

Annotated list of Type Specimens of Mammalia in the collection of the Natural History Museum Basel, Switzerland

In accordance with Recommendation 72G (4) of the International Commission on Zoological Nomenclature (ICZN) (1985), an annotated list of type specimens of Mammalia in the Natural History Museum Basel (NMB) has been prepared and is presented here. Type designations have not always been specified, especially in older literature, and the categories currently in use have not always applied, so this catalogue aims to clarify the type designations of as many of the specimens as possible, many of which are simply labelled "Typus":

Holotype: a single specimen established as the name-bearing type of a species or subspecies at the time of description (includes sole specimens upon which taxa have been based where no type was specified) (Article 73a).

Lectotype: a syntype designated as the name-bearing type at some point subsequent to the original publication of the description of the species or subspecies (Article 74).

Syntype: any specimen of a type series where no holotype or lectotype have been designated. This has sometimes been referred to as "cotype" (Article 73b).

Paralectotype: any specimen of a syntype series, other than the lectotype, where a lectotype has been designated (Article 74a iv).

Paratype: any specimen of a type series other than the holotype (Article 72a iii; Recommendation 73D).

This catalogue lists all the type specimens of Mammalia in the NMB. The list is arranged alphabetically by family.

Information about each type specimen has been taken directly from the original description or, in the case of lectotypes and paralectotypes, from both the original and subsequent type description where both are known. The specimens themselves were then inspected and any further information included here. The specimens are all located in the Zoology Department of the museum, but most skulls or skeletons belonging to the skins are in the Osteology Department. The reference numbers for these skulls or skeletons are given in round brackets (skull Ost.XXXX) after the reference number for the skin.

Additional geographical information, such as countries, regions, etc. or current place names if different from those in the original description, are given in square brackets []. Map co-ordinates are given where possible, but it should be noted that these are often approximate. Any further information, such as collection date, which was not given in the original description but which is available, is also included here in square brackets.

If different from the type name, the current name is given in the "Comments" section.

Annotated List of Type Specimens of Mammalia

Cercopithecidae

***Cercopithecus hamlyni kahuziensis* COLYN and RAHM, 1987**

Folia Primatol. 49:203

HOLOTYPE NMB M08-039 (field numbers LR52295/L5411) 1M subadult skin and skull: Musisi, [Kivu, Democratic Republic of Congo] 2°18'S/28°42'E, 1959

PARATYPES NMB M08-040 (field numbers LR11111/L10801) 1 subadult (sex not determined) 30.5.1962, NMB M08-041 (field numbers LR14909/L14908) 1M juvenile (13.9.1965) skins:[Kivu, Democratic Republic of Congo]

Comments: Authors given as " Colyn and Verheyen, 1988" in error by Groves (1993).

Chrysochloridae

***Neamblysomus luluanus* FORCART, 1942**

Rev. Suisse Zool. 49:3

HOLOTYPE NMB3828 (skull Ost.7715) 1F skin: Luluabourg [=Kananga], Distr. Kassai [Kasai Occidental], Belgisch Kongo [Democratic Republic of Congo 5°53'S/22°23'E], 620m a.s.l., 17.2.1925

Comments: Junior synonym of *Chlorotalpa leucorhina leucorhina* (HUET, 1855) according to Meester (1971).

Emballonuridae

***Coleura kummeri* MONARD, 1939**

Chiroptères de la Guinée Portugaise 3:55

[SYNTYPES] NMB5277 (No. 881) 1F, NMB5278 (No. 890) 1M in alcohol: Madina Boé, [Guinea Bissau], [5.3.1938]

Comments: Junior synonym of *C. afra* (PETERS, 1852) according to Meester *et al.* (1986).

Macroscelididae

***Nasilio luluae* MATSCHIE, 1926**

Z. Säugetierk. 1:110

[HOLO]TYPE NMB3818 (skull Ost.7708) 1M skin: Luluaburg, [=Kananga], [Kasai Occidental, Democratic Republic of Congo 5°53'S/22°23'E], 14.7.1923

[PARATYPES] NMB3819 (skull Ost.7709) 1M, NMB3822 (skull Ost.7712), NMB3823 (skull Ost.7713) 2F skins: Luluaburg, [=Kananga], [Kasai Occidental, Democratic Republic of Congo 5°53'S/22°23'E], 5.7.1923

Comments: Junior synonym of *Elephantulus brachyrhynchus* (SMITH, 1836) according to Corbet and Hanks (1968).

