

Bulletin OF THE
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Type Specimens of Recent Mammals
in the Museum of Comparative Zoology

K. M. HELGEN AND T. L. McFADDEN

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TYPE SPECIMENS OF RECENT MAMMALS IN THE MUSEUM OF COMPARATIVE ZOOLOGY

K. M. HELGEN AND T. L. McFADDEN¹

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¹ Mammal Department, Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts 02138.

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ABSTRACT. The Mammal Department at the Museum of Comparative Zoology houses name-bearing types of 342 species-group taxa of Recent mammals. The type collection consists of 327 holotypes, 2 lectotypes, 4 complete syntype series, and 9 partial syntype series. This catalogue notes information on the type locality, collector, date of collection, present condition, original publication, and synonyms for all name-bearing types in the Mammal Department. Comments on the taxonomic and historical importance of many type specimens are included. Lectotypes for a number of taxa are designated for purposes of taxonomic consistency.

INTRODUCTION

“Some of them are more or less historic specimens,” wrote the great mammalogist Glover M. Allen in 1931, “whose location has undoubtedly in many cases been lost sight of, so that it may be of value to make the present record” (1931: 230). Allen, then Curator of Mammals at the Museum of Comparative Zoology at Harvard University, was referring to the type specimens of mammals in the museum, the subject of a listing he published that year. Allen’s words resound with even greater truth today than when they were written 70 years ago. Since that time, the museum’s holdings of mammal type specimens have grown considerably. Furthermore, type specimens of mammals housed in the MCZ have sometimes been credited to the collections of other institutions or considered to no longer exist, making the need for a new catalogue obvious.

Type specimens are biological reference points that lend objectivity to taxonomy and are thus of critical importance in systematic investigations; accordingly, “every institution in which name-bearing types are deposited should publish lists of name-bearing types in its possession or custody”

(International Commission on Zoological Nomenclature, 1999: 79). Our duty in this regard is thus long overdue, and this catalogue should serve to fulfill that obligation. Without doubt, it will alleviate confusion in the scientific community as to the whereabouts of certain specimens, thought to be lost, especially those type specimens that were acquired from Guillaume Grandidier. In addition, it should bring to light information, formerly unavailable, on this museum’s very notable holdings of name-bearing types.

All taxonomic judgments in this work, including new name combinations and lectotype designations, reflect the decision of the first author (KMH) alone and should be cited accordingly.

AUTHORS OF TYPE DESCRIPTIONS

Four mammalogists authored the overwhelming majority of names based on type specimens in the MCZ: Glover Allen, Outram Bangs, Guillaume Grandidier, and Barbara Lawrence. Following are brief biographies of these four outstanding mammalogists.

Glover M. Allen (1879–1942)

Curator of Mammals at the MCZ from 1924 until his death in 1942, Glover Allen began his work in the Mammal Department in 1907. He was known as a careful, dependable researcher and an outstanding, patient teacher. His goal in all endeavors was to increase the sum total of knowledge about the mammals of the world. Although much of his career was spent in the museum studying, as he put it, “the dried remains of animals” (Barbour et al., 1943: 300), he also traveled widely throughout the world collecting specimens as well as observing and learning about living animals. He once commented that the actual knowledge of living creatures could all too often be summed up by saying “when we found it, it ran like hell, whereupon we shot it!” (Barbour et al., 1943: 300). He wrote prolifically; his bibliography of publications is 81 pages long, the

first of which he published when he was only 11 years old (Lawrence 1947a: 1). Holotypes for 96 taxa, which Allen described alone or with colleagues, are deposited in the MCZ.

