Catalog of Type Specimens of Recent Mammals: Orders Didelphimorphia through Chiroptera (excluding Rodentia) in the National Museum of Natural History, Smithsonian Institution

Robert D. Fisher and Craig A. Ludwig
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Catalog of Type Specimens of Recent Mammals: Orders Didelphimorphia through Chiroptera (excluding Rodentia) in the National Museum of Natural History, Smithsonian Institution

Robert D. Fisher and Craig A. Ludwig
ABSTRACT
Fisher, Robert D. and Craig A. Ludwig, Catalog of Type Specimens of Recent Mammals: Orders Didelphimorphia through Chiroptera (excluding Rodentia) in the National Museum of Natural History, Smithsonian Institution. *Smithsonian Contributions to Zoology*, number 644, viii + 110 pages, 2015.—The type collection of Recent Mammals in the Division of Mammals, National Museum of Natural History, Smithsonian Institution, contains 821 specimens bearing names of 810 species-group taxa of Didelphimorphia through Chiroptera, excluding Rodentia, as of June 2014. This catalog presents an annotated list of these holdings comprising 789 holotypes, 26 lectotypes, 11 syntypes (22 specimens), and 4 neotypes. Included are several specimens that should be in the collection but cannot be found or are now known to be in other collections. One hundred and twenty-eight of the names are new since the last type catalog covering these orders, Arthur J. Poole and Viola S. Schantz’s 1942 Catalog of the Type Specimens of Mammals in the United States National Museum, Including the Biological Surveys Collections (*Bulletin of the United States National Museum*, 178). Five specimens reported therein were subsequently sent to the National Museum’s Paleobiology Department collection and are mentioned only briefly in this work. They are *Acratosaurus †comes* Miller, 1929, *Paraconus serus* Miller, 1929, *Nesophontes hypomictus* Miller, 1929, *Nesophontes paramictos* Miller, 1929, and *Nesophontes zamarcus* Miller, 1929. Orders and families are arranged systematically following D. E. Wilson and D. M. Reeder’s 2005 *Mammal Species of the World: A Taxonomic and Geographic Reference*, volume 1, third edition; within families, currently recognized genera are arranged alphabetically; within each currently recognized genus, species and subspecies accounts are arranged alphabetically by original published name. Information in each account includes original name and abbreviated citation thereto, current name if other than original, citation for first use of current name combination for the taxon (or new name combination if used herein for the first time), type designation, U.S. National Museum catalog number(s), preparation, age and sex, date of collection and collector, original collector number, type locality, and remarks as appropriate. Digital photographs of each specimen will serve as a condition report and will be attached to each electronic specimen record.

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Genus *Trachypithecus* Reichenbach, 1862
Family *Hylobatidae* Gray, 1871
Genus *Hylobates* Illiger, 1811

Order *Lagomorpha* Brandt, 1855
Family *Ochotonidae* Thomas, 1897
Genus *Ochotona* Link, 1795
Family *Leporidae* G. Fischer, 1817
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Genus *Lepus* Linnaeus, 1758
Genus *Romerolagus* Merriam, 1896
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Order *Soricomorpha* Gregory, 1910
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Genus *Neomys* Kaup, 1829
Genus *Notiosorex* Coues, 1877
Genus *Sorex* Linnaeus, 1758
Genus *Suncus* Ehrenberg, 1832
Genus *Surdisorex* Thomas, 1906
Genus *Sylvisorex* Thomas, 1904
Family *Talpidae* G. Fischer, 1814
Genus *Condylura* Illiger, 1811
Genus *Dymecodon* True, 1886
Genus *Europs* Miller, 1940
Genus *Neurotrichus* Gunther, 1880
Genus *Scalopus* E. Geoffroy, 1803
Genus *Scapinus* Pomel, 1848

Order *Chiroptera* Blumenbach, 1779
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Genus *Cynopterus* F. Cuvier, 1824
Genus *Eonycteris* Dobson, 1873
Genus *Harpyionycteris* Thomas, 1896
Genus *Pteropus* Brisson, 1762
Family *Rhinolophidae* Gray, 1825
Genus *Rhinolophus* Lacepede, 1799

Family *Hipposideridae* Lydekker, 1891
Genus *Coelops* Blyth, 1848
Genus *Hipposideros* Gray, 1831

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Genus *Rhinolophus* Lacepede, 1799

Family *Hipposideridae* Lydekker, 1891
Genus *Coelops* Blyth, 1848
Genus *Hipposideros* Gray, 1831
Family Megadermatidae H. Allen, 1864
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  Genus Ardops Miller, 1906
  Genus Artibeus Leach, 1821
  Genus Brachyphylla Gray, 1834
  Genus Carollia Gray, 1838
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  Genus Chiroderma Peters, 1860
  Genus Choeronycteris Thomas, 1928
  Genus Dermanura Gervais, 1856
  Genus Ectophylla H. Allen, 1892
  Genus Erophylla Miller, 1906
  Genus Glossophaga E. Geoffroy, 1818
  Genus Leptonycteris Lydekker, 1891
  Genus Lichonycteris Thomas, 1903
  Genus Lophostoma d’Orbigny, 1836
  Genus Macrotris Gray, 1843
  Genus Micronycteris Gray, 1866
  Genus Mimon Gray, 1847
  Genus Monophyllus Leach, 1821
  Genus Phyllonycteris Gundlach, 1861
  Genus Platyrhinus Saussure, 1860
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  Genus Sturnira Gray, 1842
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Genus *Hypurga* Kolenati, 1856
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Genus *Laephotes* Thomas, 1901
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Genus *Miniopterus* Bonaparte, 1837
Genus *Murina* Gray, 1842
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REFERENCES

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INTRODUCTION

The Division of Mammals, National Museum of Natural History (NMNH), Smithsonian Institution, formerly the United States National Museum (USNM), maintains the second-largest collection of mammal primary types in the world, numbering 3,202 specimens. Type specimens are “the international standards of reference that provide objectivity in zoological nomenclature” and as such “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). Although the official title of the museum was changed in 1969 (Yochelson, 1985) from United States National Museum to the National Museum of Natural History, the correct abbreviation for the museum’s cataloged holdings remains USNM. The abbreviation NMNH refers to the museum building and is not used as a prefix for catalog numbers, whereas USNM no longer refers to the museum itself and is only used in reference to museum catalog numbers.

This is the fifth type catalog of USNM mammals published to date, following Lyon and Osgood (1909; 1,415 specimens reported), Poole and Schantz (1942; 2,824 specimens reported), Fisher and Ludwig (2012; 843 specimens reported for the order Rodentia, suborders Sciuromorpha and Castorimorpha), and Fisher and Ludwig (2014; 945 specimens reported for the order Rodentia, suborders Myomorpha, Anomaluromorpha, and Hystricomorpha). We continue to deviate from the two earlier catalogs and follow the precedent set by the NMNH Division of Fishes (Vari and Howe, 1991) and Division of Amphibians and Reptiles (Reynolds et al., 2007), as continued by Fisher and Ludwig (2012, 2014), in which the type collection is divided into smaller, more manageable taxonomic reports, rather than addressed in one monograph. The current work, the third of an anticipated four such publications, covers the orders Didelphimorphia through Chiroptera, excluding Rodentia, as ordered by Wilson and Reeder (2005).

Categories of Name-Bearing Types Included

Specimens included in this catalog are one of the following as defined by the International Code of Zoological Nomenclature (International Commission on Zoological Nomenclature, 1999; hereafter ICZN).

Holotype. The single specimen upon which a new nominal species-group taxon is based in the original publication (Article 73.1).
Syntype. Any one of the multiple specimens on which a species-group name is equally based when no holotype was specified in the original publication and no subsequent designation of a lectotype has been published (Article 73.2). Syntypes are referred to as cotypes in Lyon and Osgood (1909) and Poole and Schantz (1942) as well as in other early literature.

Lectotype. One specimen selected from two or more specimens upon which a species-group name was originally based and designated in a publication subsequent to the original description to become the unique name bearer (Article 74.1).

Neotype. A specimen chosen as the name bearer of a species-group taxon if no holotype, lectotype, syntype, or prior neotype is believed to be extant (Article 75.1).

RESEARCH APPROACH

In the early 1970s, accounts from a copy of Poole and Schantz (1942) were physically cut out and pasted onto 5 × 7 index cards to create a master card file of types. Additional cards were created and added to the file as new taxa were described and their types installed in the collection. We checked the information on each card against the original description, the original skin label (when present), and the field catalog entry (when available). Information on each index card, often annotated by hand, thus served as the nucleus of each of the accounts. Other unpublished catalogs, such as the Museum Catalog, Merriam Collection Catalog, and X-Catalog, were consulted as needed.

