

# Type specimens of mammals in the collection of the Museum of Natural History Stuttgart

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## Abstract

The present catalogue documents all the type specimens found in the mammalogical collections of the Museum of Natural History, Stuttgart. We registered 78 primary types (holo-, lecto-, neo-, syntypes) and 158 paratypes or paralectotypes. Approximately half of the type specimens are vouchers for species described by THEODOR VON HEUGLIN who thereby laid the foundation for a valuable scientific collection in Stuttgart.

**Keywords:** Type specimens, mammal collection, Museum of Natural History Stuttgart, THEODOR VON HEUGLIN.

## Zusammenfassung

Der vorliegende kommentierte Typenkatalog behandelt 78 Primärtypen (Holo-, Lecto-, Neo- und Syntypen) sowie 158 Paratypen bzw. Paralectotypen, die in der Säugetiersammlung des Staatlichen Museums für Naturkunde Stuttgart ausfindig gemacht werden konnten. Etwa die Hälfte aller Typus-Exemplare wurde einst von THEODOR VON HEUGLIN während seiner Forschungsreisen in Afrika gesammelt, womit er den Grundstock für eine wissenschaftlich bedeutende Sammlung in Stuttgart legte.

## Contents

1 Introduction.....	291
2 Material and Methods .....	291
3 Catalogue of mammal type specimens.....	292
4 References.....	301

## 1 Introduction

The mammal collection of the Museum of Natural History Stuttgart has its origins back in the early 19<sup>th</sup> century. Since that time, the museum received a considerable amount of material from various parts of the world collected by different collectors and explorers. Among the historic specimens many were collected e. g. by Baron CARL FERDINAND HEINRICH VON LUDWIG (Southern Africa), AUGUST KAPPLER (Suriname), Baron FERDINAND JACOB HEINRICH VON MÜLLER (Australia) and THEODOR VON HEUGLIN (Northeast Africa). More recent specimens came from MARTIN EISENTRAUT (Africa, Europe), FRITZ DIETERLEN (Africa, Europe), HANS RUPP and GERHARD NIKOLAUS (Africa), CLAUS KÖNIG (Europe), GIORGIO PILLERI (Asia; dolphins and whales), and WILLI and GERTRUD ISSEL (worldwide, bats). Currently, the mammal collection holds approximately 60.000 specimens representing more than 1.500 species. The scientific importance of the collection lies in the large number of taxa it contains, as well as in the considerable number of type specimens included. Due to the uncertain status of many historic specimens, particularly the specimens described by HEUGLIN, hitherto no type catalogue of these holdings had been published. Our aim therefore was to verify the

status of these historic type specimens for a first complete type catalogue.

## Acknowledgments

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## 2 Material and Methods

For identification of the current nomenclatural and taxonomic status, all available data, from entry books and old catalogues, old specimen labels, original descriptions and relevant secondary literature (e. g. taxonomic revisions) were consulted and evaluated.

Accounts are arranged within their respective taxonomic families which, with a few exceptions, are ordered following WILSON & REEDER (2005). Where available, information about specimens is presented in the following sequence: the original species name, author, year of publication, original reference, current species

name, type category, catalogue number, sex, age, specimen format, locality, collector and date of collection, followed by any additional comments. If known, reference is made to the whereabouts of additional type specimens in other collections. Some of the old locality names in descriptions or in the entry book are no longer in use. These invalid, but original names are listed, followed by the currently used English names in quotes.

#### Acronyms of depositories

- MTD Museum für Tierkunde, Dresden  
 NMW Naturhistorisches Museum, Vienna  
 SMNS Staatliches Museum für Naturkunde, Stuttgart  
 ZFMK Zoologisches Forschungsmuseum Alexander Koenig,  
 Bonn

### 3 Catalogue of mammal type specimens

We identified 236 type specimens: 37 holotypes (one of it missing), 1 neotype, 6 lectotypes, 3 holo- or syntypes, 31 syntypes, and 158 paratypes or paralectotypes. These types belong to 68 described species, of which 40 are currently accepted (valid) species names. Approximately half of the type specimens are vouchers for species described by THEODOR VON HEUGLIN (Fig. 1) who thereby laid the foundation for a valuable scientific collection in Stuttgart.



Fig. 1. THEODOR VON HEUGLIN (1824–1876) (source: Wikimedia).

*Cingulata* Illiger, 1811  
*Dasyopodidae* Gray, 1821  
*Dasypus* Linnaeus, 1758

*Dasypus kappleri* KRAUSS, 1862: 20. – Valid.

**Lectotype:** SMNS 285, female, skull, mounted specimen; primate forests of Maroni River, Suriname, leg. KAPPLER, 1846.  
**Comment:** KRAUSS (1862) described several males, females and juveniles. WETZEL & MONDOLFI (1979) selected SMNS 285 as lectotype.

*Primates* Linnaeus, 1758  
*Cercopithecidae* Gray, 1821  
*Theropithecus* I. Geoffroy, 1843

*Theropithecus obscurus* HEUGLIN, 1863: 10. – Valid name: *Theropithecus gelada* (Rüppell, 1835).

**Syntypes:** SMNS 581, male, adult, skull, skin (formerly mounted specimen), Semien Mts., Abyssinia [Ethiopia], leg. T. v. HEUGLIN, 1855; SMNS 1032, male, adult, mounted specimen; SMNS 1033, male, juvenile, skull; SMNS 1034, male, juvenile, skull, mounted specimen; localities of 1032, 1033, 1034 Djedda-Tal, Bäschlo, Wollo Gala [Galla = Oromo = ethnic group in Ethiopia], leg. T. v. HEUGLIN, March 1862.

*Papio* Erxleben, 1777

*Papio heuglini* MATSCHIE, 1898: 81. – Valid name: *Papio anubis* (Lesson, 1827), fide GROVES 2001.

**Syntypes:** SMNS 582, male, adult, skull, mounted specimen; SMNS 583, female, subadult, skull damaged, mounted specimen; both specimens from Shilluk Islands, White Nile, 7° N, Sudan, leg. HEUGLIN, 1855; SMNS 584, male, juvenile, mounted specimen, from Sennaar fide MATSCHIE, leg. T. v. HEUGLIN.

*Lagomorpha* Brandt, 1855  
*Leporidae* Fischer, 1817  
*Lepus* Linnaeus, 1758

*Lepus Somalensis* HEUGLIN, 1861[a]: 5. – Valid name: *Lepus habessinicus* Hemprich & Ehrenberg, 1832.

**Syntype:** SMNS 749 (additional number 5534), juvenile, skull, Somali Coast, leg. T. v. HEUGLIN, 1858.

*Lepus Berberanus* HEUGLIN, 1861[a]: 5. – Valid name: *Lepus habessinicus* Hemprich & Ehrenberg, 1832.

**Syntype:** SMNS 748 (additional number 5535), adult, skull and skin, mounted specimen, Berbera, Somalia, leg. T. v. HEUGLIN, 1858.

*Lepus microtis* HEUGLIN, 1865: 32. – Valid (fide HOFFMANN & SMITH in WILSON & REEDER 2005).