Molossidae

***Dysopes cestonii* var. *nigro-griseus* SCHNEIDER, 1871**

N. Denkschr. Schweiz. Ges. Naturw. 24:5

[HOLOTYPE] NMB291 1M in alcohol: [Cafe Nafimal,] Basel, [Switzerland 47°34'N/7°35'E], 27.10.1869

Comments: Junior synonym of *Tadarida teniotis teniotis* (RAFINESQUE, 1814) according to Ellerman and Morrison-Scott (1951).

***Mops osborni occidentalis* MONARD, 1939**

Chiroptères de la Guinée Portugaise 3:78

[SYNTYPES] NMB5268 (No. 226), NMB5269 (No. 275) 2M in alcohol: Mansoa, [Guinea Bissau 12°04'N/15°19'W], [11-12.12.1937]

Comments: Junior synonym of *M. condylurus* (A SMITH, 1833) according to Rosevear (1965).

***Mops osborni occidentalis*, f. *fulva* MONARD, 1939**

Chiroptères de la Guinée Portugaise 3:80

[SYNTYPE] NMB5270 (No.232) 1F in alcohol: Mansoa, [Guinea Bissau 12°04'N/15°19'W], [11-12.12.1937]

Comments: Junior synonym of *M. condylurus* (A SMITH, 1833) according to Rosevear (1965).

Muridae

***Brachyuromys ramirohitra* MAJOR, 1896**

Ann. Mag. Nat. Hist. (6)18:164

[PARATYPE] NMB1251a 1M mounted: Ampitambè Forest, Betsimisaraka County (on the border of N. E. Betsileo), [Madagaskar], [7.7.1895]

Comments: Type species for the genus *Brachyuromys*.

***Cricetus vulgaris babylonicus* NEHRING, 1903**

S.B. Ges. Naturf. Fr. Berlin 1903:360

[SYNTYPES] NMB771 (skull Ost.4154), NMB839 (skull Ost.4153), NMB840 (skull Ost.4152) 3 skins (sex unknown): in der Gegend südöstlich von Baghdad [in the region S. E. of Baghdad], [Iraq], [1902]

Comments: Junior synonym of *C. cricetus cricetus* (LINNAEUS, 1758) according to Ellerman and Morrison-Scott (1951). The specimens are labelled as paratypes but Nehring did not designate a holotype, so they should be syntypes.

???*Gymnuromys R[r]oberti* MAJOR, 1896

Ann. Mag. Nat. Hist. (6)18:324

[PARATYPE?] NMB1254 1F skin: Ampitambè Forest, Betsimisaraka County (on the border of N. E. Betsileo), [Madagaskar], [10.3.1896]

Comments: This specimen is labelled No.864, which does not appear in the type series. If it is the female listed in the type series, then it must be the holotype rather than, as labelled, a paratype. Major states that "pregnant females were obtained on June 24th and July 17th" implying that more than one female had been found at the time of writing the paper, but the date given in the NMB catalogue for the collection of NMB1254 is 10th March. Type species for the genus *Gymnuromys*.

***Hesperomys (Tylomys) nudicaudus* PETERS, 1866**

Monatsb. K. Preuss. Akad. Wiss. Berlin 1866:404

[HOLOTYPE] NMB750 (Skull Ost. 4867) 1F in alcohol: Guatemala

Comments: Now *Tylomys nudicaudus* according to Musser and Carleton (1993). Type species for the subgenus *Tylomys* (now a full genus). Goodwin (1934) restricts the type locality to La Primavera in northeastern Guatemala, but offers no evidence for this.

***Lasiomys afer* PETERS, 1866**

Monatsb. K. Preuss. Akad. Wiss. Berlin 1866:409

[HOLOTYPE] NMB706 (skull Ost. 4868) 1F in alcohol: Guinea, [1845?]

Comments: Junior synonym of *Lophuromys sikapusi* (TEMMINCK, 1853) according to Rosevear (1969). Type species for the genus *Lasiomys*. The type locality is given by Peters as "Guinea" but is listed in the NMB catalogue as "Goldküste" now known as Ghana. This is a more likely type locality as the specimen was donated to the museum by a missionary, A. Riis, who was stationed in "Akropong, Goldküste" until 1845, the year the specimen came into the museum's collection.

