




Type specimens of Primates (Mammalia) in the collections of the Museum für Naturkunde Berlin

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Abstract

The present catalog documents all the primate type specimens held at the collection of the Museum für Naturkunde Berlin [MfN]. Due to insufficient labeling at the time of receipt and description, many types remained unrecognized, labeled with synonymous or incorrect names until now. For identification of all types, including the previously unrecognized type specimens, approximately 8,000 primate specimens were revised in the MfN collection, 144 of them represent primary types (holotypes, lectotypes, and syntypes) and 141 paratypes or paralectotypes could be found. These types belong to 129 described primate species and subspecies, of which 44 are currently in use.

Key words: Museum für Naturkunde, primate type specimens, primate type catalog

Introduction

Bogutskaya *et al.* (2022) aptly describe zoological collections as the main archive of animal biodiversity on Earth. These collections are the basis for biological research to detect long-term changes in geographic distribution, phenology, abundance, and species evolution (Boakes *et al.* 2010). Type specimens are of central importance because they are each taxon's original and unique representatives. They provide information about the collector, the place and date of collection of the specimen, and the typical characteristics of the taxon described by the author of the description. They are, therefore, the reference specimens for systematic and taxonomic research, for example in verifying new taxa.

The Museum für Naturkunde Berlin (MfN) received large amounts of mammal specimens collected from the former German colonies, particularly between 1891 and 1920, including specimens that were used to describe new species (Jancke *et al.* 2015). Due to the continual arrival of incredible amounts of specimens, some of these from the original descriptions were not properly cataloged or marked as type specimens, such that they remained unrecognized in the large collection. Some specimens are still missing, and the status of other specimens is unclear. The present type catalog aimed to locate all primate type specimens in the MfN collection, to clarify their status, and to make the biological data available to future researchers—knowing that even with the greatest effort and accuracy, not every supposed type specimen can be found. The present type catalog of Primates is intended to continue the series of type catalogs from the mammal collection of the Museum für Naturkunde Berlin, which began with the Insectivora (Turni *et al.* 2007) and the Chiroptera (Turni & Kock 2008).

In the late 19th and early 20th century, the museum received a considerable amount of mammal material, including primates, from various parts of the world and a variety of different collectors and explorers, some of whom are mentioned in Table 1.

Each collector has contributed to expanding the scientific collection at the MfN Berlin and thereby made scientific research possible. Regarding the number of specimens from East, Central, and West Africa, the collectors Rudolf Grauer, Duke Adolf Friedrich of Mecklenburg, Georg Zenker, and Oscar Neumann should be highlighted. The latter also worked as a research assistant at the Zoological Collection for many years and described several species, some of whose scientific names are still valid today.

TABLE 1. Alphabetical list of the most important collectors for the collections of Museum Berlin.

Collector	Country and collecting period
von Beringe, Friedrich Robert (1865–1940)	Rwanda, Tanzania (formerly German East Africa) 1894–1906
Bluntschli, Hans (1877–1962)	Amazonas, Brazil 1912–1913
Böhm, Richard (1854–1884)	Uganda, Tanzania, Dem. Rep. of the Congo 1882–1883
Buchholz, Reinhold (1837–1876)	Gabon, Cameroon 1872–1875
Crossley, Alfred (1839–1877)	Madagascar 1869–1877
von der Decken, Karl Klaus (1833–1865)	Tanzania, Kenya, Madagascar, Somalia 1860–1865
Diehl, Adolf (1870–1943)	Cameroon 1901–1911
Ehrenberg, Christian Gottfried (1795–1876)	Egypt 1821–1825
Escherich, Georg (1870–1741)	Ethiopia 1909, Gabon, Republic Congo 1913–1914
Fischer, Gustav Adolf (1848–1886)	Kenya, Tanzania, Zanzibar 1876–1882
Frobenius, Leo Viktor (1873–1938)	Democratic Republic of the Congo 1904–1906
Grauer, Rudolf (1870–1927)	Tanzania, Democratic Republic of the Congo, Uganda, Cameroon 1907–1911
Hemprich, Wilhelm (1796–1825)	Egypt 1821–1825
Hildebrandt, Johann Maria (1847–1881)	Comoro Islands, Madagascar, Kenya 1872–1881
Jacob, Gerhard (1878–1914)	Cameroon 1899–1914
Kandt, Richard (1867–1918)	Rwanda, Uganda, Democratic Republic of the Congo 1897–1914
Langheld, Wilhelm (1867–1917)	Tanzania 1891–1900, Cameroon 1900–1908
Mecklenburg, Herzog Adolf Friedrich zu (1873–1969)	Tanzania, Democratic Republic of the Congo 1907–1908, Chad, Cameroon, Nigeria, Sudan 1910–1911
Mell, Rudolf (1878–1970)	China 1914–1922
Natterer, Johann (1787–1843)	Brazil 1817–1835
Neumann, Oscar Rudolph (1867–1946)	Tanzania, Uganda, Kenya 1892–1895, Ethiopia, Yemen, Somalia, Sudan 1899–1901
von Oertzen, Jasper Martin Otto (1880–1948)	Cameroon 1903–1910
Passarge, Siegfried (1866–1958)	Cameroon, Namibia 1894
Peters, Wilhelm Carl Hartwig (1815–1883)	Mozambique 1843–1847
Preuss, Paul Rudolph (1861–1926)	Cameroon 1886–1900 and 1902
Reichenow, Anton (1847–1941)	Ivory Coast, Gabon, Cameroon 1872–1873
Reuter, Franz (1881–1908)	Cameroon 1907–1908
Rüppell, Eduard (1794–1884)	1817 Egypt, 1822–1827 Egypt, Ethiopia, Sudan
Schomburgk, Richard (1811–1891)	Guyana 1840–1844; Australia 1849–1891
Schubotz, Hermann (1881–1955)	Tanzania, Democratic Republic of the Congo 1907–1908, Chad, Cameroon, Nigeria, Sudan 1910–1911
Sellow, Friedrich (1789–1831)	Brazil 1818–1831
Sieber, Friedrich Wilhelm (1775–1831)	Brazil 1801–1811
Spix, Johann Baptist (1781–1826)	Brazil 1817–1820
Stuhlmann, Franz Ludwig (1863–1923)	Zanzibar 1888, Mozambique 1889, Uganda, Tanzania 1890–1895
Voeltzkow, Alfred (1860–1947)	Zanzibar, Comoro Islands, Madagascar 1901–1903
Zech, Graf Johann Nepomuk (1868–1914)	Ghana, Togo 1895–1910
Zenker, Georg August (1855–1922)	Cameroon 1893–1912
zu Wied-Neuwied, Prinz Maximilian (1782–1867)	Brazil 1815–1817

Material and Methods

The present mammal collections of MfN contain approximately 150.000 specimens (Jancke *et al.* 2015), the components of which were once stored as separate sets within different catalog systems. Skins were registered in the “A-Katalog”—the entry book of the zoological collection—whereas many skulls and skeletons were registered, albeit often with insufficient information, in the Catalog of the Anatomical Collection of the Medical Faculty. Most, but not all, specimens of both catalogs were later registered in the *Catalogus generalis Musei Zoologici Berolinensis* [General catalog], which was started by Peters in 1857. Peters marked specimens in the General catalog that he assumed to be types with asterisks, and often accompanied those with additional annotations. Today, this General catalog remains the main record of the mammal collections of the MfN.

Evaluation of mammal types at the MfN is particularly complicated. Many types are not accounted for due to insufficient labeling at the time of receipt and description, destruction during World War II, and reduction of staff both before and after German reunification. Consequently, many types, labeled with synonyms or incorrect names, have until now remained unrecognized. To detect potential cryptic types, I examined approximately 8,000 primate specimens in the MfN collections. All available data, from reception books and old catalogs, old specimen labels, to original descriptions and relevant secondary literature (e.g., taxonomic revisions), were also consulted and evaluated to allow for the identification of the current nomenclatural and taxonomic status of each type specimen.

Taxonomic families are ordered following Mittermeier *et al.* (2013). In some cases, more recent taxonomic findings were taken into account; these studies are referred to for taxa in question. When 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, catalog number, specimen preparation, sex, age, locality, collector, and date of collection (although the date is often unknown), donor and date of donation (although the date is usually unknown), the previous institution from which specimen was received, followed by any additional comments. If known, reference is made to the whereabouts of additional syntype 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.

The present type catalog has been prepared in accordance with the rules, recommendations, and terminology of the International Commission on Zoological Nomenclature (ICZN 1999).

Abbreviations

AMNH	American Museum of Natural History, New York, USA.
BMNH	The Natural History Museum, London (formerly British Museum of Natural History), United Kingdom.
MNHN	Muséum National d’Histoire Naturelle, Paris, France.
NMW	Naturhistorisches Museum Wien, Wien, Austria.
RMNH	Naturalis Biodiversity Center Leiden (formerly Nationaal Natuurhistorisch Museum Leiden, Rijksmuseum van Natuurlijke Historie), Leiden, Netherlands.
SMF	Senckenberg-Naturmuseum, Frankfurt a. M., Germany.
SMNS	Staatliches Museum für Naturkunde Stuttgart, Stuttgart, Germany.
ZSM	Zoologische Staatssammlung München, München, Germany.

Results

Of all examined specimens, 285 could be identified as types (91 holotypes, 48 syntypes, 5 lectotypes, 141 paratypes or paralectotypes). These types belong to 129 described primate species, of which 44 are currently in use species names. Specimens found to have been previously erroneously listed as types by various investigators are identified in the Appendix.

CHEIROGALAEIDAE Gray, 1873

Microcebus myoxinus Peters, 1852

Reise nach Mossambique, p. 14

Current valid name: *Microcebus myoxinus* Peters, 1852

Lectotype [designated by Schwarz, 1931]: ZMB 319 (old number = An 14655), female, skin and skull; acquired in Bahia de S. Agostino [Baie de Saint-Augustin] Madagascar, by Peters between 1842 and 1848.

Paralectotype: ZMB 71431 (= An 14763), female, body in alcohol; acquired in Bahia de S. Agostino [Baie de Saint-Augustin] Madagascar, by Peters between 1842 and 1848.

Comment: Peters (1852, p. 18) based his description on three specimens, which were at that time in the Berlin collection. However, the third paralectotype from Bombatoka [Bombetoka], Madagascar, collected by Barnard, undated, could not be found in the collection.

LEPILEMURIDAE Gray, 1870

Mixocebus caniceps Peters, 1874

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 690

Current valid name: *Lepilemur mustelinus* Geoffroy Saint-Hilaire, 1851

Holotype: ZMB 4687, male, skin and skull; Madagascar; collected by A. Crossley, 1869.

INDRIIDAE Burnett, 1828

Lichanotus mitratus Peters, 1871

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 360

Current valid name: *Indri indri* (Gmelin, 1788)

Holotype: ZMB 4008, male, adult, skin (= A 1284) and skull; “Nossi Vola oder Saralalan” [according to Tattersall 2022 Nosivola, east of Lake Alaotra], Madagascar; collected by A. Crossley, 1869, vend. Gerrard.

Propithecus Deckenii [sic] Peters, 1870

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 421

Current valid name: *Propithecus deckenii* Peters, 1870

Syntypes: ZMB 3465, female, skull and skin; ZMB 3466, female, skin and skull; “Kanatzi, 18° s. Breitengrad” [presumably location near Maintirano], NW Madagascar; collected by von der Decken, between 1860 and 1861.

Comment: In the Mammal Species of the World (Groves 2005), Grandidier (1867) is erroneously listed as the describer of *Propithecus deckenii*. However, Grandidier (1867) described *Propithecus Verreauxi* [sic] as a new species and made no mention of *Propithecus deckenii*. The first description and name of *Propithecus deckenii* appeared in Peters (1870).

GALAGONIDAE Gray, 1825

Otolicnus Alleni [sic] var. *cameronensis* Peters, 1876

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 472

Current valid name: *Sciurocheirus cameronensis* (Peters, 1876)

Holotype: ZMB 5098, male, skull and skin; Cameruns (Aqua Town) [estuary of Wouri River near Akwa, part of Douala, Cameroon]; collected by Reichenow, 1872/1873.

***Otolicnus mossambicus* Peters, 1876**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 473

Current valid name: *Galago moholi* Smith, 1836

Syntypes: ZMB 325, female, skull, skin, skeleton in alcohol (= An 14943); ZMB 1242, male, adult, in alcohol; Tette, Mossambique [Tete, Mozambique]; collected by Peters between 1843 and 1847.

Comment: Peters (1852, p. 11), originally classified this species as *Otolicnus senegalensis* Geoffroy and revised this view in 1876. In Mozambique, as can be seen from the 1852 publication, more than 2 specimens were collected. The whereabouts of further specimens is unknown.

***Octolicnus* [sic] *pele* Temminck, 1853**

Esquisses Zoologique sur la Côte de Guinée, 1853, p. 42

Current valid name: *Galagoides demidoff* (Fischer, 1806)

Syntype: ZMB 322, juvenile, skin; Dutch Gold Coast, Dabocrom, now South Ghana; collected by Hendrik Severinus Pel, received from Museum Leiden, undated.

Comment: Jentink (1892) did not list the species *Galago* or *Otolicnus pele* when examining the Leiden Museum. All specimens in question can only be found under *Galago demidoffii* [sic]. Jentink overlooked the *pele* specimens as types, probably because he identified them with Fischer's *Galago demidoff* (Mije *et al.* 2023). Temminck, however, described the new species *pele* of supposed *demidoffii* specimens in the Leiden collection. Mije *et al.* (2023) recently identified in the collection of the Naturalis Biodiversity Center Leiden four other syntype specimens of *Octolicnus pele* (RMNH.MAM39079, RMNH.MAM.38980, RMNH.MAM.39081, and RMNH.MAM.25166).

