

Himalayan Mouse-Hare.

*Hab.* Central Asian Highlands : Himalayas, etc.

*Figs.* Büchner, in Prejevalsky, Wiss. Result. Central-Asien Reis. **1**, Säugth. 1888, pl. 23, figs. 1, 2.

Three presented 28 Nov. 1904, by Col. C. E. Yates, were recorded as of this species, and as from Baluchistan, so may have been of the form *O. rufescens* (Gray), 1842.

Synonyms. *Lagomys roylei*. *Conothoa roylei*. Named after John Forbes Royle.

## Order XII. PROBOSCIDEA.

Family :

Page
1. Elephantidae ..... 245

## Family ELEPHANTIDAE.

Genus :

Page
1. *Elephas* ..... 246

Genus **Elephas** Linnaeus, Syst. Nat. 1, p. 33, 1758.

Species :


| | Page |
|---|---|
| 1. *maximus* | 246 |
| 2. *africanus* | 246 |


630. *Elephas maximus* Linnaeus, Syst. Nat. 1, p. 33, 1758.

*Elephas indicus.*

Indian Elephant.

*Hab.* India, Ceylon, Burma, Siam, Cochin China, Malay Peninsula, Sumatra and Borneo.

*Figs.* Jardine, Nat. Libr. Mamm. 5, 1836, pl. 2. Brit. Mus. Cat. Ung. 5, 1916, p. 81, fig. 23: photograph.

A male purchased 11 May, 1831, from Capt. Smith was the first Elephant received: it lived till 5 June, 1847.

A female was born (dead) in the Gardens 31 Aug. 1902; its mother had been deposited there 19 Sept. 1901.

631. *Elephas africanus* Blumenbach, Handbuch der Naturgeschichte, 1779. *v.* W. H. Flower, Cat. Osteol. Mus. R. Coll. Surg. 2, p. 484, 1884.

Alternative name *Loxodonta africana.*

African Elephant.

*Hab.* Tropical and South Africa.

*Fig.* Wolf, Zool. Sketches (2), 1867, pl. 24.

"Jumbo," a young male, received in exchange 26 June, 1865, from the the Jardin des Plantes, Paris, was the first African Elephant in the Gardens.

A female, from the French Gaboon, deposited 16 Oct. 1922, was considered to be a "Pygmy African Elephant, *Loxodon cyclotis.*"

## Order XIII. HYRACOIDEA.

Family:

1. Procaviidae ..... Page 247

## Family PROCAVIIDAE.

Genus:

1. *Procavia* ..... Page 247

### Genus **Procavia** Storr, Prodr. Meth. Mamm. p. 40, 1780.

Species:

1. *capensis* ..... Page 247
2. *syriaca* ..... 247
3. *dorsalis* ..... 248

632. *Procavia capensis* (Pallas), Spicil. Zool. **2**, p. 16, 1767.

*Hyrax capensis.*

Cape Hyrax. Klip-Das, or Dassie (in South Africa).

*Hab.* South Africa.

*Fig.* Jardine, Nat. Libr. Mamm. **5**, 1836, pl. 16.

A male presented 6 June, 1832, by Mr. T. Bell, died 30 Nov. 1832.

Seven born in the Gardens: two 25 Nov. 1863, two 31 July, 1921, and three 19 June, 1922.

633. *Procavia syriaca* (Schreber), Säugth. **4**, p. 923, pl. 240, B, 1784, 1792.

*Hyrax syriacus.*

Cirogrille*. Syrian, or Arabian Hyrax.

*Hab.* South-western Asia: Sinai, Syria, Arabia.

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* Cirogrille correctly used by Wyclif, *Lev.* xi, 5, in 1388, altered to "Coney" (*i. e.* Rabbit) in the English Bible of 1611. *v.* J. A. H. Murray, New Engl. Dict. **2**, p. 323, 1893. Variant spellings are Cherogril, Chirogrylle and Choerogryl (*i. e.* little pig). Dr. P. Chalmers Mitchell, C.B.E., F.R.S., Sectr. Z.S., kindly brought this word to the writer's notice.

*Figs.* Jardine, Nat. Libr. Mamm. 5, 1836, pl. 14. Anderson, Zool. Egypt, Mamm. 1902, pl. 57. *Procavia sp.*

Two presented 2 July, 1908, by H.H. The Sultan of Muscat, represent *Procavia syriaca jayakari* Thomas, P. Z. S. 1892, p. 63.

634. *Procavia dorsalis* (Fraser), Proc. Zool. Soc. London, 1852, p. 99.

*Dendrohyrax dorsalis.*

Beecroft's Hyrax.

*Hab.* West Africa: Gambia, Sierre Leone, etc., to the Cameroons.

*Figs.* P. Z. S. 1852, Mamm. pl. 33: uncoloured; 1916, p. 750, text-fig. 7: photograph.

First received in 1852, as *Hyrax beecrofti* Fraser, *nom. nud.*

## Order XIV. PERISSODACTYLA.

Families:


| | Page |
|---|---|
| 1. Equidae | 248 |
| 2. Rhinocerotidae | 254 |
| 3. Tapiridae | 255 |


### Family EQUIDAE.

Genus:


| | Page |
|---|---|
| 1. *Equus* | 248 |


### Genus **Equus** Linnaeus, Syst. Nat. 1, p. 73, 1758.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *caballus* | 249 | 7. *grevyi* | 251 |
| 2. *kiang* | 249 | 8. *zebra* | 251 |
| 3. *hemionus* | 249 | 9. *quagga* | 251 |
| 4. *indicus* | 250 | 10. *burchellii* | 252 |
| 5. *hemippus* | 250 | 11. *asinus* | 252 |
| 6. *onager* | 250 | | |

635. *Equus caballus* Linnaeus, Syst. Nat. **1**, p. 53, 1758.

Horse.

*Equus caballus equiferus* Pallas, Zoogr. Rosso-Asiatica, **1**, p. 255, 1811–1831. Doubtful.

*Equus caballus przewalskii* Poliakow, Izvestia Soc. Imp. Russ. Geogr. p. 1, 1881. *v.* Lydekker, Brit. Mus. Cat. Ung. **5**, p. 7, 1916.

Mongolian Tarpan, or Wild Horse.

*Hab.* Mongolia: Gobi Desert.

*Fig.* P. Z. S. 1902, **1**, pl. 13.

First received 28 Feb. 1902, when four, two in exchange and two on deposit, came from Mr. C. Oberbeck.

Sex, Male.

636. *Equus kiang* Moorcroft, Trav. Ladak, **1**, p. 312, 1842. *v.* Lydekker, Brit. Mus. Cat. Ung. **5**, p. 8, 1916.

*Equus hemionus* List, Ed. 9, 1896, p. 143.

Kiang, or Tibetan Wild Ass.

*Hab.* Ladak, Tibet and Sikhim.

*Fig.* P. Z. S. 1904, **1**, pl. 28.

First received 6 Oct. 1959, when a female was presented by Major W. E. Hay, F.Z.S.

Eleven born in the Gardens 1911–1927: all in the month of July.

637. *Equus hemionus* Pallas, Nov. Comm. Petrop. **19**, pp. 394, 397, 1775. *v.* Lydekker, Brit. Mus. Cat. Ung. **5**, p. 11, 1916.

Chigetai. Kulan.

*Hab.* Central Asia: Altai.

*Fig.* P. Z. S. 1904, **1**, pl. 27.

First received 10 June, 1909, when a male was deposited by the Duke of Bedford, K.G., F.R.S., P.Z.S.

638. *Equus indicus* (P. L. Sclater), Proc. Zool. Soc. London, 1862, p. 163.

*Equus onager* List, Ed. 9, 1896, p. 143.
*Equus onager indicus* Lydekker, Brit. Mus. Cat. Ung. **5**, p. 12, 1916.

Indian Wild Ass. Ghor-Khar.

*Hab.* Western India: typically Cutch, extends into Baluchistan.

*Fig.* Novit. Zool. Tring, **11**, 1904, pl. 17.

The type of *Asinus indicus* P. L. Sclater, 1862, y[illegible] female from Cutch which had been presented [illegible] 1849, by Sir T. Erskine Perry, F.Z.S., but [illegible]etc., to three individuals had been received prev[illegible] first being a male presented 3 (or 5) M[illegible] Capt. Glasspoole, R.N. (or E.I.C.S.) [illegible]loured ; 1916,

Three born in the Gardens, on 1 Oct[illegible]-6 June, 1911, and 3 June, 1914, respectively.

639. *Equus hemippus* I. Geoffroy, C. R. Acad. Sci. Paris, **41**, p. 1214, 1855.

Alternative name *Equus onager hemippus*.

Hemippe, or Syrian Wild Ass.

*Hab.* Syria and the Syrian-Mesopotamian desert.

*Fig.* Jardine, Nat. Libr. Mamm. **12**, 1841, pl. 19, as *Asinus hamar*.

First received 5 Oct. 1855, when a female was presented by Mr. W. Burkhardt Barker.
A male was born in the Gardens 12 May, 1869.

640. *Equus onager* Pallas, Acta Ac. Petrop. p. 254, 1777. *v.* Lydekker, Brit. Mus. Cat. Ung. **5**, p. 12, 1916.

Alternative name *Equus onager onager*.

Onager, or Persian Wild Ass.

*Hab.* North-western Persia to Bokhara.

*Fig.* Novit. Zool. Tring, **11**, 1904, pl. 19.

First received 11 March, 1859, when a female from the interior of Persia, which had been brought home *via* Trebizond, was presented by the Hon. Charles A. Murray, C.B., F.Z.S.

641. *Equus grevyi* Oustalet, La Nature, **10**, pt. 2, p. 12, 1882.

Alternative name *Dolichohippus grevyi*.

Grévy's Zebra.

*Hab.* North-east Africa: Abyssinia, extending into Somaliland and British East Africa.

*Figs.* P. Z. S. 1882, p. 721: uncoloured; 1907, pp. 714 & 825: photographs.

The first received were a pair deposited 14 Aug. 1899, by Queen Victoria.

Four born in the Gardens: one 24 July, 1908, one 1 Aug. 1910, one 23 July, 1912, and one 4 Aug. 1927.

3. On bre

642. *Equus zebra* Linnaeus, Syst. Nat. **1**, p. 74, 1758.

Alternative name *Hippotigris zebra*.

Mountain Zebra.

*Hab.* South and south-west Africa: from Cape Province to Angola.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 175.

One presented 3 Sept. 1830, by King William IV: it died 20 July, 1836.

643. *Equus quagga* J. F. Gmelin, Syst. Nat. **1**, p. 213, 1788.

Alternative name *Hippotigris quagga*.

Quagga.

*Hab.* South Africa: Cape Colony, now extinct.

*Figs.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 174. P. Z. S. 1901, **1**, p. 166, text-fig. 47: photograph of No. 2, in 1870.

Only three true Quaggas have been exhibited in the Gardens:—

No. 1, purchased from Mr. Thomson, 25 Nov. 1831: died 18 July, 1834.

No. 2, female purchased from Mr. Jamrach, 15 March, 1851: died 7 July, 1872.

No. 3, male presented by Sir George Grey, K.C.B., 4 Sept. 1858: died 10 June, 1864.

644. *Equus burchellii* (J. E. Gray), Zool. Journ. **1**, p. 247, 1824.

Alternative names *Hippotigris burchellii*, *H. quagga burchellii*.

Burchell's Zebra. Bontequagga.

*Hab.* Southern and eastern Africa: many subspecies have been named, but the limits of individual variation and geographical distribution are not known.

*Figs.* Knowsley Menagerie, 1850, pl. 55. P. Z. S. 1865, pl. 22, represents *E. burchellii chapmanni*; 1901, **2**, pl. 29, represents *E. burchellii granti*.

First received 28 Sept. 1830, when a pair were presented by King William IV.

Three distinct forms of this species have entered the collection:—

(i.) The typical *E. burchellii burchelli*, now very rare, if not extinct.

(ii.) *E. burchellii chapmanni* E. L. Layard, P. Z. S. 1865, p. 417. Named after Mr. James Chapman.
Alternative name *E. quagga chapmanni*.
First represented by a female presented 26 May, 1861, by Sir George Grey.

(iii.) *E. burchellii granti* de Winton, Ann. Mag. Nat. Hist. (6) **17**, p. 319, 1896.
Alternative name *E. quagga granti*.
First represented by a male deposited 2 Nov. 1901, by King Edward VII.

Seventeen Burchell's Zebras have been born in the Gardens, 1831–1904.

645. *Equus asinus* Linnaeus, Syst. Nat. **1**, p. 73, 1758.

Alternative name *Asinus asinus*.

Ass, or Donkey.

*Hab.* Africa: occurs wild from eastern Nubia to Somaliland; introduced as a domestic animal to all suitable parts of the world.

*Figs.* P. Z. S. 1884, pl. 50, figs. 1, 2, as "Wild Asses," represent types of domestic Donkeys to be seen in Africa. Lydekker, Novit. Zool. Tring, **11**, 1904, pl. 20, represents a real wild donkey, *Equus asinus africanus*.

A male is said to have been purchased 19 Sept. 1864. Since then various domestic Donkeys appear to have been exhibited as *E. taeniopus* and *E. somalicus*, and twelve were born in the Gardens, 1886–1912.

Hybrid Zebras presented to the Society :—

1, 2. Presented 1 Oct. 1830, by King William IV. One said to have been bred between the Mountain Zebra and the Donkey, the other between Burchell's Zebra and the Donkey. One of these died, of lockjaw, 10 March, 1840; the other died 8 March, 1847, having lived in the Gardens 16 years 5 months 7 days.

3. One presented 6 Dec. 1842, by the Earl of Derby, bred between "Common Zebra and Dshikketai."

4. Male, gelding, presented 19 July, 1902, by King Edward VII. Bred in South Africa between a male Zebra and a pony mare. Lived till 11 July, 1918.
*Fig.* P. Z. S. 1903, **1**, p. 2, text-fig. 1 : uncoloured.

5. Male deposited 30 April, 1919, by the Duke of Bedford, K.G., P.Z.S. Bred, in Europe, between male Grévy's Zebra and female domestic Donkey.

Hybrid Zebras born in the Gardens :—

1. One 22 June, 1898 : *Equus caballus* ♂ × *E. burchellii* ♀.

2. Female 21 June, 1911 : *E. asinus somalicus* ♂ × *E. zebra* ♀.
*Figs.* P. Z. S. 1911, pp. 988–992, text-figs. 201, 202 : photographs.

3. Female 28 June, 1911 : *E. asinus somalicus* ♂ × *E. chapmanni* ♀.
*Fig.* P. Z. S. 1911, pp. 992–994, text-fig. 203 : photograph.

4. Male 17 June, 1915 : *E. chapmanni* ♂ × *E. zebra* ♀.

Hybrid Wild Asses presented to the Society :—

One presented 16 March, 1843, by Mr. Scorer, bred "between the Persian Wild Ass and Common Ass."

Hybrid Wild Asses born in the Gardens:—

1. One 7 July, 1843: "between the Wild and Common Ass."
2. One 21 July, 1878: probably *Equus hemippus* ♂ × *E. indicus* ♀.
3. Male 30 June, 1883: *E. hemippus* ♂ × *E. asinus* ♀.
4. One in 1908: "*E. onager* × *E. hemionus*."
5. Male 27 Sept. 1920: "*E. kiang* × *E. asinus*."

## Family RHINOCEROTIDAE.

Genus:

Page
1. *Rhinoceros* ..... 254

### Genus **Rhinoceros** Linnaeus, Syst. Nat. 1, p. 56, 1758.

Species:

Page
1. *unicornis* ..... 254
2. *sondaicus* ..... 254
3. *sumatrensis* ..... 255
4. *bicornis* ..... 255

646. *Rhinoceros unicornis* Linnaeus, Syst. Nat. 1, p. 56, 1758

Great Indian Rhinoceros.

*Hab.* India: now only occurs in some districts of north-eastern India.

*Fig.* T. Z. S. 9, 1876, pl. 95.

The first received was a male purchased 24 May, 1834, for £1,050, from Capt. Farquison: it died 19 Nov. 1849, having lived in the Gardens for 15 years 5 month 25 days.

647. *Rhinoceros sondaicus* Desmarest, Mammalogie 2, p. 399, 1822.

Sondaic Rhinoceros. Javan Rhinoceros.

*Hab.* South-eastern Asia: eastern India, Burma, Siam, Malay Peninsula, Sumatra, Java and Borneo.

*Fig.* T. Z. S. 9, 1876, pl. 96.

The first received was a young male purchased 7 March, 1874, for £800, from Messrs. Cross and Jamrach.

648. *Rhinoceros sumatrensis* G. Cuvier, Règne Anim. **1** p. 240, 1817.

Alternative name *Dicerorhinus sumatrensis*.

Asiatic Two-horned Rhinoceros.

*Hab.* South-eastern Asia: Assam, Burma, Siam, Malay Peninsula, Sumatra and Borneo.

*Figs.* T. Z S. **9**, 1876, pls. 97 & 98.

The first received was a female purchased 14 Feb. 1872, for £1,250, from Mr. William Jamrach: it died 31 Aug. 1900, and was the type of *Rhinoceros lasiotis* P. L. Sclater, P. Z. S. 1872, p. 493. A second female, purchased 2 Aug. 1872, for £600, from Mr. W. Jamrach, was considered to be *R. sumatrensis*.

649. *Rhinoceros bicornis* Linnaeus, Syst. Nat. **1**, p. 56, 1758.

Alternative name *Diceros bicornis*.

Black Rhinoceros.

*Hab.* Africa: from the Cape of Good Hope to Somaliland and the Anglo-Egyptian Sudan.

*Fig.* T. Z. S. **9**, 1876, pl. 99.

The first received was a young male purchased 11 Sept. 1868, for £1,000, from Mr. C. Hagenbeck.

## Family TAPIRIDAE.

Genus:

Page
1. *Tapirus* ..... 255

### Genus **Tapirus** Brisson, Regn. Anim. p. 118, 1756.

pec ies:

Page
1. *indicus* ..... 256
2. *terrestris* ..... 256
3. *bairdii* ..... 256
4. *dowii* ..... 257

650. *Tapirus indicus* Desmarest, Nouv. Dict. Hist. Nat. **32**, p. 458, 1819.

Alternative name *Acrocodia indica*.

Malay Tapir.

*Hab.* Malay Peninsula, extending north into Tenasserim : also Sumatra.

*Figs.* Jardine, Nat. Libr. Mamm. **5**. pl. 30, 1836. P. Z. S. 1908, p. 786, text-fig. 167 : photograph, juv.

One purchased 17 Sept. 1840, for £125, from Capt. Milward, was the first received. It died 17 April, 1841.

A female born in the Gardens 14 July, 1921, was reared.

651. *Tapirus terrestris* (Linnaeus), Syst. Nat. **1**, p. 74, 1758.

*Tapirus americanus*.

Brazilian Tapir.

*Hab.* South America : from southern Brazil and northern Argentina to Peru, the Guianas and Venezuela.

*Figs.* P. Z. S. 1872, pl. 52 ; 1878, pl. 39, as *T. roulini* ; 1882, pl. 23, as *T. dowii*.

First received 7 July, 1828, when a young female was presented by Lieut. H. L. Maw, R.N. : it died the same day.

Three born in the Gardens, on 12 Feb. 1882, 22 May, 1883, and 6 Oct. 1909, respectively.

652. *Tapirus bairdii* (Gill), Proc. Acad. Nat. Sci. Philad p. 183, 1865.

Alternative name *Tapirella bairdii*.

Baird's Tapir.

*Hab.* Central America, from Panama northwards in Mexico.

*Figs.* P. Z. S. 1867, pl. 42, as *Elasmognathus bairdi* ; 1871, pl. 50 ; 1872, pl. 51.

A young male purchased 15 Aug. 1871, was the first individual of this species received in the Gardens : it died 27 Sept. 1871.

653. *Tapirus dowii* (Gill), Amer. Journ. Sci. Arts **50**, p. 142, 1870.

Alternative name *Tapirella dowii*.

Dow's Tapir.

*Hab.* Central America: Guatemala and Nicaragua.

*Fig.* Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 9.

A female deposited 25 July, 1893, was the first received. Tapirs received in the Gardens before 1893, and registered as *dowii*, appear to have been examples of *T. terrestris*.

## Order XV. ARTIODACTYLA.

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## Family BOVIDAE.

Genera:


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| 41. *Strepsiceros* | 300 |
| 42. *Taurotragus* | 301 |
| 43. *Tetracerus* | 302 |
| 44. *Boselaphus* | 303 |

Genus **Bos** Linnaeus, Syst. Nat. **1**, p. 71, 1758.

Species:


| | Page |
|---|---|
| 1. *taurus* | 258 |
| 2. *indicus* | 258 |


654. *Bos taurus* Linnaeus, Syst. Nat. **1**, p. 71, 1758.

Domestic Ox.

*Hab.* Europe, introduced in suitable places all over the world.

*Figs.* Cadzow, Chartley and Chillingham Cattle. Millais, Mammals Gt. Britain, **3**, 1906, pls. opposite pp. 192, 196 & 198.

Examples of several breeds have been exhibited in the Gardens, including a pair from Piedmont and a pair from Tuscany presented by the King of Italy 3 Nov. 1862, but probably those of most interest have been the English white feral Park Cattle from Chartley, Staffordshire, and from Chillingham, Northumberland, which have bred freely here.

655. *Bos indicus* Linnaeus, Syst. Nat. **1**, p. 72, 1758.

Domestic Humped Ox. Zebu.

*Hab.* Asia and Africa.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 225.

First exhibited in 1828; many breeds from India and some from Africa have been from time to time in the Gardens, where, from 1829 onwards, very many have been born.

Hybrid Cattle born in the Gardens:—

One 11 Jan. 1862: "hybrid Yak."
One 29 Oct. 1868: *Bos indicus* ♂ × *Bibos frontalis* ♀.
One 18 Dec. 1869: „ „
One 16 March, 1871: „ „
Male 15 June, 1872: *Bos indicus* × hybrid *B. indicus, frontalis.*
Male 16 Oct. 1873: *Bos indicus* × *B. frontalis.*
One 5 Jan. 1875: „ „

Male 11 March, 1876: *Bos indicus* × hybrid *B. indicus*, *frontalis*.
One 11 July, 1877: *Bos indicus* × hybrid *B. indicus*, *frontalis*.
One 2 Nov. 1878: *Bos indicus* × hybrid *B. indicus*, *frontalis*.
Female 21 May, 1881: *Bison bison* ♂ × hybrid *Bos indicus*, *Bibos frontalis* ♀.
One 12 March, 1884: *Bison bison* × hybrid *B. bison*, *indicus*, *frontalis* ♀, born 21 May, 1881.
One 16 July, 1885: *Bison bison* × hybrid *B. bison* ♀, born 21 May, 1881.
Male 17 June, 1890: *Bison bison* × hybrid *B. bison* ♀, born 21 May, 1881.
*Fig.* P. Z. S. 1884, pls. 34, 35.

Genus **Bibos** Hodgson, J. Asiat. Soc. Bengal, **6**, pt. 1, p. 499, 1837, & Ann. Mag. Nat. Hist. (1) **1**, p. 153, 1838.

Species:


| | Page |
|---|---|
| 1. *gaurus* | 259 |
| 2. *frontalis* | 259 |
| 3. *banting* | 260 |


656. *Bibos gaurus* (H. Smith), in Griffith, Anim. Kingd. **4**, p. 399, 1827.

Gaur (in India). Seladang (in Malaya). "Indian Bison."

*Hab.* Hill-forests of Peninsular India, Burma and the Malay Peninsula.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 1.

First received; a male from Pahang, Malay Peninsula, presented 23 Oct. 1889, by Sir Cecil C. Smith, K.C.M.G. (for age, etc., *v.* P. Z. S. 1889, p. 447). The Pahang race has been described as a separate subspecies, *hubbacki* Lydekker 1907.

657. *Bibos frontalis* (Lambert), Trans. Linn. Soc. London, **7**, p. 57, 1804.

Gayal.

*Hab.* Assam (domesticated), and south to Tenasserim?

*Figs.* Lambert, *l. c. s.* pl. 4: uncoloured. P. Z. S. 1866, pl. 1. Lydekker, Wild Oxen, etc., 1898, pl. 2.

First received in 1844, when on 11 June one was deposited by the Earl of Derby, and on 15 June a second was deposited by Mr. Bartlett; the second individual died 3 July 1846.

Fifteen born in the Gardens 1882–1909.

658. *Bibos banting* J. E. Gray (*ex* Raffles *vernac.*), Glean. Menag. Knowsley Hoof. Quadr. p. 48, 1850. *v.* Sherborn, Index Anim. **2**, pt. 4, p. 652, 1924.

*Bibos sondaicus.*

Bantin, Banteng or Sondaic Ox.

*Hab.* Java is the type-locality; races of this species occur in other Malayan islands, in the Malay Peninsula, Burma, Siam and Cochin China.

*Figs.* S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. 1839–1844, pls. 35, 36. Lydekker, Wild Oxen, etc., 1898, pl. 3.

A male from Pegu was presented 4 May, 1863, by Col. A. P. Phayre. The Burmese race has been made a subspecies, *birmanicus* Lydekker 1898.

Two bull calves have been born in the Gardens, one in 1910 and one 17 Feb. 1911 (died young).

Genus **Poephagus** J. E. Gray, Brit. Mus. List Mamm. p. 153, 1843.

Species:

Page
1. *grunniens* ..... 260

659. *Poephagus grunniens* (Linnaeus), Syst. Nat. **1**, p. 99, 1766.

Yak.

*Hab.* Tibet and neighbouring countries.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 4.

Domesticated Yaks have been exhibited; a male and female were presented 21 Feb. 1861, by Mr. C. M. Robinson.

Twenty-five born in the Gardens 1863–1906.

Genus **Bison** H. Smith, in Griffith, Anim. Kingd. 5, p. 373, 1827.

Species:

Page
1. *bonasus* ..... 261
2. *bison* ..... 261

660. *Bison bonasus* (Linnaeus), Syst. Nat. 1, p. 71, 1758.

European Bison.

*Hab.* Europe, formerly spread over many parts of Central Europe, but during the last century restricted to the Bielowitza Forest of Lithuania. A special Society is now occupied in saving this fine species from extinction. An allied form occurs, or did occur till lately, in the Caucasus.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 5.

First received 5 Oct. 1847, when a young pair were presented by the Czar of Russia; the male died 26 Sept. 1848, the female 1 July, 1849. Some later importations were more successful; male calves were born 29 Dec. 1914, and 22 Feb. 1917, and a female was born 16 Aug. 1921.

661. *Bison bison* (Linnaeus), Syst. Nat. 1, p. 72, 1758.

*Bison americanus.*

American Bison.

*Hab.* North America, formerly spread from Pennsylvania to, and across, the Rocky Mountains, and from Mexico to far into Canada. This species, at one time threatened with extermination, is now firmly protected and increasing in numbers.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 6.

A very large male was purchased from Mr. James, a showman, 14 July, 1829; it died 29 July, 1829. A young female was presented 24 Oct. 1829, by the Hudson's Bay Company.

Thirteen born in the Gardens 1849–1927.

Genus **Bubalus** H. Smith, in Griffith, Anim. Kingd. **5**, p. 371, 1827.

Species :

Page
1. *bubalis* ..... 262

662. *Bubalus bubalis* (Linnaeus), Syst. Nat. **1**, p. 72, 1758.