Authors in Wilson and Reeder (2005) are followed for currently accepted names unless an online search of Zoological Record uncovered a more recent taxonomic arrangement or we became aware of an error of citation and attribution. In the taxonomic order presented herein (see the next section), this search was conducted beginning in December 2012 for the earlier accounts and running through March 2014 for the later accounts. Each specimen record in the electronic collection database was corrected as needed to reflect new information. The type publication citation was added to the electronic database if not already present.

Digital images will be created for each specimen and will include dorsal, lateral, and ventral views of crania; dorsal and lateral views of mandibles; dorsal and ventral views of skins (lateral if possibly diagnostic); and both sides of all labels. All images will feature a metric scale bar. Additional views will be included if deemed appropriate. For lateral images, the traditional view of the left aspect will be presented except for skulls whose right side is more complete because of damage on the left. We will record specimen damage not captured in these images in the associated metadata when readily apparent but will not inspect specimens for minute damage. Images will be uploaded to the specimen database as they become available and can be accessed via the Internet (http://collections.mnh.si.edu/search/mammals/). Images will be created in the order in which accounts are presented. We anticipate it will take about six years for all images to be completed for specimens in this catalog. These images will not only serve as indicators of specimen condition, but will also allow researchers to verify certain characters of a type without having to visit the NMNH and handle the specimens, thereby providing a convenience to researchers and minimizing possible damage to irreplaceable specimens.

CLASSIFICATORY ORGANIZATION

Orders and families are sequentially arranged following Wilson and Reeder (2005). Within families, currently recognized genera are arranged alphabetically. Within each currently recognized genus, the specimen accounts are arranged alphabetically by original published name.

FORMAT OF ACCOUNTS

We follow the format set by Fisher and Ludwig (2014). Each account reads as follows:

- Original published name: Genus, species, and subspecies in bold followed by the author’s or authors’ names.
- Abbreviated type citation: Publication, volume, page, and date of publication. Dates are given as day, month (three-letter abbreviation), and year throughout.
- Currently recognized name: Genus, species, and subspecies, if different from the original published name, followed by the citation for the first use of current name combination for the taxon. Author names in parentheses indicate that the generic name used in the original description is different from the current generic one. The statement “new name combination” replaces the citation if the name is used for the first time herein. Current names are those used by the authors in Wilson and Reeder (2005) for the 17 orders included, unless more recent authors are cited.
- Type designation (holotype, lectotype, neotype, or syntype): USNM catalog number(s), preparation of specimen, and original number, which is usually the field number. Some type specimens were collected by personnel of the Smithsonian Venezuelan Project; the original numbers associated with these are preceeded by SVP.
- Type locality: Exact locality as given in the original description or lectotype designation, published restrictions, and supplementary data. Abbreviations are used for miles (mi), kilometers (km), feet (ft), and meters (m).
- Remarks: Additional information is provided as needed, but especially to explain types designated prior to becoming part of the USNM collection and reasons for considering certain specimens to be types when not specified as such in the original publication.

We make an effort to distinguish information that was included in the original description from that added later from other sources. Added information, such as amended or restricted
localities, is given with citations. Brackets are used to identify supplementary data not contained in the original description and, when not from commonly used sources such as maps or online gazetteers, are attributed to a collector’s field catalog (FC), the Smithsonian Institution’s Museum Catalog (MC), the Merriam Collection Catalog (MCC), the skin label (SL), the X-Catalog (XC), or a citation. Parentheses are placed around metric equivalents and current place names when this information was not included in the original publication.

Prior to January 1893, the USNM used a double-number cataloging system in which skins and fluid-preserved specimens were entered in one catalog and skeletal material in another. Many older specimens therefore have two numbers associated with them, and the proper museum record is indicated by a fraction such as 23651/31045. In this example, the numerator on a skin label indicates 23651 as the skin to which skull 31045 belongs; on the associated skull label, 31045/23651, the numerator indicates 31045 as a skull to which the skin 23651 belongs. This cataloging system was abandoned at the end of 1892, after which a single, continuous numbering system was implemented for all specimen parts. The new system was initiated in January 1893, beginning with number 50001. The C. Hart Merriam private collection (MCC), donated to the USNM in 1911 and 1893, is cataloged with this new system.

Beginning in 1896 with the Biological Survey and continuing through 5 October 1951 with the Fish and Wildlife Service, specimens incidentally acquired through exchange or purchase, or received from or collected by persons other than permanent staff, were entered in a separate catalog, known as the X-Catalog, prior to being transferred to the Division of Mammals for formal cataloging. The X-Catalog thus served as an ersatz field catalog, and its entries frequently have data (referred as XC) that were never entered into the museum catalog or onto skin labels. X-Catalog numbers are identified with an “-X” suffix.

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We thank Robert P. Reynolds, USGS Patuxent Wildlife Research Center, NMNH, and Kristofer M. Helgen, Division of Mammals, NMNH, supervisors of Fisher and Ludwig, respectively, for support and encouragement to undertake this project. Funds to purchase the photographic setup, in order of significance, were provided by Carol E. Butler, assistant director for collections, NMNH; Don E. Wilson, chair, Department of Vertebrate Zoology, NMNH (since retired); and Robert P. Reynolds, to all of whom we are thankful. We are greatly indebted to David F. Schmidt, Division of Mammals, NMNH (since retired), with support from Linda K. Gordon, Division of Mammals, NMNH (since retired), who spent a considerable amount of time researching photographic equipment and methods, ordered the equipment, and set it up. Advice on photographic equipment, setup, and technique was graciously provided to David by Melvin J. Wachowiak and Elizabeth Webb, Museum Conservation Institute, Smithsonian Institution; Roy and Jason Larimer, Visionary Digital; and James L. Di Loreto, Office of Imaging and Photographic Services, NMNH. Renee Regan, a contractor funded by the Smithsonian Institution, Collection Information System, Information Resources Management pool, is currently doing photography for our earlier type catalog, and we hope to obtain additional funds to continue photography for the current publication. Alfred L. Gardner, USGS Patuxent Wildlife Research Center, NMNH, provided valuable insight to numerous taxonomic issues and guidance in interpreting various provisions of the International Code of Zoological Nomenclature. Alfred L. Gardner, Robert P. Reynolds, and Neal Woodman, all USGS Patuxent Wildlife Research Center, NMNH, read an earlier version of the manuscript and provided valuable comments.

Accounts of Name-Bearing Type Specimens

Order Didelphimorphia Gill, 1872

Family Didelphidae Gray, 1821

Genus Caluromys J. A. Allen, 1900

Philander centralis Hollister


Holotype: USNM 12218/38522. Skin and skull. Adult female.

Collected by W. Gabb, date unknown. Cataloged 19 Nov 1874. No original number.

Type Locality: Talamanca, Costa Rica.

Genus Chacodelphys Voss, Gardner, and Jansa, 2004

Marmosa muscula Shamel


= Chacodelphys formosa (Shamel, 1930). See Voss et al. (2004:2).


Type Locality: [SL: Riacho Pilaga, 10 mi (16 km) NW of] kilometer 182, Formosa, Argentina.

Genus Chironectes Illiger, 1811

Chironectes panamensis Goldman


Type Locality: Cana, altitude 2,000 ft (610 m), [Darien], Panama.

**Genus Didelphis Linnaeus, 1758**

*Didelphis marsupialis tabascensis* J. A. Allen
Type Locality: Teapa, Tabasco, Mexico.

*Didelphis marsupialis texensis* J. A. Allen
Type Locality: Brownsville, [Cameron County], Texas.

*Remarks: Gardner (2005:6) used D. v. pigra for this taxon in error.*

*Didelphis richmondi* J. A. Allen
= *Didelphis virginiana californica* Bennett, 1833. See A. L. Gardner (1973:30).
Holotype: USNM 108299, not 100299 as in original description. [Skin and skull]. Adult male. Collected 1 Feb 1901, not 29 Jan as in original description, by E. W. Nelson and E. A. Goldman. Original number [SL: 14468].
Type Locality: Greytown (San Juan del Norte), [Rio San Juan], Nicaragua.

*Didelphis yucatanensis* J. A. Allen
Type Locality: Rio Indio, near Gatun, Canal Zone (Colon), Panama.