***Lemniscomys luluae* MATSCHIE, 1926**

Z. Säugetierk. 1:112

[SYNTYPES] NMB3960 (skull Ost.7846) [19.6.]1923 1M, NMB3961 (skull Ost.7847) [25.6.]1923 1F skins: Luluaburg, [=Kananga], [Kasai Occidental, Democratic Republic of Congo 5°53'S/22°23'E]

Comments: Junior synonym of *L. striatus striatus* (LINNAEUS, 1758) according to van der Straeten and Verheyen (1980). Also labelled as *L. pulchellus* (GRAY, 1864) which is also considered to be a junior synonym of *L. striatus striatus* by van der Straeten and Verheyen (1980).

***Mus musculus canacorum* REVILLIOD, 1914**

Nova Caledonia Zool. 1:364

[SYNTYPE] NMB1856 (skull Ost.5201) 1F in alcohol: Ni, Nouvelle-Calédonie [New Caledonia 21°26'S/165°29'E], [5.2.1912]

[SYNTYPE] NMB1858 1M juvenile in alcohol: Coné, Nouvelle-Calédonie [New Caledonia], II.1912

[SYNTYPE] NMB1859 1M in alcohol: Médou, Maré, Iles Loyalty [Loyalty Isles 21°S/168°E], 12.12.1911

[SYNTYPES] NMB1860 1M juvenile, NMB1861 1F juvenile in alcohol: Quépénéé [Chépénéhé], Lifou, Iles Loyalty [Loyalty Isles 20°47'S/167°08'E], V.1912

[SYNTYPES] NMB1862 1F, NMB1863 (skull Ost.5202) 1M in alcohol: Fayaoué, Ouvéa, Iles Loyalty [Loyalty Isles 20°39'S/166°32'E], VI.1912

Mus xanthurus orientalis REVILLIOD, 1911

Zool. Anzeiger 37(25):513

[SYNTYPE] NMB1638 (skull Ost.4768) 1M in alcohol: Mowewe, Südost-Celebes [=S. E. Sulawesi 3°57'S/121°43'E], 22.2.1902

[SYNTYPE] NMB1639 (skull Ost.4769) 1F in alcohol: Lambuja [Lambuia], Südost-Celebes [=S. E. Sulawesi 4°01'S/122°01'E], 2.3.1903

Comments: Junior synonym of *Rattus xanthurus* (GRAY, 1867) according to Corbet and Hill (1992).

Oecomys splendens HAYMAN, 1938

Ann. Mag. Nat. Hist. (11)1:381

[PARATYPES] NMB5111, NMB5112 juvenile sex undetermined in alcohol: Mayaro, S. E. Trinidad, VI.1936-VII.1937

Comments: Now a junior synonym of *O. trinitatis* according to Musser and Carleton (1993). Hayman states that five specimens were collected, but gave measurements for only four, three of which were donated to the British Museum (Natural History) by Dr. H. Hediger of the NMB. The specimens in the NMB are presumably the remaining two, although they are only labelled with NMB numbers, not those given in the type description.

Pelomys luluae MATSCHIE, 1926

Z. Säugetierk. 1:113

[SYNTYPE] NMB3941 (skull Ost.7827) 1M skin: Luluaburg [=Kananga], [Kasai Occidental, Democratic Republic of Congo 5°53'S/22°23'E], 8.6.1923

Comments: Now *P. fallax luluae* according to Meester *et al.* (1986).