*Bubalus buffelus.*

Indian Buffalo. Water Buffalo. Arni. Gamoos (in Egypt).

*Hab.* India, including Assam. Domesticated in many other parts of Asia, in Egypt, etc. Feral in Australia, Borneo, etc.

*Figs.* S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. 1839–1844, pl. 40 : domestic. Lydekker, Wild Oxen, etc., 1898, pl. 9 : wild.

From 26 July, 1828, domesticated Buffaloes have from time to time been exhibited in the Gardens, introduced from India, Manilla and Turkey.

Several have been born 1839–1913.

Genus **Anoa** H. Smith, in Griffith, Anim. Kingd. **4**, p. 293, **5**, p. 355, 1827.

Species :

Page
1. *depressicornis* ..... 262

663. *Anoa depressicornis* H. Smith, in Griffith, Anim. Kingd. **4**, p. 293, **5**, p. 355, 1827.

Anoa.

*Hab.* Celebes.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 10, fig. 2.

The Earl of Derby had in his menagerie at Knowsley a male Anoa, received from the Jardin des Plantes, Paris, in January 1846, but no specimen appears to have been exhibited alive in the Society's Gardens till 10 May, 1871, when a male, purchased from the Rotterdam Z. G., was received.

Genus **Syncerus** Hodgson, J. Asiat. Soc. Bengal, **16**, pt. 2, p. 709, 1847.

Species:

Page
1. *caffer* ..... 263

664. *Syncerus caffer* (Sparrman), K. Svensk. Vetensk. Akad. Handl. **40**, p. 79, 1779.

*Bubalus caffer.*

Cape Buffalo. African Buffalo.

*Hab.* South and Tropical Africa: from the Cape Province, in suitable districts and where not exterminated, north to the Gambia and to the White and Blue Niles. Many specific and subspecific names have been proposed for local races, and even for herd variations, which may be temporary, lasting for one or two generations only.

*Figs.* P. Z. S. 1873, pl. 42, as *Bubalus pumilus*: head only, uncoloured. Lydekker, Wild Oxen, etc., 1898, pls. 7 & 8.

A Cape Buffalo was presented 25 July, 1839, by the Earl of Derby: it died 23 Dec. 1849, having lived in the Gardens 10 years 4 months 28 days.

A pair of "East African Buffaloes," purchased 27 Oct. 1877, were referred to *Bubalus aequinoctialis* Blyth 1866.

A male "Senegal Buffalo" deposited 21 Nov. 1904, was registered as *Bubalus centralis* J. E. Gray 1872.

Eight born in the Gardens: seven in the years 1872–1882, and one 8 Feb. 1927.

Genus **Ovis** Linnaeus, Syst. Nat. **1**, p. 70, 1758.

Species:

Page
1. *aries* ..... 264
2. *musimon* ..... 264
3. *ophion* ..... 264
4. *gmelinii* ..... 264
5. *vignei* ..... 265
6. *ammon* ..... 265

665. *Ovis aries* Linnaeus, Syst. Nat. 1, p. 70, 1758.

Domestic Sheep.

*Hab.* Origin unknown, introduced by human agency into all suitable parts of the world.

*Figs.* P. Z. S. 1857, Mamm. pl. 52 : Shanghai Sheep. Rochebrune, Faun. Sénégamb. Mamm. 1883, pl. 9 : African breeds.

First exhibited in 1828 : many breeds from many lands have been in the Gardens and have bred there.

666. *Ovis musimon* (Pallas), Zoogr. Rosso-Asiat. 1, p. 230, 1811.

Mouflon.

*Hab.* Sardinia and Corsica.

*Figs.* Lydekker, Wild Oxen, etc., 1898, pl. 12. Haacke & Kuhnert, Thierl. 1901, 1, pl. opp. p. 616.

Four were received in 1831 : one presented 25 Feb. by Mr. Poulett Scrope, and three presented 26 Sept. by King William IV.

At least seventy-three born in the Gardens 1832–1927, and fourteen hybrids between this species and *O. aries* 1871–1923.

667. *Ovis ophion* Blyth, Proc. Zool. Soc. London, 1840, p. 73.

Alternative name *Ovis orientalis orientalis.*

Cyprian Wild Sheep.

*Hab.* Cyprus.

*Fig.* P. Z. S. 1884, pl. 58.

One presented 17 July, 1925, by Sir Malcolm Stevenson, K.C.M.G.

668. *Ovis gmelinii* Blyth, Proc. Zool. Soc. London, 1840, p. 69.

Alternative name *Ovis orientalis gmelinii.*

Armenian Wild Sheep. Gmelin's Sheep. Red Sheep.

*Hab.* Asia Minor, Armenia and Persia: several local races have been named.

*Fig.* Fraser, Zool. Typ. 1849, pl. 21.

A pair presented 22 Jan. 1909, by Capt. J. W. Watson, I.M.S.

669. *Ovis vignei* E. Blyth, Proc. Zool. Soc. London, 1840, p. 70.

Punjab Wild Sheep. Oorial.

*Hab.* Asia: Baluchistan, Afghanistan, north-western India, Ladak, Tibet, Turkestan, etc.: several local races have been made out of this species.

*Figs.* Wolf, Zool. Sketches 1861, pl. 24. Lydekker, Wild Oxen, etc., 1898, pl. 13. C. H. Stockley, J. Bombay Nat. Hist. Soc. **28**, 2, March 1922: two photographs.

First received 19 Aug. 1854, when a male from the Salt Range, Punjab, was presented by Brig.-Gen. J. B. Hearsey, Bengal Army. A female from the same hills was presented 25 July, 1857, by Major Bartlett. This pair, and their twin lambs born 27 May, 1858, are the animals figured by Wolf. They are *O. vignei punjabiensis* Lydekker 1913. The Afghan Wild Sheep, *O. vignei cycloceros* Hutton 1842, appears to have been represented in the collection in, or after, 1875.

About twenty-one born in the Gardens 1858–1917.

Hybrids born in the Gardens:—

One 18 May, 1871: *O.* "*cycloceros*" ♂ × *O. musimon* ♀.

One 29 May 1871: „ „

One 23 May 1927: *O. vignei* × *O. ophion*.

670. *Ovis ammon* (Linnaeus), Syst. Nat. **1**, p. 70, 1758.

Siberian Wild Sheep. Argali Sheep.

*Hab.* Central and north-eastern Asia: from Turkestan, the Pamirs, Ladak, Tibet, Siberia and Mongolia to, it is said, Kamchatka: several local races.

*Figs.* P. Z. S. 1874, pl. 53, as *Ovis polii*; 1899, pl. 8: young male. Lydekker, Wild Oxen, etc., 1898, pls. 14 & 15.

One received before 4 June, 1829; it died 28 July, 1829. Three presented 10 May, 1840, by Col. Campbell, one of which lived till 24 Nov. 1842. A young male was purchased 18 Jan. 1899, and a female was purchased 15 Aug. 1900.

Genus **Ammotragus** Blyth, Proc. Zool. Soc. London, 1840, p. 13.

Species:

1. *lervia* ..... Page 266

671. *Ammotragus lervia* (Pallas), Spicil. Zool. **12**, p. 12, 1777.

*Ovis tragelaphus.*

Barbary Wild Sheep. Arui Sheep.

*Hab.* North Africa: Morocco to Upper Egypt and Nubia.

*Fig.* Wolf, Zool. Sketches (2), pl. 21, 1867.

One presented 9 July, 1834, by Sir Thomas Reade, H.M. Consul-General at Tunis: it died 30 March, 1836.

At least 152 born in the Gardens 1854–1927.

Genus **Pseudoïs** Hodgson, J. Asiat. Soc. Bengal, **15**, p. 343, 1846.

Species:

1. *nahoor* ..... Page 266

672. *Pseudoïs nahoor* (Hodgson), Proc. Zool. Soc. London, 1834, p. 107.

*Ovis burrhel.*

Bharal, or Blue Wild Sheep.

*Hab.* Mountains to the north of India—headwaters of the Sutlej, Ladak, Baltistan and Kuenleun, at 12,000 to 16,000 feet.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 19.

First received 20 March, 1877, when a male was deposited.
Forty-seven born in the Gardens 1882–1908.

Genus **Capra** Linnaeus, Syst. Nat. **1**, p. 68, 1758.

Species:


| | Page |
|---|---|
| 1. *hircus* | 267 |
| 2. *caucasica* | 268 |
| 3. *pyrenaica* | 268 |
| 4. *ibex* | 268 |
| 5. *sibirica* | 269 |
| 6. *nubiana* | 269 |
| 7. *falconeri* | 269 |


673. *Capra hircus* Linnaeus, Syst. Nat. **1**, p. 68, 1758.

Goat.

*Hab.* Western Asia: found wild from Asia Minor and southern Palestine to the Caucasus, Persia, Baluchistan and Sind. Introduced by man into most parts of the world as a domestic animal, and has in many cases run wild in uninhabited localities. In Crete, and some of the islands between Greece and Asia Minor, the wild Goats are possibly really wild and not feral.

*Figs.* P. Z. S. 1886, pl. 31, as *Capra aegagrus*: male, from Crete. Lydekker, Wild Oxen, etc., 1898, pl. 23.

Domestic Goats have been, from time to time exhibited in the Gardens from at least 12 March, 1828.

The Cretan Goat, *Capra hircus cretensis* "Lorenz (*ex* Brisson), 1899," the so-called "Cretan Ibex," was first received in 1842, or early in 1843, as a present from Admiral Sir John West.

A male purchased 29 Nov. 1895, believed to be from Giura Island, northern Sporades, was referred to *Capra dorcas* Reichenau 1888.

Usually these Goats have been exhibited as *Capra aegagrus* Erxleben 1777, and called "Grecian Ibex," though the typical locality of *aegagrus* is in the Caucasus and not Greece, and the horns are typically Goat, not Ibex, in formation.

Many born in the Gardens, usually in the months of April and May, 1865–1926.

674. *Capra caucasica* Güldenstädt, in Pallas, Acta Ac. Petrop. **3**, pt. 2, p. 273, 1779. *v.* Lydekker, Brit. Mus. Cat. Ung. **1**, p. 131, 1913.

*Capra cylindricornis* (Blyth), Proc. Zool. Soc. London, 1840, p. 68.

Caucasian Tur, or Wild Goat.

*Hab.* Caucasus.

*Figs.* P. Z. S. 1893, p. 730: female, uncoloured. Lydekker, Wild Oxen, etc., 1898, pl. 20.

A female, from the Central Caucasus, presented 20 Nov. 1893, by Mr. H. H. P. Deasey, 16th Lancers.

Three, from the south-east Caucasus, presented 16 Jan. 1908, by Prince Paul Demidoff.

Six born in the Gardens 1911–1926, and forty-four hybrids between this species and *C. sibirica* 1910–1927.

675. *Capra pyrenaica* Schinz, N. Denkschr. schweiz. Ges. **2**, p. 9, pls. 2 & 3, 1838. *v.* Lydekker, Brit. Mus. Cat. Ung. **1**, p. 138, 1913.

Pyrenean Wild Goat. Spanish Ibex.

*Hab.* Mountains of Spain and Portugal: at least four local races are recognised.

*Figs.* Lydekker, Wild Oxen, etc., 1898, pl. 22. P. Z. S. 1911, **2**, pls. 52–54.

A female was presented 10 Aug. 1868, and a male 4 Sept. 1869, by Major Howard Irby, 74th Highlanders. As both these were from southern Spain, they might be considered as *Capra pyrenaica hispanica* Schimper 1848.

676. *Capra ibex* Linnaeus, Syst. Nat. **1**, p. 68, 1758.

Alpine Ibex.

*Hab.* Mountains of Switzerland and northern Italy: exterminated in some localities, re-introduced into others.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 211.

A pair of hybrid Ibex were presented 3 Nov. 1862, by the King of Italy.

Five (apparently all of hybrid parentage) born in the Gardens 1863–1871.

677. *Capra sibirica* (Pallas), Spicil. Zool. **11**, p. 31, 1776.

Asiatic Ibex. Himalayan Ibex.

*Hab.* Mountains of Central Asia, from Afghanistan and the Himalayas, north to the Altai and on into Siberia.

*Figs.* P. Z. S. 1901, **1**, pl. 9, as the Kashmir Ibex. Lydekker, Wild Oxen, etc., 1898, pl. 24.

A pair, from Pangi, near Chamba, presented 27 March, 1908, by H.H. the Maharajah of Chamba, K.C.S.I.

One born in the Gardens 17 June, 1926, another 3 June, 1927, and a hybrid between this species and *C. hircus*, 5 Aug. 1926.

678. *Capra nubiana* F. Cuvier, Hist. Nat. Mamm. **7**, pl. 397, 1825.

*Capra sinaitica.*

Nubian Ibex.

*Hab.* Egypt and Nubia (east of the Nile only), Sinai and Arabia.

*Figs.* Anderson, Zool. Egypt, Mamm. 1902, pl. 58. P. Z. S. 1886, pl. 32, as *Capra sinaitica* (represents a young male from Upper Nubian mountains, inland from Suakin, presented 30 Dec. 1884, by Mrs. Laing).

The first received was one presented 25 May, 1850, by H.H. Abbas Pasha, Viceroy of Egypt.

Two Ibex born in the Gardens 11 May, 1854, appear to have been of this species.

A hybrid *C. nubiana* ♂ × *C. hircus* ♀ was born 24 Feb. 1885.

679. *Capra falconeri* (Hügel), Wagner, Münch. gelehrt. Anzeig. **9**, p. 430, 1839. v. Blanford, Faun. Ind. Mamm. p. 505, 1891.

*Capra megaceros.*

Markhor.

*Hab.* Interior of Asia, from Bokhara, through Chitral, Gilgit, Afghanistan, Astor, etc., to the western Himalayas. Divided into about six local races.

*Figs.* Wolf, Zool. Sketches (2), pl. 20, 1867. P. Z. S. 1902, **2**, pl. 27. "Cabul Markhor."

The first received, from the "mountains of Kashmir," was a male presented 21 July, 1856, by Capt. Samuel Browne, 2nd Punjab Cavalry.

At least nine born in the Gardens 1867–1908, and twelve hybrids between male Markhor and female *C. hircus* 1864–1915.

Genus **Hemitragus** Hodgson, J. Asiat. Soc. Bengal, **10**, pt. 2, p. 913, 1841.

Species:

Page
1. *jemlahicus* ..... 270
2. *hylocrius* ..... 270

680. *Hemitragus jemlahicus* (H. Smith), in Griffith, Anim. Kingd. **4**, p. 308, 1827.

*Hemitragus jemlaicus.*

Thar.

*Hab.* Himalayas.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 25. Lydekker, Wild Oxen, etc., 1898, pl. 26.

One presented in 1852 by Capt. Townley Parker.

At least eighty-six born in the Gardens 1885–1927.

681. *Hemitragus hylocrius* (Ogilby), Proc. Zool. Soc. London, 1837, p. 81.

Nilgiri Thar.

*Hab.* Mountain ranges of southern peninsular India.

*Fig.* Lydekker, Wild Oxen, etc., 1898, pl. 27.

One deposited 24 Sept. 1901, by the Hon. Walter Rothschild.

Genus **Rupicapra** Blainville, Bull. Soc. philom. Paris, p. 75, 1816.

Species:

Page
1. *rupicapra* ..... 271

682. *Rupicapra rupicapra* (Linnaeus), Syst. Nat. **1**, p. 68, 1758.

*Rupicapra tragus.*

Chamois.

*Hab.* European Alps, extending south into the Apennines and east to the Carpathians, with local races in the Pyrenees, Spain, Caucasus and Asia Minor.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 201, as *Rupicapra capella.*

First received in 1831, when two were presented, one 4 Aug. by Mr. Burton, one 26 Sept. by Lord Rendlesham : both died in November 1831.

A female presented 11 Dec. 1874, by Mr. A. Wilson, appears to have been *Rupicapra pyrenaica* Bonaparte 1844, a subspecies of *R. rupicapra.*

Five born in the Gardens 1864–1911.

Genus **Capricornis** Ogilby, Proc. Zool. Soc. London, 1836, p. 139.

Species :

Page
1. *sumatraensis* ..... 271
2. *crispus* ..... 272

683. *Capricornis sumatraensis* (Bechstein), Übersicht vierfüss. Thiere, **1**, p. 98, 1799.

Serow.

*Hab.* Mountains of south-east Asia : Sumatra, Malay Peninsula, Burma, Himalayas, west to Kashmir, east to Sze-chuan.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1821, livr. 27 : "Le Cambtan." P. Z. S. 1908, pp. 184, 186, text-figs. 34, 35 : photographs.

First received in 1906, when one was purchased 21 Aug. from Mr. W. Jamrach, and one was presented 13 Sept. by the Selangor Government. The first, from near Darjiling, was identified as *Capricornis sumatraensis jamrachi*, the second made the type of *Capricornis sumatraensis robinsoni* : see Pocock, P. Z. S. 1908, pp. 183, 185.

684. *Capricornis crispus* (Temminck), Fauna Japon. p. 55, 1840.

*Nemorhaedus crispus.*

Japanese Goat-Antelope.

*Hab.* Japan.

*Figs.* Temminck, *o.c.s.* pl. 18, as *Antilope crispa.* Garden Guide 1881, & List Animals, ed. 9, 1896, p. 163, fig. 25 : uncoloured.

A young male presented 12 April, 1879, by Mr. H. Pryer, C.M.Z.S.

Synonym. *Capricornis (Capricornulus) crispus pryerianus*, see Heude 1894 and 1898, and Lydekker, B.M. Cat. Ung. **1**, 1913, p. 201.

Genus **Naemorhedus** H. Smith, in Griffith, Anim. Kingd. **5**, p. 352, 1827.

Species :

Page
1. *goral* ..... 272
2. *raddeanus* ..... 272

685. *Naemorhedus goral* (Hardwicke), Trans. Linn. Soc. London, **14**, p. 518, 1825.

*Nemorhaedus goral.*

Goral Goat-Antelope.

*Hab.* Himalayas.

*Figs.* Hardwicke, *l.c.s.* pl. 14 : uncoloured. Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 200.

A male purchased 16 March, 1881.

A male, from Nepal, presented 8 June, 1906, by H.R.H. The Prince of Wales, which died a few days after arrival, was referred later to *Naemorhedus hodgsoni* Pocock, P. Z. S. 1908, p. 195, which appears to be a browner form of *N. goral.*

686. *Naemorhedus raddeanus* (Heude), Hist. Nat. Chinois, **2**, p. 240, pl. 35, 1894. *v.* Pocock, Proc. Zool. Soc. London, 1908, p. 196.

Radde's Long-tailed Goat-Antelope.

*Hab.* North-eastern Asia : Amurland and Korea.

*Fig.* P. Z. S. 1908, p. 197, text-fig. 38 : photograph.

One presented 5 Feb. 1907, by Mr. C. F. Bilborough : it died 30 June, 1907.

Genus **Budorcas** Hodgson, J. Asiat. Soc. Bengal, **19**, p. 65, 1850.

Species :

1. *taxicolor* ..... Page 273

687. *Budorcas taxicolor* Hodgson. J. Asiat. Soc. Bengal, **19**, p. 65, 1850.

Takin.

*Hab.* Eastern Himalayas and mountains of western China.

*Figs.* P. Z. S. 1908, pl. 43, as *B. tibetanus* ; 1911, pl. 29, as *B. bedfordi* ; 1909, p. 668, text-fig. 216 : ♂ juv., photograph.

The first Takin to reach Europe alive was a male presented 22 June, 1909, by Mr. J. C. White, C.M.G., C.M.Z.S. ; it was referred to *B. taxicolor whitei* Lydekker 1907, and lived in the Gardens till its death on 7 May, 1918.

A female Takin was presented 25 Jan. 1923, by Major F. M. Bailey, C.I.E., F.Z.S.

Genus **Oreamnos** Rafinesque, Amer. Monthly Mag. **2**, p. 44, 1817. *v.* Miller, N. Amer. Mamm. p. 498, 1923.

Species:

1. *americanus* ..... Page 273

688. *Oreamnos americanus* (Blainville), Bull. Soc. philom. Paris, p 80, 1816. *v.* Miller, N. Amer. Mamm. p. 498, 1923.

*Haploceros montanus.*

Rocky Mountain Goat.

*Hab.* North America: western United States, through British Columbia, to Alaska.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 128, as *Capra americana*.

A male from Elfa Mountain, British Columbia, caught 12 June, 1899, when "about a fortnight old," was purchased 6 June, 1900.

Genus **Ovibos** Blainville, Bull. Soc. philom. Paris, p. 76, 1816.

Species:

Page
1. *moschatus* ..... 274

689. *Ovibos moschatus* (Zimmermann), Geogr. Gesch. **2**, p. 86, 1780.

Musk-Ox.

*Hab.* Arctic America, including Greenland.

*Figs.* Lydekker, Wild Oxen, etc., 1898, pl. 11. Lydekker, Great & Small Game Europe, etc., 1901, pl. 6.

Two young male Musk-Oxen from Clavering Island, East Greenland, were alive at Woburn in 1899. The first received in the Gardens appear to be two from Greenland, purchased 9 Oct. 1919.

Genus **Bubalis** Lichtenstein, Mag. Ges. naturf. Fr. Berlin, **6**, p. 154, 1814.

Species:

Page
1. *buselaphus* ..... 274
2. *tora* ..... 275
3. *caama* ..... 275

690. *Bubalis buselaphus* (Pallas), Misc. Zool. p. 5, 1766.

*Bubalis bosèlaphus.*

Bubal Antelope.

*Hab.* North-west Africa: Morocco to Tunis. Now extremely rare, possibly extinct in a wild state.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1894, pl. 1.

One presented 30 July, 1832, by Sir Thomas Reade, H.M. Consul-General at Tunis: it died 17 Feb. 1840.

691. *Bubalis tora* (J. E. Gray), Nature, **8**, p. 364, 1873.

Tora Antelope.

*Hab.* North-east Africa: from the Blue Nile and its tributaries, through Abyssinia, to Somaliland.

*Figs.* P. Z. S. 1873, p. 762: head only, uncoloured. Sclater & Thomas, Book of Antelopes, **1**, 1894, pl. 2. *Bubalis swaynei* (the Central Somaliland representative of *B. tora*).

A female purchased 22 July, 1875.

692. *Bubalis caama* (G. Cuvier), Dict. Sci. Nat. ed. 2, **2**, p. 242, 1804. *v.* Sherborn, Index Anim. **2**, pt. 5, p. 945, 1924.

Cape Hartebeest.

*Hab.* South Africa: from the Cape to Angola and Bechuanaland; now extinct in the southern districts.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1894, pl. 4.

First received in 1851.

Genus **Damaliscus** P. L. Sclater & Thomas, Book of Antelopes, **1**, p. 51, 1894.

Species:


| | Page |
|---|---|
| 1. *pygargus* | 275 |
| 2. *albifrons* | 276 |
| 3. *korrigum* | 276 |


693. *Damaliscus pygargus* (Pallas), Spicil. Zool. **1**, p. 10, 1767.

Bontebok.

*Hab.* South Africa: Cape Province; now extinct, except where specially protected.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 8.

A pair were living in the Knowsley Menagerie in October 1847, but this species was not received in the Society's Gardens till 1851.

694. *Damaliscus albifrons* (Burchell), Travels S. Africa, **2**, p. 335, 1824.

Blesbok.

*Hab.* South Africa: northern Cape Province to Bechuanaland.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 9.

A female was living in the Knowsley Menagerie in Sept. 1847, but the Blesbok was not received in the Society's Gardens till 26 May, 1861, when a female was presented by Sir George Grey, K.C.B.

Five born in the Gardens 1866–1914.

695. *Damaliscus korrigum* (Ogilby), Proc. Zool. Soc. London, 1836, p. 103.

Korrigum. Tiang.

*Hab.* Tropical Africa: from Senegambia to the Sudan-Abyssinian frontier, and south to Uganda and British East Africa. Seven, or more, local races can be recognized.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 7.

Ogilby described *Antilope korrigum* from an individual living in the Society's Gardens 25 Oct. 1836.

For the use of the specific names *koba* 1777, *senegalensis* 1826, and *korrigum* 1836, *v.* Lydekker, Brit. Mus. Cat. Ung. **2**, 1914, pp. 39, 40.

Genus **Connochaetes** Lichtenstein, Mag. Ges. naturf. Fr. Berlin, **6**, p. 152, 1814.

Species:

Page
1. *gnou* ..... 277
2. *taurinus* ..... 277

696. *Connochaetes gnou* (Zimmermann), Spec. Zool. Geogr. p. 372, 1772.

*Connochaetes gnu.*

White-tailed Gnu. Black Wildebeest.

*Hab.* South Africa: formerly from the Cape Province to the Transvaal, now to a great extent exterminated as a truly wild animal.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 12.

Three presented 28 Sept. 1830, by King William IV; one of these lived till 2 Nov. 1842.

Five born in the Gardens 1894–1913.

697. *Connochaetes taurinus* (Burchell), Travels S. Africa, **2**, p. 278, 1824.

*Connochaetes taurina.*

Brindled Gnu. Blue Wildebeest.

*Hab.* South and East Africa: from Bechuanaland to British East Africa; several local races have been described.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 11.

First received in 1856 or 1857.

Four born in the Gardens 1900–1910.

697*a*. *Connochaetes taurinus albojubatus* Thomas, Ann. Mag. Nat. Hist. (6) **9**, p. 388, 1892.

White-bearded Gnu.

*Hab.* British East Africa.

*Fig.* Lydekker, Great & Small Game Africa, 1899. pl. 3, fig. 5: head only.

A pair received in exchange 19 May, 1913.
Five born in the Gardens 1914–1919.

Genus **Cephalophus** H. Smith, in Griffith, Anim. Kingd. **4**, p. 258, & **5**, p. 344, 1827.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *sylvicultrix* | 278 | 6. *rufilatus* | 279 |
| 2. *spadix* | 278 | 7. *maxwelli* | 280 |
| 3. *natalensis* | 279 | 8. *melanorheus* | 280 |
| 4. *nigrifrons* | 279 | 9. *monticola* | 280 |
| 5. *dorsalis* | 279 | 10. *grimmi* | 281 |


698. *Cephalophus sylvicultrix* (Afzelius), Nova Acta Soc. Sc. Upsal. **7**, p. 265, 1815.

Wood-loving Antelope. Yellow-backed Duiker.

*Hab.* Tropical Africa: from Sierra Leone, through the forests of Nigeria and Congoland, to northern Rhodesia.

*Figs.* Knowsley Menagerie, 1850, pl. 20, fig. 3: uncoloured. P. Z. S. 1871, pl. 44, as *C. melanoprymnus*. Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 13.

One received in exchange 24 March, 1870.

699. *Cephalophus spadix* True, Proc. U.S. Nat. Mus. **13**, p. 227, 1890.

Abbott's Duiver.

*Hab.* East Africa: Tanganyika Territory.

*Fig.* Proc. U.S. Nat. Mus. 1892 (1893), **15**, pl. 78: uncoloured.

A pair presented 1 April, 1922, by Sir Horace A. Byatt, K.C.M.G.

700. *Cephalophus natalensis* A. Smith, Quart. J. S. Afr. Zool. **2**, p. 217, 1834.

Natal Duiker.

*Hab.* South-east Africa : from Natal to Nyasaland.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1841, pl. 32.

A male purchased 14 March, 1880.

701. *Cephalophus nigrifrons* J. E. Gray, Proc. Zool. Soc. London, 1871, p. 598.