***Otolicnus pusillus* Peters, 1876**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 473

Current valid name: *Galagoides demidoff* (Fischer, 1806)

Holotype: ZMB 4770, male, juvenile, skull and skin in alcohol; Dongila, Gabon; collected by Buchholz, donated by Reichenow, June 1873.

Comment: A further specimen in the General catalog—ZMB 2717—was labeled as type after Peters' time. According to the catalog entry, ZMB 2717 was from West Africa, lived in the Zoologischer Garten Berlin, collector and date were unknown. Peters registered that specimen as "*Otolicnus pele* or *Otolicnus demidoffii*" [sic]. Nevertheless, Peters used only the male specimen from Dongila, collected by Buchholz for description of *Otolicnus pusillus*. ZMB 2717 seems unlikely to be any kind of type. Finally, Schwarz (1931, p. 62) identified the specimen ZMB 4770 as the holotype of *Otolicnus pusillus* Peters, 1876.

***Galago zanzibaricus* Matschie, 1893**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 111

Current valid name: *Paragalago zanzibaricus* (Matschie, 1893)

Holotype: ZMB 64201 (= A 5582), skull, skin, skeleton; Mojoni [Muyuni], Jambiani, Zanzibar; collected by O. Neumann, 1893.

Paratypes: 64233 (= A 5583), skull; 64213 (= A 5584), skull; Mojoni [Muyuni], Jambiani, Zanzibar; collected by O. Neumann, 1893.

***Galago badius* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 277

Current valid name: *Otolemur crassicaudatus* (Geoffroy, 1812)

Holotype: ZMB A 24.10 (bzw. 24.00), female, skull and skin; Ugalla-River [= Wualaba], Uganda; collected by Kandt and donated by Langheld, 10 April 1900.

***Otolemur panganiensis* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 278

Current valid name: *Otolemur garnettii panganiensis* (Matschie, 1905)

Holotype: ZMB 3402, female, skull and skin; Aruscha [Arusha], Kilimanjaro, Tanzania; collected by von der Decken, 4 October 1862.

***Otolicnus lasiotis* Peters, 1876**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 912

Current valid name: *Otolemur garnettii lasiotis* (Peters, 1876)

Holotype: ZMB 5117 (= A 5107), male, juvenile, skull, skin in alcohol [skin not located]; Mombasa, Kenya; collected by Hildebrandt, 1876.

CALLITHRICHIDAE Thomas, 1902

***Hapale (Callithrix) chrysoleuca* Wagner, 1842**

Archiv für Naturgeschichte Serie 8, p. 357

Current valid name: *Callithrix chrysoleuca* (Wagner, 1842)

Syntype: ZMB 3191, male, skull, skin; Borba, Rio Madeira, Amazonas, Brazil; collected by Natterer 1830, received from Museum Wien.

Comment: Further four syntypes are located in the Naturhistorisches Museum Wien (NMW B 3456, B 3455, B3457, ST 970), one syntype in the Natural History Museum London (BMNH 1870.3.10.3), and one syntype in the Naturalis Biodiversity Center Leiden (RMNH.MAM.39099).

***Hapale santarensis* Matschie, 1893**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 225

Current valid name: *Mico humeralifer* (Geoffroy, 1812)

Lectotype [designated by Hershkovitz 1977, p. 595]: ZMB 7220, male, adult, skull, skin [skin not located]; Paricatuba, Amazonas, Brazil; collected by Schulz, 20 June 1893.

Paralectotype: 7221 (= 86311), male, juvenile, skin; acquired by Schulz on 11 June 1893 in Santarem, Tapajos, Brazil.

***Midas chrysomelas* Kuhl, 1820**

Beiträge zur Zoologie und vergleichenden Anatomie, Frankfurt 1820, p. 51

Current valid name: *Leontopithecus chrysomelas* (Kuhl, 1820)

Syntype: ZMB 306, skull, skin; Rio Pardo, Brazil; collected by Prinz Maximilian zu Wied-Neuwied, between 1815 and 1817.

Comment: Further syntypes are located in the American Museum of Natural History New York (AMNH Mammals MS-252) and in the Naturalis Biodiversity Center Leiden (RMNH.MAM.17691).

***Saguinus ursula* Hoffmannsegg, 1807**

Magazin der Naturforschenden Gesellschaft zu Berlin 1807. p. 102–104

Current valid name: *Saguinus ursula* Hoffmannsegg, 1807

Syntypes: ZMB 287, male, skull, skin; ZMB 288, female, adult and male, juvenile, skull, skin; ZMB 291, female, juvenile, skull, skin; surroundings of Para, Brazil; collected by Sieber, between 1800 and 1812.

Comment: Another syntype (IZH-M226) went to the Zoological collection in Museum Halle via the double sale by Lichtenstein, registered there in the entry book in 1818.

***Midas mystax* Spix, 1823**

Simiarum et Vespertilionum Brasiliensium species novae, p. 29

Current valid name: *Saguinus mystax* (Spix, 1823)

Syntype: ZMB 286, skull, skin (in bad condition); woodlands between Rio Solimões and Rio Ica, Amazonas, Brazil; collected by Spix between 1817 and 1820. Further syntypes in München (ZSM 29) and in Leiden (RMNH. MAM.39102).

***Mystax bluntschlii* Matschie, 1915**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 96

Current valid name: *Leontocebus illigeri* (Pucheran, 1845)

Holotype: ZMB 85342 (= 157.13.272), male, adult, skin; Loreto, Samirio-River, Solimões, Tabatinga, Amazonas, Brazil; collected by Bluntschli 1912.

Paratypes: ZMB 85343 (=A 157.13.0), female, adult, skin; ZMB 71456/71457 (= A 157.13.617), male, adult, skull, skin in alcohol, skeleton; Loreto, Samirio-Fluss, Tabatinga, Amazonas, Brazil; collected by Bluntschli 1912.

CEBIDAE Bonaparte, 1831

***Cebus olivaceus* Schomburgk, 1848**

Reisen in Britisch-Guiana in den Jahren 1840–1844 Band 2, p. 247

Current valid name: *Cebus olivaceus* Schomburgk, 1848

Syntypes: ZMB 254, skull, skin; ZMB 255, skull, skin; Guiana [Guyana]; collected by Schomburgk, undated.

***Cebus apella chacoensis* von Pusch, 1942**

Zeitschrift für Säugetierkunde 16, p. 208

Current valid name: *Sapajus apella* (Linnaeus, 1758)

Holotype: ZMB 38745, skin; Chaco, Paraguay; collected by Wissmann, undated.

***Cebus apella morrulus* von Pusch, 1942**

Zeitschrift für Säugetierkunde 16, p. 207

Current valid name: *Sapajus apella* (Linnaeus, 1758)

Holotype: ZMB 44290, female, skull, skin; Santa Barbara, Paraguay; collected by F. Schade, May 1931, donated by O. Neumann.

Paratypes: ZMB 24322, female, skull, skin; Paraguay, collector, and date unknown, ex Zoologischer Garten Berlin; ZMB 16405, male, skull, skin; Paraguay, collector and date unknown, ex Zoologischer Garten Berlin; ZMB 35758, skull, skin; Santa Barbara, Paraguay; collected by Delgo, 1936.

Comment: Botho von Pusch (1942, p. 207) erroneously listed O. Neumann as collector. However, Oscar Neumann was never in Paraguay, the correct collector was F. Schade.

***Cebus apella magnus* von Pusch, 1942**

Zeitschrift für Säugetierkunde 16, p. 202

Current valid name: *Sapajus apella* (Linnaeus, 1758)

Holotype: ZMB 10620/10621, male, skull, skin; Rio Putumayo, Colombia; collected by Hoppke, 9 October 1898.

Comment: According to von Pusch (1942, p. 203) there is a paratype specimen, male, skin, skull, Monotombo, Central America in the collections of BM[NH] no. 39.7.25.16.

***Cebus apella avus* von Pusch, 1942**

Zeitschrift für Säugetierkunde 16, p. 205

Current valid name: *Sapajus apella* (Linnaeus, 1758)

Holotype: ZMB 218, female, skull, skin; type locality and collector unknown, ex Zoologischer Garten Berlin between 1846 and 1848.

Comment: One paratype is informed to be at the collection of Staatliches Museum für Naturkunde Stuttgart (SMNS), no. 405 from Roller's Menagerie, without information on locality, collector, and date.

***Cebus apella maranonis* von Pusch, 1942**

Zeitschrift für Säugetierkunde 16, p. 198

Current valid name: *Sapajus apella* (Linnaeus, 1758)

Holotype: ZMB 20288, male, skin; Rio Saimirio (= Saimira River), Hamburgo (Department of Loreto), Peru; collected by Bluntschli, 1912.

Paratype: ZMB 45666, skin; upper Amazonas; collected by Frank, undated.

***Cebus sciureus albigena* von Pusch, 1842**

Zeitschrift für Säugetierkunde 16, p. 212

Current valid name: *Saimiri sciureus* (Linnaeus, 1758)

Holotype: ZMB 33951, male, skull, skin; Medina, Bogota, Colombia; collected by Apolinar-Maria, 1924.

PITHECIIDAE Mivart, 1865

***Callithrix brunea* Wagner, 1842**

Archiv für Naturgeschichte 8, p. 357

Current valid name: *Plecturocebus brunneus* (Wagner, 1842)

Paralectotype: ZMB 3190, female, mounted skin; Cachoeira de Bananeira (upper Rio Madeira), Brazil; collected by Natterer 03 September 1829, received from Naturhistorisches Museum Wien.

Comment: the lectotype and two paralectotypes are in the Naturhistorisches Museum Wien. The specimen NMW 775/B 3454 (no.61) male, skull, and skin was designated by Elliot (1913) as lectotype, as explained by Engelberger (2010).

***Callithrix cuprea* Spix, 1823**

Simiarum et Vespertilionum Brasiliensium species novae, p. 23

Current valid name: *Plecturocebus cupreus* (Spix, 1823)

Paralectotype: ZMB 264, male, adult, skull [not located], skin; Brazil, received from Museum München, donated by Spix.

Comment: Hill (1960: 122) designated a female, adult, mounted skin, skull inside (ZSM 10) in München as the lectotype. Three further paralectotypes are in München (ZSM 24, ZSM 89a, and ZSM 89b), and one further paralectotype in Leiden (Paralectotype, RMNH.MAM.39086).

***Cebus torquatus* Hoffmannsegg, 1807**

Magazin der Naturforschenden Gesellschaft zu Berlin 1807, p. 86

Current valid name: *Cheracebus torquatus* (Hoffmannsegg, 1807)

Holotype: ZMB 265, male, skull, skin; Para, Brazil; collected by Sieber, undated.

***Cebus moloch* Hoffmannsegg, 1807**

Magazin der Naturforschenden Gesellschaft zu Berlin 1807, p. 97

Valid name: *Plecturocebus moloch* (Hoffmannsegg, 1807)

Syntypes: ZMB 262, male, skull, skin; ZMB 263, female, skull, skin; Para, Brazil; collected by Sieber, undated.

***Cebus satanas* Hoffmannsegg, 1807**

Magazin der Naturforschenden Gesellschaft zu Berlin 1807, p. 93

Current valid name: *Chiropotes satanas* (Hoffmannsegg, 1807)

Syntypes: ZMB 248, female, skull, skin; ZMB 249, male, skull, skin; both specimens from Para, Brazil, collected by Sieber, undated.

CERCOPITHECIDAE Gray, 1821

Cercocebus fumosus Matschie, 1914

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 340

Current valid name: *Cercocebus agilis* Milne-Edwards, 1886

Holotype: ZMB 32789/32790 (= A 11a, 08, 378), female, adult, skull, skin; Wälder NW Beni at Semliki River, Democratic Republic of the Congo; collected by Herzog Adolf Friedrich zu Mecklenburg, March 1908.

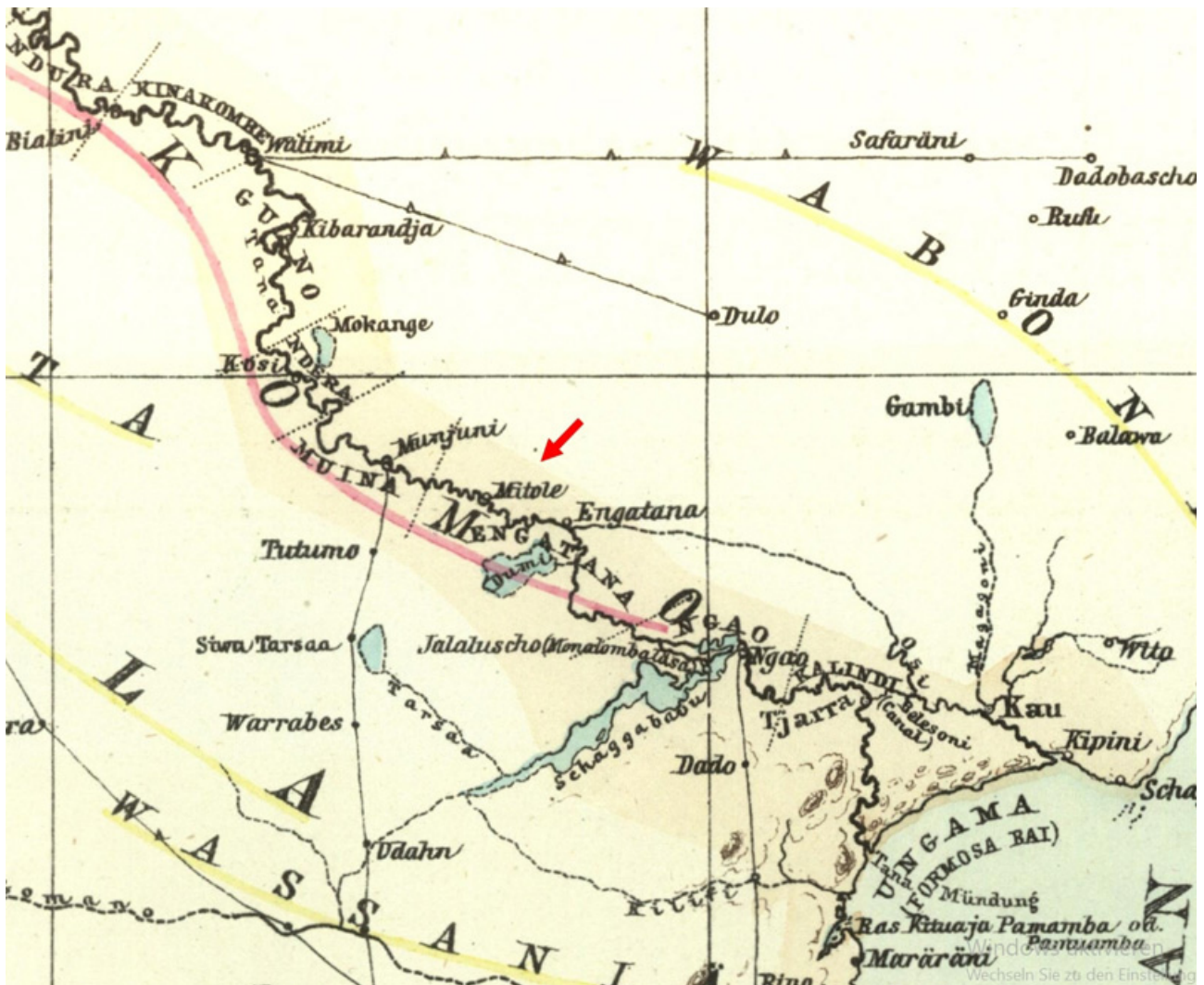


FIGURE 1. Location of the village Mitole [red arrow] at the Tana-River; [Map section from “Petermann's Mitteilungen aus Justus Perthes' Geographischer Anstalt”, Vol. 27, 1881].