*Genus Gracilinanus Gardner and Creighton, 1989*

*Gracilinanus perijae* Hershkovitz
Type Locality: Las Marimondas, the site of a former coffee plantation, 1,450 m, eastern slope Serrania de Perija, Cordellera Oriental de los Andes, [Pacifica District], north and above Fonseca at the time in the department of Magdalena, now incorporated into the department of La Guajira, [SL: Colombia].

*Genus Marmosa Gray, 1821*

*Marmosa demararae meridae* Tate
Type Locality: Cafetos de Merida, 1,630 m, Merida, [SL: Venezuela].

*Marmosa isthmica* Goldman
See Rossi et al. (2010:42) for current use.
Type Locality: Juquila, [FC: Altitude 5,000 ft (1,524 m)], Oaxaca, [FC: Mexico].

*Marmosa murina mexicana* Merriam
= *Marmosa mexicana* Merriam, 1897. See Bangs (1902:19).
Type Locality: Juquila, [FC: Altitude 5,000 ft (1,524 m)], Oaxaca, [FC: Mexico].

*Marmosa ruatanica* Goldman
= *Marmosa mexicana* Merriam, 1897. See Rossi et al. (2010:24) for current use.
Type Locality: Ruatan Island (Isla de Roatan). [Islas de la Bahia], off north coast of Honduras.
Remarks: The original description gave only the skin number USNM 7785; USNM 37700 is the skull that belongs to it.

**Marmosa xerophila** Handley and Gordon


Type Locality: La Isla, 15 m, near Cojoro, 37 km NNE Para-guaypao, Department of Guajira (La Guajira), Colombia.

**Marmosa xerophila** Handley and Gordon


Type Locality: La Isla, 15 m, near Cojoro, 37 km NNE Para-guaypao, Department of Guajira (La Guajira), Colombia.

**Genus Marmosops** Matschie, 1916

**Marmosa caucae albiventris** Tate


Type Locality: Torontoy, near Cuzco (Cusco), altitude 8,000 ft (2,438 m) [FC: 8,500 ft (2,591 m)], [Cusco], Peru.

**Marmosa cracens** Handley and Gordon


Type Locality: Navarro, [Miller and Kellogg (1955:9): near Orosi, 2,500- 3,000 ft (762- 914 m)], [Cartago], Costa Rica.

**Marmosa invicta** Goldman


Type Locality: Huitana-ham (Huitanaa), upper Purus River, [Amazonas], Brazil.

**Marmosa parvidens pinheiroi** Pine


Type Locality: “Nova Area Experimental,” Utinga, the wooded area surrounding the Belem waterworks, 1º27’S, 48º29’W, Belem, Para, Brazil.

**Genus Metachirus** Burmeister, 1854

**Metachirus nudicaudatus dentaneus** Goldman


Type Locality: Gatun, Canal Zone (Colon), Panama.
Genus Monodelphis Burnett, 1830

Monodelphis kunsi Pine
Holotype: USNM 461348. Skin, skull, and skeleton. Adult male. Collected about Jul 1971 by E. Lotore. No original number. Type Locality: La Granja, below 200 m, west bank of Rio Itonamas, 4 km north of Magdalena, Provincia Itenez, Departamento Beni (El Beni), Bolivia.
Remarks: Presented by M. L. Kuns, this specimen was originally prepared as a taxidermy mount by T. Rosas. The skeleton could not be found on 14 Mar 2013.

Peramys melanops Goldman
Holotype: USNM 179609. [Skin, skull, and skeleton]. Adult male. Collected 23 May 1912 by E. A. Goldman. Original number [SL: 5740]. Type Locality: Cana, altitude [SL and FC: 2,800 ft (853 m)], not 2,000 ft (610 m) as given in original description, [Darien], in the mountains of eastern Panama.

Genus Philander Brisson, 1762

Metachirus fuscogriseus pallidus J. A. Allen

Order Paucituberculata Ameghino, 1894

Family Caenolestidae Trouessart, 1898

Genus Lestoros Oehser, 1934

Orolestes inca Thomas
Holotype: USNM 194401. [Skin, skull, and skeleton]. Collected [SL: 14 May 1915 by E. Heller]. Original number 248. Type Locality: Torontoy, [SL and FC: timberline], altitude 14,000 ft (4,267 m), [Cusco], [SL: Peru].

Order Dasyuromorphia Gill, 1872

Family Dasyuridae Goldfuss, 1820

Genus Pseudantechinus Tate, 1947

Antechinus bilarni Johnson
Type Locality: Oenpelli (Gunbalanya), lat. 12°20’S, long. 133°3’E, East Alligator River, Northern Territory, Australia.

**Order Diprotodontia Owen, 1866**

**Family Phalangeridae Thomas, 1888**

**Genus Ailurops Wagler, 1830**

*Phalanger furvus* Miller and Hollister  
Type Locality: Rano Rano (Ranorano), [FC: altitude about 1,800 m], [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].

**Order Macroscelidea Butler, 1956**

**Family Macroscelididae Bonaparte, 1838**

**Genus Elephantulus Thomas and Schwann, 1906**

*Elephantulus phaeus* Heller  
Type Locality: Njoro O Solali, Sotik District, [Rift Valley], British East Africa (Kenya).

*Elephantulus rufescens mariakanae* Heller  
Type Locality: Mariakani, [Coast Province], British East Africa (Kenya).

**Order Macroscelidea Butler, 1956**

**Family Macroscelididae Bonaparte, 1838**

**Genus Petrodromus Peters, 1846**

*Petrodromus sultani sangi* Heller  
Holotype: USNM 181822. [Skin and skull], Adult male. Collected 9 Nov 1911 by E. Heller. Original number 4698.  
Type Locality: Summit of Mount Mbololo, altitude 4,000 ft (1,219 m), Taiti (Taita) Hills, [Coast Province], British East Africa (Kenya).
mailed a slice to Baird thinking it might be of interest to him (USNM accession record 17276). The piece was received 26 Mar 1886 and cataloged 28 Sep 1886. Shoshani et al. (1986) chronicle the history and deposition of the remains of “Jumbo.” This specimen was not included in either Lyon and Osgood (1909) or Poole and Schantz (1942).

**Order Sirenia Illiger, 1811**
**Family Trichechidae Gill, 1872**
**Genus Trichechus Linnaeus, 1758**

*Manatus oweni* Du Chaillu
= *Trichechus senegalensis* Link, 1795. See Gray (1865:1340).
Type Locality: Central Africa. [Gray (1865:134): Mouth of the Gabon].
Remarks: Received from the British Museum (Natural History) on 19 Apr 1883. British Museum number 1388a.

**Order Cingulata Illiger, 1811**
**Family Dasypodidae Gray, 1821**
**Genus Cabassous McMurtrie, 1831**

*Tatoua* (*Ziphila*) *centralis* G. S. Miller
Type Locality: Chamelicon (Chamelecon), [Cortes], Honduras.

**Genus Dasypus Linnaeus, 1758**

*Tatu novemcinctum texanum* Bailey
= *Dasypus novemcinctus mexicanus* Peters, 1864. See Hollister (1925:60).
Type Locality: Brownsville, [Cameron County], Texas.

**Order Pilosa Flower, 1883**
**Family Bradypodidae Gray, 1821**
**Genus Bradypus Linnaeus, 1758**

*Bradypus ignavus* Goldman
Order Scandentia Wagner, 1855

Family Tupaiidae Gray, 1825

Genus Tupaia Raffles, 1821

Tana cervicalis masae Lyon
Type Locality: Tana Masa (Pulau Tanahmasa), Batu Islands (Kepulauan Batu), [Sumatera Utara], west coast of Sumatra, [Indonesia].

Tana lingae Lyon
Type Locality: On the peak of Linga Island (Pulau Lingga), altitude 2,000 ft (610 m), Riau-Lingga Archipelago (Kepulauan Lingga), [Kepulauan Riau, Sumatra, Indonesia].

Tana tana besara Lyon
= Tupaia tana besara (Lyon, 1913). See Chasen (1940:6).
Type Locality: Opposite Pulo Jambu, below Tyan (Tayan), on north, or right, bank of Kapuas River (Sungai Kapuas), [Kalimantan Barat], western Borneo (Kalimantan), [Indonesia].

Tana tana tuancus Lyon
Type Locality: Pulo (Pulau) Tuangku, Banjak Islands (Kepulauan Banjak), [Aceh], west coast of Sumatra, [Indonesia].

Tupaia anambae Lyon
Subspecies of T. glis not recognized by Helgen (2005:106).
Type Locality: Pulo Jimaja (Pulau Jemaja), Anamba Islands (Kepulauan Anambah), South China Sea, between Malay Peninsula and Borneo, [Kepulauan Riau, Indonesia].