Black-fronted Duiker.

*Hab.* West Africa : Gaboon, Cameroons, Congo.

*Figs.* P. Z. S. 1871, pl. 46. Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 18, fig. 1.

One purchased 16 June, 1882.

702. *Cephalophus dorsalis* (J. E. Gray), Ann. Mag. Nat. Hist. (1), **18**, p. 165, 1846.

Bay Duiker.

*Hab.* West Africa : Gambia to Nigeria.

*Figs.* P. Z. S. 1866, pl. 20, ♀ juv., as *C. breviceps*; 1869, pl. 46, ♀ adult; 1871, pl. 45. Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 19, fig. 2.

The type specimen of *C. dorsalis* was brought alive to England by Mr. Whitfield, and died in the Surrey Z. G. The first received in our Gardens was one purchased 27 Aug. 1861; it died 6 Nov. 1863. A female purchased 13 Feb. 1866, was described as *Cephalophus breviceps* J. E. Gray, P. Z. S. 1866, p. 202; it died 26 Jan. 1869.

703. *Cephalophus rufilatus* J. E. Gray, Ann. Mag. Nat. Hist. (1), **18**, p. 166, 1846.

Coquetoon Antelope. Little Red Antelope. Red-flanked Duiker.

*Hab.* Tropical Africa : from the Gambia to the Congo.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 19, fig. 1.

A female purchased 27 Aug. 1861.

A hybrid born in the Gardens 25 Jan. 1869, *C. rufilatus* ♂ × *C. dorsalis* ♀.

704. *Cephalophus maxwelli* (H. Smith), in Griffith, Anim. Kingd. **4**, p. 267, 1827.

Alternative name *Guevei maxwelli*.

Philantomba Antelope. Maxwell's Duiker.

*Hab.* West Africa: Gambia to Nigeria.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 21, fig. 2.

Two deposited 21 Oct. 1834, by Mr. T. Maccormick. Eight born in the Gardens 1855–1884.

705. *Cephalophus melanorheus* J. E. Gray, Ann. Mag. Nat. Hist. (1) **18**, p. 167, 1846.

Alternative name *Guevei melanorheus*.

Black-rumped Duiker.

*Hab.* Tropical Africa: from the Niger to Angola, and eastward to British East Africa. Several local races have been described.

*Fig.* Knowsley Menagerie, 1850, pl. 10.

One from Benguela, presented 12 Sept. 1908, by Mr. H. F. Varian, might perhaps be called *Cephalophus melanorheus anchietae* Bocage 1878.

706. *Cephalophus monticola* (Thunberg), Voy. Afrique, p. 164, 1794.

Alternative name *Guevei monticola*.

Blue Duiker.

*Hab.* South Africa: from the Cape in wooded districts north to Angola, Rhodesia and Portuguese East Africa.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 21, fig. 1.

First received before 21 Feb. 1860.

N.B.—If *monticola* Thunberg 1794 is a synonym of *Ourebia oribi*, this species will be called *Cephalophus caeruleus* H. Smith 1827.

707. *Cephalophus grimmi* (Linnaeus), Syst. Nat. **1**, p. 70, 1758.

Alternative name *Sylvicapra grimmia*.

Duiker. Duiker-bok.

*Hab.* Africa: very widely distributed in suitable localities from the northern tropic to the Cape. Several local races have been described.

*Fig.* Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 23.

South African form *C. g. grimmi*, first received in 1851. West African form *C. g. coronatus* Gray 1842, first received 9 Jan. 1896. North-east African form *C. g. abyssinicus* Thomas 1892, first received 21 Sept. 1903.

Five born in the Gardens 1854–1885.

Synonyms. *C. mergens* (Desmarest) 1816. *C. burchelli* (H. Smith) 1827.

Genus **Oreotragus** A. Smith, Quart. J. S. Afr. Zool. **2**, p. 212, 1834.

Species:

1. *oreotragus* ..... Page 281

708. *Oreotragus oreotragus* (Zimmermann), Geogr. Gesch. **3**, p. 269, 1783.

*Oreotragus saltator*.

Klipspringer Antelope.

*Hab.* Africa: in mountains, from the Cape Province north to northern Nigeria, the Red Sea Province of the Sudan, Abyssinia and Somaliland.

*Figs.* Sclater & Thomas, Book of Antelopes, **2**, 1895, pl. 25. Anderson, Zool. Egypt, Mamm. 1902, pl. 59.

The first received was a young male, from the hill country inland of Suakim, presented 3 Feb. 1896, by Commander A. Paget, R.N. One from Somaliland received 28 April, 1911, might be referred to *O. o. somalicus* Neumann 1902.

Genus **Ourebia** Laurillard, Dist. Univ. Hist. Nat. **1**, p. 622, 1841. *c.* Lydekker, Brit. Mus. Cat. Ung. **2**, p. 132, 1914.

Species:

Page
1. *nigricaudata* ..... 282
2. *kenyae* ..... 282

709. *Ourebia nigricaudata* (Brooke), Proc. Zool. Soc. London, 1872, p. 874.

Gambian Oribi. Black-tailed Antelope.

*Hab.* West Africa: Senegambia and Nigeria.

*Fig.* P.Z.S. 1872, pl. 75.

A male appears to have been alive in the Knowsley Menagerie in Nov. 1845. This species was first received in the Gardens in 1851, or early in 1852, but was not described till 1872, when a male presented 17 May, 1867, by Mr. Charles B. Mosse was made the type.

710. *Ourebia kenyae* Meinertzhagen, Proc. Zool. Soc. London, 1905, **1**, p. 169.

Kenya Oribi.

*Hab.* British East Africa.

*Fig.* Brit. Mus. Cat. Ung. **2**, 1914, p. 142, fig. 14: skull and horns only.

Two deposited 24 Sept. 1921.

Genus **Raphicerus** H. Smith, in Griffith, Anim. Kingd. **5**, p. 342, 1827.

Species:

Page
1. *campestris* ..... 283

711. *Raphicerus campestris* (Thunberg), Mém. Ac. Sci. St. Pétersb. **3**, p. 313, 1811.

*Raphicerus tragulus.*

Steinbok.

*Hab.* South and east Africa: from the Cape Province to British East Africa.

*Fig.* Sclater & Thomas, Book of Antelopes, **2**, 1895, pl. 27, fig. 1.

A female presented 25 May, 1861, by Sir George Grey, K.C.B.

Genus **Nototragus** Thomas & Schwann, Proc. Zool. Soc. London, 1906, p. 168.

Species:

1. *melanotis* ..... Page 283

712. *Nototragus melanotis* (Thunberg), Mém. Ac. Sci. St. Pétersb. **3**, p. 312, 1811.

*Raphicerus melanotis.*

Grysbok.

*Hab.* South Africa: from the Cape Province to Portugese East Africa.

*Fig.* Sclater & Thomas, Book of Antelopes, **2**, 1895, pl. 27, fig. 2.

A female presented 25 May, 1861, by Sir George Grey, K.C.B.

Genus **Nesotragus** Von Dueben, Öfv. K. Vet.-Ak. Förhandl. 1846, **3**, p. 221, 1847,

Species:

1. *moschatus* ..... Page 283

713. *Nesotragus moschatus* Von Dueben, Öfv. K. Vet.-Ak. Förhandl. 1846, **3**, p. 221, 1847.

*Neotragus moschatus.*

Zanzibar Antelope.

*Hab.* East Africa: Zanzibar and British East Africa.
*Fig.* Sclater & Thomas, Book of Antelopes, 2, 1895, pl. 28.
A female presented 16 Oct. 1897, by Mr. H. S. H. Cavendish.

Genus **Neotragus** H. Smith, in Griffith, Anim. Kingd. 5, p. 349, 1827.

Species:

1. *pygmaeus* ..... Page 284

714. *Neotragus pygmaeus* (Linnaeus), Syst. Nat. 1, p. 69, 1758.

Royal Antelope. Pygmy Antelope.
*Hab.* West Africa: Liberia to Lagos.
*Fig.* Sclater & Thomas, Book of Antelopes, 2, 1895, pl. 29.
A female presented 4 Feb. 1914, by Mr. E. B. Reece.

Genus **Madoqua** Ogilby, Proc. Zool. Soc. London, 1836, p. 137.

Species:

1. *phillipsi* ..... Page 284

715. *Madoqua phillipsi* Thomas, Proc. Zool. Soc. London, 1894, p. 327.

Lort Phillips's Dik-Dik.
*Hab.* Somaliland.
*Fig.* Sclater & Thomas, Book of Antelopes, 2, 1895, pl. 31, fig. 2.
One presented 27 Aug. 1907, by Capt. M. J. Quirke, I.M.S.

Genus **Pelea** J. E. Gray, Proc. Zool. Soc. London, 1850, p. 126.

Species:

1. *capreolus* ..... ..... Page 285

716. *Pelea capreolus* (Bechstein), Uebersicht vierfüss. Thiere, **1**, p. 98, 1799.

Vaal Rhebok.

*Hab.* South Africa: Cape Province and districts south of the Zambesi.

*Fig.* Sclater & Thomas, Book of Antelopes, **2**, 1897, pl. 46.

Although living in the Knowsley Menagerie in June 1850, the Rhebok was not exhibited in our Gardens till 11 April 1859, when two females were presented by Sir George Grey, K.C.B.

Genus **Redunca** H. Smith, in Griffith, Anim. Kingd. **5**, p. 337, 1827.

Species:


| | Page |
|---|---|
| 1. *arundinacea* | 285 |
| 2. *redunca* | 285 |
| 3. *bohor* | 286 |
| 4. *fulvorufula* | 286 |


717. *Redunca arundinacea* (Boddaert), Elenchus Anim. p. 145, 1785.

*Cervicapra isabellina.*

Alternative name *Eleotragus arundinum.*

Reedbuck. Rietbok. Isabelline Antelope.

*Hab.* Africa: from the Cape Province north to the southern parts of the Anglo-Egyptian Sudan.

*Figs.* Sclater & Thomas, Book of Antelopes, **2**, 1897, pl. 43. P. Z. S. 1900, pl. 26, as *Cervicapra thomasinae* P. L. Sclater 1900, a very pale grey individual.

First received in 1849, or early in 1850.

718. *Redunca redunca* (Pallas), Spicil. Zool. **1**, p. 8, 1767.

*Cervicapra redunca.*

Nagor Reedbuck.

*Hab.* West Africa: Senegambia.

*Fig.* Sclater & Thomas, Book of Antelopes, 2, 1897, pl. 44.

The Nagor was, probably, exhibited here in 1852, but the first definite record is 23 June, 1890, when a male, from the Gambia, was presented by Dr. P. Rendall, F.Z.S.

One born in the Gardens 1 Sept. 1926.

719. *Redunca bohor* Wagner, Schreber, Säugth. Suppl. 4, p. 425, 1844. Rüppell, Verzeichniss Mus. Senckenberg. pt. i. p. 50, 1842 *nom. nud.*

*Cervicapra bohor.*

Bohor Reedbuck.

*Hab.* North-east and east Africa: Abyssinia, Anglo-Egyptian Sudan, Uganda and British East Africa.

*Fig.* Rüppell, Neue Wirbelth. Abyssin. 1835–1840, pl. 7, fig. 1, as *Antilope redunca.*

A female, deposited 24 April 1877, by H.R.H. The Prince of Wales, was from East Africa, *via* Zanzibar, so might be referred to *Redunca bohor wardi* (Thomas) 1900, also called *Redunca redunca wardi.*

720. *Redunca fulvorufula* (Afzelius), Nova Acta Soc. Sc. Upsal. 7, p. 250, 1815.

*Cervicapra fulvorufula.*

Rooi Rhebok.

*Hab.* South Africa: eastern Cape Province, Natal, Zululand, Bechuanaland, etc., with allied forms in East Africa to as far north as southern Abyssinia.

*Fig.* Sclater & Thomas, Book of Antelopes, 2, 1897, pl. 45.

A male purchased 13 Nov. 1899.

Genus **Kobus** A. Smith, Illustr. Zool. S. Afr. Mamm. text to pl. 28, 1840.

Species:


| | Page |
|---|---|
| 1. *ellipsiprymnus* | 287 |
| 2. *defassa* | 287 |
| 3. *unctuosus* | 287 |
| 4. *lechè* | 288 |
| 5. *kob* | 288 |

721. *Kobus ellipsiprymnus* (Ogilby), Proc. Zool. Soc. London, 1833, p. 47.

*Cobus ellipsiprymnus.*

Eastern Waterbuck.

*Hab.* East Africa : from Portuguese East Africa and Rhodesia northwards to Somaliland : many local races have been named.

*Figs.* P. Z. S. 1893, pl. 39 : female and young. Sclater & Thomas, Book of Antelopes, **2**, 1896, pl. 32.

In what year this species was first received has not been traced ; the first definite record is of a male presented 30 June, 1890, by Mr. G. S. Mackenzie, F.Z.S.

A female was born in the Gardens 4 May, 1893.

722. *Kobus defassa* (Rüppell), Neue Wirbelth. Abyssin. p. 9, 1835–1840.

*Cobus defasse.*

Northern Waterbuck.

*Hab.* North-east Africa : Abyssinia and Anglo-Egyptian Sudan.

*Fig.* Sclater & Thomas, Book of Antelopes, **2**, 1896, pl. 36 (too red).

Owing to very excusable confusion with other species, or races, of Waterbuck, a date cannot be given for the first reception of the Northern Waterbuck in the Gardens.

723. *Kobus unctuosus* (Laurillard), Dict. Univ. Hist. Nat. **1**, p. 622, 1847.

*Cobus unctuosus. Cobus sing-sing.*

Alternative name *Kobus defassa unctuosus.*

Western Waterbuck.

*Hab.* West Africa : Senegambia to Nigeria.

*Figs.* Sclater & Thomas, Book of Antelopes, **2**, 1896, pl. 33. P. Z. S. 1904, **1**, p. 3, text-fig. 1 : photograph of hybrid.

A female presented 30 Nov. 1831, by Mr. R. W. Hay, died 24 Jan. 1843, having lived in the Gardens 11 years 1 month 24 days. One hybrid born in the Gardens 24 Oct. 1903, *C. unctuosus* ♂ × *C. ellipsiprymnus* ♀.

724. *Kobus lechè* J. E. Gray, Knowsley Menagerie, p. 23, 1850.

*Cobus lechée.*

Alternative name *Onotragus leche.*

Lechwe Waterbuck.

*Hab.* Southern tropical Africa: from Portuguese East Africa, through Nyasaland, Rhodesia and Bechuanaland, to Portuguese West Africa.

*Figs.* P. Z. S. 1850, Mamm. pl. 20, as *Adenota leché.* Sclater & Thomas, Book of Antelopes, **2**, 1896, pl. 42.

A female presented 1 March, 1859, by Sir George Grey, K.C.B.

One born in the Gardens 25 Dec. 1925.

725. *Kobus kob* (Erxleben), Syst. Regn. Anim. p. 293, 1777.

Alternative name *Adenota kob.*

Buffon's Kob Antelope.

*Hab.* West Africa: Senegambia to Nigeria.

*Figs.* Fraser, Zool. Typ. 1849, pl. 20, as *Antilope kob.* Sclater & Thomas, Book of Antelopes, **2**, 1896, pl. 40, as *Cobus kob.*

A pair of these Antelopes had been in the Exeter Change Menagerie, and a female in the Surrey Z. G., before 8 Oct. 1836, when a male, from the Gambia, was presented to our Collection by Mr. J. Foster; it died 19 Sept. 1839. For many years the species was unrepresented in the Gardens, till a male was deposited 2 June, 1904.

Genus **Saiga** J. E. Gray, List Mamm. Brit. Mus. p. xxvi, & **Siaga,** p. 160, 1843.

Species:

Page
1. *tatarica* ..... 288

726. *Saiga tatarica* (Linnaeus), Syst. Nat. **1**, p. 97, 1766.

Saiga Antelope.

*Hab.* Steppes of Russia and western Asia.

*Figs.* P. Z. S. 1867, pl. 17. Sclater & Thomas, Book of Antelopes, **3**, 1897, pl. 49.

A male received in exchange 21 Nov. 1864, from the Moscow Z. G.

Genus **Antilope** Pallas, Misc. Zool. p. 1, 1766.

Species :

Page
1. *cervicapra* ..... 289

727. *Antilope cervicapra* (Linnaeus), Syst. Nat. **1**, p. 69, 1758.

Indian Antelope. Blackbuck.

*Hab.* India.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1897, pl. 47.

The first individual received, a male albino, was from the Tower of London Menagerie; it arrived in Regent's Park 15 Sept. 1828, and died 15 Nov. 1828.

Fifteen born in the Gardens 1907–1927.

Genus **Gazella** Blainville, Bull. Soc. philom. Paris, p. 75, 1816. *v.* Thomas, Proc. Zool. Soc. London, 1924, p. 346.

Species :

Page
1. *subgutturosa* ..... 289
2. *bennettii* ..... 290
3. *cuvieri* ..... 290
4. *arabica* ..... 290
5. *muscatensis* ..... 291
6. *marica* ..... 291
7. *rufifrons* ..... 291
8. *leptoceros* ..... 292
9. *dorcas* ..... 292
10. *isabella* ..... 292
11. *pelzelni* ..... 293
12. *spekei* ..... 293
13. *tilonura* ..... 293
14. *granti* ..... 293
15. *soemmerringi* ..... 294
16. *dama* ..... 294
17. *mhorr* ..... 294
18. *ruficollis* ..... 295

728. *Gazella subgutturosa* (Güldenstaedt), Acta Ac. Sci. Petrop. p. 251, 1778, 1780.

Persian Gazelle.

*Hab.* Asia: from the country between Damascus and the Euphrates, through Persia, Afghanistan and Turkestan to the Altai.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 55.

First received in 1850.

Twelve born in the Gardens 1875–1926.

729. *Gazella bennettii* (Sykes), Proc. Zool. Soc. London, 1831, p. 104.

Indian Gazelle. Chinkara.

*Hab.* India.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 60.

Lord Stanley had an Indian Gazelle alive in 1833, but it is not certain if it was deposited in the Society's collection. A white individual was presented in 1850 by Mr. A. Elphinston, H.E.I.C. Civil Service, and an albino was purchased 4 May, 1868.

One born in the Gardens 30 Nov. 1883.

730. *Gazella cuvieri* (Ogilby), Proc. Zool. Soc. London, 1840, p. 35.

Cuvier's Gazelle.

*Hab.* Morocco, Algeria and Tunisia.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 58.

A female obtained at Mogador, and presented 15 June, 1839, by Mr. W. Willshire, C.M.Z.S., is the type of the species, named after Monsieur F. Cuvier. It died 1 Feb. 1840.

One born in the Gardens 3 April, 1859.

731. *Gazella arabica* (Lichtenstein), Darstellung, Säugth. pl. 6, 1827.

Arabian Gazelle.

*Hab.* Arabia: from Sinai to near Aden.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 59.

First received in 1848, or early in 1849.
One born in the Gardens in 1904.

732. *Gazella muscatensis* Brooke, Proc. Zool. Soc. London, 1874, p. 142.

Muscat Gazelle.

*Hab.* Eastern Arabia.

*Figs.* P. Z. S. 1874, pl. 22. Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 65.

A male presented 15 July, 1872, by Major C. B. Evan Smith, was the type of the species.
One born in the Gardens 6 March, 1882.

733. *Gazella marica* Thomas, Ann. Mag. Nat. Hist. (6) **19**, p. 162, 1897.

Marica Gazelle.

*Hab.* Central and east-central Arabia.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 56.

A female presented 19 Feb. 1900, by Mr. B. T. Ffinch, F.Z.S.
One born in the Gardens 12 June, 1927.

734. *Gazella rufifrons* J. E. Gray, Ann. Mag. Nat. Hist. (1) **18**, p. 214, 1846.

Korin Gazelle.

*Hab.* Tropical Africa: from Senegambia, through Nigeria and the Sudan, to the borders of Abyssinia.

*Figs.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 67. P. Z. S. 1912, p. 5, text-figs. 2 & 3: photographs, as *G. r. hasleri*.

First received in 1851. A male presented in 1908 by Col. J. Hasler was the type of *Gazella rufifrons hasleri* Pocock, P. Z. S. 1912, p. 5. The eastern form of this species, from the Anglo-Egyptian Sudan, may be called *G. r. laevipes*.

735. *Gazella leptoceros* (F. Cuvier), Hist. Nat. Mamm. **4**, livr. 72, pls. 424 & 425, 1842 *.

*Gazella loderi* P. Z. S. 1896, p. 780.

Slender-horned Gazelle.

*Hab.* North Africa: western desert of Egypt *G. leptoceros leptoceros*, and inner deserts of Tunisia and Algeria *G. leptoceros loderi*.

*Figs.* P. Z. S. 1894, pl. 32: *G. loderi* Thomas 1894. Anderson, Zool. Egypt, Mamm. 1902, pl. 61.

A female from Egypt presented 6 Aug. 1896, by the Giza Z. G.

736. *Gazella dorcas* (Linnaeus), Syst. Nat. **1**, p. 69, 1758.

Dorcas Gazelle.

*Hab.* Egypt and neighbouring countries, west to Tripoli and Tunisia, south to Kordofan, east to Palestine.

*Fig.* Anderson, Zool. Egypt, Mamm. 1902, pl. 60.

First received 4 June, 1830, when two, from Tripoli, were presented by Mr. Hamer Warrington.

Six born in the Gardens 1849–1859.

737. *Gazella isabella* J. E. Gray, Ann. Mag. Nat. Hist. (1) **18**, p. 214, 1846.

*Gazella littoralis* Blaine 1913.

Isabella Gazelle.

*Hab.* North-east Africa: eastern Nubia, Red Sea littoral and Abyssinia.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 64.

A female, from near Suakim, presented 14 July, 1892, by Major-General Sir Charles Holled Smith, K.C.M.G.

This "species" is probably composed of herd varieties of *Gazella dorcas*.

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* Vol. 4, pl. 374, in Z. S. L. Library.

738. *Gazella pelzelni* Kohl, Verhl. & Sitzber. zool.-bot Ges. Wien. **36**, p. 4, 1886.

Pelzeln's Gazelle.

*Hab.* Somaliland.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 62.

Five presented 26 Sept. 1912, by Dr. R. E. Drake-Brockman and Mr. A. Gibbs.

Apparently a local form of *Gazella dorcas*.

739. *Gazella spekei* Blyth, Cat. Mamm. Mus. Asiat. Soc. Bengal, p. 172, 1863.

Speke's Gazelle.

*Hab.* Somaliland.

*Figs.* P. Z. S. 1886, pl. 51: head only, as *Gazella naso* P. L. Sclater 1886. Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 61.

A young male presented 17 Nov. 1897, by Dr. L. de Gébert.

Speke's Gazelle is possibly a local race of *G. dorcas*, in which the slight soft puffy elevation on the nose has become particularly developed.

740. *Gazella tilonura* (Heuglin), Reise Weiss. Nil. p. 315, 1869.

Heuglin's Gazelle

*Hab.* Tropical north-east Africa: Abyssinia.

*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 66.

A male deposited 23 May, 1898.

This is a doubtful species.

741. *Gazella granti* Brooke, Proc. Zool. Soc. London, 1872, p. 601.

Grant's Gazelle.

*Hab.* East Africa: from Tanganyika Territory north to Abyssinia and the Mongalla Province of the Sudan: several local races.

*Figs.* P. Z. S. 1872, pl. 41; 1875, pl. 59: young female. Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 69.

A young female was presented 10 June, 1875, by Dr. J. Kirk, C.M.Z.S.

This species is named after Col. James A. Grant, C.B. (1827–1892).

742. *Gazella soemmerringi* (Cretzschmar), in Rüppell, Reise n. Afrika, Atlas, p. 49, 1826.

Ariel. Soemmering's Gazelle.

*Hab.* North-east Africa: Upper Nubia from east of the Nile to the Red Sea, the Blue Nile country and Abyssinia to Somaliland. Several local races, some well defined, have been named.

*Figs.* P. Z. S. 1867, pl. 37: young animals. Anderson, Zool. Egypt, Mamm. 1902, pl. 62.

A pair were purchased 21 Aug. 1867.

743. *Gazella dama* (Pallas), Misc. Zool. p. 5, 1766.

Dama Gazelle.

*Hab.* West Africa: desert country from Senegambia to northern Nigeria.

*Fig.* Buffon, Hist. Nat. **10**, 1769, pl. 24: "Le Nangner," uncoloured.

A pair purchased from the Antwerp Z. G. in 1865, the male being received 19 Aug., the female 16 Sept.

744. *Gazella mhorr* (E. T. Bennett), Proc. Zool. Soc. London, 1833, pp. 1 & 2.

Alternative name *Gazella dama mhorr*
*Gazella mohr* List, ed. 9, 1896, p. 156.

M'horr Gazelle.

*Hab.* North-west Africa: south-western Morocco.

*Figs.* T. Z. S. **1**, 1835, pl. 1, as *Antilope mhorr*. Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 72.

Two presented 8 Oct. 1832, by Mr. E. W. A. Drummond Hay, C.M.Z.S., for whom they had been obtained by Mr. W. Willshire, C.M.Z.S. One died 19 Dec. 1832, and was made the type of the species by Mr. Bennett. The second died 22 Feb. 1833.

745. *Gazella ruficollis* (H. Smith), in Griffith, Anim. Kingd. 4, p. 205, 1827.

Alternative name *Gazella dama ruficollis*.

Rŷl Gazelle. "Addra Gazelle."

*Hab.* Africa: Upper Nubia and Sudan, west of the Nile only.

*Fig.* Sclater & Thomas, Book of Antelopes, 3, 1898, pl. 71.

Three presented 4 June, 1910, by Mr. G. Blaine, F.Z.S., and Mr. G. G. Chetwynd, F.Z.S.

Genus **Antidorcas** Sundevall, K. Svenska Vet.-Ak. Handl. 1845, p. 271, 1847.

Species:

Page
1. *marsupialis* ..... 295

746. *Antidorcas marsupialis* (Zimmermann), Geogr. Gesch. 2, p. 427, 1780.

*Gazella euchore.*

Springbuck. Springbok.

*Hab.* South Africa: from the Cape Province northwards to Angola and to the Zambesi.

*Fig.* Sclater & Thomas, Book of Antelopes, 3, 1897, pl. 51.

First received in 1852, or early in 1853.

A female born in the Gardens 24 May, 1912.

Genus **Oryx** Blainville, Bull. Soc. philom. Paris, p. 75, 1816.

Species:

Page
1. *gazella* ..... 296
2. *beisa* ..... 296
3. *algazel* ..... 296
4. *leucoryx* ..... 297

747. *Oryx gazella* (Linnaeus), Syst. Nat. **1**, p. 67, 1758.

Gemsbok. South African Oryx.

*Hab.* South Africa, northwards to Mossamedes.

*Fig.* Sclater & Thomas, Book of Antelopes. **4**, 1899, pl. 83.

Three purchased 2 June, 1914.

748. *Oryx beisa* (Rüppell), Neue Wirbelth. Abyss. p. 14, 1835.

Beisa Oryx.

*Hab.* East Africa and Somaliland, north to Abyssinia and the southern part of the Red Sea Province of the Sudan.

*Fig.* Sclater & Thomas, Book of Antelopes, **4**, 1899, pl. 84.

A male presented 28 May, 1874, by Admiral Arthur Cumming was the first individual received.

Two born in the Gardens, one 12 April, 1881, one 15 Sept. 1885.