Outram Bangs (1863–1932)

Outram Bangs, Curator of Mammals from 1899 to 1924, “was one of those fortunate mortals, born with a love of nature and the outdoors which rule their entire lives” (Peters 1933: 265). Bangs authored 135 MCZ mammal names (only one co-authored!). He and brother Edward began collecting as boys using slingshots and horsehair nooses. He was an early ecologist, saving *Microtus breweri* by killing the feral cat population on Massachusetts’ Muskeget Island and restocking the mouse from a tiny islet across the channel. Although his greatest passion was the natural history of birds, he was also fascinated with mammals and served as curator of both departments in the MCZ. He decided to systematically collect the mammals of eastern North America in about 1890. He began by trapping in New England and later made trips to the southeastern United States and Canada. Other collectors assisted Bangs, expanding the collection area to western North America and south to Central America. His precision and organization were legendary, and today his mammal collection of more than 10,000 specimens, donated to the Museum in 1899, remains one of the best curated and most informative in the department. A complete list of Bangs’ scientific publications was compiled by Porter (1943).

Guillaume Grandidier (1873–1957)

French explorer and scientist Guillaume Grandidier, son of naturalist Alfred Grandidier, authored and coauthored descriptions of 13 taxa whose types were donated to the MCZ in 1947, along with his extensive personal collection of Malagasy mammals. The collection was purchased by Robert Barbour and donated to the MCZ in honor of his brother, MCZ director

Thomas Barbour. Between 1898 and 1902, Grandidier explored the center and southern portions of Madagascar, collecting specimens and describing the geography of the area. Through his writings he brought the unique fauna of this remote region to the attention of the scientific world. He was known for his devotion to the careful acquisition of knowledge, whether it was geographical, historical, or scientific. His work was honored by both the scientific community and the French government (Chapus, 1953).

Barbara Lawrence (1909–97)

After graduating from Vassar College in 1931, Barbara Lawrence became a volunteer at the MCZ. She was encouraged by Dr. Glover Allen to do her own research, and in the late 1930s she made field trips to the Philippines and Sumatra to collect mammals. In 1952 she was appointed Curator of Mammals, a position she held until her retirement in 1976. Her areas of scientific interest were many, ranging from echolocation in whales to zooarchaeology, as well as the more traditional mammalogical pursuit of taxonomy. “She once wrote ‘. . . to know and love a bit of the world so well that you can give it to someone else . . . is a rare talent’” (Rutzmoser, 1999: 1049), certainly a talent Barbara Lawrence had in abundance. She authored or coauthored 20 MCZ names.

The specimens described by these authors and others are the result of worldwide collecting by numerous expeditions and individuals, listed in the accounts that follow. A handful of type specimens in the MCZ were formerly in the collection of the National Museum of Natural History in Washington, D.C. According to Glover Allen, these were obtained via exchanges “at a time when ‘duplicates’ were more freely disposed of, [and would] prove to be cotypes or even actual types” (1931: 229). The collections of the Boston Society of Natural History, once contained in the Boston Museum of Science, were trans-

ferred to the Museum of Comparative Zoology over the course of the 20th century. Several types are among these specimens, which consist primarily of mammals from the New England region.

DEFINITIONS AND ORGANIZATION

Type Categories

Type specimens are categorized as one of the following:

Holotype. The single specimen designated as name-bearer in the original published description of the species-group taxon (Article 73.1, International Commission on Zoological Nomenclature, 1999: 79).

Syntype. One of multiple specimens on which a species-group name is equally based, when no holotype is specified in the original description and no subsequent designation of a lectotype has been published (Article 73.2, International Commission on Zoological Nomenclature, 1999: 81).

Lectotype. One of multiple specimens upon which a species-group name is originally based, designated in a publication subsequent to the original description to become the unique name-bearer (Article 74, International Commission on Zoological Nomenclature, 1999: 82).

Neotype. A specimen chosen as the name-bearer of a species-group taxon, "if no holotype, lectotype, syntype, or prior neotype is believed to exist" (Article 75, International Commission on Zoological Nomenclature, 1999: 84). There are no neotypes in the MCZ mammal collection.

Paratype. A specimen other than the holotype (if designated originally) that is mentioned in the original description of a species-group taxon. Paratypes of species-group taxa whose holotypes are housed in other institutions are not mentioned in this catalogue, although many such specimens exist in this museum.

Paralectotype. If no holotype is designated, a specimen other than the lectotype (if designated subsequently) that is mentioned in the original description of a spe-

cies-group taxon. Paralectotypes of species-group taxa whose lectotypes are housed in other institutions are discussed below, before the accounts for name-bearing types.