Tupaia bunoae G. S. Miller
= Tupaia tana bunoae G. S. Miller, 1900. See Chasen (1940:7).
Type Locality: Pulo Bunoa (Pulau Benua), Tambelan Islands (Kepulauan Tambelan), [Kepulauan Riau, Indonesia].

Tupaia castanea G. S. Miller
Type Locality: North Pagi Island (Pulau Pagai Utara), [Sumatera Barat], Sumatra, [Indonesia].

Tupaia chrysogaster G. S. Miller
= Tupaia glis (Diard, 1820) See Chasen (1940:3). Subspecies of T. glis not recognized by Helgen (2005:106).
Type Locality: North Pagi Island (Pulau Pagai Utara), [Sumatera Barat], Sumatra, [Indonesia].

Tupaia chrysomalla G. S. Miller
Type Locality: Pulo (Pulau) Siantan. Anambas Islands (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

Tupaia cuyonis G. S. Miller

Type Locality: Island of Cuyo, [Palawan Province], [MC: Philippine Islands] (Philippines).

Remarks: The holotype was published as Philippine Bureau of Science number 26. It was cataloged as USNM 239182 on 6 Feb 1923.

*Tupaia discolor* Lyon
See Sargis et al. (2013:201) for current use.


Type Locality: Tanjong Rengsam, Island of Banka (Pulau Bangka), [Kepulauan Bangka Belitung], east of Sumatra, [Indonesia].

*Tupaia ferruginea batamana* Lyon


Type Locality: Semimba Bay (Teluk Senimba), Batam Island (Pulau Batam), south of Malay Peninsula, [Kepulauan Riau, Indonesia].

*Tupaia glis olivacea* Kloss

= *Tupaia belangeri olivacea* Kloss, 1919. See Sargis et al. (2013:200) for current use.


Type Locality: Pak Bu, near Tachin (Samut Sakhon), [Samut Sakhon], Siam (Thailand).

Remarks: The holotype was published as C. B. Kloss number 2208. It was cataloged as USNM 221562 on 2 Jul 1920.

*Tupaia gracilis edarata* Lyon


Type Locality: Pulo Pemangil (Pulau Pemanggil), [Johor], off east coast of Malay Peninsula, [Malaysia].

*Tupaia inflata* Lyon

= *Tupaia gracilis inflata* Lyon, 1906. See Lyon (1913:118).


Type Locality: Tanjong Rengsam, island of Banka (Pulau Bangka), [Kepulauan Bangka Belitung], east of Sumatra, [Indonesia].

*Tupaia lacernata kohtauensis* Shamel
J. Mammal. 11: 71, 11 Feb 1930c.

= *Tupaia belangeri kohtauensis* Shamel, 1930. See Sargis et al. (2013:200).


Type Locality: Island of Koh Tau (Ko Tao), [Surat Thani, Thailand].

*Tupaia longipes salatana* Lyon


Type Locality: 15 mi (24 km) from mouth of Pangkallahan River, [Kalimantan Selatan], eastern Borneo (Kalimantan), [Indonesia].

*Tupaia natunae* Lyon


Type Locality: 15 mi (24 km) from mouth of Pangkallahan River, [Kalimantan Selatan], eastern Borneo (Kalimantan), [Indonesia].

*Tupaia nicobarica surda* G. S. Miller


Type Locality: Little Nicobar Island, [Andaman and Nicobar Islands, India].

*Tupaia pemangilis* Lyon


**Type Locality:** [FC: Sakana Bay], Sinkep Island (Pulau Singkep), [Lyon and Osgood (1909:253): Rhio Linga Archipelago (Kepulauan Lingga)], South China Sea, [Kepulauan Riau, Sumatra, Indonesia].

*Tupaia picta fuscior* Medway


**Type Locality:** Labuan Klambu (Labuhankelambu), east Kalimantan (Kalimantan Timur), Borneo (Kalimantan), [Indonesia].

*Tupaia pulonis* G. S. Miller


**Type Locality:** Pulo Aor (Pulau Aur), [FC: South China Sea], off coast of Johore (Johor), [Malaysia].

*Tupaia raviana* Lyon


**Type Locality:** Pulo Rawi (Ko Ra Wi), Butang Islands (Batang Group), off west coast of Malay Peninsula, [Satun, Thailand].

*Tupaia riabus* Lyon


**Type Locality:** Pulo Riabu (Pulau Airabu), Anamba Islands (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

*Tupaia siaca* Lyon

*Proc. Natl. Mus. 34: 661, 14 Sep 1908.*

= *Tupaia ferruginea* Raffles, 1821. See Sargis et al. (2013:201) for current use.

**Type Locality:** Little Siak River (Sungai Siak Kecil), [Riau, eastern Sumatra, Indonesia].

*Tupaia sincepis* Lyon


= *Tupaia minor sincepis* Lyon, 1911. See Lyon (1913:115).

**Type Locality:** Pulo (Pulau) Singkep, Rhio-Linga Archipelago, (Kepulauan Lingga), [Kepulauan Riau, Sumatra, Indonesia].

*Tupaia sordida* G. S. Miller


**Type Locality:** Pulo (Pulau) Tioman, [Pahang, Malaysia].

*Tupaia tephrura* G. S. Miller


= *Tupaia everetti* Thomas, 1892. See Roberts et al. (2011:369).

**Type Locality:** Mount Apo, at the Bagobo village of Todaya, altitude 4,000 ft (1,219 m), [Davao del Sur], southern Mindanao, Philippine Islands (Philippines).

*Urogale cylindrura* Mearns


= *Tupaia everetti* Thomas, 1892. See Roberts et al. (2011:369).

**Type Locality:** Mount Apo, at the Bagobo village of Todaya, altitude 4,000 ft (1,219 m), [Davao del Sur], southern Mindanao, Philippine Islands (Philippines).

**Order Dermoptera Illiger, 1811**

**Family Cynocephalidae Simpson, 1945**

**Genus Galeopterus Thomas, 1908**

Subspecies were not recognized by Stafford (2005:110).

*Galeopithecus aoris* G. S. Miller


**Type Locality:** Pulo Aor (Pulau Aur), off Coast of Johore (Johor), [Malaysia].
Galeopithecus gracilis G. S. Miller  
Type Locality: Sirhassen Island (Pulau Serasan), South Natunas (Kepulauan Natuna Selatan), [Kepulauan Riau, Indonesia].

Galeopithecus natunae G. S. Miller  
Type Locality: Bunguran (Pulau Natuna Besar), North Natunas (Kepulauan Natuna Besar), [Kepulauan Riau, Indonesia].

Galeopithecus pumilus G. S. Miller  
Type Locality: Pulo (Ko) Adang, Butang Islands (Batang Group), [Satun, Thailand].

Galeopithecus saturatus G. S. Miller  
Type Locality: Tana Bala (Pulau Tanahbala), Batu Islands (Kepulauan Batu), [Sumatera Utara], Sumatra, [Indonesia].

Galeopithecus tuancus G. S. Miller  
Type Locality: Pulo Tuanku (Pulau Tuangku), Banjak Islands (Kepulauan Banyak), [Aceh], Sumatra, [Indonesia].

Galeopterus abbotti Lyon  
Type Locality: Pulo (Pulau) Penebangan, [Kalimantan Barat], off west coast of Borneo (Kalimantan), [Indonesia].

Galeopterus borneanus Lyon  
Type Locality: Tjantung, [FC: upper river of that name (Sungai Cantung), 8 mi (13 km) from Klumpang Bay (Teluk Klumpang)], [Kalimantan Selatan], southeastern Borneo (Kalimantan), [Indonesia].

Galeopterus chombolis Lyon  
Type Locality: Tjantung, [FC: upper river of that name (Sungai Cantung), 8 mi (13 km) from Klumpang Bay (Teluk Klumpang)], [Kalimantan Selatan], southeastern Borneo (Kalimantan), [Indonesia].

Order Primates Linnaeus, 1758  
Family Lorisidae Gray, 1821  
Genus Nycticebus E. Geoffroy, 1812

Nycticebus bancanus Lyon  
See Munds et al. (2013:46) for current use.  
Type Locality: Pulo Tuanku (Pulau Tuangku), Banjak Islands (Kepulauan Banyak), [Aceh], Sumatra, [Indonesia].

Nycticebus borneanus Lyon  
See Munds et al. (2013:46) for current use.  
Type Locality: Pulo (Pulau) Penebangan, [Kalimantan Barat], off southeast Borneo (Kalimantan), [Indonesia].