Cercocebus galeritus Peters, 1879

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 830

Current valid name: *Cercocebus galeritus* Peters, 1879

Holotype: ZMB 5546, male, adult, skull, skin (= A11a,08,378, skin not located); Peters: “Das einzige Exemplar, ein ausgewachsenes Männchen, wurde in Mitole, an der Mündung des Osi und Tana-Flusses, am 16 November erlegt;“ [The only specimen, an adult male, was shot in Mitole [at the Tana River, Kenya, see fig. 1], at the estuary of the Osi and Tana Rivers] on November 16th] collected by Fischer, 16 November 1878.

***Cercopithecus Schmidtii* [sic] Matschie, 1892**

Zoologischer Anzeiger 390, p. 161

Current valid name: *Cercopithecus ascanius schmidtii* Matschie, 1892

Holotype: ZMB 33080/33180 (= A 5564) male, skull, mounted skin; between Mengo and Monjoni [?], Kampala, Murchison-Bay, Uganda; collected by Stuhlmann, January 1891.

Paratype: ZMB 33182/33183 (= A 5569), female, skull, skin; between Mengo and Monjoni [?], Kampala, Murchison-Bay, Uganda; collected by Stuhlmann, January 1891.

***Cercopithecus (Rhinostictus) schmidtii mpangae* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 67

Current valid name: *Cercopithecus ascanius schmidtii* Matschie, 1892

Syntypes: ZMB 33201 (= A 5.08.14) skin / 33202 (= A 5.08.13) skull, male juvenile; Mpanga-Urwald, “8 Kilometer östlich Fort Portal” [Kitagwenda District], in the Western Region of Uganda; collected by Grauer, 1908; ZMB 33218 skin (A 124.07.3) / ZMB 33219 skull (A 124.07.3), male; Entebbe, Uganda; collected by Grauer, donated by Rolle 07 November 1907; ZMB 33220 skin (A 124.07.14) / ZMB 33221 skull (A 124.07.14), female; Entebbe, Uganda; collected by Grauer, donated by Rolle 07 November 1907.

***Cercopithecus (Rhinostictus) ascanius omissus* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 68

Current valid name: *Cercopithecus ascanius whitesidei* Thomas, 1909

Holotype: ZMB 33181/33215, (= A 5094) male, juvenil, skull, skin; Mpapua [Mpwapwa] im Lande der Manyema, Tanganjika, Tanzania; collected by Schmidt, 1889.

***Cercopithecus (Rhinostictus) ascanius kassaicus* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 74

Current valid name: *Cercopithecus ascanius whitesidei* Thomas, 1909

Holotype: ZMB 13483 skull, [skin missing], female, subadult; “Pogge-Fälle am Kassai” Democratic Republic of the Congo; collected by Frobenius, between 1904 and 1906.

Paratype: ZMB 13324 skin / ZMB 13325 skull, male, juvenile; Democratic Republic of the Congo; collected by Frobenius, between 1904 and 1906; deceased 1907 in the Zoologischer Garten Berlin.

Comment: Matschie (p. 74) listed the skin ZMB 13484 as [a part of] the holotype. However, according to catalog entry and skin label, ZMB 13484 is a male of the White-Headed Capuchin (*Cebus capucinus*) from El Boquet, Prov. Chiriqui, Panama, collected by A. Boutet. A check of the skin confirms this information. The skin of the holotype of *Cercopithecus ascanius kassaicus* Matschie, 1912 could not be located.

***Cercopithecus samango* Sundevall, 1844**

Öfersigt af kongl. Vetenskaps-Akademiens Förhandlingar, p. 160 (118)

Current valid name: *Cercopithecus mitis labiatus* I. Geoffroy Saint-Hilaire, 1842

Syntype: ZMB 3783, female, skin, skull; Cafferland [South Africa]; collected by Wahlberg, received from Museum Stockholm, undated.

***Cercopithecus neumanni* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 266

Current valid name: *Cercopithecus mitis stuhlmanni* Matschie, 1893

Syntypes: ZMB 33491/33492, male, skull, skin; ZMB 33493/33494, female, skull, skin; ZMB 33495/33496, juvenile, skull, skin; ZMB 33497, female, skull; ZMB 33498, juvenile, skull; Kwa Kitoto [Kisumu], N-Kavirondo, [Area in the Kavirondo Gulf of Victoria Lake], Kenya; collected by O. Neumann, 1894.

***Cercopithecus kandti* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 264

Current valid name: *Cercopithecus mitis kandti* Matschie, 1905

Syntypes: ZMB 33500, skin; ZMB 33501, skin; ZMB 33502 skin; "Vulkane nördlich Kivu-See" [volcanoes in the north of Lake Kivu], Democratic Republic of the Congo; collected by Kandt, undated.

***Cercopithecus (Mona) leucampyx schubotzi* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 78

Current valid name: *Cercopithecus mitis stuhlmanni* Matschie, 1893

Holotype: ZMB 33607/33608 (=1059/1060) male, adult, skull, skin; Mawambi, Ituri [Aruwimi River] Democratic Republic of the Congo; collected by Schubotz, undated.

Paratypes: ZMB 33609/33610 (=1074/1075), male, adult; ZMB 33611/33612 (= 1076/1077), female, juvenile; ZMB 33613/33614 pullus; all specimens from Mawambi, Ituri [Aruwimi River], Democratic Republic of the Congo; collected by Schubotz, undated.

***Cercopithecus stuhlmanni* Matschie, 1893**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 225

Current valid name: *Cercopithecus mitis stuhlmanni* Matschie, 1893

Holotype: ZMB 33622 (= A 5574), male, adult, skull, mounted skin; "Urwald nördlich von Kinjawanga, wenig westlich vom Ituri zwischen Albert-Edward- und Albert-See, ungefähr unter 29° 35' östl. von Greenwich und 0° 25' nördl. Br. im Wakondjo-Lande" [west of the Semliki river, east of Beni, Democratic Republic of Congo]; collected by Dr. Stuhlmann, 07 January 1892.

***Cercopithecus albogularis phylax* Schwarz, 1927**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 32

Current valid name: *Cercopithecus mitis albotorquatus* de Pousargues, 1896

Holotype: ZMB 35422, female, skull, skin; “Insel Patta, Witu-Inseln, Ost-Afrika” [Pate, Lamu-Archipelago, Kenya]; collected by Voeltzkow, 21 March 1903.

***Cercopithecus erythrarchus* Peters, 1852**

Reise nach Mossambique, p. 1

Current valid name: *Cercopithecus albogularis erythrarchus* Peters, 1852

Lectotype: ZMB 69 (= An 16059), male, juvenile, skull, mounted skin [fig. 2–3]; Inhambane, Quellimane, Mossambique [Inhambane, Quelimane, Mozambique]; collected by Peters, between 1842 and 1848.



FIGURE 2. Lectotype specimen, a mounted skin, of *Cercopithecus erythrarchus* Peters, 1852.

Comment: The name *Cercopithecus erythrarchus* is mentioned by Peters in the “Mittheilungen in der Gesellschaft naturforschender Freunde zu Berlin, 16. Juli 1850” as nomen nudum. Peters described this species later in 1852 (p. 1, pl. I) mainly using one specimen that Schwarz (1927, p. 152) mentioned (No. 16059) as the “type” of this species thereby he designated a lectotype. Due to the fact that Peters (1852) mentioned two localities for this species (Inhambane and Quellimane) the number of collected specimens is unknown. One further specimen, a mounted skin and skull, from Mozambique, collected by Peters between 1843 and 1847, received on 25 May 1851 from Museum Berlin, was located and labeled as the paralectotype (RMNH.MAM.39121) in the Naturalis Biodiversity Center Leiden (van der Mije *et al.* 2023).

***Cercopithecus preussi* Matschie, 1898**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 76

Current valid name: *Allochrocebus preussi preussi* (Matschie, 1898)

Syntypes: ZMB 33305/33306, female, skull, skin; ZMB 33307/33308, skull, skin; ZMB 33309/33310, male, juvenile, skin; ZMB 33311, female, juvenile, skull; all specimens from Victoria [Limbe], Cameroon; collected by Preuss, undated.



FIGURE 3. Lectotype specimen, skull and label of *Cercopithecus erythrarchus* Peters, 1852.

***Cercopithecus thomasi* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 262

Current valid name: *Allochrocebus lhoesti* (Sclater, 1899)

Holotype: ZMB 33163/33164, female, juvenile, skull, skin, skeleton; “Bambuswälder am Südhang der Vulkane des Kivu-Sees” [volcanoes in the north of Lake Kivu], Democratic Republic of the Congo; collected by Dr. Kandt, 08 November 1902.

Paratypes: ZMB 33165, male, skin; ZMB 33166 female, skin; ZMB 33167, male, skin; ZMB 33168, male, skin; all specimens from “Bambuswälder am Südhang der Vulkane des Kivu-Sees” [volcanoes in the north of Lake Kivu], Democratic Republic of the Congo; collected by Dr. Kandt, 08 November 1902.

***Cercopithecus passargei* Matschie, 1897**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 74

Current valid name: *Chlorocebus tantalus tantalus* (Ogilby, 1841)

Holotype: ZMB 9101 / ZMB 7727, male, adult, skull, skin; Yola, Benue River, Nigeria; collected by Passarge, 07 September 1893.

Comment: Holotype according to Schwarz (1926, p. 33), and marked with a type asterisk and a note in the General catalog by Matschie himself. Matschie’s description is based on the male from Yola, Benue River, collected by Passarge.

***Cercopithecus centralis* Neumann, 1900**

Zoologische Jahrbücher Abteilung für Systematik, Geographie und Biologie der Tiere, 13 (6), p. 533

Current valid name: *Chlorocebus pygerythrus centralis* (Neumann, 1900)

Lectotype: ZMB 35502, male, adult, skull, skin; Bukoba [Victoria Lake, Tanzania]; collected by O. Neumann, June 1894.

Paralectotype: ZMB 88787, skin, Ssesse-Insel [Ssesse Islands, Victoria Lake, Tanzania]; collected by O. Neumann, June 1894.

Comment: Neumann’s description of *Cercopithecus centralis* is based on two specimens, and he did not designate a holotype. Schwarz (1926, p. 31) listed ZMB 35502 as “Typus”, thereby designating it the lectotype.

***Cercopithecus hilgerti* Neumann, 1902**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 50

Current valid name: *Chlorocebus pygerythrus hilgerti* (Neumann, 1902)

Holotype: ZMB 35503, male, adult, skull, skin; “Gobele-Fluss” (Ennia Galla-Land) [Gobele river, Ethiopia]; collected by O. Neumann on 27 May 1901.

Paratypes: ZMB 88770, female, skull, Gobele river, Ethiopia, Neumann; ZMB 88771, female, skull, Gara Mulata river, Ethiopia, Neumann; ZMB 88772, male, juvenil, skull, Gobele river, Ethiopia, Neumann; ZMB 88773, male, juvenile, skull, Gobele river, Ethiopia, Neumann; ZMB 88774, male, skull, skin, Djaffa Mountains, Ethiopia, Neumann; ZMB 88775, juvenile, skull, Gara Mulata river, Ethiopia, Neumann; ZMB 88776, female, adult, skull, skin, Webbi river, Ethiopia, Neumann; ZMB 88777, male, skull, skin, Webbi river, Ethiopia, Neumann; uncatalogued, female, skin, Burka, Ethiopia, collected by Hilgert, 20 May 1900.

Cercopithecus ellenbecki Neumann, 1902

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 50

Current valid name: *Chlorocebus aethiops matschiei* (Neumann, 1902)

Holotype: ZMB 35504, female, skull, skin; “Suksuk-Fluss” [Awash river between Lake Ziway and Abijata Lake], Ethiopia; collected by O. Neumann on 27 November 1900.