Nycteridae

Nycteris aethiopica guineensis MONARD, 1939

Chiroptères de la Guinée Portugaise 3:66

[SYNTYPE] NMB5271 (No. 319) [17.12.1937] 1M in alcohol: Mansoa, [N. W. Guinea Bissau 12°04'N/15°19'W]

Pteropodidae

Cynopterus minor REVILLIOD, 1911

Zool. Anzeiger 37(25):517

[HOLOTYPE] NMB1734 1M in alcohol: Lambuja [Lambuia], Südost-Celebes
[=S.E. Sulawesi 4°01'S/122°01'E], 2.3.1903

Comments: This is the only known example of *C. minor*. Hill (1983) considered it a valid species, but without examining the specimen. However, Bergmans and Rozendaal (1988) considered that it was a juvenile specimen and that *C. minor* was therefore a junior synonym of *C. brachyotis* (MÜLLER, 1838). REF X-RAY

Rhinolophidae

Hipposideros gigas viegasi MONARD, 1939

Chiroptères de la Guinée Portugaise 3:70

[SYNTYPES] NMB5266 (skull Ost.9283) (No.915) 1M, NMB5267 (skull Ost.9284) (No. 908) 1F skins: Madina Boé, [S. E. Guinea Bissau], [9.3.1938]

Comments: Junior synonym of *H. commersoni gigas* (WAGNER, 1845) according to Hill (1963).

Hipposideros larvatus sumbae OEI, 1960

Hemera Zoa 67(1-2):28

[LECTOTYPE] NMB5651 (skull Ost.10157) 1M in alcohol: [cave near Matawei Kenor, near Prai Jawang,] east Sumba, [13.6.1949]

[PARALECTOTYPES] NMB5649, NMB5650 2M in alcohol: [cave near Matawei Kenor, near Prai Jawang,] east Sumba, [13.6.1949]

Comments: The lectotype and paralectotypes were designated by van Bree (1961).

Sciuridae

Sciurus leucomus occidentalis MEYER, 1898

Abh. Mus. Dresden 7(4):2

[LECTOTYPE] NMB1170 (skull?) (ex. a) 1M in alcohol: between Kottabangon [=Kotabangun?] and Bolang Mongondo, [N. Sulawesi 0°N/124°E], c.250m[a.s.l.], 3.12.1893

[PARALECTOTYPE] NMB1198 (skull Ost.9543) 1M skin: from the north side of Matinangkette, [N. Sulawesi 1°04'N/121°40'E?], c.1000m[a.s.l.], VIII.1894

Comments: Now *Prosciurillus leucomus occidentalis* according to Corbet and Hill (1992). The specimens are listed in the NMB catalogue as lectotype and paralectotype but the lectotype designation is unknown.

***Sciurus mowewensis* ROUX, 1910**

Zool. Anzeiger 35:516

[LECTOTYPE] NMB1626 (skull Ost.4243) 1F skin: Mowewe, Südost-Celebes [=S.E. Sulawesi 3°57'S/121°43'E], 23.02.1903

[PARALECTOTYPE] NMB1627 (skull Ost.4244) 1M skin: am Ahuafluss [on the River Ahua], Südost-Celebes [=S. E. Sulawesi], 26.02.1906 [1903?]

Comments: Junior synonym of *Prosciurillus leucomus sarasinorum* (MEYER, 1898) according to Moore (1958). The specimens are listed in the NMB catalogue as lectotype and paralectotype but the lectotype designation is unknown. The collection date given by Roux for specimen NMB1627 is 1906, whereas on the specimen the date is 1903. The latter date is more likely, given that NMB1626 was collected in 1903.

***Sciurus sarasinorum* MEYER, 1898**

Abh. Mus. Dresden 7(4):1

[SYNTYPE] NMB1199 (skull Ost.8080) 1M skin: Ussu, Nordostecke des Bonigolfes [N. E. corner of the Gulf of Boni], [S. E. Sulawesi], 18.2.1896

Comments: Now *Prosciurillus leucomus sarasinorum* according to Corbet and Hill (1992).

***Sciurus topapuensis* ROUX, 1910**

Zool. Anzeiger 35:516

[HOLOTYPE] NMB1628 (skull Ost.4245) 1F skin: Topapugebirge, Central-Celebes [=Sulawesi], 1550m[a.s.l.], 16.9.1902

Comments: Junior synonym of *Prosciurillus leucomus leucomus* (MÜLLER and SCHLEGEL, 1844) according to Corbet and Hill (1992).

Soricidae

***Crocidura littoralis stenocephala* HEIM DE BALSAC, 1979**

Säugetierkundl. Mitt. 27:258

[PARATYPES] NMB9477 1M skin and skull [29.11.1962], NMB9478 1M skin [28.11.1962]: [Runyuke/Mondo, Kivu, Democratic Republic of Congo 2°40'S/28°40'E]

[PARATYPE] NMB9479 1? skull: [Niamiringi, Kivu, Democratic Republic of Congo 1°50'S/28°48'E], [4.2.1959]

Comments: Now *C. stenocephala* according to Hutterer (1993).