**Holotype:** SMNS 1116 (5536), pullus, skull, “im Lande der Ridj [sic!]” [= country of Kitsch or Kidj people, White Nile], Sudan, leg. T. v. HEUGLIN, 1863.

**Comment:** ANGERMANN & FEILER (1988) thought that the oldest available name for this species was *victoriae* Thomas, 1893,

but apparently did not consider *microtis* Heuglin, 1865. HEUGLIN'S description is based on a single juvenile [pullus!] specimen, which probably is insufficient for species diagnosis.

*Soricomorpha* Gregory, 1910  
*Soricidae* Fischer, 1814  
*Crocidura* Wagler, 1832

*Crocidura allex zinki* HEIM DE BALSAC, 1957[a]: 151. – Valid.

**Holotype:** SMNS 4512, female, skull, skin, Kilimanjaro, 3550 m, Tanzania, leg. Dr. G. ZINK, Ostafrika-Expedition Prof. Dr. E. LINDNER, 27 April 1952.

**Paratype:** SMNS 4513, female, skin, same collecting data as holotype.

*Crocidura eisentrauti* HEIM DE BALSAC, 1957[b]: 616. – Valid.

**Holotype:** SMNS 5571, male, specimen in alcohol, skull extracted, Mt. Cameroon, Johann-Albrecht-Hütte, 2800 m, Cameroon, leg. Prof. Dr. M. EISENTRAUT, 11 February 1954.

**Paratypes:** SMNS 5569, male, skull, skin, Mt. Cameroon, Musake-Hütte, 2000 m, 2 February 1954, same collector as holotype; SMNS 5570, female, skull, skin, same data as holotype.

*Sorex fusco murinus* HEUGLIN, 1865: 36. – Valid name: *Crocidura fuscomurina* (Heuglin, 1865).

**Holotype:** SMNS 1103e, female, adult, skull, specimen in alcohol, Meschra el Reg [= Mashra 'ar Raqq], Kosanga-River, Sudan, 8°25'N / 29°16'E, leg. T. v. HEUGLIN, 1863.

*Crocidura ferruginea* HEUGLIN, 1865: 36. – Valid name: *Crocidura olivieri* (Lesson, 1827).

**Holotype:** SMNS 1115, skull (damaged), mounted specimen, locality according to HEUGLIN White Nile, Sudan ["aus dem Lande der Kidi-J-Neger"], leg. T. v. HEUGLIN, 1863.

**Comment:** Identified as *C. olivieri* by R. HUTTERER; formerly misidentified as *C. hedenborgi* by F. KRAUSS.

*Crocidura olivieri hansruppi* HUTTERER, 1980: 226. – Valid.

**Holotype:** SMNS 23704, male, skull, skin, Jimma, Ethiopia, leg. HANS RUPP, 23 August 1973.

**Paratypes:** SMNS 23697, skull and skin, 3 January 1973; SMNS 23698, skull and skin, 5 January 1973; SMNS 23701, skull and skin, 18 August 1973; SMNS 23702, skin, skull missing; all specimens same locality and collector as holotype.

*Crocidura manni* PETERS, 1878: 19. – Valid name: *Crocidura olivieri* (Lesson, 1827).

**Lectotype:** SMNS 1646a, adult female and pullus, in alcohol, Lagos, Nigeria, leg. A. MANN, December 1877.

**Paralectotypes:** SMNS 1646b, mounted skeleton; SMNS 1152b, male, adult, mounted specimen; same data as lectotype. A further specimen, SMNS 1152a, female, pullus, mounted specimen, is lost.

**Comment:** HUTTERER & HAPPOLD (1983) selected and figured a lectotype from the syntype series. Another specimen belonging to the type series is stored in Berlin (ZMB 5253).

*Crocidura littoralis stenocephala* HEIM DE BALSAC, 1979: 259 [in DIETERLEN & HEIM DE BALSAC (1979)]. – Valid name: *Crocidura stenocephala* (Heim de Balsac, 1979).

**Holotype:** SMNS 22804, male, skull, skin (body in alcohol – K 2542), Kahuzi-Biega-National Park, Zaire [= Congo R. D.], leg. F. DIETERLEN, 15 November 1972.

**Comment:** Described as a subspecies of *C. littoralis* but regarded as a full species by HUTTERER (1982) & DIPPENAAR (pers. comm.).

*Myosorex* Gray, 1838

*Myosorex blarina zinki* HEIM DE BALSAC & LAMOTTE, 1956: 148. – Valid name: *Myosorex zinki* (Heim de Balsac & Lamotte, 1956).

**Holotype:** SMNS 4505, female, skull, skin (dry body available), Kilimanjaro-SW, 3700 m, Tanzania, leg. G. ZINK, 27 August 1952.

**Comment:** GRIMSHAW et al. (1995) listed this species as endemic to Mt. Kilimanjaro.

*Chiroptera* Blumenbach, 1779  
*Pteropodidae* Gray, 1821  
*Epomophorus* Bennett, 1836

*Epomophorus anurus* HEUGLIN, 1864: 12. – Valid name: *Epomophorus labiatus* (Temminck, 1837).

**Syntypes:** SMNS 609 (for skull), female, skull, mounted specimen (additional number 661); SMNS 1090, male skull, mounted specimen, "Bellegas-Tal" [= Belegaz/Belghe], Abyssinia, leg. T. v. HEUGLIN, 1855; SMNS 1091, female, skull, mounted specimen, Bongo [= country of Bongo, southern part of the province of Bahr-el-Ghazal in the south of Sudan], leg. T. v. HEUGLIN, 1863/1864.

*Rhinolophidae* Gray, 1825  
*Rhinolophus* Lacépède, 1799

*Rhinolophus acrotis* HEUGLIN, 1861[b]: 10. – Valid name: *Rhinolophus clivosus* (Cretzschmar, 1828).

**Holotype:** SMNS 986a, male, adult, specimen in alcohol, Keren (= Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1861.

**Paratype (?)**: SMNS 986b, male, juvenile, in alcohol, same data as holotype (prb. leg. T. v. HEUGLIN).

**Comment:** HEUGLIN described this species merely on a single specimen, a male ["einzig Exemplar, ein Männchen"], probably No. 986a. The juvenile male No. 986b was labelled by KRAUSS as "Cotype" and had obviously been collected by HEUGLIN.

*Rhinolophus denti knorri* EISENTRAUT, 1960: 3. – Valid.

**Holotype:** SMNS 6111, male, skull, skin, Salung-Plateau near Nyembaro-Nerebili, 10 km western of Kolenté, 400 m, Guinea (former French colony), leg. HANS KNORR, 27 November 1956.

**Paratypes:** SMNS 6112, 6112a, two females, skulls and skins, same data as holotype, but 19 November 1956.

*Rhinolophus macrocephalus* HEUGLIN, 1877: 22. – Valid name:  
*Rhinolophus fumigatus* (Rüppell, 1842).  
**Syntypes:** SMNS 1059, female specimen in alcohol, SMNS 1059b, male specimen in alcohol, Adowa (=Adwa), N-Ethiopia, leg. T. v. HEUGLIN, 1862.