Paratypes: ZMB 88754, skull, skin; ZMB 88755, skull, skin; ZMB 88756, skull; specimens from “Suksuk-Fluss” [Awash river between Lake Ziway and Abijata Lake] and “Maki-Fluss” [Maquii or Meki river] at “Zuai-See” [Lake Ziway = Hora Dambal], Ethiopia; collected by O. Neumann, 1900.

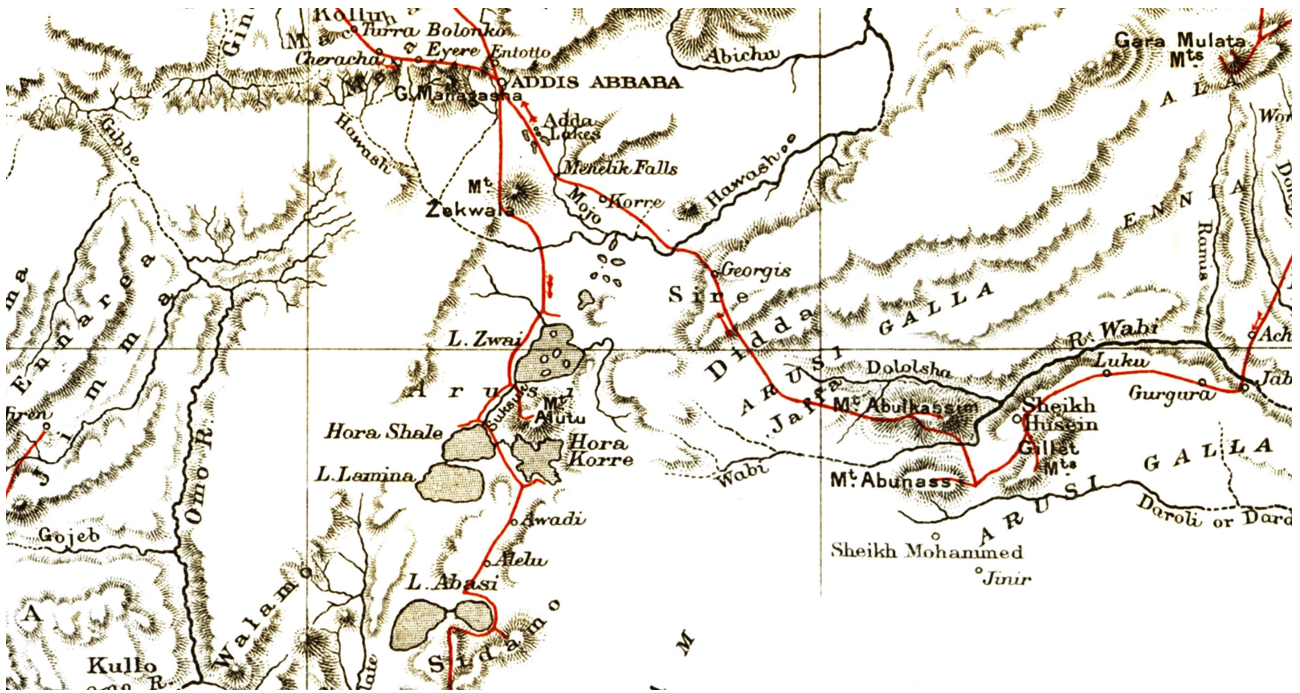


FIGURE 4. Type locality of *Cercopithecus ellenbecki* Neumann, 1902 in the surroundings of Lake Ziway (Map section of Oscar Neumann's Journey—red line—in 1900).

Cercopithecus djamdjamensis Neumann, 1902

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 51

Current valid name: *Chlorocebus djamdjamensis* (Neumann, 1902)

Holotype: ZMB 35505, old female, adult, skull, skin; Abera (Djamdjam), “Bambuswald in 3.300m Höhe” [presumably highlands east of Dilla, bamboo forest in 3.300m altitude], Ethiopia; collected by O. Neumann on 17 December 1900.

Cercopithecus matschiei Neumann, 1902

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 51

Current valid name: *Chlorocebus aethiops matschiei* (Neumann, 1902)

Holotype: ZMB 35509, male, skull, skin; “Malo am Omo” [presumably the Argun North Mountains at the Omo river, 6°33' N / 36°43' E], Ethiopia; collected by O. Neumann, 14 February 1901.

Paratypes: ZMB 88757, male, skull, skin, Anderatscha [surroundings of Anderaccha / Bonga], Ethiopia, collected by O. Neumann, 8 April 1901; ZMB 88758, male, skull, skin, Anderatscha [surroundings of Anderaccha

/ Bonga], Ethiopia, collected by O. Neumann, 14 March 1901; ZMB 88759, female, juvenile, skull, skin, Obesa Koscha [presumably Coiscia region, 6°40'N / 30°25'E], collected by O. Neumann, 22 February 1901; ZMB 88760, female, skull, skin, Doko [Doco region at Omo river, 6°25' N / 36°30' E], collected by O. Neumann, 12 February 1901; ZMB 88761, male, juvenile, skull, skin, Malo [Argun North Mountains at the Omo river, 6°33' N / 36°43' E], collected by O. Neumann, 14 February 1901; ZMB 88762, male, skull, skin, Schecho [presumably Coiscia region, 6°40'N / 30°25' E], collected by O. Neumann, 27 April 1901; ZMB 88763, female, juvenile, skull, skin, Malo [Argun North Mountains at the Omo river, 6°33' N / 36°43' E], collected by O. Neumann, 14 February 1901; ZMB 88764, female, skull, skin, Obesa Koscha [presumably Coiscia region, 6°40'N / 30°25'E], collected by O. Neumann, 22 February 1901; ZMB 88765, male, skull, skin, Obesa Koscha [presumably Coiscia region, 6°40'N / 30°25'E], collected by O. Neumann, 22 February 1901; ZMB 88766, female, juvenile, skull, skin, Malo [Argun North Mountains at the Omo river, 6°33' N / 36°43' E], collected by O. Neumann, 14 February 1901; ZMB 88767, male, skull, skin, oberer Gelo [upper region of the Gilo river], Ethiopia, collected by O. Neumann, 1 May 1901; ZMB 88790, male, skin, Kaffa [Kaffa province], Ethiopia, collected by O. Neumann, 24 March 1901; ZMB 88791, male, skin, Soketi, Koscha, [presumably Coiscia region, 6°40'N / 30°25'E], collected by O. Neumann, 24 March 1901.

***Cercopithecus aethiops nesiotus* Schwarz, 1926**

Zeitschrift für Säugetierkunde 1, p. 42

Current valid name: *Chlorocebus pygerythrus nesiotus* (Schwarz, 1926)

Holotype: ZMB 35510, male, adult, skull, skin not located; Chake Chake, Pemba Island, Tanzania; Voeltzkow 1903.

Paratypes: still uncatalogued specimen, skin, female, adult; ZMB 87565, skull; Chake Chake, Pemba island, Tanzania; Voeltzkow; ZMB 87768 (= A 50.04 zy) skull, Sisini [Sisini Estuary] N Pempa island, Tanzania; Voeltzkow 23 March 1903; ZMB 88782, skull, skin; ZMB 88785, skull, skin; ZMB 88784, skull, skin; all specimens from Pemba island, Tanzania; collected by Voeltzkow.

***Cercopithecus aethiops excubitor* Schwarz, 1926**

Zeitschrift für Säugetierkunde, 1, p. 43

Current valid name: *Chlorocebus pygerythrus pygerythrus* (F. Cuvier, 1821)

Holotype: ZMB 35511, male, adult, skull and skin [specimen not located]; "Insel Manda, Witu-Inseln" [Manda, Lamu-Archipelago], Kenya; collected by Voeltzkow, 11 February 1903.

Paratypes: ZMB 88778, skull, skin; Insel Manda; ZMB 88779, skull; "Insel Manda" [Manda, Lamu-Archipelago], Kenya; ZMB 88780, skull; "Insel Patta" [Pate, Lamu-Archipelago], Kenya, 21 March 1903.

***Cercopithecus flavidus* Peters, 1852**

Reise nach Mossambique, p. 3

Valid name: *Chlorocebus pygerythrus* (Cuvier, 1821)

Holotype: ZMB 87561 [An 16319] male, skull, skeleton; Tete, Mozambique, collected by Peters, undated.

Comments: The description of *Cercopithecus flavidus* based on a single specimen from "Quitangonha". Schwarz (1926, p.39) could not find the type in the Berlin collection. However, Matschie (1893, p. 213) noticed: "In unserer Sammlung hat sich, soweit die Kataloge urtheilen lassen, jemals weder ein ausgestopftes Exemplar noch ein Balg dieser Art befunden, welche als Original der von Peters [...] aufgestellten Species betrachtet werden könnte; dagegen haben wir aus der früheren „Anatomischen Sammlung“, in welche ein größerer Theil der von Peters gesammelten Objecte gelangt ist, ein Skelet übernommen mit der Bezeichnung: „No. 16319. *Cercopithecus flavidus* Ptrs. Männchen Mossambique, Peters" [Translation: In our collection, as far as the catalogs can be judged, there has never been a stuffed specimen or a skin of this species, which could be considered an original of the species listed

by Peters [...]; on the other hand, we have taken over a skeleton [skull?] from the earlier “Anatomical Collection”, into which a large part of the objects collected by Peters came, with the designation: “No. 16319. *Cercopithecus flavidus* Ptrs., male Mozambique, Peters]“.

***Cercopithecus pyrrhonotus* Hemprich & Ehrenberg, 1829**

Verhandlungen der Gesellschaft naturforschender Freunde Berlin 1, p. 407.

Current valid name: *Erythrocebus patas pyrrhonotus* (Hemprich and Ehrenberg, 1829)

Holotype: ZMB 91 (= 8254 or An 6360), male, skull, skin; acquired in Cordofan [Kordofan] Sennaar [Sennar Province], Sudan in 1822 by Hemprich, donated by Ehrenberg.

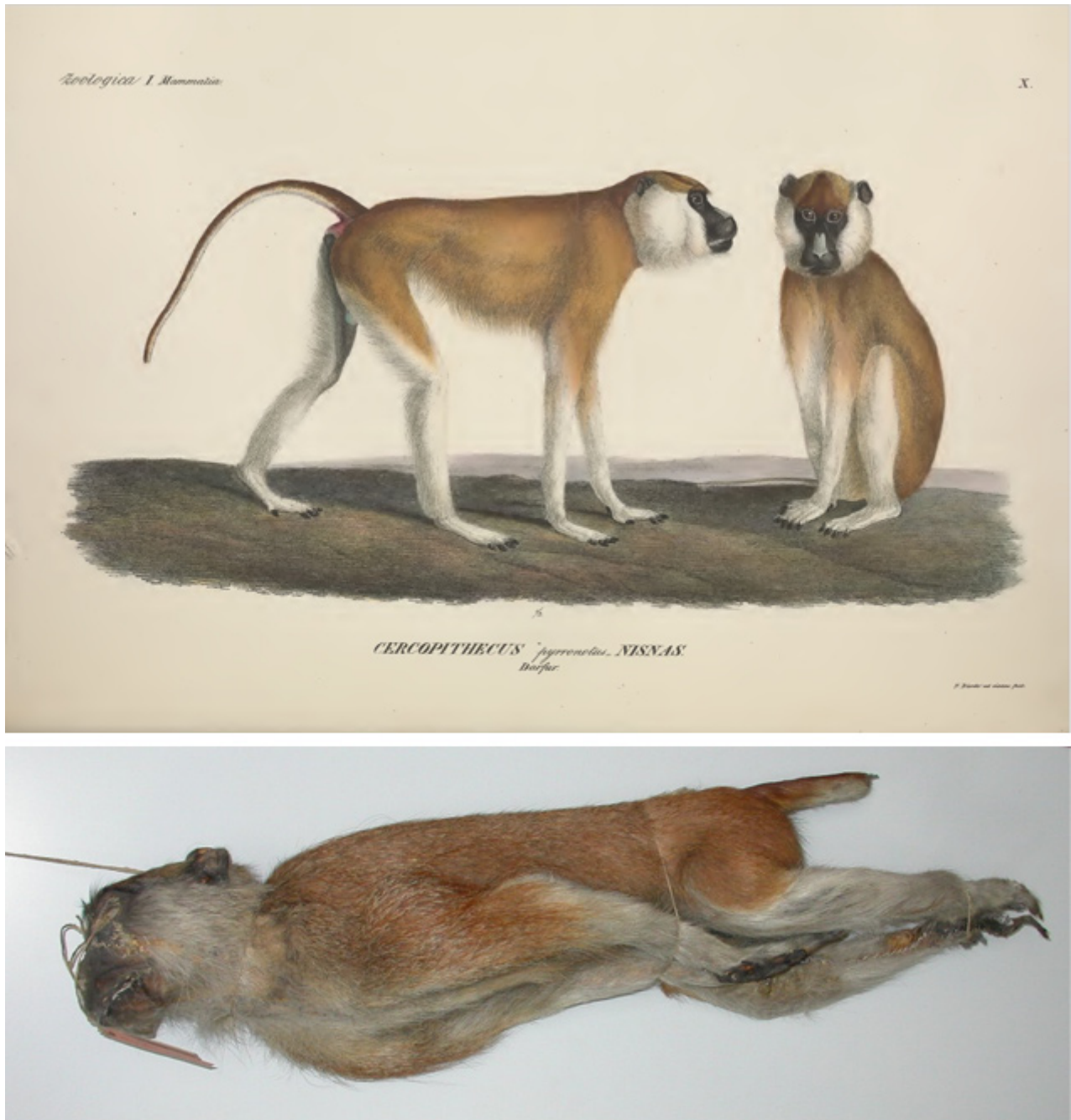


FIGURE 5. Original illustration of *Cercopithecus pyrrhonotus* ex *Symbolae Physicae seu Icones et Descriptiones Mammalium qae ex itinere Africam Borealem et Asiam Occidentalem. Decas Prima. Officina Academica Berlin 1828 (Tafel X)* [above] and holotype skin ZMB 91 [below].