749. *Oryx algazel* (Oken), Lehrb. Naturges. **3**, pt. 2, p. 741, 1816.

*Oryx leucoryx* List, ed. 9, 1896, p. 158.

Scimitar-horned Oryx. Sabre-horned Oryx.

*Hab.* Northern tropical Africa : in semi-arid districts from Senegal to Dongola and Kordofan.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 23, & (2), 1867, pl. 19, as *Oryx leucoryx*. Sclater & Thomas, Book of Antelopes, **4**, 1899, pl. 81.

Two females, from the Egyptian Sudan, presented by H.H. Ibrahim Pasha, Viceroy of Egypt, arrived in the Gardens shortly before 10 July, 1849.

A male from Senegal, of the so-called Western form, was purchased 20 May, 1898.

Nine born in the Gardens 1852–1864.

750. *Oryx leucoryx* (Pallas), Spicil. Zool. **12**, p. 17, 1777.
*Oryx beatrix* List, ed. 9, 1896, p. 159.
Arabian Oryx. Princess Beatrice's Antelope.
*Hab.* Arabia.
*Figs.* P. Z. S. 1857, Mamm. pl. 55. Sclater & Thomas, Book of Antelopes, **4**, 1899, pl. 82, as *O. beatrix*.
A male presented June 1856, by Capt. John Shepherd, was the type of *Oryx beatrix* J. E. Gray, P.Z.S. 1857, p. 157.

Genus **Addax** Rafinesque, Analyse de la Nature, p. 56, 1815 *v.* Lydekker, Brit. Mus. Cat. Ung. **3**, p. 146, 1914.

Species :

Page
1. *nasomaculatus* ..... 297

751. *Addax nasomaculatus* (Blainville), Bull. Soc. philom. Paris, 1816, p. 75.
Addax Antelope.
*Hab.* North Africa : desert regions of the interior from Senegal on the west to Egypt, Nubia and Kordofan on the east.
*Fig.* Sclater & Thomas, Book of Antelopes, **3**, 1898, pl. 86.
Athough there were Addax living in the Knowsley Menagerie at least as early as 20 March, 1845, the first to arrive in our Gardens were a pair presented by H.H. Ibrahim Pasha, Viceroy of Egypt, shortly before 10 July, 1849.

Genus **Hippotragus** Sundevall, K. Svenska Vet.-Ak. Handl. 1844, p. 196, 1846.

Species :

Page
1. *equinus* ..... 298
2. *niger* ..... 298

752. *Hippotragus equinus* (Desmarest), Nouv. Dict. Hist. Nat. **24**, p. 4, 1804.

Roan Antelope.

*Hab.* South and tropical Africa: from the Orange River, in suitable country, north to Gambia in the west, and the White and Blue Niles in the east. Several local races can be recognized.

*Figs.* P. Z. S. 1868, pl. 16, as *Hippotragus bakeri*. Sclater & Thomas, Book of Antelopes, **4**, 1899, pls. 77 & 78.

A male received in exchange 24 Nov. 1878, is referable to *H. e. bakeri* Heuglin 1863.

A female presented in Nov. 1902 by Major C. F. Minchin, D.S.O., was *H. e. equinus*.

753. *Hippotragus niger* (Harris), Proc. Zool. Soc. London, 1838, p. 2.

Sable Antelope.

*Hab.* South and tropical Africa: from the Transvaal and Angola to British East Africa.

*Figs.* T. Z. S. **2**, 1841, pl. 36, as *Aigocerus niger*. Sclater & Thomas, Book of Antelopes, **4**, 1899, pls. 79 & 80.

A male received 7 Sept. 1861, was purchased ten days later from Capt Taylor.

Genus **Tragelaphus** Blainville, Bull. Soc. philom. Paris, 1816, p. 75.

Species:


| | | Page |
|---|---|---|
| 1. | *scriptus* | 298 |
| 2. | *sylvaticus* | 299 |
| 3. | *spekii* | 299 |
| 4. | *gratus* | 300 |
| 5. | *selousi* | 300 |


754. *Tragelaphus scriptus* (Pallas), Misc. Zool. p. 8, 1766.

Alternative name *Tragelaphus scriptus scriptus*.

Harnessed Antelope. Guib Bushbuck.

*Hab.* West Africa: Senegambia, with allied forms extending far to the east and south-east.

*Fig.* Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 89.

A female lived for some months in 1832 in the Dublin Z. G. The first one received in Regent's Park was on 22 May, 1835 : it died 18 Oct. 1835.

A female born in the Gardens 14 Dec. 1899.

755. *Tragelaphus sylvaticus* (Sparrman), K. Vet.-Ak. Handl. Stockholm, 1780, p. 197.

Alternative name *Tragelaphus scriptus sylvaticus.*

Bushbuck. Boschbok.

*Hab.* South and south-eastern Africa : from the Cape Province to Portuguese East Africa, and possibly to further north.

*Fig.* Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 90, fig. 2.

A female presented 11 April, 1859, by Sir George Grey, K.C.B.

A male born in the Gardens 8 Nov. 1900.

756. *Tragelaphus spekii* P. L. Sclater, in Speke, Journal of Discovery, p. 223, 1863.

Alternative name *Limnotragus spekii.*

Speke's Sitatunga, or Marsh-Buck.

*Hab.* Tropical East Africa : from the Bahr el Ghazal to Tanganyika Territory.

*Figs.* P.Z.S. 1864, pl. 12. Sclater & Thomas, Book of Antelopes. **4**, 1900, pl. 93.

A male deposited 27 June, 1904, was the first individual in the collection, as the Antelopes received 14 Oct. 1890, and 24 June, 1899, and called *T. spekei*, were both from the Lake Ngami district, and were, later, assigned by Mr. P. L. Sclater to *T. selousi.*

757. *Tragelaphus gratus* P. L. Sclater, Proc. Zool. Soc. London, 1880, p. 452.

Alternative name *Limnotragus gratus*.

West African Marsh-Buck. Pleasant Antelope.

*Hab.* West Africa: from the Cameroons to Benguela.

*Figs.* P. Z. S. 1880, pl. 44; 1883, pl. 8. Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 95.

A female purchased 18 June, 1885, was the first received.

Three born in the Gardens 1907–1910.

Two hybrids born in the Gardens, *T. gratus* ♂ × *T. selousi* ♀, one 12 Feb. 1896, and one 28 Feb. 1897.

758. *Tragelaphus selousi* Rothschild, Novit. Zool. Tring, **5**, p. 206, 1898.

Alternative name *Limnotragus selousi*.

Selous's Sitatunga, or Marsh-Buck.

*Hab.* Southern Tropical Africa: the Zambesi valley, Lake Ngami, etc.

*Fig.* P. Z. S. 1890, pl. 47: female, as *T. spekei*. Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 94.

The first received was a female presented 14 Oct. 1890, by Mr. J. A. Nicolls, F.Z.S.

Genus **Strepsiceros** H. Smith, in Griffith, Anim. Kingd. **5**, p. 365, 1827.

Species:


| | Page |
|---|---|
| 1. *strepsiceros* | 300 |
| 2. *imberbis* | 301 |


759. *Strepsiceros strepsiceros* (Pallas), Misc. Zool. p. 9, 1766.

*Strepsiceros kudu. Strepsiceros capensis.*

Greater Kudu, or Koodoo.

*Hab.* Africa: from the Cape northwards to the Anglo-Egyptian Sudan. Differences in size, horns, colour and markings occur, but attempts to divide the species into geographical races have been so far unsatisfactory.

*Fig.* Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 96.

The first Kudu received was a female from South Africa, presented 26 May, 1861, by Sir George Grey, K C B. A male purchased 16 July, 1868, had been collected by Sign. Casanova, near Kassala, so may have represented *Strepsiceros strepsiceros chora* (Cretzschmar) 1826.

760. *Strepsiceros imberbis* Blyth, Proc. Zool. Soc. London, 1869, p. 55.

Lesser Kudu.

*Hab.* Somaliland, extending into Abyssinia and East Africa.

*Figs.* P. Z. S. 1884, pl. 4. Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 97.

A male received in exchange 7 April, 1886, was from the private menagerie of Monsieur J. M. Cornély at the Chateau Beaujardin, Tours.

Genus **Taurotragus** Wagner, in Schreber, Säugth. Suppl. **5**, p. 438, 1855.

Species:

1. *oryx* ..... Page 301

761. *Taurotragus oryx* (Pallas), Misc. Zool. p. 9, 1766.

*Orias canna. Oreas canna.*

Eland Antelope.

*Hab.* South Africa.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 21.

Elands were first imported alive into England in 1840 by the Earl of Derby, President of the Zoological Society 1831–1851, who bequeathed five

to the Society. These arrived in the Gardens 6 Dec. 1851 ; there were two young pairs imported from Africa and one female that had bred at Knowsley about 1844 or 1846. This bequest was the origin of the Society's Eland herd, other imported animals being added later.
Eighty-seven born in the Gardens 1853–1926.

761 *a*. *Taurotragus oryx livingstonii* (P. L. Sclater), Proc. Zool. Soc. London, 1864, p. 105.

*Orias canna livingstonii*.

Livingstone's Eland Antelope.

*Hab*. East Africa.

*Fig*. Sclater & Thomas, Book of Antelopes, **4**, 1900, pl. 99.

A female purchased 10 July, 1894.
Named after its discoverer, Dr. David Livingstone (1813–1873).

Genus **Tetracerus** Leach, Trans. Linn. Soc. London, **14**, p. 524, 1823–1825.

Species:

1. *quadricornis* ..... Page 302

762. *Tetracerus quadricornis* (Blainville), Bull. Soc. philom. Paris, p. 78, 1816.

*Tetraceros quadricornis* List. ed. 9, 1896, p. 152.

Four-horned Antelope.

*Hab*. India.

*Fig*. Sclater & Thomas, Book of Antelopes, **1**, 1895, pl. 24.

First received in 1851. A male purchased 8 June, 1875, was referred to *Tetracerus subquadricornis*.
Seven born in the Gardens 1882–1905.

Genus **Boselaphus** Blainville, Bull. Soc. philom. Paris, p. 75, 1816.

Species:

Page
1. *tragocamelus* ..... 303

763. *Boselaphus tragocamelus* (Pallas), Misc. Zool. p. 5, 1766.

Nylghaie.

*Hab.* India.

*Fig.* Sclater & Thomas, Book of Antelopes, 4, 1900, pl. 87.

A male purchased 13 July, 1829.

One was born at the Society's farm at Kingston in Jan. 1831, and at least sixty-one have been born in the Gardens 1832–1927.

## Family ANTILOCAPRIDAE.

Genus:

Page
1. *Antilocapra* ..... 303

Genus **Antilocapra** Ord, Journal de Physique, 87, p. 149, 1818.

Species:

Page
1. *americana* ..... 303

764. *Antilocapra americana* (Ord), Guthrie's Geography, 2nd Amer. ed. 2, pp. 292, 308, 1815.

Pronghorn. Pronghorned Antelope.

*Hab.* North America: middle west and western United States, extending south into Lower California and Mexico.

*Figs.* Audubon & Bachman, Quadr. N. Amer. 2, 1851, pl. 77. P.Z.S. 1865, pl. 3, ♂ juv.

A young male purchased 21 Jan. 1865, was the first received.

## Family GIRAFFIDAE *.

Genus :

1. *Giraffa* ..... Page 304

### Genus **Giraffa** Zimmermann, Geogr. Gesch. 2, p. 125, 1780.

Species :

1. *camelopardalis* ..... Page 304

765. *Giraffa camelopardalis* (Linnaeus), Syst. Nat. **1**, p. 66, 1758.

Giraffe.

*Hab.* Africa : in suitable localities from the Orange River north to Senegambia, northern Nigeria and the Anglo-Egyptian Sudan. Several specific and subspecific names have been given to more or less stable local races.

*Fig.* P. Z. S. 1904, **1**, pls. 9–16.

The first received were three males and a female from the Sudan which arrived 24 May, 1836. The first dates recorded from other localities are—S.E. Africa 26 Feb. 1895, Bechuanaland 20 Aug. 1897, Senegal 6 July 1898, and northern Nigeria 7 April, 1905. Twenty-one born in the Gardens 1839–1914.

## Family MOSCHIDAE.

Genus :

1. *Moschus* ..... Page 304

### Genus **Moschus** Linnaeus, Syst. Nat. **1**, p. 66, 1758.

Species :

1. *moschiferus* ..... Page 305

* *Okapia*, the second existing genus of this family, has not yet been alive in the Gardens, 31 Dec. 1927.

766. *Moschus moschiferus* Linnaeus, Syst. Nat. 1, p. 66, 1758.

Musk-Deer.

*Hab.* Highlands of central and eastern Asia: from Gilgit and Kashmir to Siberia, Korea, China and Cochin China.

*Fig.* Garden Guide, 1881, p. 58, reproduced List, ed. 9, 1896, p. 171, fig. 28: uncoloured.

The first Musk-Deer ever brought alive to Europe was a female presented to the Society 31 March, 1869, by Col. F. R. Pollock (afterwards Sir Richard Pollock, K.C.S.I., H.M.Z.S.): it died 27 Oct. 1869.

## Family CERVIDAE.*

Genera:


| | Page | | Page |
|---|---|---|---|
| 1. *Muntiacus* | 305 | 11. *Odocoileus* | 318 |
| 2. *Elaphodus* | 307 | 12. *Blastocerus* | 322 |
| 3. *Dama* | 308 | 13. *Hippocamelus* | 322 |
| 4. *Axis* | 309 | 14. *Mazama* | 323 |
| 5. *Hyelaphus* | 309 | 15. *Pudu* | 325 |
| 6. *Rusa* | 310 | 16. *Capreolus* | 325 |
| 7. *Rucervus* | 313 | 17. *Alces* | 326 |
| 8. *Sika* | 314 | 18. *Rangifer* | 327 |
| 9. *Cervus* | 315 | 19. *Hydropotes* | 327 |
| 10. *Elaphurus* | 318 | | |


### Genus **Muntiacus** Rafinesque, Analyse de la Nature, p. 56, 1815.

Species:


| | Page |
|---|---|
| 1. *muntjak* | 305 |
| 2. *lacrymans* | 306 |
| 3. *reevesi* | 306 |
| 4. *micrurus* | 307 |
| 5. *crinifrons* | 307 |


767. *Muntiacus muntjak* (Zimmermann), Geogr. Gesch. 2, p. 131, 1780.

*Cervulus muntjak.*

Muntjac. Kakar. Barking Deer. Rib-faced Deer.

* The division into species of the Cervidæ is, in several genera, provisional.

*Hab.* East Indies: typically from Java; the range includes the Malay Peninsula and Islands, Burma, India, Ceylon, Siam and Cochin-China.

*Figs.* Horsfield, Zool. Research. Java, 1824, pl. 33. Brit. Mus. Cat. Ung. 4, 1915, p. 13, fig. 3: head only, uncoloured.

First received 18 July, 1829.

Three subspecies have been recognized in the collection: *M. m. muntjak* from Java, *M. m. grandicornis* from Burma, and *M. m. vaginalis* from India.

Twenty-six (representing these three subspecies) born in the Gardens 1876–1927.

768. *Muntiacus lacrymans* (A. Milne Edwards), Arch. Mus. Hist. Nat. Paris, **7**, Bull. p. 93, 1871.

*Cervulus lacrymans.*

Crying Muntjac.

*Hab.* China.

*Fig.* P. Z. S. 1874, pl. 8, as *Cervulus sclateri.*

Two males purchased 29 May, 1874, appear to have been of the form now called *Muntiacus lacrymans sclateri* (Swinhoe), P. Z. S. 1872, p. 814.

Three hybrids born in the Gardens, *M. lacrymans* ♂ × *M. muntjak* ♀, 1881–1882.

769. *Muntiacus reevesi* (Ogilby), Proc. Zool. Soc. London, 1838, p. 105.

*Cervulus reevesi.*

Reeves's Muntjac.

*Hab.* China.

*Fig.* P. Z. S. 1874, pl. 9.

Mr. John Russell Reeves presented a pair 26 May, 1838; the male died died 8 Aug. 1838, the female gave birth to a fawn 15 July, 1838, but died 31 Aug. 1838. The male was made the type of the species by Mr. Ogilby.

Thirteen born in the Gardens 1838–1881.

770. *Muntiacus micrurus* (P. L. Sclater), Proc. Zool. Soc. London, 1875, p 421.

*Cervulus micrurus.*

Alternative name *Muntiacus reevesi micrurus.*

Formosan Muntjac.

*Hab.* Formosa.

*Fig.* P. Z. S. 1875, pl. 51, fig. 1, and fig. 2 (young hybrid).

A pair purchased 19 Aug. 1867, were the first received, but the types of *micrurus* were a female purchased 27 Feb. 1874, and a male purchased 29 May, 1874.

Two female hybrids, *Muntiacus micrurus* ♂ × *Muntiacus reevesi* ♀, born in the Gardens, one 13 July, 1874, one 27 May, 1875.

771. *Muntiacus crinifrons* (P. L. Sclater), Proc. Zool. Soc. London, 1885, p. 1.

*Cervulus crinifrons.*

Hairy-fronted Muntjac.

*Hab.* China.

*Fig.* P. Z. S. 1885, pl. 1.

The first received, and type of the species, was a male purchased 20 Dec. 1884, which had been deposited by Mr. H. E. Dresser, F. Z. S., who had obtained it from Mr. A. Mitchie.

Genus **Elaphodus** A. Milne Edwards, Arch. Mus. Hist. Nat. Paris, **7**, Bull. p. 93, 1871.

Species :

Page
1. *cephalophus* ..... 307

772. *Elaphodus cephalophus* A. Milne Edwards, Arch. Mus. Hist. Nat. Paris, **7**, Bull. p. 93, 1871.

Tufted Deer.

*Hab.* China : from Szechuan in the west to Chekiang and Fukien in the east.

*Fig.* P. Z. S. 1874, pl. 59 ; 1876, pl. 76 (head only, uncoloured).

A male purchased, for £35, 12 Feb. 1876, which died 14 July, 1876, was an example of Mitchie's Tufted Deer, *Elaphodus cephalophus michianus* (Swinhoe), P. Z. S. 1874, p, 452.

Genus **Dama** H. Smith, in Griffith, Anim. Kingd. **5**, p. 306, 1827.

Species :

Page
1. *dama* ..... 773
2. *mesopotamica* ..... 773

773. *Dama dama* (Linnaeus), Syst. Nat. **1**, p. 67, 1758.

*Dama vulgaris.*

Fallow Deer.

*Hab.* Mediterranean region of Europe and Asia Minor ; semi-domesticated in central Europe as far north as England and southern Sweden.

*Fig.* Millais, Mamm. Gt. Britain, **3**, 1906, pl. 56.

First received 11 June, 1830.

One from the Island of Rhodes was received 7 Dec. 1864.

Several born in the Gardens 1837–1916.

774. *Dama mesopotamica* (Brooke), Proc. Zool. Soc. London, 1875, p. 261.

Persian Fallow Deer.

*Hab.* Persia.

*Fig.* P. Z. S. 1875, pl. 38.

The first received was a male purchased, for £50, 28 May, 1877.

Six born in the Gardens 1880–1887, and seven hybrids, *C. mesopotamica* ♂ × *C. dama* ♀, 1871–1885 (including two ¾-bred *mesopotamica*).

Genus **Axis** H. Smith, in Griffith, Anim. Kingd. **5**, p. 312, 1827.

Species :

Page
1. *axis* ..... 309

775. *Axis axis* (Erxleben), Syst. Regn. Anim. p. 312, 1777.

*Cervus axis.*

Chital, or Spotted Deer.

*Hab.* India and Ceylon.

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 13.

First received 9 May, 1829. At least seventy-three born in the Gardens 1835–1926.

*Synonyms.* The type of *C. nudipalpebra* Ogilby 1831, the "Black Axis Deer," was presented by King William IV; before coming to the Society's Gardens it had lived in the Tower of London Menagerie. The Ceylon race has been considered a separate subspecies, *Axis axis ceylonensis* (Fitzinger) 1874.

Genus **Hyelaphus** Sundevall, K. Svenska Vet.-Ak. Handl. 1844, p. 180, 1846.

Species:

Page
1. *porcinus* ..... 309

776. *Hyelaphus porcinus* (Zimmermann), Spec. Zool. Geogr. p. 532, 1777.

*Cervus porcinus. Cervus minor.*

Hog Deer.

*Hab.* India, Burma, Siam and Annam.

*Figs.* Knowsley Menagerie, 1850, pl. 42. Arch. Mus. Hist. Nat. Paris, **6**, 1852, pl. 28.

One presented 6 Febr. 1831. Two of a white variety were purchased 3 May, 1839.

Fifty-four born in the Gardens 1848–1927: young have been born in every month of the year.

Genus **Rusa** H. Smith, in Griffith, Anim. Kingd. 4, p. 108, 1827.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *kuhlii* | 310 | 6. *unicolor* | 311 |
| 2. *alfredi* | 310 | 7. *swinhoii* | 312 |
| 3. *timoriensis* | 310 | 8. *philippinus* | 312 |
| 4. *moluccensis* | 311 | 9. *nigricans* | 312 |
| 5. *tunjuc* | 311 | | |


777. *Rusa kuhlii* (S. Müller & Schlegel), in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. p. 223, 1839–1844.

*Cervus kuhli.*

Kuhl's Deer.

*Hab.* Bavian Islands, Malay Archipelago.

*Fig.* S. Müller & Schlegel, *l.c.s.* pl. 44 = *Rusa tunjuc?*

First received 5 July, 1865, when a pair were purchased from the Amsterdam Z. G.

778. *Rusa alfredi* (P. L. Sclater), Proc. Zool. Soc London, 1870, p. 381.

*Cervus alfredi.*

Prince Alfred's Deer.

*Hab.* Philippine Islands.

*Fig.* P. Z. S. 1870, pl. 28.

The type was a male presented 5 May, 1870, by H.R.H. Prince Alfred, Duke of Edinburgh.

Four born in the Gardens 1871–1875. Also two hybrid Deer were born in the Gardens, 26 Dec. 1871, and 29 Dec. 1872, respectively, between *Cervus alfredi* ♂ and *Cervus nigricans* ♀, both parents being the type individuals of their respective species.

779. *Rusa timoriensis* (Blainville), Journ. Phys. p. 267, 1822. *v.* Lydekker, Brit. Mus. Cat. Ung. 4, p. 63, 1915.

*Cervus timoriensis.*

Timor Deer.

*Hab.* Timor and neighbouring islands, Malay Archipelago.

*Fig.* Jardine, Nat. Libr. Mamm. **3**, pl. 12, 1835, as *Rusa peronii*.

A pair presented 13 Dec. 1864, by Capt. Lewis Brayley.

780. *Rusa moluccensis* (Quoy & Gaimard), Voy. Astrolabe, Zool. **1**, p. 133, 1830.

*Cervus moluccensis.*

Molucca Deer.

*Hab.* Molucca Islands, Malay Archipelago.

*Figs.* Voy. Astrolabe, Zool. Atlas, 1833, pl. 24. Lydekker, Deer of All Lands, 1898, pl. 12.

Appears to have been first received 14 Jan. 1850.

Twenty-one born in the Gardens 1863–1893.

781. *Rusa tunjuc* (Vigors & Horsfield), in Lady Raffles, Memoir of Sir Stamford Raffles, p. 645, 1830. *v.* Lydekker, Brit. Mus. Cat. Ung. **4**, p. 67, 1915.

*Cervus hippelaphus* F. Cuvier 1819, *nec* Kerr 1792.

Javan Rusa Deer.

*Hab.* Sumatra and Java: introduced into Mauritius and Rodriguez.

*Fig.*

First received in, or before, 1849.

Three, from Mauritius, presented 25 Oct. 1894, by Admiral Kennedy, F.Z.S., represented *Rusa paradoxa* Brehm 1864.

Three born in the Gardens 1849–1857.

782. *Rusa unicolor* (Kerr), Anim. Kingd. p. 300, 1792.

*Cervus unicolor. C. aristotelis. C. equinus.*

Sambar. Rusa (in Malaya). Elk (in Ceylon).

*Hab.* South-eastern Asia : from India and Ceylon to Hainan and Cambodia, and south through the Malay Peninsula to Sumatra and Borneo. Various local races have been given specific or subspecific names.

*Figs.* Wolf, Zool. Sketches (2) 1867, pl. 16. Lydekker, Deer of All Lands, 1898, pls. 10 & 11.

Sambar were first received before 29 April, 1830. Fifty-four born in the Gardens 1836–1925.

783. *Rusa swinhoi* (P. L. Sclater), Proc. Zool. Soc. London, 1862, pp. 150–152.

*Cervus swinhoii.*

Swinhoe's Deer.

*Hab.* Formosa.

*Figs.* P. Z. S. 1862, pl. 17. Wolf, Zool. Sketches (2) 1867, pl. 17.

A male presented 28 April, 1862, by Mr. R. Swinhoe, F.Z.S., is the type of the species.

784. *Rusa philippinus* (H. Smith), in Griffith, Anim. Kingd. 4, p. 147, 1827.

*Cervus philippinus.*

Philippine Deer.

*Hab.* Philippine Islands.

*Fig.* P. Z. S. 1877, pl. 8.

Although a pair were received alive in Paris in 1851, this species does not appear to have been represented in our Gardens till 17 June, 1875, when a male was purchased.

785. *Rusa nigricans* (Brooke), Proc. Zool. Soc. London, 1877, p. 57.

*Cervus nigricans.*

Blackish Deer.

*Hab.* Philippine Islands.

*Fig.* P. Z. S. 1877, pl. 9.

A female Deer purchased 13 April, 1870, and registered as *C. marianus*, was made the type of *C. nigricans* by the late Sir Victor Brooke, Bart.

Genus **Rucervus** Hodgson, Ann. Mag. Nat. Hist. (1) **1**, p. 154, 1838.

Species:


| | Page |
|---|---|
| 1. *duvaucelii* | 313 |
| 2. *schomburgki* | 313 |
| 3. *eldii* | 313 |


786. *Rucervus duvaucelii* (G. Cuvier), Ossemens Fossiles, ed. 3, **4**, p. 505, 1825.

*Cervus duvauceli.*

Swamp-Deer. Barasingha.

*Hab.* India.

*Figs.* T. Z. S. **7**, 1872, pl. 36. Lydekker, Deer of All Lands, 1898, pl. 14.

First received between 29 April, 1836, and 29 April, 1837, as *Cervus elaphoïdes* Hodgson 1835.

Seven born in the Gardens 1858–1912.

787. *Rucervus schomburgki* (Blyth), Proc. Zool. Soc. London, 1863, p. 155.

*Cervus schomburgki.*

Schomburgk's Deer.

*Hab.* Siam and Yunnan.

*Fig.* P. Z. S. 1877, p. 682: head, uncoloured. Brit. Mus. Cat. Ung. **4**, 1915, p. 98, fig. 19: skull and antlers.

A male, born 15 July, 1873, in the Hamburg Z. G., was received in exchange 1 December, 1873.

788. *Rucervus eldii* (M'Clelland), Calcutta J. Nat. Hist. **2**, p. 417, 1842.

*Cervus eldi.*

Eld's Deer. Panolia Deer. Thamin, or Thameng.

*Hab.* South-east Asia: Manipur, Burma, Siam and French Indo-China.

Three, or more, local races according to Lydekker, Brit. Mus. Cat. Ung. **4**, 1915, pp. 100–105.