*Rhinolophus landeri guineensis* EISENTRAUT, 1960: 3. – Valid name: *Rhinolophus guineensis* Eisentraut, 1960.  
**Holotype:** SMNS 6103, male, skull, skin, big cave near Tahire at Mt. Kelesi River, 500 m, Guinea (former French colony), leg. HANS KNORR, 5 October 1956.  
**Paratypes:** SMNS 6104–6108, skulls and skins; SMNS 6109, specimen in alcohol; SMNS 6113, skull and skin; Salung Plateau near Nyembaro, 10 km W of Kolenté, Guinea, leg. HANS KNORR, 19 November 1956.  
**Comment:** According to SIMMONS (in WILSON & REEDER 2005) belonging to the *R. landeri* species group. Originally described as a subspecies of *R. landeri*, but see BÖHME & HUTTERER (1979), who demonstrated that it is a separate species.

*Rhinolophus minimus* HEUGLIN, 1861[b]: 6. – Valid name: *Rhinolophus hipposideros* (Borkhausen, 1797) [on authorship of *R. hipposideros* see KOZHURINA 2006].  
**Holotype:** SMNS 987, male, skull, specimen in alcohol; Keren (=Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1861.  
**Comment:** According to SIMMONS (in WILSON & REEDER 2005) *R. minimus* can be considered as subspecies of *R. hipposideros* – or even represents a distinct species, see ZAGORODNYUK (1999).

Hipposideridae Lydekker, 1891  
*Hipposideros* Gray, 1831

*Hipposideros camerunensis* EISENTRAUT, 1956: 526. – Valid.  
**Holotype:** SMNS 5194, male, adult, skull, skin, Buea, 1000 m, cave near Native Town, Cameroon, leg. EISENTRAUT, 29 April 1954.  
**Paratypes:** SMNS 5195, male adult, specimen in alcohol; SMNS 5197, female, adult, skull, specimen in alcohol; both specimens same data as holotype.  
**Comment:** A further paratype specimen, SMNS 5196, was exchanged to ZFMK.

*Hipposideros megalotis* HEUGLIN, 1861[b]: 8. – Valid.  
**Holotype:** SMNS 984, male, adult, skull, specimen in alcohol; Keren (=Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1861.

Nycteridae Van der Hoeven, 1855  
*Nycteris* Cuvier & Geoffroy, 1795

*Nycterus labiata* HEUGLIN, 1861[b]: 5. – Valid name: *Nycterus thebaica* E. Geoffroy, 1818.  
**Syntypes:** SMNS 980a, male, adult, in alcohol; SMNS 980b, male, subadult, in alcohol; both specimens from Keren (=Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1861.

Phyllostomidae Goldfuss, 1820 [on authorship of the family name see MLÍKOVSKÝ 2006]  
*Choeroniscus* Thomas, 1928

*Choeronycteris minor* PETERS, 1868: 366. – Valid name: *Choeronycteris minor* (Peters, 1868).  
**Holotype:** SMNS 441, male, adult, skull, specimen in alcohol, Suriname, leg. A. KAPPLER, 1851.

*Platyrrhinus* Saussure, 1860

*Platyrrhinus chocoensis* ALBERICO & VELASCO, 1991: 238. – Valid.  
**Paratype:** SMNS 41706, male, skull, skin, Concesión forestal Bajo Calima, Valle, Colombia, leg. M. E. RENGIFO, 8 March 1986.

Molossidae Gervais, 1856  
*Chaerephon* Dobson, 1874

*Nyctinomus bivittatus* HEUGLIN, 1861[b]: 13. – Valid name: *Chaerephon bivittatus* (Heuglin, 1861).  
**Lectotype:** SMNS 981, male, skull, specimen in alcohol, Keren (=Cheren), Eritrea, leg. T. v. HEUGLIN, 1861.  
**Paralectotypes:** SMNS 981a, female skull, specimen in alcohol; 981b, male, skull, specimen in alcohol; both specimens same data as lectotype.  
**Comment:** Status established by DOBSON (1878) ("type") according to article 74.6. ICZN.

*Nyctinomus* Geoffroy, 1813

*Nyctinomus ventralis* HEUGLIN, 1861[b]: 11. – Valid name: *Tadarida ventralis* (Heuglin, 1861).  
**Lectotype:** SMNS 982, male, skull, specimen in alcohol, Keren (=Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1861.  
**Comment:** Status established and lectotype designated by KOCH (1975).

Vespertilionidae Gray, 1821  
*Scotophilus* Leach, 1821

*Nycticejus flavigaster* HEUGLIN, 1861[b]: 14. – Valid name: *Scotophilus leucogaster* (Cretzschmar, 1830).  
**Syntypes:** SMNS 983, male, skull, specimen in alcohol; SMNS 983a, female, skull, specimen in alcohol, Keren (=Cheren), Eritrea, leg. T. v. HEUGLIN, 1861.  
**Comment:** HEUGLIN made no accounts on number of collected/studied specimens. According to Mrs. Dr. B. HERZIG (Wien) there are no further specimens in the collection of NMW.

*Pipistrellus* Kaup, 1829

*Vesperugo papuanus orientalis* MEYER, 1899: 14. – Valid name: *Pipistrellus tenuis* Temminck, 1840.  
**Syntype:** SMNS 2301, specimen in alcohol, Bongu, Astrolabe Bai (former colony Deutsch-Neuguinea, now Papua New Guinea), ex Museum Dresden, 1899.

**Comment:** The specimen had been exchanged from MTD, where further 17 syntypes in alcohol existed. They got lost during World War 2 in the bombing attack against Dresden in February 1945.

Carnivora Bowdich, 1821  
Herpestidae Bonaparte, 1845  
*Galerella* Gray, 1865

*Herpestes Adailensis* HEUGLIN, 1861[c]: 17. – Valid name:  
*Galerella sanguinea gracilis* (Rüppell, 1835).

**Holotype:** SMNS 752, male, adult, skull, mounted specimen, Adail Coast, Danakil Desert, Tedjura (= Tadjoura, Djibouti), leg. T. v. HEUGLIN, 1858.

**Comment:** The name *adailensis* is synonymized for *Mungos mungo*; but SMNS 752 belongs to *Galerella sanguinea* (Rüppell, 1835). In the account of that species 25 taxa are named as subspecies (plus further synonyms), including the form *gracilis* (WOZENCRAFT in WILSON & REEDER 2005).

*Herpestes jodoprymnus* HEUGLIN, 1861[c]: 14. – Valid name:  
*Galerella sanguinea gracilis* (Rüppell, 1835).

**Syntype:** SMNS 971, female, skull, mounted skin, Keren (= Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1858.

**Comment:** SMNS has no information about number of studied specimens. After the present knowledge a lectotype has not been designated. Mrs. Dr. B. HERZIG of the NMW informed us about two specimens from Sudan, leg. HEUGLIN (NMW 1170, skull, and B 2193, a separate skin).

Canidae Fischer, 1817  
*Canis* Linnaeus, 1758

*Canis mengesi lamperti* HILZHEIMER, 1906: 371. – Valid name:  
*Canis aureus* Linnaeus, 1758.