***Crocidura luluae* MATSCHIE, 1926**

Z. Säugetierk. 1:111

[HOLOTYPE] NMB3829 (skull Ost.7716) 1F skin: Luluaburg [=Kananga], [Kasai Occidental, Democratic Republic of Congo 5°53'S/22°23'E], 16.8.1923

Comments: Junior synonym of *C. nigrofusca* MATSCHIE, 1895 according to Hutterer *et al.* (1987).

***Pachyura murina celebensis* REVILLIOD, 1911**

Zool. Anzeiger 37(25):515

[LECTOTYPE] NMB1643 (skull Ost.4766) 1M in alcohol: Palu, Nordcentral-Celebes [=Sulawesi 0°54'S/119°51'E], VII.1902

[PARALECTOTYPES] NMB1644 1M, NMB1645 (skull Ost.4767), NMB1646 2F in alcohol: Palu, Nordcentral-Celebes [=Sulawesi 0°54'S/119°51'E], VII.1902

Comments: Junior synonym of *Suncus m. murinus* (LINNAEUS, 1766) according to Corbet and Hill (1992). The specimens are listed in the NMB catalogue as lectotype and paralectotype but the lectotype designation is unknown.

Suidae

***Sus penicillatus* SCHINZ, 1848**

Monogr. Säugetiere 10:12

[HOLOTYPE] NMB903 (skull Ost. 2858) 1? skin: [Missionsstation Akropong, bei Christiansburg] afrikanischen Goldküste [Ghana 6°26'N/1°49'W?]

[PARATYPE] NMB904 1 juvenile skin: [Missionsstation Akropong, bei Christiansburg] afrikanischen Goldküste [Ghana 6°26'N/1°49'W?]

Comments: Junior synonym of *Potamochoerus porcus porcus* (LINNAEUS, 1758) according to Ansell (1971).

Vespertilionidae

***Chalinolobus neocaledonicus* REVILLIOD, 1914**

Nova Caledonia, Zool. 1:355

[HOLOTYPE] NMB1751 (skull Ost.5176) 1M in alcohol: Canala, Nouvelle-Calédonie [New Caledonia 21°31'S/165°57'E], [26.2.1912]

***Miniopterus australis robustior* REVILLIOD, 1914**

Nova Caledonia Zool. 1:359

[SYNTYPES] NMB1752 (skull Ost.5181), NMB1753 (skull Ost.5182), NMB1754 3M, NMB1755, NMB1756 (skull Ost.5183), NMB1757, NMB1758, NMB1759 (skull Ost.5184), NMB1760 6F in alcohol: Quépénéé [Chépénéhé], Lifou, Iles Loyalty [Loyalty Isles 20°47'S/167°08'E], [IV.1912]

Comments: Now *M. robustior* according to Koopman (1993).

***Miniopterus macrocneme* REVILLIOD, 1914**

Nova Caledonia, Zool. 1:360

[SYNTYPE] NMB1761 (skull Ost.5177) 1M in alcohol: Quépénéé [Chépénéhé], Lifou, Iles Loyalty [Loyalty Isles 20°47'S/167°08'E], [IV.1912]

[SYNTYPE] NMB1762 (skull Ost.5178) 1M in alcohol: Nathalo, Lifou, Iles Loyalty [Loyalty Isles 20°47'S/167°15'E], IV.1912

[SYNTYPE] NMB1764 (skull Ost.5179) 1M in alcohol: Netché, Maré, Iles Loyalty [Loyalty Isles 21°S/167°E], XI.1911

[SYNTYPE] NMB1763 1M in alcohol: Hienghiène [Hienghène], Nouvelle-Calédonie [New Caledonia 20°41'S/164°56'E], [VI.1911]

[SYNTYPES] NMB1765 (skull Ost.5180) 1F, NMB1766 1M in Alkohol: Oubatché, Nouvelle-Calédonie [New Caledonia 20°26'S/164°38'E]

Comments: Now *M. pusillus macrocneme* according to Hill (1983).