*Figs.* T. Z. S. 7, 1872, pls. 37 & 38. Lydekker, Deer of All Lands, 1898, pl. 15.

A male presented 6 Aug. 1867, by Mr. A. Grote, F.Z.S.

Four born in the Gardens 1922–1925.

Genus **Sika** P. L. Sclater, Proc. Zool. Soc. London, 1870, p. 115.

Species :


| | | Page |
|---|---|---|
| 1. | *nippon* | 314 |
| 2. | *mantchuricus* | 314 |
| 3. | *taiouanus* | 315 |
| 4. | *hortulorum* | 315 |


789. *Sika nippon* (Temminck), Coup d'oeil sur la faune ... Japon, p. xxii. 1837. *v.* Stejneger, Science, N.Y. 22, pp. 402, 403, 1905.

*Cervus sika.*

Sika, or Japanese Deer.

*Hab.* Japan.

*Fig.* Wolf, Zool. Sketches (2) 1867, pl. 15.

First received 21 July, 1860, when a pair brought to England by Capt. D. Rees, of the ship 'Sir F. Williams,' were presented by Mr. J. Wilks : these were the types of *Rusa japonica* Gray 1861. A male purchased 27 Feb. 1874, was the type of *Cervus euopis* Swinhoe 1874.

Eighty-nine born in the Gardens 1861–1900, eighty-one of these being born in the months of May, June and July.

Twenty-six born in the Gardens 1901–1922.

790. *Sika mantchuricus* (Swinhoe), Proc. Zool. Soc. London, 1864, p. 169.

*Cervus mantchuricus.*

Mantchurian Deer.

*Hab.* North-eastern Asia : Manchuria.

*Figs.* Wolf, Zool. Sketches (2) 1867, pl. 13. Lydekker, Deer of All Lands, 1898, pl. 7.

A male presented 2 July, 1864, by Mr. R. Swinhoe, F.Z.S., is the type of the species.

791. *Sika taiouanus* (Blyth), J. Asiat. Soc. Bengal **29**, p. 90, 1860.

*Cervus taëvanus.*

Formosan Deer.

*Hab.* Formosa.

*Figs.* P. Z. S. 1862, pl. 16. Wolf, Zool. Sketches (2) 1867, pl. 14. Lydekker, Deer of All Lands, 1898, pl. 8.

A male presented 9 Dec. 1861, by Mr. R. Swinhoe, F.Z.S.

One born in the Gardens 21 July, 1868, and five hybrids, *Sika nippon* ♂ × *S. taiouanus* ♀, born 1904–1908.

792. *Sika hortulorum* (Swinhoe), Proc. Zool. Soc. London, 1864, p. 169.

*Cervus hortulorum.*

Pekin Deer. Dybowski's Deer.

*Hab.* North-eastern Asia: China and Manchuria.

*Figs.* P. Z. S. 1897, pl. 1. Lydekker, Deer of All Lands, 1898, pl. 9.

The first received were a pair presented 23 Feb. 1911, by Sir Edmund Loder, Bart., F.Z.S.

Five born in the Gardens 1911–1914.

Genus **Cervus** Linnaeus, Syst. Nat. **1**, p. 66, 1758.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *elaphus* | 315 | 5. *bactrianus* | 317 |
| 2. *canadensis* | 316 | 6. *wallichii* | 317 |
| 3. *xanthopygus* | 316 | 7. *hanglu* | 318 |
| 4. *songaricus* | 317 | | |


793. *Cervus elaphus* Linnaeus, Syst. Nat. **1**, p. 67, 1758.

Red Deer.

*Hab.* Europe, western Asia, north-western Africa: from Spain, Ireland and Norway to Asia Minor, Caucasia and Persia, and in Algeria and Tunisia.

Not found in peninsular Italy. Exterminated in places, introduced into others, the range of the species has been modified by human agency. Many races exist.

*Figs.* Thorburn, Millais, in Millais, Mamm. Gt. Britain, 3, 1906, pls. 20 & 54. Wolf, Zool. Sketches (2) 1867, pl. 12 : "Persian Deer" = *C. e. maral.*

First received 19 Oct. 1829, probably of the race now known as *C. e. scoticus* Lönnberg 1906. The Barbary Deer *C. e. barbarus* Bennett 1837, was first represented 19 Oct. 1832, when one was presented by Mr. E. W. A. Drummond Hay ; the Persian race, *C. e. maral* Ogilby 1840, by its types, presented 16 Jan. 1840, by Sir John McNeill.

At least forty-two born in the Gardens 1843–1913.

794. *Cervus canadensis* Erxleben, Syst. Regn. Anim. 1, p. 305, 1777.

Wapiti Deer. "Elk" in America.

*Hab.* North America : Canada and United States.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 19.

One presented 24 July, 1829, by King George IV.

At least sixty-three born in the Gardens 1848–1927.

The Western Wapiti, *Cervus canadensis occidentalis* H. Smith 1827, has also been in the collection, the first received being a male, from Oregon, purchased 16 April, 1863.

795. *Cervus xanthopygus* A. Milne Edwards, Ann. Sci. Nat. Zool. (5) 8, p. 376, 1867, 1869.

*Cervus luehdorfi* List ed. 9, p. 174, 1896.

Isubra Deer. Lühdorf's Deer. Duke of Bedford's Deer.

*Hab.* North-eastern Asia : Manchuria.

*Figs.* P. Z. S. 1896, pls. 48, 49. Lydekker, Deer of All Lands, 1898, pl. 3.

A male, born 17 Aug. 1877, in the Hamburg Z. G., was purchased 30 May, 1880.

Four born in the Gardens 1901–1906, and four hybrids with *C. canadensis* ♀ 1883–1886.
Synonym. *Cervus bedfordianus* Lydekker, P.Z.S. 1896, p. 932.

796. *Cervus songaricus* Severtzow, Turk. Jevot. p. 109, 1873. *v.* Lydekker, Brit. Mus. Cat. Ung. **4**, p. 136, 1915.
*Cervus eustephanus.*
Altai Deer.
*Hab.* Central Asia : Altai, Tien-Shan, etc.
*Fig.* Lydekker, Deer of All Lands, 1898, pl. 6, as *Cervus canadensis asiatus.*
First received—a male and two females deposited 10 Aug. 1897.
Six born in the Gardens 1900–1907.
Alternative names *Cervus canadensis songaricus* or *C. c. baicalensis* Lydekker 1915.

797. *Cervus bactrianus* Lydekker, Ann. Mag. Nat. Hist. (7) **5**, p. 195, 1900.
Turkestan Deer.
*Hab.* West central Asia : Turkestan and Bokhara?
*Fig.* Lydekker, Deer of All Lands, 1898, p. 109, fig. 28 : photograph.
Two males presented 23 Feb. 1904, by the Duke of Bedford, K.G., P.Z.S.
Alternative name *Cervus canadensis bactrianus.*

798. *Cervus wallichii* G. Cuvier, Ossemens Fossiles, ed. 3, **4**, p. 505, 1825.
Wallich's Deer.
*Hab.* Tibet.
*Figs.* Jardine, Nat. Libr. Mamm. **3**, 1835, pl. 10. Pocock, P.Z.S. 1912, pp. 559–565, figs. 66–69 : photograph.
First received 13 March, 1912, when a stag was presented by H.M. King George V.

799. *Cervus hanglu* Wagner, Schreber, Säugth. Suppl. 4, p. 352, 1844.

*Cervus cashmiriensis.* *Cervus cashmeerianus.*

Hangul Deer.

*Hab.* Kashmir.

*Figs.* T. Z. S. 7, 1870, pl. 30. Lydekker, Deer of All Lands, 1898, pl. 4.

A male presented 24 Nov. 1865, by Capt. M. H. S. Lloyd, 89th Regt.

Two born in the Gardens on 6 July, 1916, and 9 July, 1927, respectively.

Genus **Elaphurus** A. Milne Edwards, C. R. Acad. Sci. Paris, **62**, p. 1091, 14 May, 1866.

Species:

1. *davidianus* ..... Page 318

800. *Elaphurus davidianus* A. Milne Edwards, C. R. Acad. Sci. Paris, **62**, p. 1091, 14 May, 1866.

*Cervus davidianus* List, ed. 9, p. 176, 1896.

Mi-lu. Père David's Deer.

*Hab.* Northern China: known only from individuals in semi-captivity.

*Fig.* A. Milne Edwards, Nouv. Arch. Mus. Hist. Nat. Paris, **2**, 1866, Bull. pl. 4. Lydekker, Deer of All Lands, 1898, pl. 19.

A pair presented 2 Aug. 1869, by Sir Rutherford Alcock, K.C.B., C.M.Z S.

A hybrid between this species and *Cervus elaphus* was deposited in the Gardens 29 Dec. 1906.

Genus **Odocoileus** Rafinesque, Atlantic Journal, **1**, p. 109, 1832. *v.* Miller, N. Amer. Mamm. p. 484, 1923.

Species:

1. *columbianus* ..... Page 319
2. *hemionus* ..... 319
3. *leucurus* ..... 319
4. *mexicanus* ..... 320
5. *toltecus* ..... 320
6. *virginianus* ..... 320
7. *gymnotis* ..... 321
8. *spinosus* ..... 321
9. *peruvianus* ..... 321

801. *Odocoileus columbianus* (Richardson), Fauna Boreali-Americana, **1**, p. 257, 1829.

Columbian Black-tailed Deer.

*Hab.* Western North America: California and Oregon to Alaska.

*Figs.* P. Z. S. 1850, Mamm. pl. 28, as *Cariacus punctulatus*. Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 106, as *Cervus richardsonii*.

One presented 17 June, 1831, by Lord Sherborne.

A female received in 1850 was described as *Cariacus punctulatus*, "The Californian Roe," by Dr. J. E. Gray, 26 Nov. 1850, P. Z. S. 1850, p. 239.

802. *Odocoileus hemionus* (Rafinesque), Amer. Monthly Mag. **1**, p. 436, 1817. *v.* Miller, N. Amer. Mamm. p. 485, 1923.

*Cariacus macrotis*.

Mule-Deer.

*Hab.* North America: typically from South Dakota, extends through the western United States to Lower California and Mexico.

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 21, as *Mazama hemionus*.

A male presented 12 March, 1879 by Dr. J. D. Caton, appears to have been the first received.

Thirty-five born in the Gardens 1883–1895, and one hybrid between a male *O. mexicanus* and a female of this species 3 Aug. 1899.

803. *Odocoileus leucurus* (Douglas), Zool. Journ. **4**, p. 330, 1829.

*Cariacus leucurus*.

White-tailed Deer. Long-tailed Deer.

*Hab.* Western North America: Washington, Oregon and California.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 118, as *Cervus leucurus*. Wolf, Zool. Sketches, 1861, pl. 20.

First received between 29 April, 1837 and 30 April, 1838.

The male figured by Wolf lived for several years at Knowsley before it was transferred to the London Z. G. in 1851.

804. *Odocoileus mexicanus* (Zimmermann), Spec. Zool. Geogr. p. 533, 1777.

*Cariacus mexicanus.*

Mexican Deer.

*Hab.* Mexico.

*Fig.* Knowsley Menagerie, 1850, pl. 46, as *Mazama mexicana* : uncoloured.

Appears to have been received first in 1838 or 1839. Deer from Yucatan, Honduras, Vera Cruz, Venezuela, Peru and St. Croix, West Indies, received at the Gardens at various dates, have been registered as of this species.

Eight born in the Gardens 1864–1871.

805. *Odocoileus toltecus* (Saussure), Rev. Mag. Zool. (2) **12**, p. 247, 1860. *v.* Miller, N. Amer. Mamm. p. 488, 1923.

*Cariacus toltecus.*

Toltec Deer.

*Hab.* Mexico.

*Fig.*

A male deposited 22 June, 1899, from Tobago, was referred to this species.

806. *Odocoileus virginianus* (Boddaert), Elenchus Anim. **1**, p. 136, 1784. *v.* Miller, N. Amer. Mamm. p. 488, 1923.

*Cariacus virginianus.*

Virginian Deer. "American Fallow Deer" of some older writers.

*Hab.* Eastern North America : eastern and middle United States and southern Canada.

*Figs.* Audubon & Bachman, Quad. N. Amer. **2**, 1851, pl. 81, & **3**, 1854, pl. 136. Lydekker, Deer of All Lands, 1898, pl. 20, as *Mazama americana*.

One presented 11 June, 1830, by the Earl of Derby, and another, later in 1830, by King William IV, appear to have been the first individuals received.

Twenty-one born in the Gardens 1834–1927, and two hybrids between this species and *O. mexicanus*, one in 1865, one in 1879.

807. *Odocoileus gymnotis* (Wiegmann), Isis, **26**, p. 965, 1833.

*Cariacus gymnotis.*

Naked-eared Deer.

*Hab.* Northern South America : Venezuela and Ecuador.

*Fig.* Arch. Mus. Hist. Nat. Paris, **6**, 1852, pl. 25.

A female presented 29 March, 1877, by Mr. C. Cooper.

808. *Odocoileus spinosus* (Gay & Gervais), Ann. Sci. Nat. Zool. (3) **5**, p. 94, 1846.

*Cariacus savannarum.*

Savanna Deer.

*Hab.* Northern South America: Guiana and Venezuela.

*Fig.*

Probably first received in 1851.

A female, from Venezuela, was presented 25 March, 1908, by Mr. A. Pam, F.Z.S.; it lived till 1914.

809. *Odocoileus peruvianus* (J. E. Gray), Ann. Mag. Nat. Hist. (4) **13**, p. 332, 1874.

*Cariacus peruvianus.*

Peruvian Deer.

*Hab.* Western South America : Peru, Bolivia, Chile.

*Fig.*

A male from Iquique, Chile, born in 1909, presented 24 April, 1911, by Miss P. Lomax, which lived in the Gardens till Jan. 1923, has been referred to this species, *v.* Pocock, P. Z. S. 1923, p. 198.

Genus **Blastocerus** Sundevall, K. Svenska Vet.-Ak. Handl. 1844, p. 182, 1846.

Species :


| | Page |
|---|---|
| 1. *dichotomus* | 322 |
| 2. *bezoarticus* | 322 |


810. *Blastocerus dichotomus* (Illiger), Abh. Ak. Sci. Berlin, "1811," p. 117, 1815.

*Cariacus paludosus.*

Marsh-Deer.

*Hab.* South America : suitable localites in eastern and central S. America, Brazil, Uruguay, Paraguay and northern Argentina.

*Fig.* Lichtenstein, Darst. Säugth. 1827–1834, pl. 17, as *Cervus paludosus.*

A male deposited 26 May, 1896, is the first definite record of this species being in the Gardens.

811. *Blastocerus bezoarticus* (Linnaeus), Syst. Nat. 1, p. 67, 1758.

*Cariacus campestris.*

Pampas Deer.

*Hab.* South America : eastern and central S. America, from Brazil to northern Patagonia.

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 22, as *Mazama bezoartica.*

As early as 1830 or 1831 specimens were living in the Jardin des Plantes, Paris. This species was first received in the London Z. G. in 1856 or 1857.

Two born in the Gardens, one 5 May, 1875, one 17 Aug. 1881.

Genus **Hippocamelus** F. S. Leuckart, Dissert. Inaug. de Equo bisulco Molinae, p. xxiii. 1816. *v.* Sherborn, Index Anim. 2, 12, p. 2995, 1927.

Species :


| | Page |
|---|---|
| 1. *bisulcus* | 323 |

812. *Hippocamelus bisulcus* (Molina), Saggio Storia Nat. Chili, p. 320, 1782.

*Furcifer chilensis* List, ed. 9, 1896, p. 184.

Guemal Deer.

*Hab.* South America: southern Chile and Patagonia.

*Fig.* P. Z. S. 1899, pl. 61, as *Mazama bisulca.*

A "Chilian Deer" presented 24 April, 1830, which died 6 Oct. 1830, cannot now be identified. The first definite record of this species being in the Gardens is of a male purchased 22 Dec. 1881, from the Jardin d'Acclimatation, Paris.

Genus **Mazama** Rafinesque, Amer. Monthly Mag. **1**, p. 363, 1817. *v.* Miller, N. Amer. Mamm. p. 489, 1923.

Species:


| | Page |
|---|---|
| 1. *americana* | 323 |
| 2. *superciliaris* | 323 |
| 3. *tema* | 324 |
| 4. *bricenii* | 324 |
| 5. *rufina* | 324 |
| 6. *simplicicornis* | 324 |


813. *Mazama americana* (Erxleben), Syst. Regn. Anim. **1**, p. 324, 1777.

*Cariacus rufus.*

Red Brocket.

*Hab.* South America: from Ecuador and the Guianas south to Paraguay and to Rio Grande do Sul.

*Fig.* P. Z. S. 1850, Mamm. pl. 24, as *Coassus rufus.*

First received in 1847 or early in 1848.

814. *Mazama superciliaris* (J. E. Gray), Proc. Zool. Soc. London, 1850, p. 242.

*Cariacus superciliaris.*

Gray's Brocket.

*Hab.* South America : Brazil.

*Fig.* P. Z. S. 1850, pl. 25, as *Coassus superciliaris.*

A female was in the Society's Gardens some time before 26 Nov. 1850.

815. *Mazama tema* Rafinesque, Amer. Monthly Mag. **1**, p. 44, 1817. *v.* Lydekker, Brit. Mus. Cat. Ung. **4**, p. 205, 1915.

*Cariacus tema.*

Central American Brocket.

*Hab.* Central America : Panama to Mexico.

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 24, fig. 2, as *Mazama sartorii.*

A male, from Guatemala, died in the Society's Gardens 26 April, 1914, *v.* Pocock, P. Z. S. 1923, p. 200.

816. *Mazama bricenii* Thomas, Ann. Mag. Nat. Hist. (8) **1**, p. 349, 1908.

Briceño's Brocket.

*Hab.* South America : Venezuela.

*Fig.*

Has been represented in the Gardens, *v.* Pocock, P. Z. S. 1910, p. 964.

817. *Mazama rufina* (Bourcier & Pucheran), Rev. Mag. Zool. Paris (2) **3**, p. 561, 1851.

*Cariacus rufinus.*

Black-faced Brocket.

*Hab.* South America : Ecuador.

*Fig.* Arch. Mus. Hist. Nat. Paris, **6**, 1852, pl. 30.

A female presented 16 March, 1898, by Col. D. Wilson, C.M.G.

818. *Mazama simplicicornis* (Illiger), Abh. Ak. Sci. Berlin, 1811, p. 107, 1815. *v.* Lydekker, Brit. Mus. Cat. Ung. **4**, p. 208, 1915.

*Cariacus nemorivagus.*

Brown Wood-Brocket.

*Hab.* South America: Brazil, the Guianas, Trinidad, Venezuela, Colombia and Ecuador.

*Figs.* P. Z. S. 1850, Mamm. pls. 22 & 23, as *Coassus nemorivagus.*

First received in 1850.

Genus **Pudu** J. E. Gray, Proc. Zool. Soc. London, 1850, p. 242.

Species:

Page
1. *puda* ..... 325

819. *Pudu puda* (Molina), Saggia Storia Nat. Chili, p. 308, 1782.

*Pudua humilis* List, ed. 9, 1896, p. 185.

Pudu Deer.

*Hab.* South America: Chile.

*Figs.* Wolf, Zool. Sketches (2) 1867, pl. 18. P. Z. S. 1871, pl. 17.

The type of *Cervus humilis* Bennett, P. Z. S. 1831, p. 27, was a female which had lived in the Gardens "for upwards of twelve months" before 25 Jan. 1831.

Genus **Capreolus** J. E. Gray, London Med. Repos. **15**, p. 307, 1821. *v.* Sherborn, Index Anim. **2**, 5, p. 1068, 1924.

Species:

Page
1. *capreolus* ..... 325
2. *bedfordi* ..... 326
3. *pygargus* ..... 326

820. *Capreolus capreolus* (Linnaeus), Syst. Nat. **1**, p. 68, 1758.

*Capreolus capraea.*

Roe Deer.

*Hab.* Europe: from Great Britain eastwards into Asia, and from central Sweden south to the Mediterranean.

*Figs.* Millais, Mamm. Gt. Britain, **3**, 1906, pls. 57, 58.

First received 18 July, 1829.

The British Roe has been called *Capreolus capreolus thotti* Lönnberg 1910, to distinguish it from the Roe of continental Europe, which again has been divided up into several races ; one or more of these have been exhibited in the Gardens, including a pair from Finland received in Jan. 1874.

821. *Capreolus bedfordi* Thomas, Proc. Zool. Soc. London, 1908, p. 645.

Duke of Bedford's Roe Deer.

*Hab.* North-eastern Asia : Manchuria, Korea and China.

*Fig.* P. Z. S. 1908, pl. 32.

A female from Port Lazaref, S.E. coast of Korea, presented 6 May, 1888, by Mr. F. Harston Eagles (registered as *Capreolus capraea*, "d," List, ed. 9, 1896, p. 182), presumably belonged to this species.

822. *Capreolus pygargus* (Pallas), Reise Russl. **1**, p. 453, 1771.

Siberian Roe Deer. White-rumped Roe Deer.

*Hab.* Asia : Turkestan, Siberia, Manchuria.

*Fig.* Schreber, Saügth. **4**, 1784, pl. 253.

Two females received in exchange 3 April, 1879.

Genus **Alces** H. Smith, in J. E. Gray, London Med. Repos. **15**, p. 307, 1821.
*v.* Sherborn, Index Anim. **2**, 2, p. 205, 1923.

Species :

Page
1. *alces* ..... 326

823. *Alces alces* (Linnaeus), Syst. Nat. **1**, p. 66, 1758.
*Alces machlis.*

Elk. Moose (in America).

*Hab.* Northern forests of Europe (Scandinavia, eastern Germany and Russia), Asia (Siberia) and America (Canada, Alaska and parts of United States).

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 2.

First received in 1829. Individuals have come from Sweden, Russia and North America.

Genus **Rangifer** H. Smith, in Griffith, Anim. Kingd. 5, p. 304, 1827.

Species:

Page
1. *tarandus* ..... 327

824. *Rangifer tarandus* (Linnaeus) Syst. Nat. 1, p. 67, 1758.

Reindeer. Caribou (in America).

*Hab.* Northern Europe, Asia and America: domesticated in some places, distribution modified by human agency.

*Fig.* Lydekker, Deer of All Lands, 1898, pl. 1.

First received 16 Oct. 1828, when a white female was presented by Sir A. Mackenzie: it died 20 Sept. 1830. Individuals have come from Lapland, the typical locality of the species, from Labrador, either *R. tarandus caribou* (Gmelin) 1788 or *R. arcticus caboti* (G. M. Allen) 1914, and from Newfoundland, *R. tarandus terraenovae* Bangs 1896.

Sixteen born in the Gardens, all in the month of May, 1851–1927.

Genus **Hydropotes** Swinhoe, Proc. Zool. Soc. London, 1870, p. 90.

Species:

Page
1. *inermis* ..... 327

825. *Hydropotes inermis* Swinhoe, Proc. Zool. Soc. London, 1870, p. 89.

Chinese Water-Deer.

*Hab.* China and Korea.

*Fig.* P. Z. S. 1870, pl. 6.

A male presented 8 May, 1873, by Mr. R. Swinhoe, F.Z.S.

## Family TRAGULIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Tragulus* | 328 |
| 2. | *Hyemoschus* | 329 |


### Genus **Tragulus** Pallas, Spicil. Zool. 13, p. 27, 1779.

Species:


| | | Page |
|---|---|---|
| 1. | *javanicus* | 328 |
| 2. | *stanleyanus* | 328 |
| 3. | *meminna* | 329 |


826. *Tragulus javanicus* (Osbeck), Reise Ost-Ind. Chin. p. 357, 1765. *v.* Sherborn, Index Anim. 1, p. 502, 1902.

*Tragulus napu.*

Malayan Mouse-Deer, or Chevrotain.

*Hab.* South-eastern Asia : Indo-China, Malay Peninsula and Islands. Over forty subspecies appear to exist ; their limits of variation and geographical distribution are still to be learnt.

*Fig.* Knowsley Menagerie, 1850, pls. 34 & 35.

The identification of the Mouse-Deers that have lived in the Gardens is doubtful : *javanicus* is recorded from 1829, *kanchil* in 1831, *napu* from 1836.

A white *javanicus* was presented 8 Oct. 1926, by Mr. W. L. S. Besapa.

Four born in the Gardens 1870–1922 : one, in 1913, lived for three weeks.

827. *Tragulus stanleyanus* (J. E. Gray), Proc. Zool. Soc. London, 1836, p. 65.

Lord Derby's Mouse-Deer. Stanleyan Chevrotain.

*Hab.* Islands lying off the Malay Peninsula.

*Figs.* Fraser, Zool. Typ. 1849, pl. 15, as *Moschus stanleyanus*. Knowsley Menagerie, 1850, pl. 33.

Two presented 21 May, 1836, by H.R.H. the Princess Victoria: one of these died 25 May, 1836, the other 11 Nov. 1837 *.

Four appear to have been born in the Gardens, 1836–1840: one, in 1836, lived for three weeks.

828. *Tragulus meminna* (Erxleben), Syst. Regn. Anim. p. 322, 1777.

Alternative name *Moschiola meminna*.

Indian Mouse-Deer, or Chevrotain.

*Hab.* India and Ceylon.

*Fig.* Knowsley Menagerie, 1850, pl. 32, as *Memina indica*.

One purchased 13 July, 1832, died 21 Feb. 1833.

Genus **Hyemoschus** J. E. Gray, Ann. Mag. Nat. Hist. (1) **16**, p. 350, 1845.

Species:

Page
1. *aquaticus* ..... 329

829. *Hyemoschus aquaticus* (Ogilby), Proc. Zool. Soc. London, 1840, p. 35.

*Hyomoschus aquaticus*.

Alternative name *Dorcatherium aquaticum*.

Water-Chevrotain.

*Hab.* West Africa: Gambia and Sierra Leone to the Gaboon and Congoland.

*Fig.* Knowsley Menagerie, 1850, pl. 31.

Though this species was living in Lord Derby's menagerie as long ago as 1841, the first received by the Society was a young female purchased 11 Dec. 1866: it died in June 1867.

One born in the Gardens 24 Jan. 1883.

* 'List of the Animals in the Garden of the Zoological Society.' May 1837, p. 16, identifies Princess Victoria's gift as *Moschus kanchil*, and mentions *Tragulus stanleyanus* as presented by Mrs. Walkinshaw.

## Family CAMELIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Camelus* | 330 |
| 2. | *Lama* | 331 |


### Genus **Camelus** Linnaeus, Syst. Nat. 1, p. 65, 1758.

Species :


| | | Page |
|---|---|---|
| 1. | *dromedarius* | 330 |
| 2. | *bactrianus* | 330 |


830. *Camelus dromedarius* Linnaeus, Syst. Nat. 1, p. 65, 1758.

Arabian Camel. One-humped Camel. Dromedary.

*Hab.* Unknown in the wild state. Domesticated in North Africa, Arabia and parts of India. Introduced into Italy, Spain, North America, South Africa, Australia, etc., with varying successes.

*Figs.* F. Cuvier, Hist. Nat. Mamm. 1820, 1, livr. 13 : 2 plates. E. Walton, 'The Camel,' 1865 : folio plates, uncoloured.

One purchased 6 Nov. 1829.

Three born in the Gardens—8 Sept. 1837, 22 Feb. 1841, and 12 April, 1912.

831. *Camelus bactrianus* Linnaeus, Syst. Nat. 1, p. 65, 1758.