***Erythrocebus langheldi* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 276

Current valid name: *Erythrocebus patas* (Schreber, 1775)

Paratype: ZMB 13212, male, juvenile, skull, skin; Garua [Garoua], upper Benue, Cameroon; collected by Langheld, ex Zoologischer Garten Berlin 2 January 1906.

Comments: The description is based on two specimens that lived in the Zoological Garden Berlin, of which Matschie determined the young female as the [holo]type. The whereabouts of the female are unknown; no marked or matching specimen could be found in the collection.

***Erythrocebus baumstarki* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 273

Current valid name: *Erythrocebus patas baumstarki* Matschie, 1905

Holotype: ZMB 35730 (= A 5575), female, subadult, skull, skin; "Ikoma östlich des Victoria Nyansa am Rande der Massai-Steppe" [presumably Fort Ikoma, near border of Serengeti], Tanzania; collected by Baumstark, 09 July 1903.

***Erythrocebus kerstingi* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 274

Current valid name: *Erythrocebus patas* (Schreber, 1775)

Holotype: ZMB 72134, male, adult, skull, skin; Sokodo [Sokode], Togo; collected by Kersting, 1900.

Paratypes: ZMB 105858, male, skull; ZMB 105859, male, skull [without mandibulae]; both specimens from Sokodo [Sokode], Togo, collected by Kersting; uncatalogued specimen, skin, collected by Graf von Zech near Fasau.

***Cercolophocebus coelognathus* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 342

Valid name: *Lophocebus aterrimus* (Oudemans, 1890)

Holotype: ZMB 32801/32802 (= 112), female, juvenile, skull, skin; Kindu at the Lualaba River, Democratic Republic of the Congo; collected by Grauer, 18 February 1909.

***Cercocebus albigena ugandae* Matschie, 1913**

Revue Zoologique Africaine 2, p. 210

Current valid name: *Lophocebus ugandae* (Matschie, 1913)

[Groves (2007), Groves and Butynski (2013), and Mittermeier *et al.* (2013) recognized the Ugandan Crested Mangabey as a full species *Lophocebus ugandae* (Matschie, 1913). According to Olupot (2020), the rank is only a subspecies of *Lophocebus albigena*].

Holotype: A 5.08, male, skull not located, skin; according to old labels from Bugoma forest east of Lake Albert, collected by Grauer in 1907, handed to Schlüter in Entebbe, Lake Victoria, Uganda, 22 June 1907; donated by Schlüter 1907.

Comments: In the General catalog, the specimen ZMB 32805 (= A5659) is marked as the type of *Cercocebus albigena ugandae* Matschie, 1913. However, that specimen was collected by O. Neumann in Chagwe and brought

to the Museum Berlin by Herzog Adolf Friedrich of Mecklenburg. Matschie's description is based on an old male collected by Grauer in Entebbe. Therefore ZMB 32805 cannot be the holotype.

***Cercocebus (Leptocebus) albigena ituricus* Matschie, 1913**

Revue Zoologique Africaine 2, p. 208

Current valid name: *Lophocebus albigena johnstoni* (Lydekker, 1900)

Holotype: ZMB 32814/32815 (= A 11a 08.1031/1032), male, adult, skull, skin; "Ituri-Urwald zwischen Beni und Irumu" [primeval forest in the Ituri Province between Beni and Irumu], Democratic Republic of the Congo; collected by Dr. Schubotz, donated by Herzog Adolf Friedrich zu Mecklenburg in 1907.

***Cercocebus albigena zenkeri* Schwarz, 1910**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 456

Current valid name: *Lophocebus albigena albigena* (Gray, 1850)

Holotype: ZMB 11699/11700, male, adult, skull, skin; Bipindi on the Lokoundje River, Cameroon; collected by Zenker, between 1897 and 1912.

***Macacus (Magus) arctoides melli* Matschie, 1912**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 308

Current valid name: *Macaca arctoides* (Geoffroy, 1831)

Holotype: ZMB 15924/15925, male, subadult, skull, skin; „Grenzgebiet zwischen den Provinzen Kuang-tung“ [Guangdong Province], Hu-nan [Hunan Province] and Kuang-si [Guangxi Province], "in den Bergländern" [mountains, about 2.000m altitude] near Lo-tschang-ho [?] approximately 113° E / 25° N, South China; collected by Mell, undated.

***Macacus (Magus) arctoides esau* Matschie, 1912**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 309

Current valid name: *Macaca thibetana* (Milne-Edwards, 1870)

Holotype: ZMB 16178/16179, male, adult, skull, skin, parts of skeleton; "Grenzgebiet zwischen den Provinzen Kuang-tung" [Guangdong Province], Hu-nan [Hunan Province] and Kuang-si [Guangxi Province], "in den Bergländern" [mountains, about 2.000m altitude] near Lo-tschang-ho [?] approximately 113° E / 25° N, South China; collected by Mell, undated.

***Papio (Inuus brunnescens) [sic]* Matschie, 1901**

Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft XXV, II, p. 265

Valid name: *Macaca ochreata brunnescens* (Matschie, 1901)

Syntype: ZMB 26252 (= ZMB 4572), male, juvenile, skull, skin; Celebes [Sulawesi]; collected by Gerrard, undated.

***Papio (Inuus) tonsus* Matschie, 1901**

Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft XXV, II, p. 261

Current valid name: *Macaca tonkeana* (Meyer, 1899)

Holotype: ZMB 2927 (= 26254), female, adult, skull, skin; Celebes [Sulawesi], collector unknown.

***Papio (Inuus) hypomelas* Matschie, 1901**

Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft XXV, II, p. 262

Current valid name: *Macaca tonkeana* (Meyer, 1899) [fide Groves, 2001, p. 225]

Syntype: ZMB 11872, male, skull, skin; location and collector unknown; 1899 received from Zoologischer Garten Berlin.

Comment: According to Matschie, an additional specimen should be in the collections of Senckenbergmuseum Frankfurt; however, such a specimen could not be found [Dr. Dieter Kock, formerly Curator in the Senckenberg Museum Frankfurt, personal comm.].

***Papio (Inuus) hecki* Matschie, 1901**

Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft XXV, II, p. 257

Current valid name: *Macaca hecki* (Matschie, 1901)

Holotype: ZMB 12679/12680 (= ZMB 12122), skull, skin; Buol, [Sulawesi]; collector unknown, received from Zoologischer Garten Berlin.

***Mandrillus hagenbecki* Matschie & Zukowsky, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 488

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 22351/22352, male, subadult, skull, skin; "Küstengebiet bei Lagos" [coast of Lagos], Nigeria; acquired by Champigny on 14 October 1913; received from Tierpark Hagenbeck.

Paratype: ZMB 23270/23271, female, subadult, skull, skin; "Küstengebiet bei Lagos" [coast of Lagos], Nigeria; acquired by Champigny on 14 October 1913; received from Tierpark Hagenbeck.

***Mandrillus insularis*, Zukowsky 1925**

Archiv für Naturgeschichte, p. 132

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 35118, male, skull, skin; "Fernando Po" [Bioko], Equatorial Guinea; received from Carl Hagenbecks Tierpark, donated by Frau Konsul Sonnenberg.

***Papio planirostris* Elliot, 1909**

Annals and Magazine of Natural History, 8(4), p. 305

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 27749 (skin) / 27750 (skull), male, adult; “Mfang-Land” [territory of the Fang people, South Cameroon]; collected by Eichelberger, donated by Rolle 09 September 1906.

***Mandrillus tessimanni* Matschie & Zukowsky, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 470

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 26765, skin, skull, male, adult, Okak-Land on the middle Benito [Mbini River] not far from Alen [Monte Alen], Equatorial Guinea; collected by Tessimann, undated.

***Mandrillus escherichi* Matschie & Zukowski, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 478

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 27776, male, adult, skull without lower jaw; “Ekododo am Temboni” [Ekododo on the Utamboni River, Estuaire Province, Gabon]; collected by Escherich, undated.

***Mandrillus zenkeri* Matschie & Zukowski, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 479

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

Holotype: ZMB 27396 skin [missing] / ZMB 27397 skull, male, subadult; Bipindi on the Lokoundje River, Cameroon; collected by Zenker between 1897 and 1912.

Paratypes: ZMB 27800/27801, male, subadult, skin, skeleton; ZMB 27802/27803, male, subadult, skull, skin; ZMB 27844/27846, male, juvenile, skull, skin; ZMB 27847, female, juvenile, skin [missing]; ZMB 18523, male, adult, skull; ZMB 27832/27833, male, adult, skin, skull damaged; Bipindi on the Lokoundje-River, Cameroon; collected by Zenker, between 1897 and 1912.

***Papio ochraceus* Peters, 1852**

Reise nach Mossambique, p. 2

Current valid name: *Papio cynocephalus* (Linnaeus, 1766)

Syntype: ZMB 8260 (= An 15837), male, juvenile, skull, and skeleton; Querimba; collected by Peters, between 1843 and 1847.

Comment: Peters did not specify a holotype; however, the species description was based mainly on a younger male. Due to the lack of further type specimens, ZMB 8260 would be suitable as a lectotype.

***Cynocephalus langheldi* Matschie, 1892**

Sitzungsberichte der Naturforschenden Freunde zu Berlin, p. 233

Current valid name: *Papio cynocephalus* (Linnaeus, 1766)

Syntypes: ZMB 6689, male, skull; ZMB 6690, female, skull; Usukuma [Formerly a large area south of Lake Victoria during German colonization], Tanzania; collected by Langheld; ZMB 6495 skull; Ukami [Iringa region], Tanzania; collected by Lieder, undated.

Comment: Matschie mentioned an additional specimen that Stuhlmann shot in the Unguru (Ungun) mountains in September 1888. This specimen could not be found in the collection.

***Papio yokoensis* Matschie, 1900**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 89

Current valid name: *Papio anubis* (Lesson, 1827)

Syntypes: uncatalogued specimen, stuffed skin; uncatalogued male, skull; one further skull and two further skins could not be found in the collections; Yoko am Sanago [Yoko is far north from the Sanaga River], Cameroon; collected by Kamptz, between 1897 and 1900.

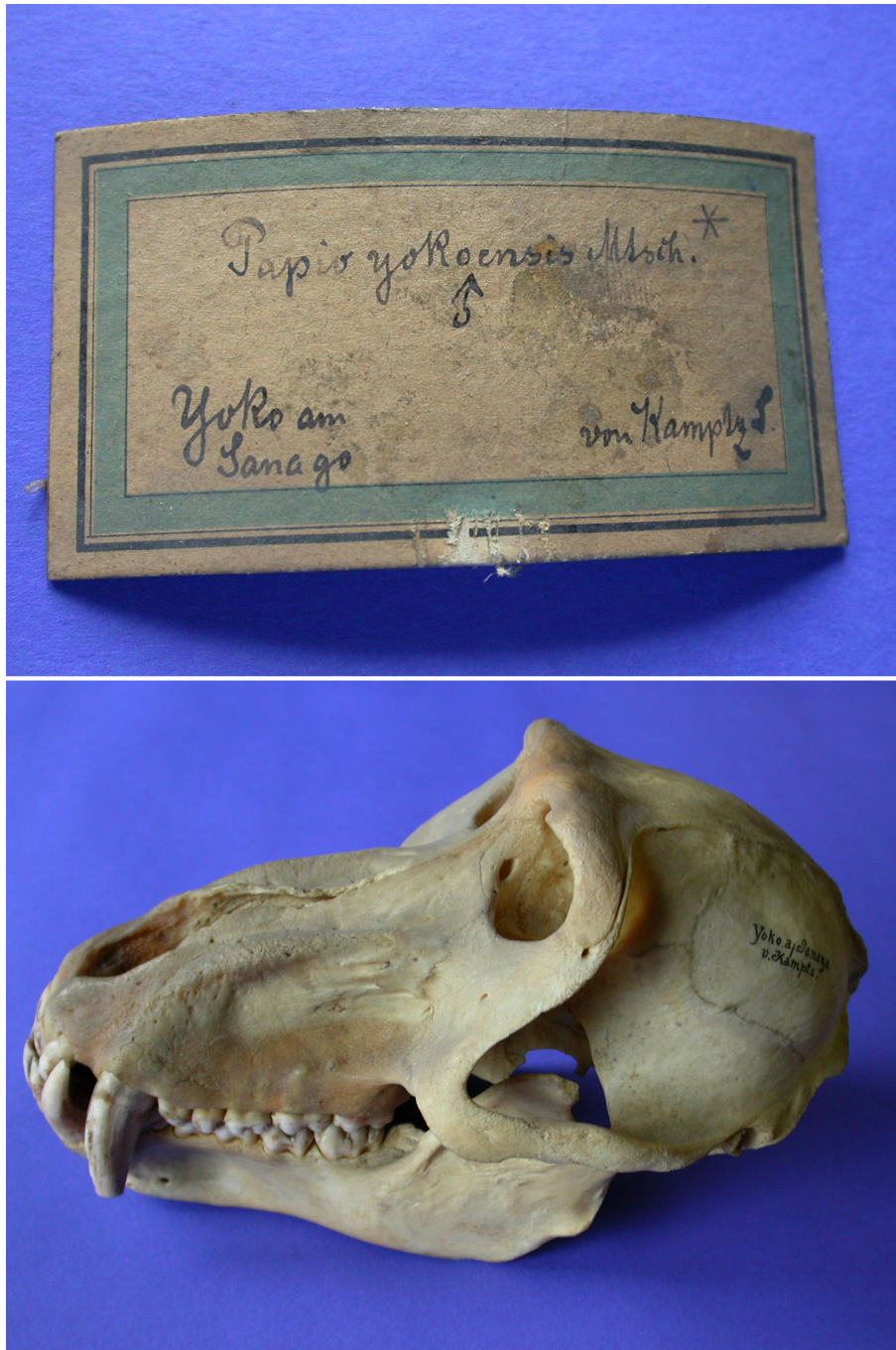


FIGURE 6. Uncatalogued skull, syntype of *Papio yokoensis* Matschie, 1900.