**Holotype:** SMNS 2394 (additional number 3960 for skull), male, skull, mounted specimen, Somalia, leg. JOSEPH MENGES, donated by NILL (former Zoological Garden Stuttgart, 1897).

**Paratype:** SMNS 19000 (old inventory No. 4085), skull, mounted skeleton, Somalia, leg. JOSEPH MENGES, donated by NILL, 1897–1899.

**Comment:** Originally stored in the SMNS collection as *Canis hagenbecki* (synonym of *Canis aureus*), later as *Canis aureus*.

Perissodactyla Owen, 1848  
Equidae Gray, 1821  
*Equus* Linnaeus, 1758

*Asinus taeniopus* HEUGLIN, 1861[c]: 15, 19. – Valid name: *Equus (Asinus) africanus* Heuglin & Fitzinger 1866, fide GROVES & SMEENK (2007).

**Lectotype:** SMNS 32026, skull, adult female, near Atbara River, Sudan, leg. T. v. HEUGLIN.

**Comment:** GRUBB (in WILSON & REEDER 2005) listed HEUGLIN's Wild Ass as a taxon (subspecies) of *Equus asinus* (Linnaeus). GROVES et al. (1966) recommended *africanus* as spe-

cific name, avoiding the name *asinus* because being based upon domestic populations. Here it follows parts of the very careful investigation of GROVES & SMEENK (2007): p. 121: “In the 19<sup>th</sup>-century reports on the occurrence and identity of wild asses in North-East Africa are reviewed as well as the names applied in various publications by FITZINGER and VON HEUGLIN, respectively. The first published name for the African wild ass, *Asinus africanus* Fitzinger, 1858, is a nomen nudum. The name *Equus taeniopus* von Heuglin, 1861 is rejected as indeterminable, as it is based on an animal that cannot be identified and may have been a hybrid between a domestic donkey and a Somali wild ass; the type has not been preserved. The first available name thus becomes *Asinus africanus* von Heuglin & Fitzinger, 1866. A lectotype is designated: a skull of an adult female collected by VON HEUGLIN near Atbara river, Sudan, and present in the Museum für Naturkunde in Stuttgart, SMNS 32026.”. – p. 127: “There is unfortunately no associated skin; but the skull, that of an adult female, 485 mm in greatest length, is without doubt that of a genuine Nubian wild ass. The date of the collection is unknown, but there is no reason to doubt that it belonged to a specimen for VON HEUGLIN was tangible evidence of wild-living *Equus asinus*.”. – p. 132: Following the classification of GROVES (1986) the synonymy of the two accepted subspecies: “1. *Equus (Asinus) africanus africanus* (von Heuglin & Fitzinger, 1866), Nubian Wild Ass (fig. 6). Lectotype from Atbara River, Sudan. Synonym: *dianae* (Dollman, 1935): Tokar, Sudan .... 2. *Equus (Asinus) africanus somaliensis* (Noack, 1884), Somali Wild Ass (fig. 7, 8). Holotype from the surroundings of Berbera, Somalia. Synonyms: *somalicus* Scaler, 1884: Berbera; *aethiopicus* Denman, 1957: Danakil, Ethiopia.”.

Artiodactyla Owen, 1848  
Bovidae Gray, 1821  
*Kobus* Smith, 1840

*Adenota megaceros* FITZINGER, 1855: 247 (ex HEUGLIN manuscript, description insufficient), redescription by HEUGLIN 1863: 14. – Valid name: *Kobus megaceros* (Fitzinger, 1855).

**Syntype:** SMNS 588, male, skin and horns (bad condition), Bahr el Abiad, Sudan, leg. T. v. HEUGLIN, 1855. Type locality described by HEUGLIN: “am Sobat, Bahr-el-Ghazal und unteren Kir” covers a large area: Sobat River coming from South-east has its junction into White Nile at Doleib Hill and the mouth of Bahr-el-Ghazal (some 100 km in the West) flows into the White Nile at Lake No.

**Comment:** HEUGLIN (1863) used several specimens for his detailed description of this species. A lectotype was never designated so that the SMNS specimen remains a syntype.

Cetacea Brisson, 1762  
Platanistidae Gray, 1846  
*Platanista* Wagler, 1830

*Platanista indi* BLYTH, 1859: 3. – Valid name: *Platanista minor* (Owen, 1853).

**Neotype** (designated by PILLERI & GIHR 1977): SMNS 45643, male, adult, skull, flipper, Chak, Indus, Pakistan, leg. Dr. G. PILLERI, 15 March 1976.

Rodentia Bowdich, 1821  
 Sciuromorpha Brandt, 1855  
 Sciuridae Fischer, 1817  
*Sciurus* Linnaeus, 1758

*Sciurus bongensis* HEUGLIN, 1877: 59. – Valid name: *Heliosciurus bongensis* (Heuglin, 1877).

**Holotype:** SMNS 1093 (Fig. 2), male, juvenile, skull, additional number SMNS 5316 for the mounted skin; Djur-Gebiet, Bahr-el-Ghazal, Sudan, leg. T. v. HEUGLIN, 1863.

**Comment:** THORINGTON & HOFFMANN (in WILSON & REEDER 2005) list *bongensis* Heuglin, 1877 (among 14 further taxa) as a subspecies of *H. gambianus*. Studies of DIETERLEN (unpublished) and KOCK (in litt.) revealed *bongensis* as a small form occurring in Sudan W of the Bahr el Jebel (White Nile), between 04° N and 12° N. We conclude that *Heliosciurus bongensis* is a valid species and different from *H. multicolor*, occurring in Sudan W of the White Nile – as did before THOMAS & HINTON (1923) and ALLEN (1939). – A specimen of *bongensis*, SMF 4280, donated by HEUGLIN 1855 to E. RÜPPELL, was designated by MERTENS (1925) as lectotype. But KOCK (in litt.) revealed that the specimen's locality "was not part of even a cotype series of the species later described by HEUGLIN". This specimen HEUGLIN collected near the Djur River in the (former subdistrict) Bongo in the southern region of Bahr el-Ghazal – a locality far from the Terra typica Bahr el-Abiad of SMF 4280. So this specimen designated by MERTENS loses its status as lectotype (ICZN Article 74. 2.).

*Xerus* Hemprich & Ehrenberg, 1833

*Xerus Dabagala* HEUGLIN, 1861[c]: 17. – Valid name: *Xerus rutilus* (Heuglin, 1877).

**Lectotype [here designated]:** SMNS 744, mounted specimen, Zeila, Somaliland, Berbera, Somalia, leg. T. v. HEUGLIN, 1861.

**Comment:** HEUGLIN did not designate a holotype. Also there is no number of investigated specimens mentioned. The species name *dabagala* is considered as synonym of *Xerus rutilus*.

Nesomyidae Major, 1897  
*Dendromus* Smith, 1829

*Dendromus kahuziensis* DIETERLEN, 1969: 348. – Valid.

**Holotype:** SMNS 14733, male, adult, skull, skin, D. R. Congo, Kahuzi, Bitale-Buloho (Parc National de Kahuzi-Biega), leg. F. DIETERLEN, 23 February 1967.