Bactrian Camel. Two-humped Camel.

*Hab.* Central Asia. Domesticated from Asia Minor to Manchuria.

*Fig.* F. Cuvier, Hist. Nat. Mamm. 1821, 2, livr. 29.

One purchased at the Manchester sale, 30 Nov. 1842.

Six born in the Gardens 1901–1911, and one hybrid, *C. dromedarius* ♂ × *C. bactrianus* ♀ ; the female was received, enceinte, 24 Feb. 1881, and the young one born 25 March, 1881.

Genus **Lama** G. Cuvier, Leçons Anat. Comp. Tableau gén. 1800.

Species :


| | Page |
|---|---|
| 1. *glama* | 331 |
| 2. *huanacus* | 331 |
| 3. *pacos* | 331 |
| 4. *vicugna* | 332 |


832. *Lama glama* (Linnaeus), Syst. Nat. **1**, p. 65, 1758.

*Lama peruana.*

Lama, or Llama.

*Hab.* South America : domesticated in the Andes.

*Fig.* Knowsley Menagerie, 1850, pl. 51.

A white male Lama was presented by the Duke of Bedford when the Society commenced to form a menagerie in 1826 or 1827 : it died 1 Sept. 1831.

Sixteen born in the Gardens 1853–1926.

833. *Lama huanacus* (Molina), Saggio Storia Nat. Chile, **1**, p. 317, 1782.

*Lama huanacos.*

Huanaco. Guanaco. Wild Lama.

*Hab.* South America : Peru, Chile, Patagonia and Tierra del Fuego.

*Figs.* Meyen, Nova Acta Ac. Caes. Leop.-Carol. **16**, 1833, pl. 40. Knowsley Menagerie, 1850, pl. 50.

First received 19 Aug. 1830, when three were presented by Queen Adelaide.

Four born in the Gardens—one in 1853, two in 1855 and one in 1896.

834. *Lama pacos* (Linnaeus), Syst. Nat. **1**, p. 66, 1758.

Alpaca.

*Hab.* South America : Peru and Bolivia, domesticated or semi-domesticated.

*Figs.* Knowsley Menagerie, 1850, pl. 52. Wolf, Zool. Sketches, 1861, pl. 26.

First received 26 Aug. 1830, when one was presented by King William IV.

Seven born in the Gardens 1831–1862.

A "Paco," or hybrid between Lama and Alpaca, presented by the Earl of Derby, P.Z.S., was on exhibition in July 1844.

835. *Lama vicugna* (Molina), Saggio Storia Nat. Chile, p. 313, 1782.

Alternative name *Vicugna vicugna*.

Vicugna, or Vicuna.

*Hab.* South America: Bolivia, Peru and southern Ecuador.

*Fig.* Knowsley Menagerie, 1850, p. 49.

One brought from Peru by Capt. Coghlan, R.N., to Queen Adelaide, was presented to the Society by Her Majesty 19 Aug. 1830: it died 20 Dec. 1831.

## Family SUIDAE.

Genera:


| | Page |
|---|---|
| 1. *Sus* | 332 |
| 2. *Potamochoerus* | 335 |
| 3. *Phacochoerus* | 336 |
| 4. *Babirussa* | 336 |


### Genus **Sus** Linnaeus Syst. Nat. 1, p. 49, 1758.

Species:


| | Page | | Page |
|---|---|---|---|
| 1. *scrofa* | 332 | 6. *andamanensis* | 333 |
| 2. *cristatus* | 333 | 7. *timoriensis* | 334 |
| 3. *leucomystax* | 333 | 8. *papuensis* | 334 |
| 4. *taivanus* | 333 | 9. *salvanius* | 334 |
| 5. *vittatus* | 333 | | |


836. *Sus scrofa* Linnaeus, Syst. Nat. 1, p. 49, 1758.

Wild Swine. Wild Boar.

*Hab.* Palaearctic region: Europe, North Africa, western and northern Asia.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 163.

A Wild Boar was presented 26 Aug. 1830, by King William IV. Individuals have been received from western and central Europe, Italy, Antioch, Turkish Arabia, Mesopotamia and Persia. From 1843 to 1886 specimens were from time to time received from Morocco. On 25 May, 1850, a female of the Egyptian Wild Pig (now extinct) was presented by H.H. Abbas Pasha, Viceroy of Egypt.

At least twenty born in the Gardens 1836–1892.
Domestic breeds, and a hybrid between Wild Boar and Domestic Sow, have also been exhibited.

837. *Sus cristatus* Wagner, Münch. gelehrt. Anzeig. **9**, p. 535 (misprint for 435), 1839. *v.* Lydekker, Brit. Mus. Cat. Ung. **4**, p. 318, 1915.
Indian Wild Swine.
*Hab.* India, Ceylon, Burma, extending into Siam and parts of Malaya.
*Fig.*
First received in 1848, or early in 1849.
At least twenty-six born in the Gardens 1892–1902.

838. *Sus leucomystax* Temminck, Faun. Japon. Mamm. p. 6, 1842.
White-whiskered Swine.
*Hab.* Japan.
*Fig.* Temminck, *l. c. s.* pl. 20.
First received 30 May, 1865, when a female was presented by Messrs. Glover & Co.

839. *Sus taivanus* (Swinhoe), Proc. Zool. Soc. London 1862, p. 360.
Formosan Swine.
*Hab.* Formosa.
*Fig.*
A male presented 17 Jan. 1867 by Mr. Gregory.
Three or four born in the Gardens 12 Oct. 1867.

840. *Sus vittatus* S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. **1**, p. 172, 1842.
Crowned Swine.
*Hab.* Malay Peninsula and islands : many local races.
*Fig.* S. Müller & Schlegel, *l. c. s.* pl. 29.
One received in exchange 30 March, 1860.

841. *Sus andamanensis* Blyth, J. Asiat. Soc. Bengal, **27**, p. 267, 1858.
Andaman Swine.
*Hab.* Andaman Islands.

*Fig.* Wolf, Zool. Sketches (2) pl. 22, 1867.
A female purchased 28 Feb. 1863.
Three born in the Gardens 15 July, 1867; also two hybrids, *S. andamanensis* × *S. timoriensis* 7 Dec. 1864, and *S. andamanensis* × *S. leucomystax* 11 July, 1874.

842. *Sus timoriensis* S. Müller & Schlegel, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. **1**, p. 173, 1842.

*Sus timorensis.*

Timorese Swine.

*Hab.* Malay Archipelago : Timor and other islands.

*Fig.* S. Müller & Schlegel, *l. c. s.* pl. 31, fig. 1.

One from Dampier Straits, presented 2 July, 1864, by Mr. R. Swinhoe, F.Z.S.

843. *Sus papuensis* Lesson & Garnot, Voy. Coquille, **1**, p. 171, 1826.

Papuan Pig.

*Hab.* New Guinea and islands.

*Fig.* Lesson, *l. c. s.* pl. 8.

A male from Brooker Island, Louisiade Archipelago, presented 11 Dec. 1880, by Lieut. De Hoghton, R.N.
A male from New Guinea, deposited 7 June, 1884.

844. *Sus salvanius* (Hodgson), J. Asiat. Soc. Bengal, **16**, pt. i. p. 4247.

Alternative name *Porcula salvania.*

Pygmy Hog.

*Hab.* North-eastern India : Sikhim Terai, Nepal and Bhutan.

*Figs.* Hodgson, *l. c. s.* pl. 12 : uncoloured. P. Z. S. 1882, pl. 37.

A male and three females purchased 1 May, 1882, from Mr. B. H. Carew.
Nine born in the Gardens 1883–1886, all between 16 May and 23 June.

Genus **Potamochoerus** J. E. Gray, Proc. Zool. Soc. London, 1852, p. 129, publ. 1854.

Species:


| | Page |
|---|---|
| 1. *koïropotamus* | 335 |
| 2. *hassama* | 335 |
| 3. *porcus* | 335 |


845. *Potamochoerus koïropotamus* (Desmoulins), Dict. Class. Hist. Nat. **3**, pl. opp. p. 584, fig. 2, 1823; & **16**, Explic. des Planches, p. 139, 1830, where this plate is numbered 146.

*Potamochoerus africanus*, List. ed. 9, p. 192, 1896. *Potamochoerus choeropotamus.*

African Bush-Pig. Bosch-Vark.

*Hab.* Southern, central and eastern Africa: six, or more, local races have been considered as subspecifically distinct.

*Figs.* Wolf, Zool. Sketches, 1861, fig. 28. P. Z. S. 1858, pl. 69.

First received, one purchased 13 June, 1857.

846. *Potamochoerus hassama* (Heuglin), Nova Acta Ac. Caes. Leop.-Car. **30**, Nachtrag 2, p. 7, 1863.

Abyssinian Bush-Pig.

*Hab.* Abyssinia.

*Fig.*

Two purchased 5 May, 1923.

847. *Potamochoerus porcus* (Linnaeus), Syst. Nat. **1**, p. 50, 1758.

*Potamochoerus penicillatus.*

Red River-Hog. Cameroon Painted-Pig.

*Hab.* West Africa: Guinea to the Cameroons and Congoland.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 29. P. Z. S. 1861, pl. 12.

A male purchased in Sept. 1852, was the type of *Choiropotamus pictus* J. E. Gray 1852. M. du Chaillu presented a male 18 Nov. 1864, as typical of *Potamochoerus albifrons* du Chaillu 1860.

About fifteen born in the Gardens 1856–1902.

Genus **Phacochoerus** G. Cuvier, Règne Anim. **1**, p. 236, 1817.

Species:

Page
1. *aethiopicus* ..... 336

848. *Phacochoerus aethiopicus* (Pallas), Spicil. Zool. **2**, p. 3, 1767.

Wart-Hog.

*Hab.* Africa: in suitable localities from the Cape Province north to Senegambia, the Sudan, Abyssinia and Somaliland. Several local races have been defined.

*Figs.* P. Z. S. 1850, Mamm. pl. 17, from Natal; 1869, pl. 20, from Abyssinia.

Two from Natal, purchased 20 April, 1850, were called *Phacochoerus aethiopicus*, and also *Phacochoerus pallasii*.

One from Ashanti, presented 18 Jan. 1861, by Queen Victoria, was referred to *Phacochoerus africanus*, and one from Abyssinia, purchased 15 April, 1869, to *Phacochoerus aeliani*.

Genus **Babirussa** Rafinesque, Analyse de la Nature, p. 56, 1815.

Species:

Page
1. *babyrussa* ..... 336

849. *Babirussa babyrussa* (Linnaeus), Syst. Nat. **1**, p. 50, 1758.

*Babirussa alfurus.*

Babirusa. (Malay: "Babi"=pig. "Rusa"=deer.)

*Hab.* Celebes.

*Figs.* Voy. Astrolabe, Zool. Atlas, 1833, pls. 22 & 23; P. Z. S. 1860, pl. 83.

The first received alive was one presented 18 Feb. 1841, by Capt. Sir Edward Belcher, R.N.: it died 1 Feb. 1843.

A female born in the Gardens 16 Jan. 1884.

## Family TAYASSUIDAE.

Genera :


| | Page |
|---|---|
| 1. *Tayassu* | 337 |
| 2. *Pecari* | 337 |


### Genus **Tayassu** G. Fisher, Zoognosia, 3, p. 284, 1814.

Species :


| | Page |
|---|---|
| 1. *pecari* | 337 |


850. *Tayassu pecari* G. Fischer, Zoognosia, **3**, p. 285, 1814.

*Dicotyles labiatus.* *Dicotyles albirostris.*

White-lipped Peccary.

*Hab.* South America, from Paraguay northwards, with local races in Central America and Mexico.

*Figs.* Jardine, Nat. Libr. Mamm. **5**, pl. 27, 1836. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 10.

First received before 18 July, 1829.

Four hybrids between this species and *Pecari tajacu* born in the Gardens 1864–1883.

### Genus **Pecari** Reichenbach, Bildergal. Thierwelt, pt. 6, p. 1, 1835.

Species :


| | Page |
|---|---|
| 1. *tajacu* | 337 |


851. *Pecari tajacu* (Linnaeus), Syst. Nat. **1**, p. 50, 1758

*Dicotyles taiaçu.* *Dicotyles torquatus.*

Collared Peccary.

*Hab.* South America, from southern Brazil and Paraguay northwards, with allied forms in Central America, Mexico, Texas and southern Arizona.

*Fig.* Wolf, Zool. Sketches (2) pl. 23, 1867.

First exhibited alive by the Society in 1827.

Fifteen appear to have been born in the Gardens 1836–1927.

## Family HIPPOPOTAMIDAE.

Genera :

Page
1. *Hippopotamus* ..... 338
2. *Choeropsis* ..... 338

### Genus **Hippopotamus** Linnaeus, Syst. Nat. **1**, p. 74, 1758.

Species :

Page
1. *amphibius* ..... 338

852. *Hippopotamus amphibius* Linnaeus, Syst. Nat. **1**, p. 74, 1758.

Hippopotamus.

*Hab.* Africa: southern and tropical African river systems.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 27.

The first received was a young male presented by H.H. Abbas Pasha, Viceroy of Egypt, through the kind influence of the Hon. Charles A. Murray, and brought to Southampton by Capt. Moresby on the P. & O. S.S. 'Ripon.' which arrived 25 May, 1850. It died 11 March, 1878.

Five born in the Gardens: 21 Feb. 1871, 7 Jan. 1872, 5 Nov. 1872, 2 Sept. 1925, 20 Aug. 1926.

### Genus **Choeropsis** Leidy, J. Acad. Nat. Sci. Philad. (2) **2**, p. 213, 1853.

Species :

Page
1. *liberiensis* ..... 338

853. *Choeropsis liberiensis* (Morton), J. Acad. Nat. Sci. Philad. (2) **1**, p. 232, 1849.

Pygmy Hippopotamus.

*Hab.* West Africa: Liberia and Sierra Leone.

*Fig.* A. Milne Edwards, Recherch. hist. nat. Mamm. 1868–1874, pl. 1.

A female purchased 6 Feb. 1913, for £300, was the first received; it is still alive, 31 Dec. 1927.

## Order XVI. SIRENIA.

Families :

Page
1. Trichechidae ..... 339
2. Halicoridae (not yet in Gardens) .... —

### Family TRICHECHIDAE.

Genus :

Page
1. *Trichechus* ..... 339

### Genus **Trichechus** Linnaeus, Syst. Nat. **1**, p. 34, 1758.

Species :

Page
1. *manatus* ..... 339
2. *inunguis* ..... 339

854. *Trichechus manatus* Linnaeus, Syst. Nat. **1**, p. 34, 1758.

*Manatus americanus.*

West Indian Manatee.

*Hab.* West Indian Seas.

*Figs.* P. Z. S. 1881, p. 457: uncoloured. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 7, as *Manatus australis.*

First received alive 6 Aug. 1875, when a female was purchased for £150 ; it died 7 Sept. 1875.

855. *Trichechus inunguis* (Pelzeln), Verh. K.-k. zool.-bot. Ges. Wien, Beiheft to **33**, Bras. Säugth. p. 89, 1883.

*Manatus inunguis.*

Amazonian Manatee.

*Hab.* South America : Amazon water system.

*Fig.* P. Z. S. 1897, p. 47 : uncoloured.

First received alive 4 Jan. 1896, when a young male from the Rio Purus, was purchased ; it died 29 Oct. 1896.

## Order XVII. TUBULIDENTATA.

Family:

Page
1. Orycteropodidae ..... 340

### Family ORYCTEROPODIDAE.

Genus:

Page
1. *Orycteropus* ..... 340

Genus **Orycteropus** Geoffroy, Décade Philosophique, 1795. *v.* W. H. Flower, Cat. Osteol. Mus. R. Coll. Surg. **2**, p. 694, 1884 *.

Species:

Page
1. *afer* ..... 340

856. *Orycteropus afer* (Pallas), Miscell. Zool. p. 64, 1778.

*Orycteropus capensis.* *Orycteropus aethiopicus.*

African Ant-Bear. Aard Vark (in South Africa).

*Hab.* Africa: in suitable localities from the Cape to Kordofan.

*Figs.* P. Z. S. 1869, p. 431, & 1870, p. 669: uncoloured.

The first received was from South Africa, a male purchased 18 June, 1869, for £150. The first from north-eastern Africa was purchased 29 July, 1870. One from British East Africa was presented 17 Dec. 1907, by the Marquess Gandolfi Hornyold. So three possibly distinct subspecies have been represented in the Gardens.

## Order XVIII. PHOLIDOTA.

Family:

Page
1. Manidae ..... 340

### Family MANIDAE.

Genus:

Page
1. *Manis* ..... 341

* *Orycteropus* G. Cuvier, Tabl. élém. p. 144, 1798. *v.* Sherborn, Index Anim. **1**, p. lix, 1902.

Genus **Manis** Linnaeus, Syst. Nat. **1**, p. 36, 1758.

Species :

Page
1. *pentadactyla* ..... 341
2. *temminckii* ..... 341
3. *tricuspis* ..... 341

857. *Manis pentadactyla* Linnaeus, Syst. Nat. **1**, p. 36, 1758.

Chinese Pangolin.

*Hab.* South China, possibly extending west to Nepal (*M. aurita* Hodgson 1836).

*Fig.* P. Z. S. 1926, p. 213, text-fig. 1 : photograph.

A female was presented 3 July, 1925, by Sir Reginald Stubbs, K.C.M.G.

858. *Manis temminckii* Smuts, Dissert. enum. Mamm. Cap. p. 54, 1832.

Alternative name *Smutsia temminckii*.

Temminck's Pangolin.

*Hab.* South Africa.

*Fig.* A. Smith, Illustr. Zool. S. Afr. Mamm. 1838, pl. 7.

One "said to have been procured in the Transvaal" was deposited 29 June, 1896.

859. *Manis tricuspis* Rafinesque, Ann. Sci. Phys. Brux. **7**, p. 215, 1820, Feb. 1821.

Alternative name *Phataginus tricuspis*.

Small-scaled Tree Pangolin. White-bellied Pangolin.

*Hab.* West Africa : Gambia to Angola, and eastward into north-central Africa.

*Figs.* Fraser, Zool. Typ. 1849, pl. 28, as *M. multiscutata*. P. Z. S. 1877, p. 531 : uncoloured.

A male purchased 24 May, 1877, which lived for three days only, was the first received.

## Order XIX. XENARTHRA.

Families:


| | | Page |
|---|---|---|
| 1. | Choloepodidae | 342 |
| 2. | Bradypodidae | 343 |
| 3. | Myrmecophagidae | 343 |
| 4. | Dasypodidae | 345 |
| *5. | Chlamyphoridae | — |


## Family CHOLOEPODIDAE.

Genus:


| | | Page |
|---|---|---|
| 1. | *Choloepus* | 342 |


### Genus **Choloepus** Illiger, Prodr. Syst. Mamm. p. 108, 1811.

Species:


| | | Page |
|---|---|---|
| 1. | *didactylus* | 342 |
| 2. | *hoffmanni* | 342 |


860. *Choloepus didactylus* (Linnaeus), Syst. Nat. **1**, p. 35, 1758.

*Cholopus didactylus.*

Two-toed Sloth.

*Hab.* South America: the Guianas and Brazil.

*Fig.* P. Z. S. 1872, pl. 72, fig. 2.

The first individual received was one presented 28 May, 1844, by the Royal Zoological Society of Ireland. It died 16 Jan. 1849, having lived in the Gardens 4 years 7 months 23 days.

861. *Choloepus hoffmanni* Peters, Monats. K. Preuss. Ak. Wiss. Berlin, p. 128, 1858.

*Cholopus hoffmani.*

Hoffman's Sloth.

---

* = not yet alive in Gardens, 31 Dec. 1927.

*Hab.* Central America and northern South America.

*Fig.* P.Z.S. 1872, pl. 72, fig. 1.

One, from Panama, purchased 29 Sept. 1869, died 24 Dec. 1870.

One born in the Gardens 9 May, 1876.

## Family BRADYPODIDAE.

Genus:

Page
1. *Bradypus* ..... 343

### Genus **Bradypus** Linnaeus, Syst. Nat. **1**, p. 34, 1758.

Species:

Page
1. *tridactylus* ..... 343

862. *Bradypus tridactylus* Linnaeus, Syst. Nat. **1**, p. 34, 1758.

Three-toed Sloth.

*Hab.* South America: the Guianas, Brazil and Bolivia, north to Venezuela and Colombia, with allied species in Central America.

*Figs.* Wolf, Zool. Sketches (2) pl. 25, 1867. Beebe, Zoologica, New York, **7**, 1926, No. 1: photographs, etc., as *Bradypus cuculliger*.

One presented 28 April, 1863, by Mr. E. Greey, C.M.Z.S.

One deposited 11 Oct. 1900, represented a Colombian race, *Bradypus infuscatus* Wagler.

## Family MYRMECOPHAGIDAE.

Genera:

Page
1. *Myrmecophaga* ..... 344
2. *Tamandua* ..... 344
3. *Cyclopes* ..... 344

Genus **Myrmecophaga** Linnaeus, Syst. Nat. **1**, p. 35, 1758.

Species:

1. *tridactyla* ..... Page 344

863. *Myrmecophaga tridactyla* Linnaeus, Syst. Nat. **1**, p. 35, 1758.

*Myrmecophaga jubata.*

Great Anteater. Orso Hormeguero (Ant-Bear).

*Hab.* South America: typically from Brazil; a representative form extends as far north as Costa Rica.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 30.

The first received was an adult female, the original of Wolf's picture, which lived in the Gardens from 29 Sept. 1853, to 6 July, 1854.

Genus **Tamandua** J. E. Grey, Ann. Philos. n. s. **10**, p. 343, 1825

Species:

1. *tetradactyla* ..... Page 344

864. *Tamandua tetradactyla* (Linnaeus), Syst. Nat. **1**, p. 35, 1758.

Tamandua Anteater.

*Hab.* South America: typically from Brazil; closely allied local races in Central America and Mexico.

*Fig.* P. Z. S. 1871, pl. 43.

One purchased 29 May, 1871, was the first received.

Genus **Cyclopes** J. E. Gray, London Med. Repos. **15**, p. 305, 1821. *v.* Sherborn, Index Anim. **2**, p. 1738, 1925.

Species:

1. *didactyla* ..... Page 345

865. *Cyclopes didactyla* (Linnaeus), Syst. Nat. **1**, p. 35, 1758.

*Cycloturus didactylus.*

Little Anteater. Two-toed Anteater.

*Hab.* South America: typically from the Guianas; allied forms in Central America and Mexico.

*Fig.* P. Z. S. 1865, pl. 19, as *Cyclothurus dorsalis.*

One "received on approval," from Mr. Colston, 16 Sept. 1854, lived two days in the Gardens.

One presented 6 Sept. 1858, by Mr. E. B. Webb, lived four days.

## Family DASYPODIDAE.

Genera:


| | | Page |
|---|---|---|
| 1. | *Dasypus* | 345 |
| 2. | *Euphractus* | 346 |
| 3. | *Zaëdyus* | 347 |
| 4. | *Cabassous* | 348 |
| 5. | *Tolypeutes* | 348 |


### Genus **Dasypus** Linnaeus, Syst. Nat. **1**, p. 50, 1758.

Species:


| | | Page |
|---|---|---|
| 1. | *novemcinctus* | 345 |
| 2. | *hybridus* | 346 |
| 3. | *kappleri* | 346 |


866. *Dasypus novemcinctus* Linnaeus, Syst. Nat. **1**, p. 51, 1758.

*Tatusia peba.*

Nine-banded Armadillo. Peba Armadillo.

*Hab.* South and Central America: from Brazil and Trinidad north to Mexico and into Texas, with an island form in Tobago and Grenada, Lesser Antilles.

*Figs.* Audubon & Bachman, Quadr. N. Amer. **3**, 1854, pl. 146, as *Dasypus peba.* Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 20, as *Tatusia novemcincta.*

A female was presented 12 Oct. 1831, by the Earl of Ilchester; it died the same day.

Synomym. *Tatusia novae-cincta.*

867. *Dasypus hybridus* Desmarest, Nouv. Dict. Hist. Nat. ed. 2, **22**, p. 492, 1819.

*Tatusia hybrida.*

Mulita Armadillo.

*Hab.* South America: Argentina.

*Fig.*

Two presented 15 June, 1870, by Mrs. Mackinlay. Four born in the Gardens 28 Feb. 1871.

868. *Dasypus kappleri* Krauss, Archiv. Naturg. **28**, i. p. 24, 1862.

*Tatusia kappleri.*

Kappler's Armadillo.

*Hab.* South America: the Guianas.

*Fig.*

Two purchased 27 Aug. 1870.

Genus **Euphractus** Wagler, Natürl. Syst. Amphibien. p. 36, 1830.

Species:


| | Page |
|---|---|
| 1. *sexcinctus* | 346 |
| 2. *vellerosus* | 347 |
| 3. *villosus* | 347 |


869. *Euphractus sexcinctus* (Linnaeus), Syst. Nat. **1**, p. 51, 1758.

*Dasypus sexcinctus.*

Six-banded, or Weasel-headed, Armadillo.

*Hab.* South America: the typical form from Para and northern Brazil; a larger form, *E. flavimanus* (Desmarest) 1804 = *E. gilvipes* (Lichtenstein) 1818, from southern and south-central Brazil and Paraguay.

*Fig.* Fitzinger, Bild.-Atlas, Säugth. 1860, fig. 150, as *Euphractus setosus.*

Two presented 26 Aug. 1830, by Mr. T. Wane (entered at the time as "Nine-banded Armadillos").

About seven appear to have been born alive in the Gardens 1831–1854; one of these lived for nine months and five days, 28 April, 1832, to 3 Feb. 1833.

870. *Euphractus vellerosus* (J. E. Gray), Proc. Zool. Soc. London, 1865, p. 376.

*Dasypus vellerosus.*

Long-haired Armadillo.

*Hab.* South America: Chile and Argentina.

*Fig.* P. Z. S. 1865, pl. 18.

First received 16 May, 1871, when one was purchased. An individual from Cordova, Argentina, presented 10 April, 1916, by Mr. W. A. Smithers, C.M.Z.S., was referred to *E. vellerosus pannosus.*

871. *Euphractus villosus* (G. Fischer), Zoognosia, **3**, p. 125, 1814.

*Dasypus villosus.*

Hairy Armadillo.

*Hab.* South America: Argentina, Bolivia and Patagonia.

*Fig.* L. A. Sargent, in Finn, Wild Beasts of World, 1908–1909, pl. opp. p. 372.

First received in 1843, or early in 1844.
Fifteen born in the Gardens 1872–1913.

Genus **Zaëdyus** Ameghino, Act. Acad. Cienc. Cordoba, **6** (Mamm. Foss. Arg.) p. 867, 1889.

Species:

Page
1. *pichiy* ..... 347

872. *Zaëdyus pichiy* (Desmarest), Nouv. Dict. Hist. Nat. **24**, Tab. Meth. Mamm. p. 28, 1804. *v.* Osgood, J. Mamm. Baltimore, **1**, p. 33, 1919.

*Dasypus minutus.*

Little Armadillo.

*Hab.* South America: Argentina, Bolivia, Chile and Patagonia.

*Fig.* G. Cuvier, Règne Anim. ed. accom. planches grav. pl. 71, fig. 1.

Two purchased 30 Nov. 1865.

Genus **Cabassous** McMurtie, Cuvier's Anim. Kingd. **1**, p. 164, 1831.