Comment: The valid species is *Papio anubis* and not *Papio hamadryas* (as mentioned in Bisong *et al.* 2023). *Papio hamadryas* is limited to Saudi Arabia, Yemen, Sudan Eritrea, Djibouti and Ethiopia, so does not occur in Cameroon.

***Papio cynocephalus jubilaeus* Schwarz, 1928**

Zeitschrift für Säugetierkunde 3, p. 211

Current valid name: *Papio cynocephalus* (Linnaeus, 1766)

Holotype: ZMB 36551 (= A 68.10), male, adult, skull, skin; Missale, 14°0' S / 33°10' E, "Nord-Ost-Rhodesien" [Zambia]; collected by Wiese, undated.

***Papio neumanni* Matschie, 1897**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 161

Current valid name: *Papio anubis* (Lesson, 1827)

Syntypes: ZMB 11550/11551, male, juvenile, skull, skin; "Dönyo Ngai" [Ol Doinyo Lengai vulcano, Tanzania]; collected by O. Neumann, 1893/1894; ZMB 11539, male, adult, skull; "Kilonito, Natronsumpf" [Kilonito near Natron Lake, Kenya]; collected by O. Neumann, 1893/1894.

***Colobus palliatus* Peters, 1868**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 637

Current valid name: *Colobus angolensis palliatus* Peters, 1868

Syntypes: ZMB 3505, male, juvenile, skull, skin; ZMB 5938, female, skull, skin; both specimens from Pangani, Tanzania; collected by Fischer, undated.

***Colobus maniema* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 336

Current valid name: *Colobus angolensis* Sclater, 1860

Holotype: ZMB 31876/31877 (= A 48.09,104), male, adult, skull, skin; between Kibombo and Pienimulamba [Pienimusamba] at the Lualaba River, Democratic Republic of the Congo; collected by Grauer, 1907.

***Colobus benamakimae* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 337

Current valid name: *Colobus angolensis* Sclater, 1860

Holotype: ZMB 31882 (= A 115,6,7), male, adult, skin [without skull]; Bena-Makima at the Kasai-River, Democratic Republic of the Congo; collected by Frobenius, 1907.

Paratype: ZMB 31883 (= skin), female, adult, skull (= ZMB 86986); Bena-Makima at the Kasai-River, Democratic Republic of the Congo; collected by Frobenius, 1907.

***Colobus adolfi-friederici* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 337

Current valid name: *Colobus angolensis ruwenzorii* Thomas, 1901

Holotype: ZMB 31884/31885 (= A 48.09,6), skull, skin; Rugege-Wald, 2.100m Höhe, östlich Kiwu-See, [presumably Nyungwe National Park, east of Lake Kivu], Rwanda; collected by Grauer, December 1907.

Paratypes: ZMB 87003, male, skull, skin; ZMB 87000, female, skull, skin; ZMB 86996, female, skull, skin; ZMB 86976, skull, skin; ZMB 86998, female, skull, skin; ZMB 87008, female, skull, skin; ZMB 86975, female, skull, skin; all specimens from Rugege-Wald, 2100m Höhe, östlich Kiwu-See [presumably Nyungwe National Park, east of Lake Kivu], Rwanda; collected by Grauer, December 1907.

Comment: Taxonomic status according to Butynski & De Jong (2022).

***Colobus langheldi* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 337

Current valid name: *Colobus angolensis sharpei* Thomas, 1902

Holotype: ZMB 86827 / 31919 (= A 4086), skin without skull; Manyema-Land [area of the Manyema people], Democratic Republic of the Congo; acquired by Langheld in Ujdjidi [Kigoma Ujiji, Tanzania], between 1891 and 1900.

Comment: Taxonomic status according to De Jong & Butynski (2023).

***Colobus guereza* Rüppell, 1835**

Neue Wirbelthiere zu der Fauna von Abyssinien gehörig, p. 1

Current valid name: *Colobus guereza* Rüppell, 1835

Paralectotype: ZMB 43, male, skin; Abessinien [Ethiopia]; collected and donated by Rüppell.

Comment: Lectotype at the SMF [Senckenberg Museum Frankfurt], SMF 1586, male adult, skin and skeleton, designated by Mertens (1925). Further paralectotype in Naturalis Biodiversity Center Leiden (RMNH. MAM.39127).

***Colobus (Guereza) escherichi* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 342

Current valid name: *Colobus guereza occidentalis* (de Rochebrune, 1887)

Holotype: ZMB 17964 / 17965 (= A. 108, 14, 183), skull, skin; Gombe [Ngombe] at Sanga [Sangha River], Republic of Congo; collected by Escherich on 29 December 1913.

***Colobus caudatus thikae* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 56

Current valid name: *Colobus guereza kikuyuensis* Lönnberg, 1912

Holotype: ZMB A 5066, male, skull, skin; West-Kenya; collected by Kolb, 1899.

Paratype: ZMB A 5067, female, skull, skin; West-Kenya, collected by Kolb, 1899.

***Colobus matschiei* Neumann, 1899**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 15

Current valid name: *Colobus guereza matschiei* Neumann, 1899

Holotype: ZMB 86828, skull; Kwa Kitoto [Kisumu], Victoria Nyansa, Kenya; collected by Matschie, April 1894.

Paratypes: ZMB 86859 skin; ZMB 86860 / 86861, skin, skull; ZMB 86866, skin; ZMB 86867, skin; ZMB 86892, skin; ZMB 86893 female, skin, skull; uncatalogued skull; ZMB 30114, juvenile, skull; 2 uncatalogued juvenile skulls; all specimens from Kwa Kitoto [Kisumu], Victoria Nyansa, Kenya; collected by Matschie, April 1894.

***Colobus gallarum* Neumann, 1902**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 49

Current valid name: *Colobus guereza gallarum* Neumann, 1902

Lectotype: ZMB 85807, male, adult, skull, skin; Gara Muleta, Ethiopia; collected by O. Neumann on 22 March 1900, designated by Schwarz (1929, p. 593).

Paralectotypes: ZMB 86814, skull, skin; ZMB 86856, skull, skin; ZMB 86884, female, juvenile, skull, skin; ZMB 86881, skin; ZMB 86864, skull, skin; ZMB 86854, skull, skin; ZMB 86862, skull, skin; ZMB 86857, skull; ZMB 86886, skull, skin; ZMB 86883, skull, skin; ZMB 86818, skull, skin; further 6 uncatalogued skulls; 1 further Paralectotype at the BMNH London; all specimens from the headwaters of the Webbi Shebeli [Wabi Shebele, Shebelle River], Gara Muleta near Harar, Djaffa-Berge im Arussi-Land [Djaffa-Mountains in the country of Arusi People], ferner Wälder bei Burka auf der Straße von Harar nach Adis Abeba [forests near Burka along the road from Harar to Addis Abeba] Ethiopia; collected by O. Neumann March 1900.

***Stachycolobus limbarenicus* Matschie, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 156

Current valid name: *Colobus satanas anthracinus* (LeConte, 1857)

Holotype: ZMB 24444 (=A 5032), female, adult, skull, skin; "Limbareni am Ogowé" [Lambarene at the Ogooue River], Gabon; collected by Buchholz in June 1875.

***Stachycolobus zenkeri* Matschie, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 157

Current valid name: *Colobus satanas anthracinus* (LeConte, 1857)

Holotype: ZMB 24209 (skull) / ZMB 11472 (skin), male, adult; Bipindi on the Lokoundje-River, Cameroon; collected by Zenker, October 1897.

Paratypes: ZMB 24217/24218, male, skin, skull; ZMB 24645, skin; ZMB 24219/24220, male, juvenile, skin, skull; ZMB 24441, male, skull; ZMB 24442, male, skull; ZMB 24440, male, juvenile, skull; ZMB 24221/24222, male, adult, skin, skull; all specimens from Bipindi at the Lokoundje River, Cameroon, collected by Zenker; ZMB 24443, Lokoundje River, Cameroon, collected by Langheld; still uncatalogued [placeholder no. 4323], female, skull, French Equatorial Africa, collector and date unknown; still uncatalogued [placeholder no. 4310], skull, locality, collector and date unknown.

***Stachycolobus munitus* Matschie, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 155

Current valid name: *Colobus satanas anthracinus* (LeConte, 1857)

Holotype: ZMB 24433/24434, male, adult, skull, skin; “Wurminsog” [could not be found], “Muni-Fluss, westlich Noya Fluss an der Grenze von Spanisch Guinea” [south of Muni River and west of Noya River], Gabon; collected by Escherich, 31 July 1913.

Paratypes: ZMB 24435/24436, male, adult, skull, skin; ZMB 24437/24438, female, adult, skull, skin; ZMB 24439, female, juvenile, skull; all specimens from “Wurminsog” [?], “Muni-Fluss, westlich Noya Fluss an der Grenze von Spanisch Guinea” [south of Muni River and west of Noya River], Gabon; collected by Escherich, 31 July 1913.

***Semnopithecus thomasi* Collett, 1892**

Proceedings of the Zoological Society of London 1892, p. 613

Current valid name: *Presbytis thomasi* (Collett, 1892)

Syntype: ZMB 85468; skin; Langkat Regency, North Sumatra; collected by Iversen, received from Christiana Museum, 1888.

Comment: One additional syntype is held at the collection of Natural History Museum London.

***Semnopithecus chrysogaster* Peters, 1879**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 829

Current valid name: *Presbytis potenziანი* (Bonaparte, 1856)

Holotype: ZMB 34, female, skull, skin; Tenassarim [Tanintharyi], Burma [Myanmar]; collected by Stempel, 1837.

***Colobus (Tropocolobus) umbrinus* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 343

Current valid name: *Piliocolobus oustaleti* (Trouessart, 1906)

Holotype: ZMB 17966/17967/17968 (= A. 108,14,178-180), male, skull, skin, skeleton; “Bungi am Sanga, zwischen Wesso und Ikelemba” [Bungi at Sangha River between Ouesso and Ikelemba], Republic of the Congo; collected by Escherich between 24–29 December 1913.

Paratypes: ZMB 17969/17970, female, skull, skin; ZMB 17971/17972, male, skull, skin; ZMB 17973, female, skin; all specimens from “Bungi am Sanga, zwischen Wesso und Ikelemba” [Bungi at Sangha River between Ouesso and Ikelemba], Republic of the Congo; collected by Escherich, 24–29 December 1913.

***Piliocolobus kabambarei* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 338

Current valid name: *Procolobus foai* (de Pousargues, 1899)

Holotype [by monotypy]: ZMB 32735/32736 (= A 48,09,92), female, adult, skull, skin [skin could not be found in the collection]; near Kabambare, Democratic Republic of the Congo; collected by Grauer, October 1908.

Comment: Matschie described this species using a single specimen (A 48,09,92) and does not mention any other specimen, making it the holotype by monotypy.

***Piliocolobus likualae* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 346

Current valid name: *Piliocolobus bouvieri* Rochebrune, 1887

Holotype: ZMB 17977/17978 (= A 108.14.186), female, adult, skull, skin; am Sanga gegenüber der Mündung des Likuala, Neukamerun [at the Sangha River near estuary of Likouala River, Republic of the Congo]; collected by Escherich, 1913.

Paratypes: ZMB 17979/17980, female, juvenile, skull, skin; ZMB 17974-17976, female, juvenile, skull, skin, parts of the skeleton; both specimens from Sangha River near the estuary of Likouala River, Republic of the Congo; collected by Escherich, 1913.

***Piliocolobus preussi* Matschie, 1900**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 183

Current valid name: *Piliocolobus preussi* Matschie, 1900

Holotype [by monotypy]: ZMB 6588, male, skin; “Barombi, Elefanten-See”, [Barombi in South-West Cameroon]; collected by Dr. Preuss, undated.

***Piliocolobus gordonorum* Matschie, 1900**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 186

Current valid name: *Piliocolobus gordonorum* Matschie, 1900

Holotype: ZMB 86983, incomplete skin; “Utshungwe-Gebirge” [Udzungwa Mountains], “Uhehe Gebiet” [formerly the territory of the Hehe people], southeast of Iringa, Tanzania; collected by von Gordon, undated.

Comment: Matschie mentioned that the Gordon brothers had collected two specimens. The skulls were lost during transport, and the two skins were damaged. One skin ended up in the Berlin Museum; the whereabouts of the second skin are unknown.

***Piliocolobus lulindicus* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 338

Current valid name: *Piliocolobus lulindicus* Matschie, 1914

Holotype: ZMB 32739 (= A 48,09,98), female, adult, skull, skin; “am Lulindi in der Nähe seiner Einmündung in den Lualaba unweit Kassongo” [at the Ulindi River on the estuary to Lualaba River near Kasongo; Democratic Republic of the Congo]; collected by Grauer, October 1908.

Comment: Matschie (1914) described this species using a single specimen, a female numbered A 48.09.98 (later = ZMB 32739). Another male ZMB 33199/33200 (skull, skin) has identical data of location, collector, and date, but cannot be classified as a paratype because it is not mentioned anywhere in the description.

Ptilocolobus ellioti melanochir Matschie, 1914

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, 7: 339

Current valid name: *Ptilocolobus foai* (de Pousargues, 1899)

Holotype: ZMB 32761/32762 (= A 11a,08,1033), male, subadult, skull, skin [could not be found in the collections]; “zwischen Beni und Irumu, Ituri” [between Beni and Irumu in the Ituri province], Democratic Republic of the Congo; collected by Herzog Adolf Friedrich zu Mecklenburg, March 1908.