Locality

This category includes country, second-level geopolitical division (state, department, territory, province, or district), collection site, and altitude where available. The geographic name given for a type locality is that found in the original publication. When the description of the collection locality does not include current geopolitical divisions, that information is provided in parentheses. If an original name is no longer used, an equals sign (=) is included within the parentheses to designate an equivalent modern name. Where altitude was originally given in feet, it has been converted to meters and included in parentheses.

Sources used for the current names are from the most current available Gazetteers of the United States Board on Geographic Names, the 10th comprehensive edition of the Times Atlas of the World, the Columbia Gazetteer of the World, and the Ornithological Gazetteers of South America.

Account Organization

The type locality, collector, date of collection, and present condition of each specimen are noted. The publication of the original description is cited for each specimen. Many names have changed in rank or synonymy since their origin; in these cases, the name by which a taxon is known today is noted, with a citation of the publication in which that name combination was first employed for that taxon. Comments are offered for most entries to provide additional information or to dispel potential sources of confusion.

The format of this catalogue is largely borrowed from the most recent type catalogue of mammals in the American Museum of Natural History (Lawrence, 1993). For systematic consistency, the tax-

onomic judgments at the species-level by the authors of the chapters in *Mammal Species of the World* (Wilson and Reeder, 1993) are largely adhered to. However, in many cases alternate views are explored, and subsequent work by other authors is noted. The sequence of mammalian orders presented here is as follows: Didelphimorphia, Dasyuromorphia, Peramelia, Cingulata, Afrosoricida, Rodentia, Lagomorpha, Scandentia, Primates, Lipotyphla, Chiroptera, Artiodactyla, Carnivora, and Cimolesta. This sequence represents the ongoing understanding of higher mammalian relationships being produced by research in molecular phylogenetics (Waddell et al., 1999) as well as paleontological studies (McKenna and Bell, 1997). A number of these names are rather nontraditional; use of the names Cingulata (for armadillos) and Cimolesta (for pangolins) at ordinal rank follows McKenna and Bell (1997). Afrosoricida is used for an order including tenrecs and golden-moles (following Stanhope et al., 1998: 9971–9972). We use the ordinal name Lipotyphla in a restricted sense to refer to the Recent families Nesophontidae, Solenodontidae, Soricidae, and Talpidae (others have used the term “Eulipotyphla,” e.g., Waddell et al., 1999). Cetaceans are included here within the order Artiodactyla (an assemblage often referred to as “Cetartiodactyla” in recent literature; see Graur et al., 1997).

To avoid unnecessary complexity, orders, families, and genera are the only ranks above the level of species that are listed, except for the large family Muridae, for which subfamilial distinctions are provided, in alphabetical order. Within each order, the sequence of families generally follows Simpson (1945), but Wilson and Reeder's (1993) order of rodent families and Simmons' (1998: 12) arrangement of the bats are observed. Within each genus, taxa are presented in alphabetical order by original name.

The format of this catalogue is as follows, with all the following information provided when possible:

Original binomen. Name of describer, date of description.

Citation of original publication.

=*Presently used name, if different from original.* Citation of publication in which this name combination was initially used for this taxon.

Type Category. Number of specimen.² Preparation of specimen (skin, skull, alcohol, etc.), age and sex.

Locality. Type locality. Date of collection.

Collector. Name of collector. Original number of specimen.

Condition. Current condition of the type material.

Type Series. Any paratypes, paralectotypes, or additional syntypes in existence are mentioned, with their preparation, sex, and age.

Comments. Additional comments regarding the systematic status or the history of the specimen.

TAXA INCLUDED IN THIS CATALOGUE

Unlike Allen's original type catalogue, fossil mammals are not considered here, but type specimens of Recent mammals known only from subfossil remains are discussed.

Several type specimens of Recent mammals that were included in Allen's catalogue are not considered here as name-bearing types. A number of syntype series in the MCZ have since Allen's time been rendered paralectotypes by the designation of a lectotype preserved in another institution; these are discussed in the section below on paralectotypes. Additionally, MCZ 14929, listed as a “cotype” of *Nycteris revoili* Robin, 1881 by G. M. Allen (1931: 235), is a paratype rather than a syntype and is not considered here.