Nycticebus coucang brachycephalus Sody  
Type Locality: Pulau Tebing Tinggi (Pulau Rantau), [Riau], east of Sumatra, [Indonesia].
Remarks: Sody (1949:145) did not give a specimen number for the type, but he gave all of the locality data given above that is not in brackets, and stated that this was the *Nycticebus malai- nus* of Lyon (1908:669), in which Lyon also did not give a specimen number but referred a single specimen to *Nycticebus malaianus* and gave the locality as in the type description. USNM 144328 is the only specimen of *Nycticebus* collected by Abbott in the collection from this locality and therefore is the holotype by monotypy (ICZN, 1999: Article 73.1.2).

*Nycticebus coucang natunae* Stone and Rehn
Type Locality: Bunguran (Pulau Natuna Besar), Natuna Islands (Kepulauan Natuna Besar), [Kepulauan Riau, Indonesia].

**Family Galagidae Gray, 1825**

**Genus Galago E. Geoffroy, 1796**

*Galago moboli cocos* Heller
= *Galago cocos* Heller, 1912. See Elliot (1913:257). See Butynski et al. (2006:21) for current use of *cocos* as a species.
Holotype: USNM 181810. [Skin and skull]. Adult male. Collected 16 Dec 1911 by E. Heller. Original number 4870.
Type Locality: Mazeras, [Coast Province], British East Africa (Kenya).

*Galago sotikae* Hollister
Type Locality: Telek River, Sotik, [Rift Valley], British East Africa (Kenya).

**Family Tarsiidae Gray, 1825**

**Genus Carlito Groves and Shekelle, 2010**

*Tarsius fraterculus* G. S. Miller
Type Locality: Sevilla, [Bohol Province], Bohol [Island], [Philippines].
Remarks: The holotype was published as Philippine Bureau of Science number 94. It was cataloged as USNM 239250 on 12 Feb 1923.

**Genus Cephalopachus Swainson, 1835**

*Tarsius borneanus* Elliot
Type Locality: [FC: Batu Ampar], Landak River (Sungai Landak), [Kalimantan Barat], Borneo (Kalimantan), [Indonesia].

*Tarsius saltator* Elliot
Type Locality: [SL: Buding] [FC: Kampong], Billiton Island (Pulau Belitung), [Kepulauan Bangka Belitung, Sumatra, Indonesia].

**Genus Tarsius Storr, 1780**

*Tarsius fuscus dentatus* Miller and Hollister
Type Locality: Laboea Sore (Labuasore), north of Parigi, [Su-lawesi Tengah], Celebes (Sulawesi), [Indonesia].

*Tarsius pumilus* Miller and Hollister
Type Locality: Rano Rano (Ranorano), [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].
Family Cebidae Bonaparte, 1831

Genus Cebus Erxleben, 1777

*Cebus albifrons cesarae* Hershkovitz


Type Locality: Rio Guaimaral, a channel of the Rio Cesar, altitude 140 m, [SL: Valledupar District], Magdalena (El Cesar) Department, Colombia.

Remarks: Magdalena is still a Department, but the specimen was collected in El Cesar.

*Cebus albifrons pleei* Hershkovitz


Type Locality: Swamplands of western bank of Rio Magdalena near village of Norosi at base of northern extremity of Cordillera Central, altitude approximately 50 m, Mompos, department of Bolivar, Colombia.

*Cebus capucinus limitaneus* Hollister


Type Locality: Segovia River (Rio Coco), eastern Honduras. Restricted by Hershkovitz (1949:347) to: Cabo Gracias a Dios at mouth of the Rio Segovia, eastern border between Honduras and Nicaragua.

Genus Saguinas Hoffmannsegg, 1807

*Midas elegantulus* Slack


Holotype: USNM 5132/37870. Skin [and skull]. Collected on unknown date by W. L. Herndon. [MC: Skin probably cataloged on 18 Nov 1861; skull on 12 Mar 1900]. No original number.

Type Locality: Amazon River and its tributaries, [Brazil?].

Remarks: The holotype was not designated by number in the original publication. Slack (1862:463) implied that he had only one specimen and that it belonged to the Smithsonian Institution. The specimen listed above is the only one in the collection bearing the data given in the original publication and is therefore the holotype by monotypy (ICZN 1999: Article 73.1.2).

Genus Sapajus Kerr, 1792

*Cebus margaritae* Hollister

= *Sapajus apella margaritae* (Hollister, 1914). New name combination. See Lynch Alfarro et al. (2012:272) for use of *Sapajus*.


Type Locality: Margarita Island (Isla Margarita), [Nueva Esparta], Venezuela.

Genus Aotus Illiger, 1811

*Aotus zonalis* Goldman


Type Locality: Gatun, altitude 100 ft (30 m), Canal Zone (Colon), Panama.

Genus Alouatta Lacepede, 1799

*Alouatta palliata inconsonans* Goldman


Type Locality: Minatitlan, [FC: altitude 100 ft (30 m)], Vera Cruz (Veracruz), Mexico.

Genus Ateles E. Geoffroy, 1806

*Ateles dariensis* Goldman


Type Locality: Minatitlan, [FC: altitude 100 ft (30 m)], Vera Cruz (Veracruz), Mexico.
Ateles geoffroyi panamensis Kellogg and Goldman
Type Locality: Cerro Bruja, about 15 mi (24 km) southeast of Portobello, altitude 2,000 ft (610 m), Province of Colon, Panama.

Ateles geoffroyi yucatanensis Kellogg and Goldman
Type Locality: Puerto Morelos, altitude 100 ft (30 m), northeast coast of Quintana Roo, [Mexico].

Ateles tricolor Hollister
Type Locality: Santa Efigenia, [Kellogg and Goldman (1944:33): 8 mi (13 km) north of Tapanatepec (San Pedro Tapanatepec)], Oaxaca, Mexico.

**Family Cercopithecidae Gray, 1821**

*Genus Chlorocebus Gray, 1870*

Lasiopyga leucampax [sic.] maueri Heller
Holotype: USNM 173002. [Skin and skull]. Adult male. Collected 1 Nov 1910 by J. J. White. No original number.
Type Locality: Summit of Mau Escarpment, [SL: wagon road] between Londiana (Londiani) and Sirgoit, [Rift Valley], British East Africa (Kenya).

Lasiopyga leucampax [sic.] maueri Heller
Holotype: USNM 173002. [Skin and skull]. Adult male. Collected 1 Nov 1910 by J. J. White. No original number.
Type Locality: Summit of Mau Escarpment, [SL: wagon road] between Londiana (Londiani) and Sirgoit, [Rift Valley], British East Africa (Kenya).

Genus Chlorocebus Gray, 1870

Cercopithecus centralis luteus Elliot
Type Locality: Wambugu, [FC: altitude 5,300 ft (1,615 m)], southwest of Mount Kenia (Kenya), [Central Province], British East Africa (Kenya).

Lasiopyga pygerythra arenaria Heller
Type Locality: Changamwe, 6 mi (10 km) inland from Mombasa, [Coast Province], British East Africa (Kenya).

Lasiopyga pygerythra callida Hollister
Type Locality: South side of Lake Naivasha, [Rift Valley], British East Africa (Kenya).

Lasiopyga pygerythra contigua Hollister
Type Locality: Changamwe, 6 mi (10 km) inland from Mombasa, [Coast Province], British East Africa (Kenya).

Lasiopyga pygerythra tumbili Heller
Holotype: USNM 182229. [Skin and skull]. Adult male. Collected 1 Nov 1911 by E. Heller. Original number 2542. Type Locality: Ndi, Taita District, [Coast Province], British East Africa (Kenya).

**Genus Colobus Illiger, 1811**

*Colobus abyssinicus percivali* Heller
Type Locality: [MC: North slope] Mount Uaragess (Warges), [MC: altitude 6,000 ft (1,829 m)], [Rift Valley], British East Africa (Kenya).

*Colobus abyssinicus roosevelti* Heller
Holotype: USNM 163261. [Skin and skull]. Adult male. Collected 6 Dec 1909 by T. Roosevelt. Original number E. Heller 543, not 513 as in original description. 
Type Locality: Mau forest, near Enjoro (Njoro), [Rift Valley], British East Africa (Kenya).

*Colobus abyssinicus terrestris* Heller
Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

**Genus Erythrocebus Trouessart, 1897**

*Erythrocebus whitei* Hollister
Type Locality: Nzoia River, Guas Ngishu Plateau, [Western Province], British East Africa (Kenya).