Comment: Matschie (1914) described this subspecies using a single specimen [A 11a,08,1033 = ZMB 32761/32762]. Further twelve specimens ZMB 32763–32783, skulls and skins, were also collected by Herzog Adolf Friedrich zu Mecklenburg between Beni and Irumu in March 1908. However, Matschie (1914) did not mention them in the description, so they cannot be classified as paratypes.

Colobus graueri Dollmann, 1909

Annals and Magazine of Natural History 8 (4), p. 474

Current valid name: *Ptilocolobus foai* (de Pousargues, 1899)

Paratypes: ZMB 32826/32827, male, skull, skin; ZMB 87503, skull; ZMB 87504, skull; all specimens “östlich vom Albertsee“ [east of Lake Albert, Uganda]; collected by Schlüter, 1907 or 1908.



FIGURE 7. Location of the formerly village Munjuni [red arrow] at the Tana-River; [Map section from “Petermann's Mitteilungen aus Justus Perthes' Geographischer Anstalt” Vol. 27, 1881].

Comment: According to Schwarz (1928, p. 11), there should be nine additional paratypes in the collections of MfN Berlin [not found], and further specimens in the Congo-Museum [Royal Museum for Central Africa—Tervuren—Belgium]. The Holotype is in the collections of Natural History Museum, London, no. 1909.12.2.1.

***Colobus rufomitratu* Peters, 1879**

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, p. 829

Current valid name: *Ptilocolobus rufomitratu* (Peters, 1879)

Holotype: ZMB 5545, male, skull; “Ortschaft Muniuni am Tana” [north of Mitole, probably near Mnazini at Tana River], Kenya; collected by G.A. Fischer, 16 September 1878.

Comment: The present name of the mentioned village “Muniuni” at Tana-River could not be found.

HOMINIDAE Gray, 1825

***Gorilla diehli* Matschie, 1904**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 52

Valid name: *Gorilla gorilla diehli* Matschie, 1904

Holotype: ZMB 12789, male, adult, skull; Dakbe [Takpe], Cross-River, Cameroon; collected by Diehl, undated.

Paratypes: ZMB 12790, male, skull, Obonyi, Cameroon; ZMB 12791, male, skull, and parts of skeleton, Obonyi, Cameroon; ZMB 12792, skull, Dakbe [Takpe], Cameroon; ZMB 12793, female, skull, Basho, Cameroon; ZMB 12794, female, skull, Basho, Cameroon; ZMB 12795 (= ZMB 85825), female, skull, Basho, Cameroon; ZMB 12796 (= ZMB 85826), female, skull, Obonyi, Cameroon; all specimens collected by Diehl, undated.



FIGURE 8. Holotype of *Gorilla diehli* Matschie, 1904 (ZMB 12789).

***Gorilla beringeri* [sic] Matschie, 1903**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 257

Current valid name: *Gorilla beringei* Matschie, 1903

Holotype: ZMB 13254, male, adult, skull, parts of skeleton; “zwischen Kivu-See und Albert-Edward-See, Vulkan Kirungaya Sabinyo, 3.150m” [Mount Sabyinyo (Virunga Mountains), in 3.150m altitude, between Kivu Lake and Lake Edward], Rwanda; collected by von Beringe, 1902.

Comment: The description is based on a skull and an incomplete skeleton. The rest was lost during transport by a hyena (Matschie, 1903, p. 253).



FIGURE 9. Holotype of *Gorilla beringei* Matschie, 1903 (ZMB 13254).

***Gorilla hansmeyeri* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 325

Valid name: *Gorilla gorilla gorilla* (Savage & Wyman, 1847)

Holotype: ZMB 17961, male, adult, mounted skin, skull (ZMB 17960); “auf der Straße von Assobam zwischen Mensima und Bimba südlich vom Dume-Flusse westlich von Mokbe erlegt” [present name for Assobam and Mokbe could not be found, type locality is assumed south of Bimba at the Doume River], Cameroon; collected by Peter Scheunemann, 27 January 1907, donated by Prof. Hans Meyer (Leipzig).

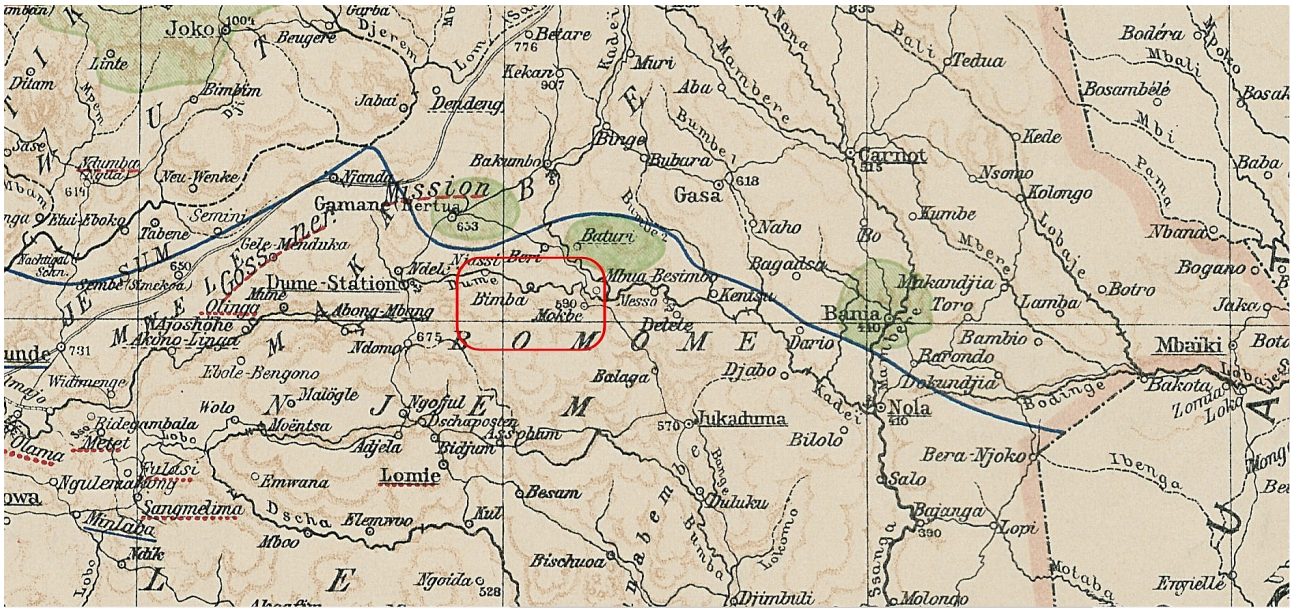


FIGURE 10. Type Locality of *Gorilla hansmeyereri* [Map section from Missionskarte Kamerun 1914].

***Gorilla zenkeri* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 325

Current valid name: *Gorilla gorilla gorilla* (Savage & Wyman, 1847)

Holotype: ZMB 30260 (= A. 15,09,1), male, subadult, mounted skin / ZMB 30261, skull, [skeleton could not be found in the collections]; Mbiawe at the Lokoundje-River, Cameroon; collected by Zenker, January 1908.

***Gorilla graueri* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 324

Current valid name: *Gorilla beringei graueri* Matschie, 1914

Holotype: ZMB A 48.09/1, male, adult, skull / skeleton ZMB 31619 / ZMB 31618 skin; “80km NW von Boko am westlichen Ufer des Tanganjika” [80 km northwest from Mboko at Tanganyika Lake], according to Liburnau (1917) in the mountain forests of the Wabembe country [= Babembe or Bembe people, Sud Kivu Province], Democratic Republic of the Congo; collected by Grauer, Summer 1908.

***Gorilla jacobi* Matschie, 1905**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 283

Valid name: *Gorilla gorilla gorilla* (Savage & Wyman, 1847)

Holotype: ZMB 83558 (= A 28.05.137), male, adult, skull without mandible, “Lobo-Mündung Station, nicht weit vom Dscha” [formerly station Lobo-River Estuary near Dja River], Cameroon; collected by Jacob, 10 July 1905.

Comment: Matschie (1905, p.282) mentioned the number 28051 for the holotype specimen. However, that is clearly a typo, the number belongs to “A 28.05.1” [from A-Catalog]. ZMB 28051 [from General catalog] belongs to an *Apodemus agrarius* specimen]. Specimen ZMB 83558 (= A 28.05.137) was identified as a holotype by Collin Groves (personal communication during a visit to the Museum für Naturkunde Berlin) based on several measurements, book entries, and collecting data.

***Simia (Anthropopithecus) kooloo-kamba yambuyae* Matschie, 1912**

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 46

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype [by monotypy]: ZMB 31866 (= 11a.08.1122), male, adult, skin; Yambuya at the Aruwimi River, Democratic Republic of the Congo; collected by Herzog Adolf Friedrich zu Mecklenburg, 1807 or 1808.

Comment: The description is based on a single male specimen, “Fell mit zwei Stücken knöchernen Augenrandes” [a fur with two pieces of bony eye rim].

***Anthropopithecus castanomale* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 334

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 13748/13749, male, juvenil, skull, skin, skeleton; “vom Nordostufer des Tanganjika, an der Grenze von Urundi, nördl. Udjidji” [northeast from Ujiji at Tanganyika Lake near the border to Burundi], Tanzania; collected by Deininger and donated by Stuhlmann, 1899.

***Simia (Anthropopithecus) adolfi-friederici* Matschie, 1912**

Annales de la Société royale Zoologique et Malacologique de Belgique 47, p. 46

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31633/31634 (= A. 11a, 08, 205), male, adult, skull, skin, skeleton; Bugoie-Wald im Nordosten des Kiwu-Sees [Bugoie forest, northeast of Lake Kivu, Democratic Republic of the Congo]; collected by Herzog Adolf Friedrich zu Mecklenburg, September 1908.

Paratypes: ZMB 31635/31636, female, skin, skull, skeleton; “Bugoie-Wald NO Kiwu-See” [Bugoie forest, northeast of Lake Kivu, Democratic Republic of the Congo]; collected by Herzog Adolf Friedrich zu Mecklenburg, September 1908; ZMB 31644, male, “Wabembe Fluss 80 km nordwestlich von Boko am Tanganjika in der Nähe des Mutambala” [80 km northwest from Mboko at Tanganyika Lake, near Mutambala, Democratic Republic of the Congo]; collected by Grauer, 1908

uncatalogued, male, skin, skeleton, “Tschingogo, östlich von Bugoie” [Tschingogo-forest between Kivu Lake and Lake Ruhondo; Rwanda]; donated by von Stegemann und Stein, 1908. uncatalogued, female, adult, skin, skeleton; “Quelle des Akanyaru östlich vom Russissi-Fluss” [origin of the Akanyaru River east of the Ruzizi River], border area Rwanda/Burundi; collected by Leutnant Pfeiffer, undated. uncatalogued, male, juvenile, “nördlich von Udjidji am Tanganjika” [north of Ujiji at Tanganyika Lake, Tanzania]; collected by Deininger, received from Zoologischer Garten Berlin (1907 or 1908).

***Anthropopithecus pfeifferi* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 333

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31645/31646 (= A 12.04.2), female, adult, skull, skin, skeleton; “östlich vom Russissi-Fluss an der Grenze von Urundi in der Nähe der Akanjaru-Quelle” [origin of the Akanyaru River east of the Ruzizi River], border area Rwanda/Burundi; collected by Pfeiffer, 27 April 1903.

***Anthropopithecus purschei* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 332

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31639/31640 (= A 23.10.67), male, adult, skin, skeleton, skull damaged; “Tschingogo-Urwald, zwischen Kiwu- und Luhondo-See” [Tshingogo-forest between Kivu Lake and Lake Ruhondo; Rwanda]; collected by Pursche and donated by von Stegemann und Stein, 25 March 1908.

***Anthropopithecus graueri* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 333

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31641/31642 (= A 48.09.1), female, adult, skull, skin, skeleton; “80km NW Boko am Tanganjika” [80 km northwest from Mboko at Tanganyika Lake, Democratic Republic of the Congo]; collected by Grauer, August 1908.

***Anthropopithecus schubotzi* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 335

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31647 (= A 11a,08,26), male, adult, skull; “nordwestlich der Südspitze des Albert-See zwischen Kilo und Irumu, Belgisch Kongo” [west of Albert Lake between Kilo and Irumu, Democratic Republic of the Congo]; collected by Herzog Adolf Friedrich zu Mecklenburg, 1908.

***Anthropopithecus calvescens* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 334

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 31648/31649 (= A 48.09.93), male, adult, skull, skin; “auf der Straße von Baraka am Westufer des Tanganjika nach Kassongo am Lualaba zwischen Niembo und Kambambare” [on the road from Baraka on the west bank of the Tanganyika Lake to Kasongo on the Lualaba River between Niembo and Kabambare], Democratic Republic of the Congo; collected by Grauer, October 1908.

***Anthropopithecus ochroleucus* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 329

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Holotype: ZMB 83594 (= A 15.08), male, adult, skin, skull, and skeleton; north of Sangmelima on the upper Lobo River, Cameroon; collected by Reuter, February 1908.

***Anthropopithecus oertzeni* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 327

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Holotype: ZMB 83867 (skin) / ZMB 83716 (= A 60.05,1, skeleton), male, adult; “Bascho Nordkamerun” [Basho, N Cameroon]; collected by von Oertzen, 1905.

Paratypes: ZMB 83607, skin; ZMB 83649, skin; ZMB 83817, skin; ZMB 83642, skin; ZMB 83647, skin [missing], Daten; Kentu at Donga [Donga river], Nigeria/Cameroon, collected by Adametz 1907–1909.

Comment: According to Matschie (1914, p.328), the skull of the holotype was Hauptmann von Oertzen's private property. Its current whereabouts are unknown.

***Anthropopithecus reuteri* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 328

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Holotype: ZMB 83869/83700 (= A 39.09, 1), male, adult, skull, skin, skeleton; “Mündung Dume-Fluss in den Kadei” [estuary of Doume River into the Kadei River], Cameroon; collected by Reuter, autumn 1908.