**Paratype:** SMNS 22320, female, adult, skull, skin, D. R. Congo, Parc National de Kahuzi-Biega, collected ca. 300 m from the holotype locality, 21 January 1972, leg. F. DIETERLEN.

**Comment:** SMNS 22320 is an additional specimen which was originally used for the description of this species, but this paratype were erroneously not mentioned in the publication.

*Dendromus mystacalis* HEUGLIN, 1863: 5. – Valid.

**Holotype:** SMNS 1055, male subadult, mounted specimen (Fig. 3), no skull, Eifaz (= Eifag), Bäschlo, N of Lake Tana, Ethiopia, leg. T. v. HEUGLIN, Mai 1862.

**Comment:** MUSSER & CARLETON (in WILSON & REEDER 2005) quoted 11 synonyms. DIETERLEN (2009) could show that the Ethiopian form differs morphologically and ecologically considerably from the non-Ethiopian forms of *D. mystacalis*. So it is questionable that all these are conspecific.

*Dendromus ruppi* DIETERLEN, 2009: 190. – Valid.

**Holotype:** SMNS 27572, female, adult, skin (mounted on cardboard, Fig. 6), skull (Figs. 4, 5), Gilo, Imatong Mts., 1800–1900 m, East Equatoria, South Sudan, leg. HANS RUPP, 7 May 1978.

**Paratypes:** SMNS 27235, 27236, 27570–27575, 30086–30088; skins and skulls, same locality as holotype, all specimens leg. H. RUPP and G. NIKOLAUS between 1978 and 1979.

*Megadendromus* Dieterlen & Rupp, 1978

*Megadendromus nikolausi* DIETERLEN & RUPP, 1978: 131. – Valid.

**Holotype:** SMNS 23982, female, adult, skull (Figs. 8, 9), skin (Fig. 7), Bale Goba Mts. 5 km S of Goba, Ethiopia, leg. G. NIKOLAUS, 26 June 1976.

**Comment:** Ethiopian endemic. MUSSER & CARLETON (in WILSON & REEDER 2005): known by less than ten specimens.

Cricetidae Fischer, 1817  
*Microtus* Schrank, 1798

*Pitymys bavaricus* KÖNIG, 1962: 2. – Valid name: *Microtus bavaricus* (König, 1962).

**Paratypes:** SMNS 15307–15315, 15317, skulls, skins (15316 by exchange to ZFMK), [Germany, Bavaria] Garmisch-Partenkirchen, leg. C. KÖNIG, 10 September 1959 to 26 April 1962.

**Comment:** Studies of ZAGORODNYUK (1990) have shown that *Pitymys* is a subgenus of New-world *Microtus* and that the former old-world species of *Pitymys* should been replaced in the subgenus *Terricola*.

Muridae Illiger, 1811  
*Acomys* I. Geoffroy, 1838

*Mus albigena* HEUGLIN, 1877: 69. – Valid name: *Acomys cahirinus* (Geoffroy, 1803).

**Syntypes:** Five specimens in alcohol, labelled as "Typus": SMNS 987a, two adult females, one juvenile and one separate large foetus; SMNS 987b, juvenile male. One extracted skull (separate No. 5477) of one of the females; all specimens from Keren (= Cheren), Bogos Country, Eritrea, leg. T. v. HEUGLIN, 1862.

**Comment:** Measures and proportions indicate *A. cahirinus*. In MUSSER & CARLETON (in WILSON & REEDER 2005) *albigena* (Heuglin, 1877) is a synonym for *A. cahirinus*. Of a further synonym, *nubicus* (Heuglin, 1877), no specimens ever have been existed in the collection of SMNS.

*Lophuromys* Peters, 1874

*Lophuromys medicaudatus* DIETERLEN, 1975: 295. – Valid.

**Holotype:** SMNS 13310, female, skull, skin, D. R. Congo (Kivu), Lemera-Nyabutera (near Kalehe), leg. Dr. F. DIETERLEN, 17 March 1967.

**Paratypes:** SMNS 13314, male, skin, skull, Congo, Kivu PNKB, Bitale-Buloho, 4 May 1966; SMNS 13315, female, skin, skull, Congo Kivu, PNKB foot of Mt. Kahuzi, Marais near Mugaba, 28 February 1967; SMNS 18012, male, skin,

skull, Congo, Kivu, PNKB, foot of Mt. Kahuzi, Marais Muzizi, 30 December 1971; SMNS 18015, male, skin, skull, Congo, Kivu, PNKB, foot of Mt. Kahuzi, Marais Muzizi, 9 February 1972; SMNS 18016, male, skin, skull, Congo, Kivu, foot of Mt. Kahuzi, 11 February 1972; all specimens leg. F. DIETERLEN.

**Comment:** This species belongs to the subgenus *Kivumys* DIETERLEN, 1987. Information on it is summarized by DIETERLEN (1975, 1976, 1987); see MUSSER & CARLETON (in WILSON & REEDER 2005). – There is additional material which was originally used for the description of this species, but these paratypes were erroneously not mentioned in the publication.

*Lophuromys cinereus* DIETERLEN & GELMROTH, 1974: 337. – Valid name: *Lophuromys aquilus* (True, 1892).

**Holotype:** SMNS 18046, female, skull, skin, D. R. Congo, Kivu, Kahuzi-Biega-National Park, leg. F. DIETERLEN, 31 December 1971.

**Paratype:** SMNS 18045, female, skull, skin, same data as holotype, but 10 August 1971.

**Comments:** DIETERLEN (1987: 188) wrote: "Es ist nicht auszuschließen, dass die vier als *Lophuromys cinereus* beschriebenen Stücke graue Farbmutanten von *L. flavopunctatus* sind." [It cannot be excluded that the described *Lophuromys cinereus* specimens are only greyish colour mutants of *L. flavopunctatus*.]. This speculation was confirmed by VERHEYEN et al. (2002) when they compared the holotype of *L. cinereus* with *L. aquilus* (True, 1892). In the same paper these authors had demonstrated the conspecificity of six synonyms with *L. aquilus* hitherto included in the Ethiopian species of *L. flavopunctatus* (see MUSSER & CARLETON in WILSON & REEDER 2005).

#### Genus sp.

*Meriones stigmonyx* HEUGLIN, 1877: 78. – Nomen dubium.

**Referred specimen:** SMNS 1597a, female, (formerly mounted) skin, skull, East Kordofan, presumably leg. ERNST MARNO. Type specimens assumed to be in the SMNS collection, but could not be found.

**Comment:** Five out of nine specimens of gerbils assumed to be collected by HEUGLIN in Sudan, and still preserved in the SMNS were labelled as *Gerbillus stigmonyx*. One of them – adult, No. 1597a – had been mounted on a pedestal about in 1876 and removed from it in 1983 and the skull retracted (from the skin). The old label reads "Dipodillus Lat. *Gerbillus stigmonyx* Hgl., Ost-Kordofan (v. H. 1877)". Later the word "Typus" was added (certainly not by HEUGLIN himself, because he died in 1876). The measurements in the description translated in mm are by far too large for *Gerbillus*: HB: 120–130 mm, T: approx. 170 mm. Its origin from East Kordofan, and a note "Ömkenea" (in the book of entries) where ERNST MARNO collected for the museums Vienna and Stuttgart does not at all agree with HEUGLIN's collecting locality "... nicht selten bei Khartum in sandigen Flächen ..." [...] frequently found in the sandy surroundings of Khartoum...]. Thus the specimen 1597a cannot be *Gerbillus stigmonyx*. According to its appearance, measurements and skull characters it is clearly a *Taterillus* cf. *emini* (compare the account of *Taterillus macropus* Heuglin, 1864). No other specimen could be found in the collection which agrees with HEUGLIN's description. The whereabouts of any type specimen is unknown, probably a type did never exist.