**Genus Macaca Lacepede, 1799**

*Cynomolgus cagayanus* Mears
Type Locality: Cagayan Sulu Island, Sulu Sea, near Borneo, [Tawi Tawi Province], [SL: P. I.] (Philippines).

*Cynomolgus mantanus* Mears
Type Locality: Pantar, altitude 1,900 ft (575 m), Mindanao, Philippine Islands (Philippines).

*Cynomolgus mantanus apoensis* Mears
Type Locality: Mount Apo, altitude 6,000 ft (1,829 m), southern Mindanao, Philippine Islands (Philippines).

*Cynomolgus mantanus suluensis* Mears
Type Locality: [SL and FC: Near the] foot of Crater Lake Mountain, on the Island of Sulu (Jolo), [Sulu Province], Philippine Islands (Philippines).

*Cynopithecus lembicus* G. S. Miller
Type Locality: Pulo (Pulau) Lembeh, [Selawesi Utara], north-eastern Celebes (Selawesi), [Sea Indonesia].

*Macaca adusta* G. S. Miller
Type Locality: Champang, [FC: about 15 mi (24 km) north of Victoria Point], Tenasserim (Tanintharyi), [Burma].

*Macies broca* G. S. Miller
Type Locality: At Sapagaya River (Sungai Sapagaya), [Sabah], northeast Borneo, [Malaysia].

**Macaca insulana** G. S. Miller
Type Locality: Chance Island, Mergui Archipelago, [Tanintharyi, Burma].

**Macaca irus atriceps** Kloss
= **Macaca fascicularis atriceps** Kloss, 1919. See Napier and Napier (1967:349).
Type Locality: Koh Kram Island (Ko Khram), near Cape Liant, [Chon Buri], [SL: Inner Gulf of Siam], southeast Siam (Thailand).
Remarks: The holotype was published as CBK number 2283. It was cataloged as USNM 236622 on 17 Jul 1920.

**Macaca irus tua** Kellogg
= **Macaca fascicularis tua** Kellogg, 1944. See Napier and Napier (1967:349).
Type Locality: Poelau Maratoea (Pulau Maratua), an island off the east coast of Borneo (Kalimantan), [Kalimantan Timur, Indonesia].

**Macaca nemestrina indochinensis** Kloss
Type Locality: Lat Bua Kao (Lat Bua Khao), [Nakhon Ratchasima], east Siam (Thailand).
Remarks: The holotype was published as CBK number 2283. It was cataloged as USNM 236622 on 17 Jul 1920.

**Macacus fuscus** G. S. Miller
Type Locality: Simalur Island (Pulau Simeulue), [Aceh], northwestern Sumatra, [Indonesia].

**Macacus pagensis** G. S. Miller
= **Macaca pagensis** (G. S. Miller, 1903). See G. S. Miller (1906b:557).
Type Locality: South Pagi Island (Pulau Pagai Selatan), [Sumatera Barat], Sumatra, [Indonesia].

**Macacus phaeura** G. S. Miller
Type Locality: Pulo Bunoa (Pulau Benua), Tambelan Islands (Kepulauan Tambelan), [Kepulauan Riau, Indonesia].

**Macacus umbrosus** G. S. Miller
Type Locality: Little Nicobar Island, Nicobars, [Andaman and Nicobar Islands, India].

**Pithecus agnatus** Elliot
Type Locality: Pulo (Pulau) Tuangku, Banjak Islands (Kepulauan Banjak), [Aceh, Sumatra, Indonesia].

**Pithecus baweanus** Elliot
Type Locality: Bawean Island (Pulau Bawean), Java Sea, [Jawa Timur, Java, Indonesia].

*Pithecus lapsus* Elliot
Type Locality: [FC: Tanjung Pamuja, north coast of] Island of Banka (Pulau Bangka), [Kepulauan Bangka Belitung], east of southern Sumatra, [Indonesia].

*Pithecus lautensis* Elliot
Type Locality: Pulo (Pulau) Laut, Natuna Islands (Kepulauan Natuna Besar), [Kepulauan Riau, Indonesia].

*Pithecus lingae* Elliot
Type Locality: Linga Island (Pulau Lingga), Rhio Archipelago (Kepulauan Lingga), [Kepulauan Riau, Sumatra, Indonesia].

*Pithecus lingungensis* Elliot
Type Locality: Pulo (Pulau) Lingung, [SL and FC: near Bunguran (Pulau Natuna Besar)], Natuna Islands (Kepulauan Natuna Besar), [Kepulauan Riau, Indonesia].

*Pithecus mandibularis* Elliot
Type Locality: Sungai Sama, near Pontianak, [Kalimantan Barat], Borneo (Kalimantan), [Indonesia].
Pithecus mansalaris Lyon
Holotype: USNM 114560. Skin and skull. Adult male. Collected
10 Mar 1902 by W. L. Abbott. Original number 1639.
Type Locality: Mansalar Island (Pulau Musala), [Sumatera Utara], [FC: west coast of Sumatra], [Indonesia].

Pithecus mindorus Hollister
= Macaca fascicularis philippensis (I. Geoffroy, 1843). See
Holotype: USNM 144674. Skin and skull. Adult male. Collected
Nov 1906 by E. A. Mearns. Original number 6301.
Type Locality: Alag River, [SL and FC: Camp No. 2], [Mindoro
Oriental Province], Mindoro, [SL and FC: P. I. (Philippines)].

Pithecus pullus A. B. Howell
= Macaca fascicularis esau (Matschie, 1912). See
Holotype: USNM 252157. Skin and skull. Young adult male.
Collected on unknown date by F. T. Smith. Original number
85. [MC: Cataloged 1 Jul 1927].
Type Locality: Kuatun, Fukien (Fujian), China.

Pithecus sirhassenensis Elliot
= Macaca fascicularis philippensis (Raffles, 1821). See
Holotype: USNM 104852. [Skin and skull]. [Poole and Schantz
(1942:245): Adult] [SL: male]. Collected [SL: 8 Jun 1900 by
W. L. Abbott. Original number 468].
Type Locality: Sirhassen Island (Pulau Serasan), Natuna Islands
(Kepulauan Seras, Indonesia).

Pithecus vitis Elliot
= Macaca fascicularis aurea (E. Geoffroy, 1831). See Napier
Holotype: USNM 121810. Skin and skull. Adult male. Collected
4 Mar 1903 by W. L. Abbott. Original number 2369.
Type Locality: Pulo Pinie (Pulau Pini), Batu Islands (Kepulauan
Batu), [Sumatera Utara], Sumatra, [Indonesia].

Genus Papio Erxleben, 1777

Papio anubis lestes Heller
= Papio anubis (Lesson, 1827). Subspecies not recognized by
Groves (2005:166).
Holotype: USNM 164633. [Skin and skull]. Adult male. Collected
19 Nov 1909 by J. A. Loring. Original number 8234.
Type Locality: Ulukenia (Lukenya) Hills, Athi Plains, British East
Africa (Kenya).

Papio anubis vigilis Heller
= Papio anubis (Lesson, 1827). Subspecies not recognized by
Groves (2005:166).
Holotype: USNM 121810. Skin and skull. Adult male. Collected
4 Mar 1903 by W. L. Abbott. Original number 2369.
Type Locality: Lakiundu River, near its junction with the Northern
Guaso Nyiro, British East Africa (Kenya).

Genus Presbytis Eschscholtz, 1821

Presbies batuanus G. S. Miller
= Presbytis melalophos sumatrana (Muller and Schlegel, 1841).
Holotype: USNM 115665. Skin and skull. Adult female. Collected
Type Locality: Telok Pemudong, Pulo Bintang (Pulau Bintang),
Kepulauan Riau, Sumatra, [Indonesia].

Presbies rhionis G. S. Miller
= Presbytis siamensis rhionis (G. S. Miller, 1903). See
Holotype: USNM 83953. Skin and skull. Young adult male. Collected
Aug 1894 by E. and C. Hose. No original number.
Type Locality: Miri, Sarawak, Borneo, [Malaysia].

Presbies arwasca G. S. Miller
= Presbytis chrysomelas cruciger (Thomas, 1892). See
Holotype: USNM 112709. Skin and skull. Adult male. Collected
31 Jul 1901 by W. L. Abbott. Original number 1196.
Type Locality: Jambu Luang, east coast of Johore (Johor),
[Malaysia].