Species :


| | Page |
|---|---|
| 1. *unicinctus* | 348 |


873. *Cabassous unicinctus* (Linnaeus), Syst. Nat. **1**, p. 50, 1758.

*Xenurus unicinctus. Lysiurus unicinctus.*

Broad-banded Armadillo.

*Hab.* South America : Brazil, and in Central America to as far north as Honduras.

*Fig.*

One purchased 8 April, 1873, and a second 17 Jan. 1878. Two deposited 4 May, 1906, under the name of *Dasypus gymnurus.*

Genus **Tolypeutes** Illiger, Prodr. Syst. Mamm. p. 111, 1811.

Species :


| | Page |
|---|---|
| 1. *matacus* | 348 |
| 2. *tricinctus* | 348 |


874. *Tolypeutes matacus* (Desmarest), Nov. Dict. Hist. Nat. **24**, Tab. Meth. Mamm. p. 28, 1804. *v.* Osgood, J. Mamm. Baltimore, **1**, p. 33, 1919.

*Tolypeutes conurus.*

La Plata Three-banded Armadillo.

*Hab.* South America : Argentina.

*Fig.* Brehm, Tierl. Säugth. **1**, 1912, opp. p. 511 : photographs.

One received in exchange 4 March, 1865, from the Acclimatization Society of Paris.

875. *Tolypeutes tricinctus* (Linnaeus), Syst. Nat. **1**, p. 51, 1758.

Brazilian Three-banded Armadillo.

*Hab.* South America : the Guianas, Brazil and Bolivia.

*Fig.* Schreber, Säugth. 1775, p. 71, A, as *Dasypus tricinctus.*

A female purchased 3 Nov. 1877.

## Order XX. MARSUPIALIA.

Families :


| | Page | | Page |
|---|---|---|---|
| 1. Macropodidae ..... | 349 | 7. Peramelidae ..... | 370 |
| *2. Hypsiprymnodontidae | — | 8. Dasyuridae ..... | 372 |
| 3. Phalangeridae ..... | 363 | *9. Myrmecobiidae .. | — |
| *4. Tarsipedidae ..... | — | *10. Notoryctidae .... | — |
| 5. Phascolarctidae .... | 368 | 11. Didelphiidae..... | 375 |
| 6. Phascolomiidae .... | 369 | *12. Coenolestidae .... | — |


## Family MACROPODIDAE.

Genera :


| | Page | | Page |
|---|---|---|---|
| 1. *Macropus* ..... | 349 | 6. *Dendrolagus* ..... | 360 |
| 2. *Petrogale* ..... | 357 | 7. *Aepyprymnus*..... | 361 |
| 3. *Onychogalea* ..... | 358 | 8. *Bettongia*..... | 361 |
| 4. *Lagorchestes* ..... | 359 | 9. *Potoroïs* ..... | 362 |
| 5. *Dorcopsis* ..... | 359 | | |


### Genus **Macropus** Shaw, Nat. Misc. **1**, pl. 33 & text, 1790.

Species :


| | Page | | Page |
|---|---|---|---|
| 1. *giganteus* ..... | 349 | 10. *parryi* ..... | 354 |
| 2. *antilopinus* ..... | 351 | 11. *irma* ..... | 355 |
| 3. *robustus* ..... | 351 | 12. *agilis* ..... | 355 |
| 4. *rufus* ..... | 352 | 13. *brunii* ..... | 355 |
| 5. *magnus*..... | 353 | 14. *thetidis* ..... | 356 |
| 6. *hagenbecki* ..... | 353 | 15. *eugenii* ..... | 356 |
| 7. *ualabatus* ..... | 353 | 16. *billardieri* ..... | 356 |
| 8. *ruficollis* ..... | 354 | 17. *brachyurus* ..... | 356 |
| 9. *dorsalis* ..... | 354 | | |


876. *Macropus giganteus* (Zimmermann), Spec. Zool. Geogr. p. 526, 1777.

Great Grey Kangaroo, or Forester.

*Hab.* Australia : formerly widely distributed, except in centre and north, in open forest country.

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= not yet alive in Gardens, 31 Dec. 1927.

*Fig.* Gould, Mamm. Austr. **2**, 1857, pl. 2, as *Macropus major*.

Although only discovered in 1770, the Great Kangaroo appears to have been exhibited alive in London in 1793, and specimens kept in Richmond Park bred there before the end of the 18th century. The species was introduced into the Society's Gardens in Regent's Park 1 June, 1828.

At least twenty-six born in the Gardens 1830–1911.

Synonym. *Macropus ocydromus* Gould 1842.

876 A. *Macropus giganteus tasmaniensis* A. S. Le Souef, Aus. Zool. **3**, p. 146, 1923.

Tasmanian Kangaroo.

*Hab.* Tasmania.

*Fig.* Gould, Mamm. Austr. **2**, 1852, pl. 5, as *M. fuliginosus*.

The Tasmanian Kangaroos in the Society's collection were for many years considered a distinct species from the Great Kangaroo, and entered in the books under the names of *M. fuliginosus* and *M. melanops*.

Three born in the Gardens : on 9 June, 1868, 17 June, 1870, and 27 July, 1871, respectively.

876 B. *Macropus giganteus melanops* Gould, Proc. Zool. Soc. London, 1842, p. 10.

Black-faced Kangaroo.

*Hab.* Australia : east, south and west in scrub and bush.

*Fig.* Wild Animals of Australasia, 1926, fig. 22 : photograph.

Owing to confusion with the Tasmanian Kangaroo, it is not possible to determine definitely in what year this species was first exhibited alive, but it was probably in 1851.

876 C. *Macropus giganteus fuliginosus* (Desmarest), Mammal. **1**, p. 272, 1820. *v.* F. Wood Jones, Proc. Zool. Soc. London, 1924, p. 451.

Kangaroo Island Kangaroo.

*Hab.* Kangaroo Island, South Australia.

*Fig.* Wild Animals of Australasia, 1926, fig. 23 : photograph.

A pair were purchased 19 June, 1924.

877. *Macropus antilopinus* (Gould), Proc. Zool. Soc. London, 1841, p. 80.

Antilopine Kangaroo.

*Hab.* Australia : Arnhem Land, Northern Territory.

*Figs.* Gould, Mamm. Austr. 2, 1858, pl. 9, as *Osphranter antilopinus*. Wild Animals of Australasia, 1926, fig. 24 : photograph.

One deposited 14 May, 1904.

878. *Macropus robustus* Gould, Proc. Zool. Soc. London, 1840, p. 92.

Alternative name *Macropus robustus robustus*.

Wallaroo.

*Hab.* Eastern Australia : mountain country from South Queensland to New South Wales.

*Figs.* Gould, Mamm. Austr. 2, 1858, pl. 11, as *Osphranter robustus*. Wild Animals of Australasia, 1926, fig. 25 : photograph.

The date when first received in London Z. G. has not been traced.

Seven born in the Gardens 1889–1912.

878 A. *Macropus robustus erubescens* P. L. Sclater, Proc. Zool. Soc. London, 1870, p. 126.

Euro.

*Hab.* Northern part of State of South Australia to Central Australia.

*Fig.* P. Z. S. 1870, pl. 10 : ♂ juv.

A male purchased 25 Feb. 1870, was the type of the subspecies.

878 B. *Macropus robustus cervinus* Thomas, Proc. Zool. Soc. London, 1900, p. 113.

Biggada. Deer-coloured Wallaroo.

*Hab.* Western Australia : Murchison District.

*Fig.* Wild Animals of Australasia, 1926, fig. 26 : photograph.

A pair deposited 3 May, 1907.

878 c. *Macropus robustus woodwardi* Thomas, Nov. Zool. Tring, **8**, 1901, p. 395.

Woodward's Wallaroo.

*Hab.* Western Australia : Murchison District.

*Fig.* Wild Animals of Australasia, 1926, figs. 28, 29 : photographs.

First received 3 May, 1907, when two were deposited. Named after Mr. Bernard H. Woodward, of the Perth Museum, W.A.

878 d. *Macropus robustus alligatoris* Thomas, Nov. Zool. Tring, **11**, 1904, p. 224.

Alligator-River Wallaroo.

*Hab.* Australia : Northern Territory.

*Fig.*

First received, 26 Aug. 1904, when a female was deposited.

878 e. *Macropus robustus argentatus* Rothschild, Nov. Zool. Tring, **12**, 1905, p. 509.

Silky-haired Wallaroo.

*Hab.* Australia : Northern Territory.

*Fig.*

First received 17 Aug. 1905, when two were deposited, one of which appears to have been the type of *argentatus*.

879. *Macropus rufus* (Desmarest), Mamm. (Suppl.) **2**, p. 541, 1822.

Red Kangaroo.

*Hab.* Australia : inland, open plain country.

*Figs.* Wolf, Zool. Sketches, 1867 (2) pl. 26. Wild Animals of Australasia, 1926, figs. 27 & 32: photographs of typical and western forms.

*M. pictus* Gould, P. Z. S. 1860, p. 373, *nom nud.*, was founded on an individual male *M. rufus* which had been purchased 10 June, 1860, and was living in the Collection 13 November, 1860, when Gould gave the name.

Thirty-five born in the Gardens 1867–1924.

880. *Macropus magnus* Owen, Phil. Trans. Roy. Soc. 1874, p. 247. *v.* Thomas, Brit. Mus. Cat. Marsup. p. 27, 1888.

Alternative name *Macropus rufus magnus*.

Owen's Kangaroo.

*Hab.* North-west Australia.

*Fig.*

Two deposited 29 April 1907, and two more 3 May, 1907, *cp.* Novit. Zool. Tring, **17**, 1910, p. 89.

881. *Macropus hagenbecki* Rothschild, Novit. Zool. Tring, **14**, 1907, p. 333.

Hagenbeck's Kangaroo.

*Hab.* North Australia.

*Fig.* Novit. Zool. Tring, **14**, 1907, pl. 2.

A male deposited 18 Dec. 1906.

882. *Macropus ualabatus* (Lesson & Garnier), Voy. Coquille, Zool. **1**, p. 161, 1826.

? *Macropus bicolor* (Desmarest) 1803. *v.* Cabrera, Gen. Mamm. Monotr. Marsup. p. 149, 1919.

The Wallaby (maker of "Wallaby tracks"). Black-tailed Wallaby. Black Wallaby. Swamp Wallaby.

*Hab.* Eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1857, pl. 23, as *Halmaturus ualabatus*. Wild Animals of Australasia, 1926, figs. 33, 34: photographs.

Possibly first received in 1866. Early entries, from 1834 onwards, of *ualabatus* being in the Gardens, probably refer to *M. bennetti*.

Seven born in the Gardens 1871–1911.

883. *Macropus ruficollis* (Desmarest), Nouv. Dict. Hist. Nat. (2) **17**, p. 37, 1817.

Red-necked Wallaby.

*Hab.* South-eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1854, pl. 15, as *Halmaturus ruficollis*. Wild Animals of Australasia, 1926, fig. 35 : photograph.

First received in 1847, or early in 1848.

Living in the Menagerie 26 June, 1860, and "had during these last three years bred abundantly under the Society's care," P. L. Sclater, P. Z. S. 1860, p. 323.

Six born in the Society's Gardens 1901–1923, and four hybrids with *M. bennetti* 1861–1869.

883 A. *Macropus ruficollis bennetti* G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 103.

Bennett's Wallaby.

*Hab.* Tasmania.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 19. Wild Animals of Australasia, 1926, fig. 36 : photograph.

The type was a male that had died in the Society's Menagerie. "The Society has possessed several living specimens, and there is still one in the Gardens, which was bred there." G. R. Waterhouse, 24 Oct. 1837, P. Z. S. 1837, p. 103.

More than sixty born in the Gardens 1837–1925.

884. *Macropus dorsalis* (J. E. Gray), Mag. Nat. Hist. (n. s.) **1**, p. 583, 1837.

Black-striped Wallaby.

*Hab.* Eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1857, pl. 17, as *Halmaturus bennetti*. Wild Animals of Australasia, 1926, fig. 37 : photograph.

One presented 28 May, 1870, by Mr. G. M. Roberts.

Three born in the Gardens 1907, 1908.

885. *Macropus parryi* E. T. Bennett, Proc. Zool. Soc. London, 1834, p. 151.

Parry's Wallaby. Pretty Face. Whip-tail.

*Hab.* Australia : highlands of northern New South Wales and Queensland.

*Figs.* Gould, Mamm. Austr. **2**, 1852, pl. 13. Wild Animals of Australasia, 1926, fig. 36 : photograph.

Named after Capt. Sir Edward W. Parry, R.N., who presented the type-specimen which he had had alive for two years in New South Wales. It was six months on the voyage home, and died, from the effects of an accident, almost immediately after its arrival in England. A second specimen was presented by Mr. James Macarthy 1 Dec. 1836. One was born in the Gardens in 1908 and one in 1910.

886. *Macropus irma* (Jordan), Ann. Sci. Nat. Zool. (2) **8**, p. 371, 1837.

Black-gloved Wallaby. Brush (in West. Australia).

*Hab.* South-west Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1852, pl. 21, as *Halmaturus manicatus.* Wild Animals of Australasia, 1926, fig. 39 : photograph.

One deposited 3 May, 1907.

887. *Macropus agilis* (Gould), Proc. Zool. Soc. London, 1841, p. 81.

Agile Wallaby.

*Hab.* Northern Australia : some islands off coast and Papua.

*Figs.* Gould, Mamm. Austr. **2**, 1857, pl. 25, as *Halmaturus agilis.* Wild Animals of Australasia, 1926, fig. 40 : photograph.

One purchased 28 May, 1875.

888. *Macropus brunii* (Schreber), Säugth. **3**, p. 551, 1778. *v.* Thomas, Brit. Mus. Cat. Marsup. p. 49 & footnote, 1888.

Philander.* Aru Island Wallaby. De Bruyn's Wallaby.

*Hab.* Aru and Kei Islands.

*Figs.* Schlegel & S. Müller, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. 1839–1844, pl. 21, as *Hypsiprymnus brunii* : not a satisfactory picture.

One deposited 9 Sept. 1904.

* Or "Pelandor Aru"; from "Pelándok," a Malay name for a Mouse-Deer *Tragulus.* *v.* Cabrera, Gen. Mamm. Monotr. Marsup. p. 32, 1919.

889. *Macropus thetidis* (Lesson), Man. Mamm. p. 229, 1827. *v.* Thomas, Brit. Mus. Cat. Marsup. p. 52, 1888.

Pademelon Wallaby. Thigh-striped Wallaby.

*Hab.* South-eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1857, pl. 32, as *Halmaturus thetidis*. Wild Animals of Australasia, 1926, fig. 42 : photograph.

Living in the Menagerie 26 June, 1860, and "had, during these last three years, bred abundantly under the Society's care," P. L. Sclater, P.Z.S. 1860, p. 323.

890. *Macropus eugenii* (Desmarest), Nouv. Dict. Hist. Nat. (2) **17**, p. 38, 1817.

*Macropus derbianus.*

Dama Wallaby. Derbian Wallaby. Eugene Island Wallaby. Tammar (in West. Australia).

*Hab.* South-western Australia and islands off coast.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 21. Gould, Mamm. Austr. **2**, 1859, pl. 30, as *Halmaturus derbianus*. Wild Animals of Australasia, 1926, fig. 43 : photograph.

A pair purchased 10 March, 1862.
Fifteen born in the Gardens, 1863–1925.

891. *Macropus billardieri* (Desmarest), Mamm. Suppl. **2**, p. 542, 1822.

Billardier's Wallaby. Red-bellied Wallaby.

*Hab.* Tasmania and south-eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1860, pl. 36, as *Halmaturus billardieri*. Wild Animals of Australasia, 1926, fig. 44: photograph.

First received in 1843, or early in 1844.
Four born in the Gardens 1912–1914.

892. *Macropus brachyurus* (Quoy & Gaimard), Voyage de l'Astrolabe, Zool. i. p. 114, 1830.

Short-tailed Wallaby. Quokka (in West. Australia).

*Hab.* South-western Australia.

*Figs.* Quoy & Gaimard, *l. c. s.* pl. 19. Gould, Mamm. Austr. **2**, 1855, pl. 38, as *Halmaturus brachyrus*. Wild Animals of Australasia, 1926, fig. 45 : photograph.

Four purchased 26 April, 1878.

One born in the Gardens 26 Aug. 1921 ; it lived for three months.

Genus **Petrogale** J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 583, 1837.

Species :


| | Page |
|---|---|
| 1. *xanthopus* | 357 |
| 2. *penicillata* | 357 |
| 3. *brachyotis* | 358 |
| 4. *rothschildi* | 358 |


893. *Petrogale xanthopus* J. E. Gray, Proc. Zool. Soc. London, 1854, p. 249.

Yellow-footed Rock-Wallaby.

*Hab.* Australia: inland, from South Australia to western Queensland.

*Figs.* P. Z. S. 1854, Mamm. pl. 39. Wild Animals of Australasia, 1926, fig. 46 : photograph.

First received, one purchased in June 1860.

Thirty-seven born in the Gardens 1865–1894 : young have been born in every month of the year.

894. *Petrogale penicillata* (J. E. Gray), in Griffith, Anim. Kingd. **5**, p. 204, 1827.

Brush-tailed Rock-Wallaby.

*Hab.* Eastern Australia.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 22, as *Macropus penicillatus*. Wild Animals of Australasia, 1926, fig. 47 : photograph.

One presented shortly before 12 April, 1836, by Capt. Deloitte, C.M.Z.S.

Four born in the Gardens 1896–1900.

895. *Petrogale brachyotis* (Gould), Proc. Zool. Soc. London, 1840, p. 128.
Short-eared Rock-Wallaby.
*Hab.* North-western Australia.
*Fig.* Gould, Mamm. Austr. **2**, 1859, pl. 47.
A male deposited 7 Sept. 1899.

896. *Petrogale rothschildi* Thomas, Novit. Zool. Tring, **11**, p. 366, 1904.
Rothschild's Rock-Wallaby.
*Hab.* Mid-north-west Australia.
*Fig.*
Two deposited 5 June, 1906.

Genus **Onychogalea** J. E. Gray, in Grey, Australia, App. **2**, p. 402, 1841.

Species :


| | Page |
|---|---|
| 1. *unguifera* | 358 |
| 2. *frenata* | 358 |
| 3. *lunata* | 359 |


897. *Onychogalea unguifera* (Gould), Proc. Zool. Soc. London, 1840, p. 93.
Fawn Nail-tailed Wallaby.
*Hab.* North-western and northern Australia.
*Fig.* Gould, Mamm. Austr. **2**, 1859, pl. 53.
Five deposited 31 Jan. 1902.

898. *Onychogalea frenata* (Gould), Proc. Zool. Soc. London, 1840, p. 92.
Bridled Nail-tailed Wallaby.
*Hab.* Eastern Australia.
*Figs.* Gould, Mamm. Austr. **2**, 1849, pl. 54. Wild Animals of Australasia, 1926, fig. 48 : photograph.
Two females purchased 21 May, 1897.
One born in the Gardens in 1908.

899. *Onychogalea lunata* (Gould), Proc. Zool. Soc. London, 1840, p. 93.
Crescent Nail-tailed Wallaby. Wurrung.
*Hab.* South-west and central Australia.
*Figs.* Gould, Mamm. Austr. **2**, 1849, pl. 55.
One purchased 9 March, 1865.

Genus **Lagorchestes** Gould, Mon. Macrop. letterpress to unnumbered plate, 1841, & Proc. Zool. Soc. London, 1841, p. 82.

Species:

Page
1. *hirsutus* ..... 359

900. *Lagorchestes hirsutus* Gould, Proc. Zool. Soc. London, 1844, p. 32.
Rufous Hare-Wallaby. Wurrup.
*Hab.* Central and western Australia.
*Fig.* Gould, Mamm. Austr. **2**, 1849, pl. 58.
One deposited 9 Sept. 1903.

Genus **Dorcopsis** Schlegel & S. Müller, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. p. 130, 1839–1844.

Species:

Page
1. *luctuosa* ..... 359
2. *rufolateralis* ..... 360

901. *Dorcopsis luctuosa* (D'Albertis), Proc. Zool. Soc. London, 1874, p. 110.
Grey New Guinea Wallaby.
*Hab.* New Guinea: eastern and south-eastern districts.
*Figs.* P. Z. S. 1874, pl. 42, as *Halmaturus luctuosus.*
The type of the species was a female deposited 17 April, 1874, by Signor L. M. D'Albertis, C.M.Z.S.; it died 24 Nov. 1874.

902. *Dorcopsis rufolateralis* W. & N. C. Rothschild, Novit. Zool. Tring, **5**, p. 512, 1898.

Red-sided New Guinea Wallaby.

*Hab.* New Guinea: northern districts.

*Fig.*

One deposited 1 Nov. 1898, appears to have been the type of the species.

Genus **Dendrolagus** Schlegel & S. Müller, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. p. 130, 1839–1844.

Species:


| | Page |
|---|---|
| 1. *ursinus* | 360 |
| 2. *inustus* | 360 |
| 3. *bennettianus* | 361 |


903. *Dendrolagus ursinus* Schlegel & S. Müller, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. p. 131, 1839–1844.

Black Tree-Kangaroo.

*Hab.* New Guinea: north-western districts.

*Figs.* Schlegel & S. Müller, *l. c. s.* pl. 19. Gould, Mamm. Austr. **2**, 1856, pl. 49.

A pair purchased 25 June, 1909.

One born in the Gardens 10 April, 1912: it died when nine weeks old.

904. *Dendrolagus inustus* Schlegel & S. Müller, in Temminck, Verh. Nat. Ges. Ned. overz. bez. Zoogd. p. 131, 1839–1844.

Grizzled Grey Tree-Kangaroo.

*Hab.* New Guinea.

*Figs.* Schlegel & S. Müller, *l. c. s.* pl. 20. Gould, Mamm. Austr. **2**, 1856, pl. 50.

The first brought to England was a present from Col. Butterworth, Governor of Singapore. Capt. M'Quhae, R.N., arranged the transport to London, and it arrived 8 Oct. 1848. It was a male. It died 13 Oct. 1852, having lived in the Gardens

4 years and 5 days. A second individual was received 4 Nov. 1865, in exchange from the Rotterdam Z. G., and a third purchased 19 Nov. 1877, from M. Léon Laglaize.

905. *Dendrolagus bennettianus* De Vis, Abstr. Proc. Linn. Soc. N.S.W. p. v. (Oct. 27, 1886)? *v.* P. L. Sclater, Proc. Zool. Soc. London, 1894, p. 694.

Bennett's Tree-Kangaroo.

*Hab.* Australia : Queensland.

*Fig.* P. Z S. 1894, pl. 46.

Two pairs received 22 Nov. 1894, one in exchange from the Melbourne Z. G. and one on deposit.

Genus **Aepyprymnus** Garrod, Proc. Zool. Soc. London, 1875, p. 59.

Species:

Page
1. *rufescens* ..... 361

906. *Aepyprymnus rufescens* (J. E. Gray) Mag. Nat. Hist. (n. s.) **1**, p. 584, 1837.

Rufous Rat-Kangaroo.

*Hab.* Eastern Australia.

*Figs.* Gould, Mamm. Austr. **2**, 1855, pl. 65. Wild Animals of Australasia, 1926, fig. 51: photograph.

The type of *rufescens* Gray 1837 (which was also the type of *melanotis* Ogilby, P. Z. S. 1838, p. 62) was in the Society's Museum. The first record of a live specimen is of one purchased 9 March, 1865.

Eighteen born in he Gardens 1882–1912.

Genus **Bettongia** J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 584, 1837.

Species :

Page
1. *cuniculus* ..... 362
2. *gaimardi* ..... 362
3. *penicillata* ..... 362

907. *Bettongia cuniculus* (Ogilby) Proc. Zool. Soc. London, 1838, p. 63.

Tasmanian Rat-Kangaroo.

*Hab.* Tasmania.

*Figs.* Gould, Mamm. Austr. **2**, 1854, pl. 63. Wild Animals of Australasia, 1926, fig. 52: photograph.

First received between 29 April, 1843, and 29 April, 1844.

Six Rat-Kangaroos born in the Gardens in 1853, 1854 may have been of this species, but it is not certain.

908. *Bettongia gaimardi* (Desmarest), Mamm. Suppl. **2**, p. 542, 1822.

Gaimard's Rat-Kangaroo.

*Hab.* Australia: New South Wales.

*Fig.* Quoy et Gaimard, Voy. Uranie & Physicienne, Zool. 1824, Atlas, pl. 10, as *Hypsiprymnus whitei*.

Two purchased 27 Jan. 1863.

Eighteen born in the Gardens 1864–1883, and three hybrids between this species and *B. penicillata* 1874–1875.

909. *Bettongia penicillata* J. E. Gray, Mag. Nat. Hist. (n. s.) **1**, p. 584, 1837.

*Hypsiprymnus ogilbyi*.

Brush-tailed Rat-Kangaroo. Woilie (in West. Australia).

*Hab.* Australia: south of tropics, absent from central territory.

*Fig.* Gould, Mamm. Austr. **2**, 1852, pl. 61.

First received 15 July, 1844.

Four born in the Gardens 1903–1910.

Genus **Potorous** Desmarest, Nouv. Dict. Hist. Nat. (1) **24**, Tabl. Méth. Mamm. p. 20, 1804.

Species:


| | Page |
|---|---|
| 1. *tridactylus* | 363 |
| 2. *platyops* | 363 |

910. *Potoroüs tridactylus* (Kerr), Anim. Kingd. p. 198, 1792.

*Hypsiprymnus apicalis.*

Dark Rat-Kangaroo.

*Hab.* South-eastern Australia and Tasmania.

*Figs.* Gould, Mamm. Austr. **2**, 1851, 1854, pls. 67 & 68, as *Hypsiprymnus murinus* and *H. apicalis.* Wild Animals of Australasia, 1926, figs. 53, 54 : photographs.

One alive in the Gardens 29 April, 1834, appears to have been purchased 20 June, 1833, from Mr. Bennett.

911. *Potoroüs platyops* (Gould), Proc. Zool. Soc. London, 1844, p. 103.

Broad-faced Rat-Kangaroo.

*Hab.* Australia : some districts in the south of western Australia. "Now very rare and possibly extinct." A. S. Le Souef & H. Burrell, Wild Animals of Australasia, 1926, p. 237.

*Fig.* Gould, Mamm. Austr. **2**, 1851, pl. 70.

One received in exchange, 9 June, 1908.

## Family PHALANGERIDAE.

Genera :


| | Page | | Page |
|---|---|---|---|
| 1. *Acrobates* ..... | 363 | 5. *Trichosurus* ..... | 366 |
| 2. *Dromicia* ..... | 364 | 6. *Phalanger* ..... | 367 |
| 3. *Dactylopsila* ..... | 364 | 7. *Pseudochirus* ..... | 367 |
| 4. *Petaurus* ..... | 365 | | |


### Genus **Acrobates** Desmarest, Nouv. Dict. Hist. Nat. (2) **25**, p. 405, 1817.

Species :


1. *pygmaeus* ..... Page 363


912. *Acrobates pygmaeus* (Shaw), Zool. New Holland, **1**, p. 5, 1794. *v.* Sherborn, Index Anim. **1**, p. 801, 1902.

Pygmy Flying-Acrobat.

*Hab.* Eastern Australia.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 30, as *Petaurus pygmaeus*. Gould, Mamm. Austr. **1**, 1849, pl. 28. Wild Animals of Australasia, 1926, fig. 56 : photograph.