² Mammal specimens in the MCZ bear any of three kinds of numbers. A number preceded by “MCZ” can be found in the general collection in the Mammal Department. A number preceded by a “B” is part of the collection of E. A. and O. Bangs, also housed in the Mammal Department. A number preceded by “VP” designates that the specimen is stored in the Vertebrate Paleontology Department.

One other enigmatic specimen in the collection deserves some mention. When it was received by the Mammal Department, Guillaume Grandidier's personal collection contained specimens marked as types for 16 taxa, described by either Grandidier or M. L. Lavauden. Fifteen of these holotypes are discussed within this catalogue in separate accounts. The remaining specimen, a fruit bat, MCZ 45073, is marked exactly like the other type specimens, and both its skin and its skull tags bear the name "*Eidolon sakalava* nov. spec., G. Grandidier" in the scripted handwriting typical of Grandidier's specimens. The locality given for the specimen is Ankavandra, in west-central Madagascar. Though this specimen has been curated as a type specimen, I (KMH) can find no published description of this taxon or any reference to this name in the literature. This name is therefore invalid, barring a discovery in the future that it was indeed published and has since been overlooked. Whatever the published status of the name, it appears to me that this specimen should be considered as a young specimen of *Eidolon dupreanum* rather than a distinct species, and discussion of this mysterious binomial here should in no way be construed as a formal description of a new taxon.

ABBREVIATIONS

Abbreviations are used in the text to designate the following institutions.

AMNH	American Museum of Natural History, New York
BMNH	Natural History Museum, London
BSNH	Boston Society of Natural History, Boston
FMNH	Field Museum of Natural History, Chicago
MNHN	Muséum National d'Histoire Naturelle, Paris
MVZ	Museum of Vertebrate Zoology, Berkeley, California
RMNH	Rijksmuseum van Natuurlijke Historie, Leiden

USNM National Museum of Natural History, Washington, D.C.

YPM Yale Peabody Museum of Natural History, New Haven, Connecticut

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PARALECTOTYPE SERIES

Hesperomys eremicus Baird, 1858 = *Peromyscus eremicus eremicus* (Baird, 1858). Lectotype, USNM 2575, designated by Osgood (1909: 241). MCZ 4310 and 5273 are paralectotypes.

Neotoma fuscipes Baird, 1858 = *Neotoma fuscipes fuscipes* Baird, 1858. Lectotype, USNM 22026, designated by Lyon and Osgood (1909: 99). MCZ 4336 and 5264 are paralectotypes.

Mus bairdii Hoy and Kennicott, 1857 = *Peromyscus maniculatus bairdii* (Hoy and Kennicott, 1857). Lectotype, number 750 in the Collection of the Academy of Natural Sciences of Philadelphia, designated by Osgood (1909: 80). MCZ 8073 is a paralectotype.

Pteropus lanigera [sic] H. Allen, 1890 = *Pteropus insularis* Hombron and Jacquinot, 1842. The corrected spelling of the original name is *Pteropus laniger* (see Andersen 1912: 297). H. Allen based the description of *Pteropus laniger* on two syntypes, USNM 19066 (skin)/37815 (skull) and MCZ 7023, a skin. Andersen (1912: 297–298) was unaware of

Marmosa fulviventer Bangs, 1901b
Amer. Nat., 35: 632, 22 August.
 = *Marmosa robinsoni fulviventer* Bangs,
 1901. See Handley (1966: 775).

Holotype. B8435. Skin and skull. Adult male.
Locality. Panama: (Panama), Gulf of Panama, San Miguel Island. 28 April 1900.
Collector. W. W. Brown, Jr. Original number 123.
Condition. Skin and skull complete. Mandible disarticulated.
Type Series. 3 paratypes; B8436, skin and skull, female (exchanged to FMNH in 1931); B8437, skin and skull, female; B8438, skin and skull, male.
Comments. *M. r. fulviventer* was retained as a valid subspecies by Hall (1981: 14) and O'Connell (1983: 1).