***Anthropopithecus papio* Matschie, 1919**

Zeitschrift für Ethnologie 1, pp. 79–80

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Syntypes: ZMB 83865 (= A 48.03), male, skull, skin; Barombi [Lake Barombi] Mountains, near Kumba, Cameroon; collected by von Puttkammer, February 1903; ZMB 83657, male, skull (damaged); Bamenda, Cameroon; collected by Glauning 1906.

***Anthropopithecus schneideri* Matschie, 1919**

Zeitschrift für Ethnologie 1: 73–75

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Holotype: ZMB 27049/27050 (Nr. 6), male, skull, skeleton; “aus dem Hinterlande südlich der Eliva N’komi” [backland of the Lagune Nkomi], Gabon; acquired in Fernand Vaz by Schneider, received from Museum Basel.

***Anthropopithecus pusillus* Matschie, 1919**

Zeitschrift für Ethnologie 1, p. 76

Current valid name: *Pan troglodytes troglodytes* (Blumenbach, 1775)

Holotype: ZMB 27047 (skin) und 27048 (skull), female, skull without mandibulae, skeleton; “aus dem Hinterlande südlich der Eliva N’komi” [backland of the Lagune Nkomi], Gabon; acquired in Fernand Vaz by Schneider, received from Museum Basel.

Comment: Matschie (1919) saw another male skull of the same species, collected by Buchholz on the lower Ogooue River. Buchholz gave this skull to the Greifswald Museum.

***Troglodytes niger* var. *marungensis* Noack, 1887**

Zoologische Jahrbücher für Systematik, Jena, 2, p. 291

Current valid name: *Pan troglodytes schweinfurthii* (Giglioli, 1872)

Holotype: ZMB 6984 (=A 4248), juvenile, skull; Marungu [Marungu highlands in the Tanganyika Province of the Democratic Republic of the Congo]; collected by Böhm, 1883

***Anthropopithecus ellioti* Matschie, 1914**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 327

Current valid name: *Pan troglodytes ellioti* (Matschie, 1914)

Holotype: ZMB 83868 (=A 60.05.2), male, adult, skin, skeleton (= ZMB 83709); Bascho [Basho], N Cameroon; collected by von Oertzen, 1905.

Comment: According to Matschie (1914, p.327), the skull was in private property of Hauptmann von Oertzen. The current whereabouts are unknown.

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Apendix I

Types that could not be found in the Mammal collection of MfN

Cercopithecus fantiensis Matschie, 1893

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 64

Current valid name: *Cercopithecus petaurista* (Schreber, 1774)

Holotype [according to Schwarz, 1928]: ZMB 2963, male, juvenile; skull, skeleton, skin, alcohol; Guinea [Equatorial Guinea]; collected by Gerrard, undated.

Erythrocebus zechi Matschie, 1905

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 274

Current valid name: unknown, no specimen is available

Syntypes: Three specimens from Kete Kradi, Togo [Kete Krachi, Volta Region, Ghana], collected by Graf von Zech, [ca. 1895–1898]; presumably received from Zoologischer Garten Berlin.

Comment: Matschie's description is based on three young specimens from Kete Kradi, Togo [Ghana], that lived in the zoological garden at the time. The whereabouts of those specimens are unknown; no marked or matching specimen could be found in the collection. However, Groves (2001) listed *Erythrocebus zechi* Matschie as a synonym for *Erythrocebus patas* (Schreber, 1774)—presumably based on the original description by Matschie.

Tropicolobus gudoviusi Matschie, 1914

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, p. 340

Current valid name: *Piliocolobus tephrosceles* (Elliot, 1907)

Holotype: ZMB 32784 (= A 18.10.1), male, adult, skin; “zwischen Ussuwi und Ihangiro” [between Ussuw country = Rusubi/Busubi and Muleba at Victoria Lake, Tanzania; collected by Gudowius, Winter 1908/1909.

Comment: A further specimen, ZMB 33630, male, juvenil, incomplete skin, from Russissi [= Ruzizi River, border between Rwanda and Democratic Republic of the Congo], has been signed in the General catalog with a type asterisk; however, Matschie (1914) did not mention this specimen in the description, so it cannot be classified as a paratype.

Cercopithecus (Rhinostictus) ascanius pelorhinus Matschie, 1912

Annales de la Société royale zoologique et malacologique de Belgique 47, p. 76

Current valid name: *Cercopithecus ascanius whitesidei* Thomas, 1909

Holotype: A 11.08.1307, female, adult, skin without skull; “in Yambuya erhalten” [Yambuya on the Aruwimi River], Democratic Republic of the Congo; collected by Herzog Adolf Friedrich zu Mecklenburg, 1908.

Appendix II

Specimens in the Mammal collection of MfN that were erroneously marked as types

Lemur nigerrimus Sclater, 1880

Proceedings of the Zoological Society of London 1880, p. 451

Current valid name: *Eulemur flavifrons* (Gray, 1867)

Referred specimen: ZMB 7935 (old number = A 5181), signed in A-Catalog with a type asterisk, male, skin, from Madagascar, received from Zoologischer Garten Berlin 11 February 1892 [entry as *Lemur fulvus flavifrons*]. The description of Sclater (1880) based on a male, who lived in the London Zoological Garden, collected by Badger in 1878 in Madagascar. The whereabouts of the original specimen is unknown [according to Paula Jenkins, personal communication, a specimen could not be found in any entry book of the BMNH London]. According to the entry book of the Zoological Garden Berlin, the specimen [ZMB 7935] was received as *Lemur nigerrimus* from Antwerp on 12 September 1889. At that time, large animal auctions were held in Antwerp, where many zoo directors came to purchase animals [personal communication Dr. Andreas Pauly]. After all, it seems unlikely that ZMB 7935 is the holotype specimen.

Cercopithecus ruandae Matschie

No valid description published or available

ZMB: 13595/13596, male, skull, skin; Russissi, Deutsch Ost-Afrika [Ruzizi River, border between Rwanda and Democratic Republic of the Congo]; collected by Wirbel, undated.

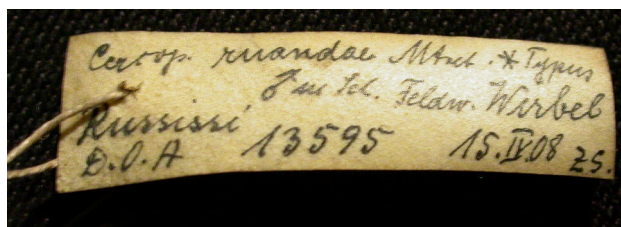


FIGURE 11. Old Label at skin of ZMB 13595 with a new [undescribed and unpublished] species name *Cercopithecus ruandae* Matschie and a type asterisk

Comment: The name *Cercopithecus ruandae* Matschie is only found on a label marked by Matschie himself with a type asterisk. However, no manuscript is available and a valid species description has never been published.

Cercopithecus büttikoferi Jentink, 1886

Notes from the Leyden Museum 8, p. 56

Current valid name: *Cercopithecus petaurista buettikoferi* Jentink, 1886

A 3949, female, in alcohol, skull ZMB 8343; Liberia, January 1886, collected by Büttikofer, donated by Schlüter 1886.

Comment: The description of *Cercopithecus büttikoferi* is based on eight specimens (Jentink 1886, p. 57), collected in Liberia by Büttikofer and Sala. Jentink (1892, p. 22/23) listed those eight syntypes, all collected in Liberia in St. Pauls-River, Sofore, Bavia, Bendo, and Buluma, between March and December 1880 and 1881. Specimen A 3949 / ZMB 8343 is marked in the A-Catalog as type specimen for *Cercopithecus büttikoferi*. It had been collected by Büttikofer in Liberia in 1880 or 1881, and came to the Museum Berlin in 1886 via Schlüter. Although the specimen A 3949 / ZMB 8343 is from the same series, it was not mentioned in Jentink's description and is therefore not a type.

***Cercopithecus Wernerii* [sic] Geoffroy, 1850**

Comptes rendus de l'Académie des Sciences Paris 31, p. 874

Current valid name: *Chlorocebus sabaesus* (Linnaeus, 1766)

ZMB 9097, male, skin; specimen from Togo; collected by Boeder and Döring, 1894; received from Zoologischer Garten Berlin.

Comment: Specimen ZMB 9097 is marked as a type specimen of *Cercopithecus wernerii* in the General catalog. Due to the date of discovery (year, collector), the marked specimen could not be a type.

***Cercopithecus ruber* Rüppell, 1835**

Neue Wirbelthiere zu der Fauna von Abyssinien gehörig, p. 8

Current valid name: *Erythrocebus patas* (Schreber, 1775)

ZMB 11939/11940, female, skull, skin; Togo; collected by Graf Zech, 1899.

Comment: Due to the date of discovery (year, collector), the specimen ZMB 11939/11940, marked as a type specimen of *Cercopithecus ruber* Rüppell, could not be a type.

***Cercocebus albigena mawambicus* Lorenz, 1917**

No valid description published

Annalen des K.K. Naturhistorischen Hofmuseums Wien 31, p. 233

Current valid name: *Lophocebus albigena* (Gray, 1850)

ZMB 32818/32819 (= A 75,08,1070/1071), skull, skin; ZMB 32820–32825 skulls, skins; Mawambi, Ituri-Gebiet [Ituri Province, Democratic Republic of the Congo].

Comment: Lorenz just mentioned: “*Matschie* [...] teilt überdies in einem Briefe mit, daß er die schwarzen Mangaben von Mawambi auch noch unter dem Namen *C. albigena mawambicus* abgetrennt habe.” [Matschie [...] also states in a letter that he has also separated the black mangabeys from Mawambi under the name *C. albigena mawambicus*]. However, a valid species description has not been published, therefore the name *mawambicus* is not available. The mention without comment in Allen (1939) and Wilson & Reeder (1993) does not reveal that it is a *nomen nudum*.

***Mandrillus schreberi* Matschie, 1917**

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin. 5, pp. 340–346

Current valid name: *Mandrillus sphinx* (Linnaeus, 1758)

ZMB 168 (= 24766), skull, skin

Comment: Matschie (1917) only introduced a new name for Schreber's *Simia maimon*, which had already been described but was, in Matschie's opinion, named unfavorably or invalidly. In Berlin, several of these newly named *Mandrillus schreberi nomen nov* are available under various numbers (including ZMB 168). For the renaming, however, Matschie uses the illustration of *Simia maimon* (Plate VII) in Schreber's Work (1775). None of the Berlin specimens are types.

***Cynocephalus olivaceus* Geoffroy, 1851**

Collection de Mammifères du Muséum d'Histoire Naturelle Paris, p. 34

Current valid name: *Papio papio* (Desmarest, 1820)

ZMB 6748, skull; Bismarckburg, Togo; collected by Büttner, 1890/1891

Comment: Geoffroy's description of *Cynocephalus olivaceus* is based on specimens collected in Guinea, Golf von Benin [Gulf of Guinea] by Cabaret in 1847. Due to the date of discovery (year, collector), the specimen ZMB 6748, marked as a type specimen of *Cynocephalus olivaceus*, could not be a type.

***Semnopithecus cruciger* Thomas, 1892**

The Annals and Magazine of Natural History, X, p. 476

Current valid name: *Presbytis chrysomelas* (Müller, 1838)

ZMB 7452, skin, (skull missing); Baram, Bakam, "Nebenfluss des Kapua" [tributary of Kapua river], Borneo; collected by Selenka, 1892.

Comment: The holotype is in the BMNH London; Thomas did not describe or mention other specimens. Data from the original in the BMNH: Coast of Miri, NE of Sarawak, collected by Charles Hose 1887. Due to the date of discovery (year, collector), the specimen ZMB 7452, marked as type specimen of *Semnopithecus cruciger*, could not be a type.

***Lagothrix cana kumaginado* Leisewitz**

Presumably an unpublished scientific name, may be intended for eventual publication. A valid species description has not been published (*kumaginado* is not listed in Groves (2005), nor in Mittermeier *et al.* (2013)).

ZMB 11730/11731, male, juvenile, skull, skin; ZMB 11732, male, juvenile, skull, skin; Marcapata, Cuzco, Vilcanota, Peru; collected by Garlepp, 1898.

Comment: An old label contains "*Lagothrix thschudii*", "Cuzco". The subspecies *Lagothrix cana thschudii* was described by Pucheran in 1857; the holotype and two paratypes are in the MNHN in Paris, donated by M. Cross on 20 September 1827 (Rode, 1938). The present specimens cannot be considered as type specimens for this species either.

***Simia satyrus bicolor* Geoffroy, 1843**

Archives du Muséum d'Histoire Naturelle, Paris II, p. 526

Current valid name: *Pongo abelii* (Lesson, 1827)

ZMB 6420 (= A 5026), male, adult, [missing]; Lankat, Sumatra; collected by Dohrn, 1897; ZMB 7875, male, adult, skull and ZMB 7876, juvenile, skull; Borneo; collected by Selenka, 1893.

Comment: Due to their date of discovery (year, collector), the specimens ZMB 6420 and ZMB 7875/7876, marked as type specimens of *Simia satyrus bicolor*, could not be types.

Papio heuglini Matschie, 1898

Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin, 1898, p. 81

Current valid name: *Papio anubis* (Lesson, 1827)

ZMB 156, mounted skin; Egypt; collected by Brehm between 1847 and 1852.



FIGURE 12. Specimen of *Papio anubis* (ZMB 156), erroneously marked as type specimen of *Papio heuglini* Matschie, 1898

Comment: The description is based on three specimens collected by Theodor von Heuglin in 1855 on the Shilluk Islands, White Nile, Sudan and Sennaar. The Brehm specimen is therefore not a type, nor is it noted as such in the General catalog, it is simply marked as such on the label.