#### *Psammomys* Cretzschmar, 1828

*Psammomys elegans* HEUGLIN, 1877: 80. – Valid name: *Psammomys obesus* (Cretzschmar, 1828).

**Syntypes:** SMNS 1574, male, skull, skin mounted, Schech Isle [Abdallah] near Suakin, Sudan; SMNS 35030, female, skull, skeleton, Schech Isle [Abdallah] near Suakin, Sudan; both specimens leg. T. v. HEUGLIN, January 1875.

**Comment:** HEUGLIN's first visit on the Schech Isle near Suakin was in July 1857 during his second African expedition (1857–1858). His next stay on Schech happened in January 1875 during his last expedition that ended three months later.

#### *Taterillus* Thomas, 1910

*Meriones macropus* HEUGLIN, 1864: 9. – Valid name: *Taterillus macropus* (Heuglin, 1864).

**Holotype:** SMNS 1098, male, skull (missing), mounted skin (Fig. 10), (Skel. Kat. No. 5396, original missing), Bongo, between Djur and Kosanga river, Sudan, leg. T. v. HEUGLIN.

**Comment:** ALLEN (1939) classified *Meriones macropus* as well to the genus *Gerbillus* (p. 325) as to *Tatera*. ELLERMAN (1941: 512, 514) also placed it – unfounded – as a synonym of *Tatera robusta* (Cretzschmar, 1830). The same classification was kept without comment by MUSSER & CARLETON (in WILSON & REEDER 2005), but now (in the former subgenus of *Tatera*) as *Gerbilliscus robustus*, and *macropus* (Heuglin, 1877) as synonym. – A careful investigation by DIETERLEN & TURNI (unpublished), however, proved that HEUGLIN had described his *Meriones macropus* as a species that was later described by THOMAS (1892: 78) as *Gerbillus emini*, and subsequently placed by him in the new genus *Taterillus* (THOMAS 1910: 222). The species name *macropus* has priority, so that *emini* must be treated as junior synonym (DIETERLEN, in prep.).

#### *Arvicanthis* Lesson, 1842

*Mus rufodorsalis* HEUGLIN, 1877: 70. – Valid name: *Arvicanthis abyssinicus* Rüppell, 1842.

**Holo- or syntype:** SMNS 1053, mounted specimen, skull, Semien, Wogara, Ethiopia, leg. T. v. HEUGLIN, 1863.

**Comment:** The specimen originally had been determined and labelled as *Arvicanthis abyssinicus*, presumably by F. KRAUSS. MUSSER & CARLETON (in WILSON & REEDER 2005) include *rufodorsalis* as a synonym of *A. abyssinicus*.

#### *Colomys* Thomas & Wroughton, 1907

*Colomys goslingi eisentrauti* DIETERLEN, 1983: 89. – Valid name: *Colomys eisentrauti* (Dieterlen, 1983).

**Paratype:** SMNS 32300, male, skull and skin, Bambui, Cameroon, leg. W. BÖHME, 8 March 1974.

**Comment:** Received by exchange from ZFMK (No. 74.367). MUSSER & CARLETON (in WILSON & REEDER 2005) treat *eisentrauti* as synonym of *goslingi*, but HUTTERER & DIETERLEN (in prep.), consider it as a valid species.

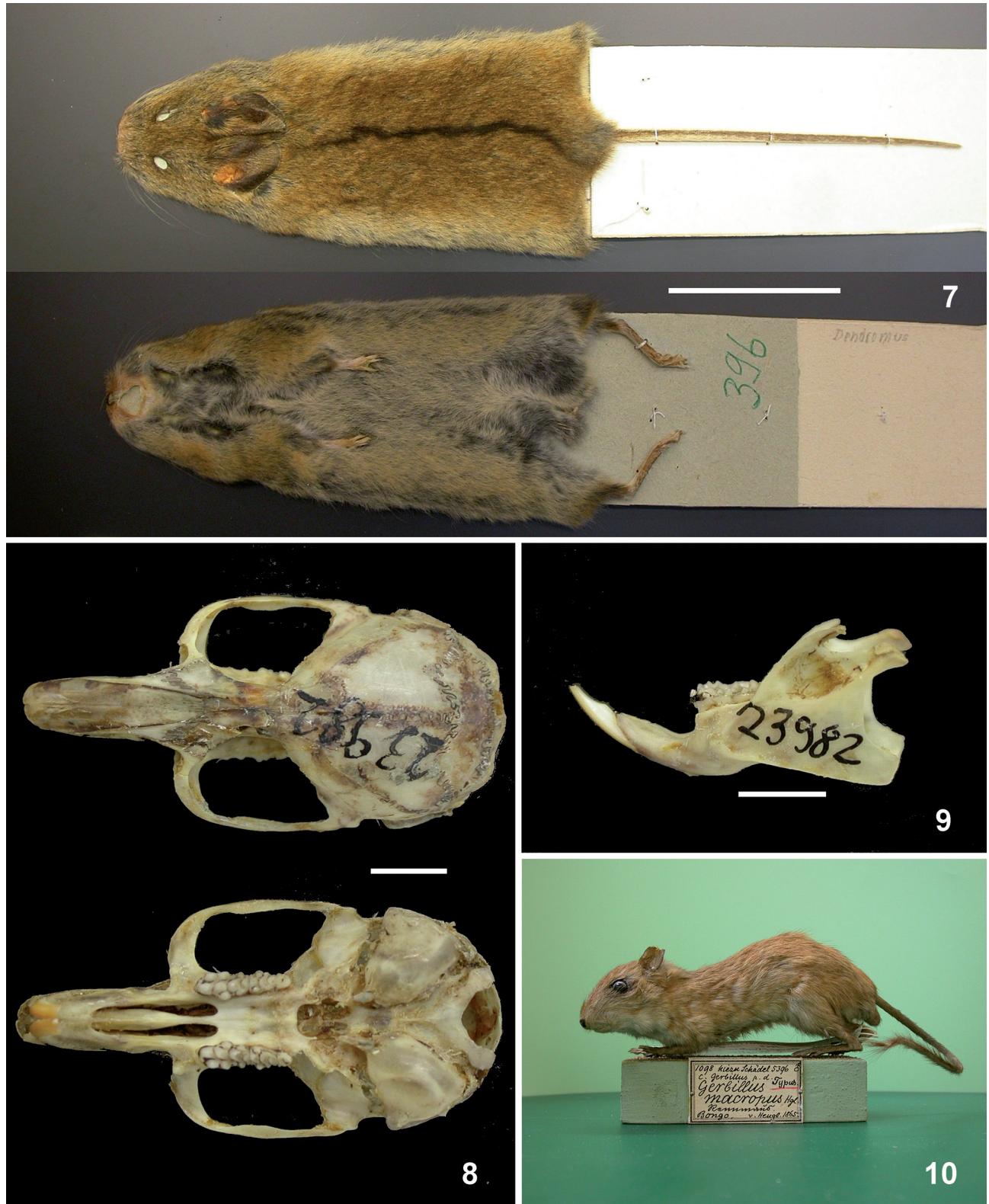
*Colomys goslingi ruandensis* DIETERLEN, 1983: 89. – Valid.