Family DIDELPHIDAE Gray, 1821

Genus *DIDELPHIS* Linnaeus, 1758

Didelphis marsupialis particeps Goldman, 1917

Proc. Biol. Soc. Washington, 30: 107, 23 May.

Holotype. B8439. Skin and skull. Adult male.
Locality. Panama: (Panama), Gulf of Panama, San Miguel Island. 8 May 1900.
Collector. W. W. Brown, Jr. Original number 165.
Condition. Skin and skull complete.
Type Series. 1 paratype; B8440, skin and skull, adult female.
Comments. Retained as a valid subspecies by Hall (1981: 4).

Didelphis virginiana pigra Bangs, 1898b
Proc. Boston Soc. Nat. Hist., 28: 172, 15 March.

Holotype. B3500. Skin and skull. Adult female.
Locality. (United States): Florida, Brevard County, Oak Lodge, East Peninsula opposite Micco. 31 January 1895.
Collector. O. Bangs.
Condition. Skin and skull complete.
Type Series. 11 paratypes; all represented by skin and skull, most still in the MCZ.
Comments. Retained as a valid subspecies by Hall (1981: 5) and McManus (1974: 1). The type description lists 31 January 1896 as the date of collection, but the date is written as "January 31, 1895" on the original specimen label and in Bangs' accession catalogue.

Order DASYUROMORPHIA Gill, 1872

Family DASYURIDAE Goldfuss, 1820

Genus *ANTECHINUS* Macleay, 1841

Antechinus mayeri misim Tate, 1947
Bull. Amer. Mus. Nat. Hist., 88: 130, 20 February.
 = *Antechinus naso misim* Tate, 1947. See Laurie and Hill (1954: 7).

Holotype. MCZ 29924. Skin and skull. Adult male.
Locality. Papua New Guinea: Morobe Province, Mount Misim (=Missim), 5,850 ft (1,784 m). 14 April 1933.
Collector. H. Stevens.
Condition. Skin and skull complete. Mandible disarticulated.
Type Series. 1 paratype; MCZ 29923, skin and skull, adult female.
Comments. Tate, in the original description, erroneously listed 24 April 1933 as the date of collection. *A. n. misim* was retained as a valid subspecies by Flannery (1995a: 80), who also noted that the New Guinean species assigned to the genus *Antechinus* are not closely related to the Australian species of that genus and will be reassigned at the generic level pending a full taxonomic revision of the group.

Genus *MYOICTIS* Gray, 1858

Myoictis melas wavicus Tate, 1947
Bull. Amer. Mus. Nat. Hist., 88: 140, 20 February.
 = *Myoictis melas wallacei* Gray, 1858. See Flannery (1990: 56).

Holotype. MCZ 28082. Skin and skull. Adult male.
Locality. Papua New Guinea (S. Morobe), Wau, 3,800 ft (1,159 m). 27 March 1932.
Collector. H. Stevens. Original number 1.
Condition. Skin and skull complete.
Type Series. Holotype only.
Comments. Stevens' original field label bears the following lament—"To my intense anguish I failed to retrieve the female, shot on recumbent, decayed log in undergrowth."

Order PERAMELIA Ameghino, 1889

Family PERORYCTIDAE Groves and Flannery, 1990

Genus *ECHYMIPERA* Lesson, 1842

Suillomeles hispida G. M. Allen and Barbour, 1909
Proc. New England Zool. Club, 4: 44, 12 July.
 = *Echymipera kalubu kalubu* (Fischer, 1829). See Laurie and Hill (1954: 11).

Holotype. MCZ 7006. Skin and skull. Adult.

er County, White Sulphur Springs, top of Katis Mtn. 3,200 ft (976 m). 2 September 1895.

Collector. T. Surber. Original number 19.

Condition. Skin and skull complete. Mandible disarticulated.

Type Series. Holotype only.

***Sciuropterus volans querceti* Bangs, 1896j**
Proc. Biol. Soc. Washington, 10: 166, 28 December.

= *Glaucomys volans querceti* (Bangs, 1896). See A. H. Howell (1918: 26).

Holotype. B2451. Skin and skull. Adult female.