References

- Ansell,W.F.H. 1971 Artiodactyla, Part 15 in Meester,J. & Setzer,H.W. (eds) *The Mammals of Africa: an Identification Manual* Smithsonian Institute Press
- Bergmans,W. & Rozendaal,F.G. 1988 Notes on Collections of Fruit Bats from Sulawesi. *Zoologische Verhand.* **248**:1-74
- van Bree,P.J.H. 1961 On the Type Specimen of *Hipposideros larvatus sumbae* Oei Hong Peng, 1960 (Mammalia, Chiroptera). *Verhandl. Naturf. Ges. Basel* **72(1)**:122-123
- Corbet,G.B. & Hanks,J. 1968 A revision of the elephant-shrews, family Macroscelididae. *Bull. Brit. Mus. (Nat. Hist.) Zool. ser.* **16**:45-111
- Corbet,G.B. & Hill,J.E. 1992 *The Mammals of the Indomalayan Region*. Oxford University Press
- Ellerman,J.R. & Morrison-Scott,T.C.S. 1951 *Checklist of Palearctic and Indian Mammals 1758-1946*. Trustees of the Brit. Mus. (Nat. Hist.), London
- Goodwin,G.G. 1934 Mammals collected by A. W. Anthony in Guatemala 1924-1928 *Bull. Am. Mus. Nat. Hist.* **68**:1-60
- Groves,C.P. 1993 Primates: pp.243-278 in Wilson,D.E. & Reeder,D.-A.M. (eds.) *Mammal Species of the World: a Taxonomic and Geographic Reference, 2nd ed.* Smithsonian Institution Press
- Hill,J.E. 1963 Revision of the Genus *Hipposideros*. *Bull. Brit. Mus. (Nat. Hist.) Zool. series* **11**:1-129
- Hill,J.E. 1983 Bats from Indo-Australia. *Bull. Brit. Mus. (Nat. Hist.) Zool. series* **45**:103-208
- Hutterer,R. 1993 Insectivora: pp.69-130 in Wilson,D.E. & Reeder,D.-A.M. (eds.) *Mammal Species of the World: a Taxonomic and Geographic Reference, 2nd ed.* Smithsonian Institution Press
- Hutterer,R., Van der Straeten,E. & Verheyen,W.N. 1987 A Checklist of the Shrews of Rwanda and Biogeographical Considerations on African Soricidae. *Bonn. Zool. Beitr.* **38**:155-172
- International Commission on Zoological Nomenclature 1985 *International Code of Zoological Nomenclature, Edition 3, Adopted by the 20th General Assembly of the International Union of Biological Sciences*. University of California Press, Berkeley
- Koopman,K.F. 1993 Chiroptera: pp.137-242 in Wilson,D.E. & Reeder,D.-A.M. (eds.) *Mammal Species of the World: a Taxonomic and Geographic Reference, 2nd ed.* Smithsonian Institution Press
- Meester,J. 1971 Chrysochloridae, Part 1.3 in Meester,J. & Setzer,H.W. (eds) *The Mammals of Africa: an Identification Manual* Smithsonian Institute Press

- Meester, J.A.J., Rautenbach, I.L., Dippenaar, N.J. & Baker, C.M. 1986 Classification of Southern African Mammals. *Transvaal Museum Monog.* **5**
- Moore, J.C. 1958 A new species and a redefinition of the squirrel genus *Prosciurillus* of Celebes. *Am. Mus. Novitates* **1890**:1-5
- Musser, G.G. & Carleton, M.D. 1993 Muridae: pp.501-756 in Wilson, D.E. & Reeder, D.-A.M. (eds.) *Mammal Species of the World: a Taxonomic and Geographic Reference, 2nd ed.* Smithsonian Institution Press
- Rosevear, D.R. 1965 *The Bats of West Africa*. Trustees Brit. Mus. (Nat. Hist.), London
- Rosevear, D.R. 1969 *The Rodents of West Africa*. Trustees Brit. Mus. (Nat. Hist.), London
- Van der Straeten, E. & Verheyen, W.N. 1979 Notes Taxonomiques sur les *Malacomys* de l'Ouest Africain avec Redescription du Patron Chromatique de *M. edwardsi*. *Rev. Zool. Africaine* **93**:10-35

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