**Paratypes:** SMNS 15017–15022, skulls and skins, Uinka, Ruanda, leg. F. DIETERLEN, 19 August – 4 September 1964.

**Comment:** The holotype (ZFMK 68.548) and three additional paratypes from the same period and the same collector are stored in ZFMK.



**Figs. 2–6.** African Rodentia. – 2. *Heliosciurus bongensis* (Heuglin, 1877), holotype SMNS 1093, mounted skin. 3. *Dendromys mystacalis* Heuglin, 1863, holotype SMNS 1055. 4–6. *Dendromus ruppi* Dieterlen, 2009, holotype SMNS 27572, skull (4), jaw (5), skin (6). – Scales: 0.5 cm.



**Figs. 7–10.** African Rodentia. – **7–9.** *Megadendromus nikolausi* Dieterlen & Rupp, 1978, holotype, SMNS 23982, skull (8), jaw (9), skin (10). **10.** Mounted skin of *Taterillus macropus* (Heuglin, 1864), holotype SMNS 1098. – Scales: 5 cm (7), 0.5 cm (8, 9).

*Dasymys* Peters, 1875

*Dasymys incomitus longipilosus* EISENTRAUT, 1963: 132. – Valid.  
**Holotype:** SMNS 5332, female, skull, skin, Musake-Hütte, Mt. Cameroon, Cameroon. leg. Prof. M. EISENTRAUT, 31 January 1954.  
**Paratypes:** SMNS 5331, skull and skin, Buea, Mt. Cameroon, Cameroon, leg. Prof. M. EISENTRAUT, 15 January 1954; SMNS 5334, skull and skin, Manns Quelle, Mt. Cameroon, Cameroon, leg. Prof. M. EISENTRAUT, 26 April 1954

*Grammomys* Thomas, 1915

*Grammomys minnae* HUTTERER & DIETERLEN, 1984: 10. – Valid.  
**Holotype:** SMNS 24118, female, skull, skin, Bulcha Forest near Dilla, Ethiopia, leg. G. NIKOLAUS, 1 February 1976.  
**Paratypes:** SMNS 23624–23625, males, skulls and skins, Arba Minch, Ethiopia, leg. H. RUPP, 1971 and 1972.  
**Comment:** An Ethiopian endemic species. Clearly different from *G. dolichurus* (Smuts, 1832) and *G. macmillani* (Wroughton, 1907) by karyotype.

*Grammomys caniceps* HUTTERER & DIETERLEN, 1984: 12. – Valid.  
**Paratype:** SMNS 38200, male, skull, skin, skeleton, Malindi, Kenya, leg. R. HUTTERER, 15 July 1983.  
**Comment:** ROCHE et al. (1984) assigned their sample to the *G. dolichurus* group, and noted the distinctive quality of this species, occurring in Somalia and Kenya, as indicated by chromosomal evidence.

*Lemniscomys* Trouessart, 1881

*Mus zebra* HEUGLIN, 1864: 10. – Valid name: *Lemniscomys zebra* (Heuglin, 1864).  
**Syntypes:** SMNS 1100, male, skull, mounted specimen, Gazzelnluss (Bahr-el-Ghazal), “im Lande der Req-Neger, Djur und Bongo”, Anglo-Egyptian Sudan, leg. T. v. HEUGLIN; SMNS 1100b, male, body in alcohol, Bongo, leg. T. v. HEUGLIN.  
**Comment:** A member of the *L. barbarus* group. CARLETON & VAN DER STRAETEN (1997) distinguished this species from *L. barbarus*, which is endemic to the Barbarian province (Maghreb) of Northwest Africa.

*Lemniscomys striatus dieterleni* VAN DER STRAETEN, 1976: 431. – Valid.  
**Paratypes:** SMNS 12331, 12369, 12379, 12382, 12483, 12509, 12512, 12592, 12605, 12656, 12659, 12684, 12693, 12703, 12706, 12723, 12724, 12759, 12770, 12772, 12784, 12827, 12837, 12850; all with skulls and skin, Kivu, Congo (D.R.), leg. F. DIETERLEN, 25 May 1963 – 12 January 1966.

*Mastomys* Thomas, 1915

*Mus lateralis* HEUGLIN, 1877: 71. – Valid name: *Mastomys erythroleucus* (Temminck, 1853).  
**Holo- or syntype:** SMNS 1052, mounted specimen, Dembeja, Ethiopia, leg. T. v. HEUGLIN, 1863.

*Micromys* Dehne, 1841

*Mus minutus sareptae* HILZHEIMER, 1911: 18. – Valid name: *Micromys minutus* (Pallas, 1771).

**Holotype:** Missing.

**Paratypes:** SMNS 1233a “Nr. 11” and SMNS 1233b “Nr. 12”; both specimens from Sarepta, leg. GLITSCH, 1868.

**Comment:** HILZHEIMER designated the specimen “Nr. 10” as holotype. The collection entry book of SMNS listed originally three specimens from Sarepta, leg. GLITSCH 1868; however, the specimen “Nr. 10” had been identified as “*Mus wagneri sarepticus*” [handwritten label by HILZHEIMER?] and does not correspond with his description and measurements of *Mus minutus sareptae*.

*Mus* Linnaeus, 1758

*Mus pallescens* HEUGLIN, 1877: 72. – Valid name: *Mus musculus domesticus gentilis* (Brants, 1827) (fide ELLERMAN 1941: 246).

**Holo- or syntype:** SMNS 1101b, body in alcohol, skull extracted, Northern Sennaar, Sudan, leg. T. v. HEUGLIN.

*Mus wagneri sareptanicus* HILZHEIMER, 1911: 14. – Valid name: *Mus musculus wagneri* (Eversmann, 1848).

**Holotype:** SMNS 1232 (“Nr. 10”), specimen in alcohol, Sarepta, Russia, GLITSCH, 1868.

**Paratypes:** SMNS 1232 (“Nr. 9”), SMNS 1232b (“Nr. 14, 15”), specimens in alcohol, same data as holotype.

**Comment:** According to HILZHEIMER’s description “Nr. 20” should be the holotype, but this number does not exist and the other numbers are out of question. “Nr. 10” probably bears the original handwritten label of HILZHEIMER: “Typus von *Mus wagneri sareptanicus*, Sarepta, GLITSCH 1868”. HILZHEIMER’s description is right alone of this specimen. The other are more different. The skin of the holotype is completely light-sandy coloured. The tail densely haired, T 67 mm, HF 16 mm (without claws), E 13 mm. Above the base of the ear its outer edge looks on both sides squeezed. The upper incisives bear no notch. – The other specimens are slightly smaller and darker coloured: No. 9: T 65 mm, Hf 14.5 mm, E 12 mm, ear not squeezed, incisives without notch. No. 14: T 68 mm, Hf 15 mm, E 11 mm, not squeezed. No. 15: T 51 mm, Hf 15 mm, E 10.5 mm, not squeezed.