Presbies australis G. S. Miller
= Presbytis femoralis femoralis (Martin, 1838). See
Pocock (1934:901).
Holotype: USNM 112709. Skin and skull. Adult male. Collected
31 Jul 1901 by W. L. Abbott. Original number 1196.
Type Locality: Jambu Luang, east coast of Johore (Johor),
[Malaysia].

Presbies cana G. S. Miller
= Presbytis siamensis cana G. S. Miller, 1906. See
Type Locality: Pulo (Pulau) Kundur, Rhio Archipelago (Kepulauan Riau), [Kepulauan Riau, Sumatra, Indonesia].

 Presbytis canicrus G. S. Miller
Type Locality: [FC: Gunong Batu], on the Karangan River (Sungai Karangan), [Kalimantan Timur], Dutch Northeast Borneo (Kalimantan), [Indonesia].

 Presbytis carimatae G. S. Miller
Type Locality: Telok Edar, Karimata Island (Pulau Karimata), [Kalimantan Barat, Borneo (Kalimantan), Indonesia].

 Presbytis catemana Lyon
Type Locality: Along the Katemen River (Sungai Kateman), [Riau], eastern Sumatra, [Indonesia].

 Presbytis percura Lyon
Type Locality: Pulo Terutau (Ko Tarutao), west coast of Malay Peninsula, [Satun, Thailand].

 Presbytis cristata koratensis Kloss
Type Locality: Lat Bua Kao (Lat Bua Khao), [Nakon Ratchasima], East Siam (Thailand). [Pocock (1935:950): modified the locality to read = 30 mi (48 km) W. of Korat, some 100 mi (161 km) N. E. of Bangkok in S. W. Siam, not in E. Siam].
Remarks: Kloss (1919:338) identified the two specimens listed above as types in his original description and they are therefore syntypes (ICZN: 1999, Article 73.2.1). Both specimens were published under their original numbers; they were cataloged and assigned their USNM numbers on 19 Jul 1920. Note: the type locality is in fact in eastern Thailand, contrary to Pocock’s assertion.

Genus Simias Miller, 1903
Simias concolor G. S. Miller
Type Locality: [FC: Small island close to the south shore of Vekens Bay], South Pagi Island (Pulau Pagai Selatan), [Sumatera Barat], Sumatra, [Indonesia].

Genus Trachypithecus Reichenbach, 1862
Presbytis argenteus Kloss
Type Locality: Lat Bua Kao (Lat Bua Khao), [Nakon Ratchasima], East Siam (Thailand). [Pocock (1935:950): modified the locality to read = 30 mi (48 km) W. of Korat, some 100 mi (161 km) N. E. of Bangkok in S. W. Siam, not in E. Siam].
Remarks: Kloss (1919:338) identified the two specimens listed above as types in his original description and they are therefore syntypes (ICZN: 1999, Article 73.2.1). Both specimens were published under their original numbers; they were cataloged and assigned their USNM numbers on 19 Jul 1920. Note: the type locality is in fact in eastern Thailand, contrary to Pocock’s assertion.

Presbytis corvus G. S. Miller
Type Locality: Pulo Terutau (Ko Tarutao), west coast of Malay Peninsula, [Satun, Thailand].

Presbytis cristata koratensis Kloss
Type Locality: Lat Bua Kao (Lat Bua Khao), [Nakon Ratchasima], East Siam (Thailand). [Pocock (1935:950): modified the locality to read = 30 mi (48 km) W. of Korat, some 100 mi (161 km) N. E. of Bangkok in S. W. Siam, not in E. Siam].
Remarks: The holotype was published as CBK number 2136; it was cataloged and assigned USNM 236627 on 19 Jul 1920.
Note: the type locality is in fact in eastern Thailand, contrary to Pocock’s assertion.

*Presbytis vigilans* G. S. Miller
Type Locality: Sirhassen Island (Pulau Serasan), South Natuna Islands (Kepulauan Natuna Selatan), [Kepulauan Riau, Indonesia].

*Pygathrix flavicauda* Elliot
Type Locality: [MC: Prahmon], Trong (Trang), Lower Siam (Thailand).

*Pygathrix sanctorum* Elliot
Type Locality: St. Matthew (Za Det Gyi) Island, Mergui Archipelago, [Tanintharyi, Burma].

*Pygathrix ultima* Elliot
Type Locality: Mount (Bukit) Dulit, elevation 3,000 ft (914 m), [Sarawak], Borneo, [Malaysia].

*Symnopithecus (Trachypithecus) (auratus) auratus ebenus* Brandon-Jones
Holotype: USNM 240489. Flat skin, skull, [and hand and feet bones]. Adult female. Collected in 1924 by F. R. Wulsin. No original number.
Type Locality: [SL: French Indochina], possibly from the vicinity of Lai Chau or, perhaps more probably, from the Fan Si Pan mountain chain at 22°30’N 103°50’E, Vietnam.

**Family Hylobatidae Gray, 1871**

**Genus Hylobates Illiger, 1811**

*Hylobates cinereus abbotti* Kloss
Type Locality: Along the Matan River (Sungai Matan), a tributary of the Sempang (Sungai Simpang), [Kalimantan Barat], [SL: west Borneo (Kalimantan)], [Indonesia].

*Hylobates mulleri albibarbis* Lyon
Type Locality: Along the Matan River (Sungai Matan), a tributary of the Sempang (Sungai Simpang), [Kalimantan Barat], [SL: west Borneo (Kalimantan)], [Indonesia].

*Symphalangus klossii* G. S. Miller
Type Locality: [FC: Sikakap Strait (Selat Sikakap)], South Pagi Island (Pulau Pagai Selatan), [Sumatera Barat], [FC: west] Sumatra, [Indonesia].

**Order Lagomorpha Brandt, 1855**

**Family Ochotonidae Thomas, 1897**

**Genus Ochotona Link, 1795**

*Lagomys collaris* Nelson
Type Locality: Near the head of the Tanana River, about 200 mi (322 km) south of Fort Yukon, Alaska.

*Lagomys schisticeps* Merriam
Type Locality: Donner, [Placer County], California.
Remarks: The holotype was published as the Merriam collection number; it was cataloged USNM 186517 on 23 Oct 1911.

**Ochotona (Pika) alpina argentata** A. B. Howell
Type Locality: 15 mi (24 km) northwest of Ninghsia (Yinchuan), northern Kansu (Ningxia), China.

**Ochotona annectens** G. S. Miller
= **Ochotona kansus annectens** G. S. Miller, 1911. See Smith (2008:278) for current use.
Type Locality: 15 mi (24 km) northeast of Ching-Ning-Chow, altitude 6,200 ft (1,890 m), Kansu (Gansu), China.

**Ochotona cansus** Lyon
= **Ochotona cansus cansus** Lyon, 1907. See Hoffmann and Smith (2005:192).
Type Locality: Taocheo [Hoffmann and Smith (2005:186): (Lintan)], Kan-su (Gansu), China.

**Ochotona (Ochotona) erythrotis vulpina** A. B. Howell
= **Ochotona erythrotis** (Buchner, 1890).
Type Locality: 30 mi (48 km) west of Sining (Xining), Kansu (Qinghai), China.

**Ochotona fenisex bronnescens** A. H. Howell
= **Ochotona princeps fenisex** Osgood, 1913. See Hafner and Smith (2010:411) for current use.
Type Locality: Keechelus, [Kittitas County], Washington.

**Ochotona fenisex brunnescens** A. H. Howell
= **Ochotona princeps fenisex** Osgood, 1913. See Hafner and Smith (2010:411) for current use.

**Ochotona (Pika) alpina argentata** A. B. Howell
Type Locality: Chief Mountain Lake (Waterton Lake), [Glacier County], Montana.

**Ochotona nigrescens** Bailey
Type Locality: Tchegan-Burgazi Pass, Altai Mountains, near Mongolian border, south of Kosh-Agatch (Kosh-Agach), [Altayskiy], Siberia (Russia).

**Ochotona nitida** Hollister
= **Ochotona princeps moorei** M. C. Gardner
= **Ochotona princeps uinta** Hollister, 1912. See Hafner and Smith (2010:412) for current use.
Type Locality: Manti National Forest, 1 mi (1.6 km) northeast of Baldy Ranger Station, altitude 10,000 ft (3,048 m), Sanpete County, Utah.

**Ochotona saxatilis incana** A. H. Howell
Type Locality: Pecos Baldy, altitude 12,000 ft (3,658 m), [Santa Fe County], New Mexico.