First received in the Gardens before July, 1844, as far as can be ascertained now.

Genus **Dromicia** J. E. Gray, in Grey, Australia, App. **2**, p. 407, 1841.

Species :

1. *nana* ..... ..... Page 364

913. *Dromicia nana* (Desmarest), Nouv. Dict. Hist. Nat. (2) **25**, p. 477, 1817.

Dormouse-Phalanger.

*Hab.* Australia : south-eatern Australia and Tasmania.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 26, as *Phalangista nana*. Gould, Mamm. Austr. **1**, 1845, pl. 29, as *Dromicia gliriformis*. Wild Animals of Australasia, 1926, figs. 57, 58 : photographs.

First received between 29 April, 1840, and 29 April, 1841.

Genus **Dactylopsila** J. E. Gray, Proc. Zool. Soc. London, 1858, p. 109.

Species :

1. *trivirgata* ..... Page 364

914. *Dactylopsila trivirgata* J. E. Gray, Proc. Zool. Soc. London, 1858, p. 111.

White-footed Three-striped Phalanger.

*Hab.* Papuasia : New Guinea, Aru and other islands.

*Fig.* P. Z. S. 1858, pl. 63.

One presented 26 July, 1907, by Mr. W. Goodfellow, F.Z.S.

Genus **Petaurus** Shaw, Nat. Misc. **2**, text to pl. 60, 1791.

Species :


| | Page |
|---|---|
| 1. *australis* | 365 |
| 2. *sciureus* | 365 |
| 3. *breviceps* | 365 |


915. *Petaurus australis* Shaw, Nat. Misc. **2**, pl. 60, 1791.

*Belideus flaviventris*. *Belideus flaviventer*.

Long-tailed Flying-Opossum. Yellow-bellied Flying Phalanger.

*Hab.* Eastern Australia : from northern Queensland to southern Victoria.

*Figs.* Gould, Mamm. Austr. **1**, 1845, pl. 23. Wild Animals of Australasia, 1926, fig. 60 : photograph.

First received 27 March, 1839, when one was presented by Lady Maria Stanley.

A young female received in Australia by Dr. George Bennett, F.Z S., in Nov. 1858, left Sydney 14 March, 1859, and arrived in the London Z. G. 28 May, 1859.

916. *Petaurus sciureus* (Shaw), Zool. New. Holl. **1**, p. 29, 1794. *v.* Sherborn, Index Anim. **1**, p. 878, 1902.

*Belideus sciureus*.

Squirrel Flying-Opossum.

*Hab.* Eastern Australia : from Queensland to Victoria.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 28. Wild Animals of Australasia, 1926, fig. 61 : photograph.

One was alive in the Collection in 1829.

Twenty-five born in the Gardens 1879–1901.

917. *Petaurus breviceps* G. R. Waterhouse, Proc. Zool. Soc. London, 1838, p. 152.

*Belideus breviceps*. *Belideus ariel*.

Short-headed Flying-Opossum. Ariel Phalanger.

*Hab.* Australia : Victoria, New South Wales, Queensland and Northern Territory.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 29. Wild Animals of Australasia, 1926, fig. 62: photograph.

First received in 1843, or early in 1844.

Sixteen born in the Gardens 1860–1899. One born in the Gardens 27 Dec. 1927, registered as *Petaurus breviceps papuanus*, so the New Guinea as well as the Australian form of *P. breviceps* has been represented in the Collection.

Genus **Trichosurus** Lesson, Dict. Class. Hist. Nat. **13**, p. 333, 1828.

Species:


| | Page |
|---|---|
| 1. *vulpecula* | 366 |
| 2. *caninus* | 366 |


918. *Trichosurus vulpecula* (Kerr), Anim. Kingd. p. 198, 1792.

*Phalangista vulpina.*

Silver-grey, or Long-eared Opossum.

*Hab.* Australia, widely distributed, and Tasmania: introduced into New Zealand.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 23. Wild Animals of Australasia, 1926, figs. 69–72: photographs, normal type and varieties.

One was received alive before 29 April, 1831, and one 13 June, 1831, and another living in the Gardens 27 Sept. 1831, from Tasmania, was the type of *Phalangista fuliginosa* Ogilby, P. Z. S. 1831, p. 135, known as the "Sooty" or "Dusky Phalanger." This brown variety is now known from the mainland of Australia also, and is not regarded as a real subspecies.

At least forty-eight born in the Garden, 1857–1924: born in every month of the year.

919. *Trichosurus caninus* (Ogilby), Proc. Zool. Soc. London, 1835, p. 191.

Short-eared Opossum.

*Hab.* Eastern Australia.

*Figs.* Gould, Mamm. Austr. **1**, 1856, pl. 17, as *Phalangista canina*. Wild Animals of Australasia, 1926, figs. 73–75: photographs, races from coastal and mountain districts.

One deposited 17 Dec. 1865.

Genus **Phalanger** Storr, Prodr. Meth. Mamm. p. 33, 1780.

Species:

Page
1. *maculatus* ..... 367
2. *orientalis* ..... 367

920. *Phalanger maculatus* (E. Geoffroy), Cat. Mus. p. 149, 1803. *v.* Thomas, Brit. Mus. Cat. Marsup. p. 197, 1888.

Spotted Cuscus.

*Hab.* Austro-Malaya: northern Australia, New Guinea and some islands.

*Figs.* Gould, Mamm. Austr. **1**, 1860, pl. 21, as *Cuscus brevicaudatus*. Wild Animals of Australasia, 1926, fig. 76: photograph.

One purchased 4 Oct. 1907.

921. *Phalanger orientalis* (Pallas), Misc. Zool. p. 59, 1766.

Grey Cuscus.

*Hab.* Austro-Malaya: from Timor to New Guinea and the Louisiade Archipelago. Six, or more, geographical races have been recognised.

*Fig.* P. Z. S. 1858, pl. 61, as *Cuscus orientalis*, and pl. 62, as *Cuscus celebensis*.

One, from the Solomon Islands, presented 4 March, 1889, by Mr. C. M. Woodford.

Genus **Pseudochirus** Ogilby, Proc. Zool. Soc. London, 1836, p. 26.

Species:

Page
1. *peregrinus* ..... 368
2. *cookii* ..... 368

922. *Pseudochirus peregrinus* (Boddaert), Elench. Anim. **1**, p. 78, 1785.

Queensland Grey Ring-tailed Opossum.

*Hab.* Australia: northern Queensland, with allied forms southwards to Victoria.

*Fig.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 25, as *Phalangista cookii*. Gould, Mamm. Austr. **1**, 1856, 1858, pl. 18, as *Phalangista cooki*, and pl. 20 as *Phalangista lanuginosa*.

A female purchased 14 June, 1895.

923. *Pseudochirus cookii* (Desmarest), Nouv. Dict. Hist. Nat. (2) **25**, p. 476, 1817.

Tasmanian Ring-tailed Opossum.

*Hab.* Tasmania.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 24, as *Phalangista banksii*. Gould, Mamm. Austr. **1**, 1856, pl. 19, as *Phalangista viverrina*.

A female purchased 10 Feb. 1885.

## Family PHASCOLARCTIDAE.

Genus:

1. *Phascolarctos* ..... Page 368

### Genus **Phascolarctos** Blainville, Bull. Soc. philom. Paris, 1816, p. 116 (misprinted 108).

Species:

1. *cinereus* ..... Page 368

924. *Phascolarctos cinereus* (Goldfuss), Isis, **4**, p. 271, 1819.

*Phascolarctus cinereus.*

Koala. Native Bear.

*Hab.* Eastern Australia.

*Figs.* Gould, Mamm. Austr. **1**, 1854, pl. 14. P. Z. S. 1880, p. 355: uncoloured. Wild Animals of Australasia, 1926, fig. 77, as *P. c. adusius*: photograph.

A female purchased 28 April, 1880.

## Family PHASCOLOMIIDAE.

Genus:

Page
1. *Phascolomis* ..... 369

### Genus **Phascolomis** E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **2**, p. 365, 1803.

Species:

Page
1. *mitchelli* ..... 369
2. *tasmaniensis* ..... 369
3. *ursinus* ..... 370
4. *latifrons* ..... 370

925. *Phascolomis mitchelli* Owen, Appendix Mitchell's 'Three Exp. into Australia,' **2**, p. 363, 1830.

*Phascolomys platyrhinus.*

Mitchell's Wombat. Australian Naked-nosed Wombat.

*Hab.* South-eastern Australia, from northern New South Wales, through Victoria, to eastern South Australia.

*Fig.* P. Z. S. 1867, pl. 35.

Two presented 18 March, 1863, by the Melbourne Z. G.; one of these was of the black variety described by Gould as *P. niger*.

This species is named after Col. Sir Thomas L. Mitchell (1792–1855).

926. *Phascolomis tasmaniensis* Spencer & Kershaw, Mem. Nat. Mus. Melb. No. 3, p. 58, 1910.

*Phascolomys wombat* in part.

Tasmanian Wombat.

*Hab.* Tasmania.

*Fig.* Wolf, Zool. Sketches, 1861, pl. 32.

A female was presented 26 Oct. 1830, by Mr. Charles Telfair: it died 17 April, 1836.

One born in the Gardens in 1858.

927. *Phascolomis ursinus* (Shaw), Gen. Zool. **1**, pt. 2, p. 504, 1800.

*Phascolomys wombat* in part.

Flinders Island Wombat.

*Hab.* Flinders and Deal Islands, Bass Straits, Australia.

*Fig.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 32. Of this species?

A male is said to have lived as a domestic pet in London in the house of Mr. Clift for two years. It was dissected by Sir Everard Home in 1808. Phil. Trans. Roy. Soc. **98**, 1808, p. 304.

The date of the first arrival of a specimen in the Gardens is not known.

928. *Phascolomis latifrons* Owen, Proc. Zool. Soc. London, 1845, p. 82.

Alternative name *Lasiorhinus latifrons*.

Hairy-nosed Wombat.

*Hab.* South-eastern Australia, west of Dividing Range.

*Figs.* P. Z. S. 1865, pl. 47. Wolf, Zool. Sketches (2) 1867, pl. 27.

One purchased 24 July, 1862, was figured by Gould as *P. lasiorhinus*, Mamm. Austr. **1**, 1863, pl. 60.

## Family PERAMELIDAE.

Genera:


| | Page |
|---|---|
| 1. *Paragalia* | 371 |
| 2. *Isoodon* | 371 |
| 3. *Perameles* | 372 |

Genus **Paragalia** Gray, in Grey, Australia, App. 2, p. 401, 1841.

Species :

Page
1. *lagotis* ..... 371

929. *Paragalia lagotis* (Reid), Proc. Zool. Soc. London, 1836, p. 129.

*Peragale lagotis. Perameles lagotis.*

Alternative names : *Thylacomys lagotis. Thalacomys lagotis.*

Rabbit-eared Bandicoot. "Pinkie," "Dalgite" and "Bielby" in Australia.

*Hab.* Western Australia.

*Figs.* Gould, Mamm. Austr. **1**, 1845, pl. 7. Wild Animals of Australasia, 1926, fig. 79 : photograph.

First received 28 April, 1839, when one was purchased which died 20 Dec. 1840, thus living in the Gardens 1 year 7 months 22 days.

Genus **Isoodon** (I. Geoffroy), Desmarest, Nouv. Dict. Hist. Nat. (2) **16**, p. 409, 1817.

Species :

Page
1. *obesula* ..... 371

930. *Isoodon obesula* (Shaw), Nat. Miscell. **8**, pl. 298 *c*, 1793.

*Perameles obesula.*

Short-nosed Bandicoot. Quenda (in West. Australia).

*Hab.* Australia : widely distributed.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 14. Wild Animals of Australasia, 1926, figs. 80, 81 : photographs.

One purchased 15 April, 1880.

Genus **Perameles** E. Geoffroy, Bull. Soc. philom. Paris, **3**, no. 80, p. 249 (misprinted 149) 1803, & Ann. Mus. Hist Nat. Paris, **4**, p. 62, 1804.

Species:

Page
1. *nasuta* ..... 372

931. *Perameles nasuta* E. Geoffroy, Ann. Mus. Hist. Nat. Paris, **4**, p. 62, 1804.

Long-nosed Bandicoot.

*Hab.* Eastern Australia.

*Figs.* E. Geoffroy, *l.c. s.* pl. 44: uncoloured. Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 13. Wild Animals of Australasia, 1926, fig. 82: photograph.

One presented 9 June, 1908, by the Government of New South Wales.

## Family DASYURIDAE.

Genera:

Page
1. *Thylacinus* ..... 372
2. *Sarcophilus* ..... 373
3. *Dasyurus* ..... 373
4. *Phascogale* ..... 374

Genus **Thylacinus** Temminck, Mon. Mamm. **1**, p. 60, 1827.

Species:

Page
1. *cynocephalus* ..... 372

932. *Thylacinus cynocephalus* (Harris), Trans. Linn. Soc. London, **9**, p. 174, 1808.

Zebra Wolf. Marsupial Wolf. Tasmanian Wolf.

*Hab.* Tasmania.

*Figs.* Wolf, Zool. Sketches, 1861, pl. 61. Wild Animals of Australasia, 1926, fig. 84: photograph.

The first received alive in England were a pair brought home by Capt. Chris. Gwatkin on the barque 'Stirlingshire,' and presented to the Society 16 May, 1850, by Mr. Ronald Gunn and Dr. James Grant.

Genus **Sarcophilus** F. Cuvier, Hist. Nat. Mamm. livr. 70, text to plate "Sarcophile Oursin" (vol. 2, pl. 113, in Z. S. L. Library).

Species:

Page
1. *harrisii* ..... 373

933. *Sarcophilus harrisii* (Boitard), Jardin des Plantes, p. 290, 1842.

*Sarcophilus ursinus.*

Tasmanian Devil.

*Hab.* Tasmania.

*Figs.* Gould, Mamm. Austr. **1**, 1851, pl. 48. Wild Animals of Australasia, 1926, fig. 85 : photograph.

One purchased 15 Oct. 1833, from Capt. Riddell.

Synonym. *Sarcophilus satanicus* Thomas, A. M. N. H. (7) **11**, p. 289, 1903.

Genus **Dasyurus** E. Geoffroy, Bull. Soc. philom. Paris, **1**, p. 106, 1796.

Species:

Page
1. *viverrinus* ..... 373
2. *maculatus* ..... 374

934. *Dasyurus viverrinus* (Shaw), Gen. Zool. **1**, pt. **2**, p. 491, 1800.

*Dasyurus maugaei.*

Viverrine Native-Cat.

*Hab.* Australia : New South Wales, South Australia and Tasmania.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 7. Wild Animals of Australasia, 1926, figs. 87, 88 : photographs.

First received in 1829 : it died 20 Oct. 1830.

935. *Dasyurus maculatus* (Kerr), Anim. Kingd. p. 170, 1792.

*Dasyurus macrourus.*

Alternative name *Stictophonus maculatus.*

Large Spotted-tailed Native-Cat. Australian Tiger-Cat.

*Hab.* Australia: eastern Australia and Tasmania.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 6. Wild Animals of Australasia, 1926, fig. 86 : photograph.

One presented 3 July, 1832, by Mr. A. Stephen.

Genus **Phascogale** Temminck, Mon. Mamm. **1**, p. 56, 1827.

Species :

Page
1. *flavipes* ..... 374
2. *penicillata* ..... 374

936. *Phascogale flavipes* G. R. Waterhouse, Proc. Zool. Soc. London, 1837, p. 75.

*Phascologale flavipes.*

Alternative name *Antechinus flavipes.*

Yellow-footed Pouched-Mouse.

*Hab.* Australia: typically from eastern Australia; represented by subspecies in the western and northern districts.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 9. Wild Animals of Australasia, 1926, figs. 91, 92 : photographs.

Two presented 9 June, 1908, by the Government of New South Wales.

937. *Phascogale penicillata* (Shaw), Gen. Zool. **1**, pt. 2, p. 502, 1800.

*Phascologale penicillata.*

Brush-tailed Pouched-Mouse. Wambenger (in West. Australia).

*Hab.* Australia : widely distributed.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 8. Wild Animals of Australasia, 1926, fig. 93 : photograph.

One deposited 20 March, 1905.

## Family DIDELPHIIDAE.

Genera :


| | | Page |
|---|---|---|
| 1. | *Didelphis* | 375 |
| 2. | *Metachirus* | 377 |
| 3. | *Philander* | 378 |
| 4. | *Marmosa* | 379 |


### Genus **Didelphis** Linnaeus, Syst. Nat. **1**, p. 54, 1758.

Species :


| | | Page |
|---|---|---|
| 1. | *marsupialis* | 375 |


938. *Didelphis marsupialis* Linnaeus, Syst. Nat. **1**, p. 54, 1758.

American Opossum.

*Hab.* America : typically from Mexico, this species, with various local modifications, is found from the northern United States southwards to Chile, Paraguay and southern Brazil.

Five subspecies have been identified as living in the Gardens :—

A. *karkinophaga.*
B. *virginiana.*
C. *aurita.*
D. *azarae.*
E. *albiventris.*

938 A. *Didelphis marsupialis karkinophaga* Zimmermann, Geogr. Gesch. **2**, p. 226, 1780.

*Didelphys cancrivora.*

Crab-eating Opossum.

*Hab.* Tropical America.

*Fig.* Burmeister, Erlaüt. Faun. Bras. 1856, pl. 4.

First received in 1829.

938 B. *Didelphis marsupialis virginiana* Kerr, Anim. Kingd. p. 193, 1792.

*Didelphys virginiana.*

Virginian Opossum.

*Hab.* North America, from Long Island and the Great Lakes to Oklahoma and Texas. Introduced into California. Another subspecies, *D. m. pigra* Bangs 1898, occurs in Florida and the coast regions to north and west.

*Fig.* Audubon & Bachman, Quadr. N. Amer. **2**, 1851, pl. 66.

First received in 1829. A litter of six born in the Gardens 24 Aug. 1852 ; these survived for from one month eighteen days to one month twenty-four days.

938 c. *Didelphis marsupialis aurita* Wied, Beitr. Nat. Bras. **2**, p. 395, 1826.

*Didelphys aurita.*

Pink-tip-eared Opossum. Gamba Opossum. Wied's Opossum.

*Hab.* South America : south-eastern Brazil.

*Fig.* Burmeister, Erlaüt. Faun. Bras. 1856, pl. 3.

One presented 6 Nov. 1915, by Prof. J. P. Hill, F.R.S., F.Z.S.

938 d. *Didelphis marsupialis azarae* Temminck, Mon. Mamm. **1**, p. 30, 1827.

*Didelphys azarae.*

Striped-faced Opossum. Azara's Opossum.

*Hab.* South America: from Colombia and Chile to Brazil.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 1. Burmeister, Erlaüt. Faun. Bras. 1856, pl. 1.

A male presented 15 June, 1834, by Mr. Thomas Bell ; it died 24 June, 1834.

938 e. *Didelphis marsupialis albiventris* Lund, Kong. Danske Vidensk. Selsk. Blik. Bras. Dyrev. **8**, p. 236, 1841.

*Didelphys albiventris.*

Lund's Opossum. White-bellied Opossum.

*Hab.* South America: Brazil.

*Fig.* Burmeister, Erläut. Faun. Bras. 1856, pl. 2.

One, from Pernambuco, presented 16 Oct. 1880, by Mr. W. A. Forbes, F.Z.S. Three, from Minas Geraes, presented 6 Nov. 1915, by Prof. J. P. Hill, F.R.S., F.Z.S.

Genus **Metachirus** Burmeister, Thiere Brazil, **1**, p. 135, 1854.

Species :


| | Page |
|---|---|
| 1. *nudicaudatus* | 377 |
| 2. *crassicaudatus* | 377 |
| 3. *opossum* | 378 |


939. *Metachirus nudicaudatus* (E. Geoffroy), Cat. Mus. p. 142, 1803. *v.* Thomas, Brit. Mus. Cat. Marsup. p. 332, 1888.

*Didelphys nudicaudata.*

Rat-tailed Opossum.

*Hab.* South and Central America: from Brazil to Costa Rica.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 2. Burmeister, Erläut. Faun. Bras. 1856, pl. 10, as *Metachirus myosurus.*

One deposited 24 July, 1894.

940. *Metachirus crassicaudatus* (Desmarest), Nouv. Dict. Hist. Nat. (1) **24**, Tabl. Meth. Mamm. p. 19, 1804.

*Didelphys crassicaudata.*

Alternative name *Lutreolina crassicaudata.*

Thick-tailed Opossum.

*Hab.* South America: Argentina, Brazil and the Guianas.

*Fig.* Voy. Beagle, Zool. pt. 2, Mamm. 1839, pl. 30.

One presented 5 July, 1860, by Mr. W. D. Christie, F.Z.S.

941. *Metachirus opossum* (Linnaeus), Syst. Nat. **1**, p. 55, 1758.

*Didelphys opossum.*

Alternative name *Metachirops opossum.*

Four-spotted Opossum. Quica Opossum.

*Hab.* South and Central America to as far north as Mexico, where *M. o. fuscogriseus* (Allen) 1900 occurs.

*Fig.* Burmeister, Erläut. Faun. Bras. 1856, pls. 7, 8.

One received before 29 April, 1833. Forms from both South and Central America have been in the Gardens, but it cannot be said now which subspecies these represented.

Genus **Philander** Brisson, Regn. Anim. ed. 2, p. 207, 1762.

Species:

Page
1. *philander* ..... 378
2. *lanigera* ..... 378

942. *Philander philander* (Linnaeus), Syst. Nat. **1**, p. 54, 1758.

*Didelphys philander.*

Philander Opossum *.

*Hab.* South America: Brazil and the Guianas.

*Figs.* Burmeister, Erläut. Faun. Bras. 1856, pl. 13, as *Didelphys dichrura*, and pl. 14, fig. 1 as *philander*.

One purchased 15 April, 1882, appears to be the first record of this species being in the Gardens.

943. *Philander lanigera* (Desmarest), Mamm. **1**, p. 258, 1820.

*Didelphys lanigera. Didelphys derbiana.*

Woolly Opossum.

*Hab.* South and Central America: from Paraguay to as far north as Mexico. The range of *P. l. derbianus* (Waterhouse) 1841 is from Colombia to Panama.

* Called Philander by a pre-Linnean author, who confused it with *Macropus brunii*. *v. supra*, p. 355.

*Figs.* Jardine, Nat. Libr. Mamm. **11**, 1841, pl. 2 bis, as *D. derbianus*. Alston, Biol. Centr.-Amer. Mamm. 1879–1882, pl. 22, as *Didelphis derbiana*. Flower & Lydekker, Mamm. 1891, p. 135, fig. 38 : uncoloured.

Four presented 16 May, 1877, by Mr. L. R. Dickinson.

Genus **Marmosa** J. E. Gray, London Med. Repos. **15**, p. 308, 1821. *v.* Sherborn, Index Anim. **2**, 15, p. 3901, 1928.

Species :


| | Page |
|---|---|
| 1. *cinerea* | 379 |
| 2. *murina* | 379 |
| 3. *elegans* | 380 |


944. *Marmosa cinerea* (Temminck), Mon. Mamm. **1**, p. 46, 1827.

*Didelphys cinerea.*

Ashy Opossum.

*Hab.* South and Central America : from Bolivia to Costa Rica.

*Figs.* P. Z. S. 1860, Mamm. pl. 76, as *Didelphys waterhousei*. Alston, Biol. Cent.-Amer. Mamm. 1881, pl. 21.

One received in exchange 13 Oct. 1878.

945. *Marmosa murina* (Linnaeus), Syst. Nat. **1**, p. 55, 1758.

*Didelphys murina. Didelphys dorsigera.*

Murine Opossum. Tiny Opossum. Merian's Opossum.

*Hab.* South and Central America : from Brazil to as far north as Mexico, where the form *M. m. mexicana* Merriam 1897 occurs.

*Fig.* G. R. Waterhouse, N. H. Mamm. **1**, 1856, pl. 18, fig. 1.

One purchased 13 July, 1877.

946. *Marmosa elegans* (G. R. Waterhouse), Zool. Voy. Beagle, pt. 2, Mamm. p. 95, 1839.

*Didelphys elegans.*

Chilian Opossum.

*Hab.* South America: Chile.

*Fig.* Voy. Beagle, Mamm. 1839, pl. 31.

Two presented 8 July, 1913, by Mr. W. Goodfellow, F.Z.S.

## Order XXI. MONOTREMATA.

Families:


| | | Page |
|---|---|---|
| 1. | Tachyglossidae | 380 |
| *2. | Ornithorhynchidae | — |


### Family TACHYGLOSSIDAE.

Genera:


| | | Page |
|---|---|---|
| 1. | *Tachyglossus* | 380 |
| 2. | *Zaglossus* | 381 |


### Genus **Tachyglossus** Illiger, Prodr. Syst. Mamm. p. 114, 1811.

Species:


| | | Page |
|---|---|---|
| 1. | *aculeatus* | 380 |
| 2. | *setosus* | 381 |


947. *Tachyglossus aculeatus* (Shaw), Nat. Misc. **3**, pl. 109, 1792.

*Echidna hystrix.*

Alternative name *Echidna aculeata.*

Australian Spiny-Anteater, or Echidna.

*Hab.* Australia: widely distributed.

*Figs.* Gould, Mamm. Austr. **1**, 1852, pl. 2. Wild Animals of Australasia, 1926, figs. 98–101: photographs.

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* =not yet alive in Gardens, 31 Dec. 1927.

A male was purchased 26 April, 1845, for £12, from Mr. Jamrach: it died four days later. This is believed to have been the first individual ever brought alive to Europe.

948. *Tachyglossus setosus* (E. Geoffroy), Cat. Mus. Paris, p. 226, note, 1803. *v.* Cabrera, Gen. Mamm. Monotr. Marsup. p. 14, 1919. (G. Cuvier), Règn. Anim. **1**, p. 226, 1817.

Alternative name *Echidna setosa*.

Tasmanian Spiny-Anteater.

*Hab.* Tasmania.

*Fig.* Gould, Mamm. Austr. **1**, 1849, pl. 3.

Two purchased 9 June, 1908.

This form may be called *Tachyglossus aculeatus setosus*, as it is an island representative rather than a distinct species.

Genus **Zaglossus** Gill, Ann. Rec. Sci. & Ind. for 1876, p. clxxi. 1877. *v.* Palmer, N. Amer. Fauna, No. 23, Index Gen. Mamm. p. 712, 1904.

Species:

Page
1. *bruijnii* ..... 381

949. *Zaglossus bruijnii* (Peters & Doria), Ann. Mus. Civ. Stor. Nat. Genova, **9**, p. 183, 1876.

*Proechidna nigro-aculeata* Rothschild, Proc. Zool. Soc. London, 1892, p. 545.

Bruijn's Spiny-Anteater, or Echidna.

*Hab.* New Guinea: west of the Fly River. *v.* Thomas & Rothschild, A. M. N. H. (9) **10**, 1922, pp. 129–131.

*Figs.* Flower & Lydekker, Mamm. 1891, p. 126, fig. 33: uncoloured. Brehm, Tierl. Säugth. **1**, 1912, pl. opp. p. 60. Cabrera, Gen. Mamm. Monotr. Marsup. 1919, Mon. pl. 1, fig. 3: *Z. bruijnii nigroaculeatus*.

Two deposited 27 Nov. 1912, by the Hon. Walter Rothschild: one died 14 Feb. 1919, the other is still alive, 31 Dec. 1927.

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