Locality. (United States): Florida, Citrus County, Citronelle. 17 September 1894.

Collector. F. L. Small. Original number 1363.

Condition. Skin and skull complete. Mandible disarticulated.

Type Series. 2 paratypes; B2452, skin and skull, adult male; B2453, skin and skull, adult female.

Comments. *G. v. querceti* was retained as a valid subspecies by Hall (1981: 449).

Genus ***HYLOPETES* Thomas, 1908**

***Pteromys (Hylopetes) alboniger orinus* G. M. Allen, 1940**

The Mammals of China and Mongolia, Natural History of Central Asia, 11: 723, 3 September.

= *Hylopetes alboniger alboniger* (Hodgson, 1836). See Ellerman and Morrison-Scott (1951: 469).

Holotype. MCZ 28086. Skin and skull. Adult female.

Locality. China: Yunnan, Likiang Range (=Lijiang), 7,800 ft (2,379 m). December 1931.

Collector. J. F. Rock.

Condition. Skin complete. Skull partial (most of right tympanic bulla missing, supraoccipital damaged). Mandible disarticulated.

Type Series. Allen examined 10 specimens in addition to the type, including 4 specimens from the BMNH, 3 from AMNH, and MCZ 28087, skin and skull, an unsexed adult.

***Pteromys phayrei anchises* G. M. Allen and Coolidge, 1940**

Bull. Mus. Comp. Zool., 87: 153, 31 December.

= *Hylopetes phayrei anchises* (G. M. Allen and Coolidge, 1940). See Ellerman and Morrison-Scott (1951: 469).

Holotype. MCZ 35776. Skin and skull. Adult male.

Locality. Siam (=Thailand): (Chiang Mai) Mount

Angka (=Doi Inthanon), 4,300 ft (1,312 m). 27 February 1937.

Collector. J. A. Griswold, Jr., Asiatic Primate Expedition. Original number 24.

Condition. Skin and skull complete. Mandible disarticulated.

Type Series. 3 paratypes; MCZ 35775, skin and skull, adult female; MCZ 35777, skin and skull, adult male; MCZ 35778, skin and skull, subadult male.

Genus ***MARMOTA* Blumenbach, 1779**

***Arctomys flaviventer avarus* Bangs, 1899j**
Proc. New England Zool. Club, 1: 68, 31 July.

= *Marmota flaviventris avara* (Bangs, 1899). See A. H. Howell (1915: 41).

Holotype. B7299. Skin and skull. Juvenile female.

Locality. (Canada): British Columbia, Okanagan. 17 July 1897.

Collector. A. C. Brooks. Original number 969.

Condition. Skin and skull complete.

Type Series. 2 paratypes; B7298, skin and skull, juvenile male; B7300, skin and skull, juvenile female.

Comments. *M. f. avara* was retained as a valid subspecies by Hall (1981: 371).

***Arctomys ignavus* Bangs, 1899d**

Proc. New England Zool. Club, 1: 13, 28 February.

= *Marmota monax ignava* (Bangs, 1899). See A. H. Howell (1915: 29).

Holotype. B7971. Skin and skull. Adult male.

Locality. (Canada): Labrador Peninsula, Black Bay. 13 July 1898.

Collector. E. Doane.

Condition. Skin and skull complete. Mandible disarticulated.

Type Series. 5 paratypes; B7968–B7970, B7972, B7973 (juvenile); all represented by skin and skull, 4 females and 1 male.

Comments. *M. m. ignava* was retained as a valid subspecies by Hall (1981: 370) and Kwiecinski (1998: 1).

Genus ***MICROSCIURUS* J. A. Allen, 1895**

***Sciurus (Microsciurus) browni* Bangs, 1902b**

Bull. Mus. Comp. Zool., 39:24, April.

= *Microsciurus alfari browni* (Bangs, 1902). See J. A. Allen (1914:151).

Holotype. MCZ 10404. Skin and skull. Adult male.

Locality. Panama: Chiriqui, Bogaba, 600 ft (183 m). 15 July 1901.

Comments. Retained as a valid subspecies by Meester (1972: 2).

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