*Praomys* Thomas, 1915

*Praomys hartwigi* EISENTRAUT, 1968: 8. – Valid.

**Paratype:** SMNS 35351, female, skull and skin Lake Oku, Bano-Highland, Cameroon, 2100 m, leg. Prof. M. EISENTRAUT, 30 January 1967.

*Praomys hartwigi obscurus* HUTTERER & DIETERLEN, 1992: 403 [in HUTTERER et al. 1992]. – Valid name: *Praomys obscurus* Hutterer & Dieterlen, 1992.

**Paratypes:** SMNS 41296–41307, 41320, skulls and skins; SMNS 41208, skull only, Gangirwal, Gotel Mts. (2300 m), Nigeria; SMNS 41309–41312, skulls and skins; 41313–41316, specimens in alcohol, Chappal Waddi, 1900, Nigeria, leg. G. NIKOLAUS, 17–26 March 1988.

**Comment:** HUTTERER’s view (still in 1992) to treat this taxon as a full species, was followed by MUSSER & CARLETON (in WILSON & REEDER 2005) referring to HUTTERER’s proposal (in litt., 2003). *P. obscurus* is morphologically similar and phylogenetically closely related to *P. hartwigi*. Both species are members of the *P. tullbergi* complex. – The holotype is stored in ZFMK (ZFMK 88.115).

*Praomys misonnei* VAN DER STRAETEN & DIETERLEN, 1987: 3. – Valid.

Holotype: SMNS 10555 [original No. D 8231], male, skull, skin, Irangi (Kivu) Zaire, leg. F. DIETERLEN, 12 August 1966

Paratypes: SMNS 10460, 10494, 10504, 10505, 10507, 10511, 10518, 10549, 10552, 10554, 10562, 10565, 10595, 10601, 10609, 10613, 10617, 10621, 10623, 10631, 10632, 10647, 10650, 10659, 10670, 20449, 20511, 20526, 20537, 20541, 20570, 20621; all specimens with skins and skulls, Irangi (Kivu), Congo D. R. leg. F. DIETERLEN from 4 June 1966 to 14 November 1972.

Comment: *Praomys misonnei* is a member of the *P. tullbergi* complex.

#### *Rattus* Fischer, 1803

*Mus flavigaster* HEUGLIN, 1861[c]: 18. – Valid name: *Rattus rattus* (Linnaeus, 1758) (var. *frugivorus*).

Holotype: SMNS 747 (additional number 5412 for the skull), male, skull, mounted specimen, Scheck Isle, Said near Massaua (= Massawa), Eritrea, leg. T. v. HEUGLIN, 1859.

Comment: According to ALLEN (1939: 415) HEUGLIN could have confounded this specimen with *Mus flaviventris* Brants, 1827, then its valid name is *Rattus rattus frugivorus*. Its appearance fits well to this widespread colour phase of *Rattus rattus*.

#### *Stenocephalemys* Frick, 1914

*Praomys ruppi* VAN DER STRAETEN & DIETERLEN, 1983: 121. – Valid name: *Stenocephalemys ruppi* (Van der Straeten & Dieterlen, 1983).

Holotype: SMNS 23160, female, adult, skin and skull, Bonke, N of Bulta, (2800–3200 m), Ethiopia, leg. HANS RUPP, 9 March 1974.

Paratypes: SMNS 23128, 23150–23156, 23159, 6 males and 3 females, skulls and skins, a few skulls missing, Bulta and Bonke, N of Bulta, Ethiopia, leg. HANS RUPP, 8/9 March 1974.

Comment: Originally described as a species of *Praomys* based on material collected as “*Praomys albipes*, stenocephaler Typ” (RUPP 1980). The integration within the genus *Stenocephalemys* is not yet definitely established, but MUSSER & CARLETON (in WILSON & REEDER 2005) write “all available data about *ruppi* support its transfer from *Myomys* (= *Myomyscus*) to *Stenocephalemys*”.

#### *Otomys* Cuvier, 1824

*Oreomys* [sic!] *typus* HEUGLIN, 1877: 77. – Valid name: *Otomys typus* (Heuglin, 1877).

Holotype: SMNS 1051, mounted specimen, skull is missing, Semien Mts., Ethiopia, leg. T. v. HEUGLIN, 1863.

*Otomys occidentalis* DIETERLEN & VAN DER STRAETEN, 1992: 386. – Valid.

Holotype: SMNS 41336, male, adult, skull and skin, Chapal Waddi (1900 m), E Nigeria, leg. G. NIKOLAUS, 23 March 1988.

Paratype: SMNS 41335, female, skull, skin (without fur), Gangirwal, Gotel Mts. (2300 m), E Nigeria, leg. G. NIKOLAUS, 17–23 March 1988.

Comment: A species with five laminae on lower M 1, closely related to *O. barbouri* (Lawrence & Loveridge, 1953) and *O. lacustris* (G. M. Allen and Loveridge, 1933) in mountains of

Eastern Africa. The two skins of SMNS 41335, 41336, badly protected, were completely depilated as a damage done by moths. Two further paratype specimens sampled by the same collector, are deposited at ZFMK, No. 88.139/140.

#### *Hystricomorpha* Brandt, 1855 *Bathyergidae* Waterhouse, 1841 *Cryptomys* Gray, 1864

*Georychus ochraceo-cinereus* HEUGLIN, 1864: 3. – Valid name: *Cryptomys ochraceocinereus* (Heuglin, 1864).

Holotype: SMNS 1095, female, skull (separate number 5507), right zygomatic arch missing, mounted specimen, Bongo, Dembo, Kosanga-River, Bahr-el-Ghazal, Sudan, leg. T. v. HEUGLIN, 1863.

Comment: A redescription including additional specimens (leg. H. RUPP and G. NIKOLAUS), and comparisons with other taxa of *Cryptomys* occurring north of the equator will be published by DIETERLEN (in prep.).

#### *Thryonomyidae* Pocock, 1822 *Thryonomys* Fitzinger, 1867

*Aulacodus semipalmatus* HEUGLIN, 1864: 5. – Valid name: *Thryonomys swinderianus* (Temminck, 1827).

Holotype: SMNS 1089, female, skull, mounted specimen, West of the Djur River, to Fertit and Njam-njam country, upper Bahr-el-Ghazal, Anglo-Egyptian Sudan, leg. T. v. HEUGLIN, 1863.

Comment: According to the description the skin is damaged by spears. The name *semipalmatus* is a synonym and hitherto not known as a subspecies. This specimen served also for FITZINGER’s description of the genus *Thryonomys* in 1867. A redescription and comparisons with other forms will be published by DIETERLEN (in prep.).

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