**Ochotona schisticeps fuscipes** A. H. Howell
Type Locality: Brian Head, Parowan Mountains, [FC: Iron County], Utah.

**Ochotona schisticeps goldmani** A. H. Howell
N. Am. Fauna 47: 40, 23 Sep 1924.
Type Locality: Echo Crater, Snake River Desert, 20 mi (32 km) southwest of Arco, [Butte County], Idaho.

**Ochotona schisticeps jewetti** A. H. Howell
Type Locality: Head of Pine Creek, near Cornucopia, south slope of Wallowa Mountains, Baker County, Oregon.

**Ochotona uinta lembi** A. H. Howell
= **Ochotona princeps princeps** (Richardson, 1828). See Hafner and Smith (2010:410) for current use.
Type Locality: Lemhi [FC: Salmon River] Mountains, 10 mi (16 km) west of Junction, [FC: altitude about 9,000 ft (2,743 m)], Lemhi County, Idaho.

**Ochotona uinta nevadensis** A. H. Howell
= **Ochotona princeps princeps** (Richardson, 1828). See Hafner and Smith (2010:410) for current use.
Type Locality: Ruby Mountains, altitude 10,500 ft (3,200 m), southwest of Ruby P. O., [Elko County], Nevada.

**Ochotona uinta ventorum** A. H. Howell
= **Ochotona princeps princeps** (Richardson, 1828). See Hafner and Smith (2010:410) for current use.
Type Locality: [SL and FC: 4 mi (6 km) south of] Fremont Peak, [SL and FC: altitude 11,500 ft (3,505 m)], Wind River Mountains, [Fremont County], Wyoming.

### FAMILY LEPORIDAE G. FISCHER, 1817

**Genus Brachylagus Miller, 1900**

**Lepus idahoensis** Merriam
N. Am. Fauna 5: 76, 30 Jul 1891.
= **Brachylagus idahoensis** (Merriam, 1891). See Lyon (1904: 411).
Type Locality: Pahsimeroi Valley, [FC: near head Pahsimeroi River, altitude 7,000 ft (2,134 m)], [Davis (1939:363): near Goldburg, Custer County], Idaho.

**Genus Lepus Linnaeus, 1758**

**Lepus alleni tiburonensis** Townsend
= **Lepus alleni** (Merriam, 1904: 411).
Type Locality: Tiburon Island, [Gulf of California, Sonora, Mexico].
Remarks: The holotype was published as American Museum of Natural History number 31990. It was cataloged USNM 198403 on 26 Jun 1914.

**Lepus americanus dalli** Merriam
Type Locality: Nulato River, Alaska.
Remarks: The holotype was designated by the skull number USNM 7579; USNM 8996 is the skin that belongs to it.

**Lepus americanus macfarlani** Merriam
= **Lepus americanus dalli** Merriam, 1900. See Youngman (1975:57).
Remarks: The holotype was published as USNM 14467; USNM 7111 is its corresponding skin, which cannot be found.

**Lepus arcticus canus** Preble
= **Lepus arcticus arcticus** Ross, 1819. See Hoffmann and Smith (2005:196).
Type Locality: Barren grounds near Hubbart Point, about 75 mi (121 km) north of Fort Churchill, Keewatin (Manitoba), Canada.

**Lepus arcticus hubbardi** Handley
Type Locality: Near Julianehaab (Qaortoq), lat. 61°20´N, not 60°20´as in original description, Greenland.

**Lepus arcticus monstrabilis** Nelson
Holotype: USNM 248723. [Skin and skull]. Adult, sex not given. Collected 5 Sep 1926 by O. Hastrup, not by M. P. Porsild as given in original description. Original number [SL and XC: 2]. 24637-X.
Type Locality: Near Julianehaab (Qaortoq), lat. 61°20´N, not 60°20´as in original description, Greenland.

**Lepus asellus** G. S. Miller
= **Lepus californicus texianus** Waterhouse, 1848. See Hoffmann and Smith (2005:196).
Type Locality: San Luis Potosi, [San Luis Potosi], Mexico.

**Lepus aurigineus** Hollister
= **Lepus tolai aurigineus** Hollister, 1912. See G. M. Allen (1927:9).
Type Locality: Chiu Kinag (Jiujiang), northern Kiangsi (Jiangxi), China.

**Lepus bairdii** Hayden
= **Lepus americanus bairdii** Hayden, 1869. See J. A. Allen (1875:431).
Type Locality: Near Fremont Peak, summit of Wind River Mountains, [Fremont County], Wyoming.
Remarks: No type was designated in the original description, which was based on several specimens from the Wind River Mountains collected by F. V. Hayden in the first part of Jun 1860. In his revision, Nelson (1909:109) called the above-listed specimen the type, therefore designating a lectotype (ICZN, 1999: Article 74.5).

**Lepus brachyurus angustidens** Hollister

**Lepus arcticus porsildi** Nelson
Holotype: USNM 248723. [Skin and skull]. Adult, sex not given. Collected 5 Sep 1926 by O. Hastrup, not by M. P. Porsild as given in original description. Original number [SL and XC: 2]. 24637-X.
Type Locality: Near Julianehaab (Qaortoq), lat. 61°20´N, not 60°20´as in original description, Greenland.

**Lepus asellus** G. S. Miller
= **Lepus californicus texianus** Waterhouse, 1848. See Hoffmann and Smith (2005:196).
Type Locality: San Luis Potosi, [San Luis Potosi], Mexico.

**Lepus aurigineus** Hollister
= **Lepus tolai aurigineus** Hollister, 1912. See G. M. Allen (1927:9).
Type Locality: Chiu Kinag (Jiujiang), northern Kiangsi (Jiangxi), China.

**Lepus bairdii** Hayden
= **Lepus americanus bairdii** Hayden, 1869. See J. A. Allen (1875:431).
Type Locality: Near Fremont Peak, summit of Wind River Mountains, [Fremont County], Wyoming.
Remarks: No type was designated in the original description, which was based on several specimens from the Wind River Mountains collected by F. V. Hayden in the first part of Jun 1860. In his revision, Nelson (1909:109) called the above-listed specimen the type, therefore designating a lectotype (ICZN, 1999: Article 74.5).

**Lepus brachyurus angustidens** Hollister
**Lepus californicus magdalenae** Nelson  
Type Locality: Magdalena Island (Isla Santa Magdalena), [FC: 20–50 ft (6–15 m)], Lower California (Baja California Sur), Mexico.  
Remarks: Hoffmann and Smith (2005:196) used *magdalenae* as the subspecific name in error, as it is predated by *xanti*. This correction was noted on a working draft of the manuscript by R. D. Fisher and was agreed to by R. S. Hoffmann, but the correction did not make it into the final publication.  

**Lepus campestris sierrae** Merriam  
= *Lepus townsendii townsendii* Bachman, 1839. See Orr (1940:37).  
Type Locality: Hope Valley, altitude 7,800 ft (2,377 m), Alpine County, California.  

**Lepus capensis abbotti** Hollister  
Type Locality: Plains east of Mount Kilimanjaro, British East Africa (Kenya).  

**Lepus europaeus cinnamomeus** Shamel  
J. Mammal. 21: 77, 14 Feb 1940a.  
= *Lepus tolai cinnamomeus* Shamel, 1940. See Hoffmann and Smith (2005:204).  
Type Locality: Suifu (Yibin), altitude about 10,000 ft (3,048 m), about 10 mi (16 km) south of Tatsienlu (Kangding), Szechwan (Sichuan), China.  

**Lepus gaillardi** Mearns  
Type Locality: West fork of the Playas Valley, near monument Number 63, [FC: Plains between White Water and the San Luis Mountains], Mexican boundary line (Hidalgo County, New Mexico).  

**Lepus grahami** A. B. Howell  
Type Locality: Ulongkong, altitude about 10,000 ft (3,048 m), about 10 mi (16 km) south of Tatsienlu (Kangding), Szechwan (Sichuan), China.  

**Lepus kakumegae** Heller  
Type Locality: Lukosa River, Kakumega (Kakamega) Forest, [Western Province], British East Africa (Kenya).  

**Lepus klamathensis** Merriam  
Type Locality: [Nelson (1909:107): Head of Wood River, near] Fort Klamath, [Klamath County], Oregon.  
Remarks: Placement of *washingtonii* as a synonym of *virginianus* by Hoffmann and Smith (2005:195) was an error caught by R. D. Fisher while he was reviewing a working copy of their manuscript. Further, *washingtonii* has priority over *cascadensis*, used by Hoffmann and Smith (2005:195), and is the current valid subspecific name. These corrections were agreed to by R. S. Hoffmann, but they did not make it into the published version of Hoffmann and Smith (2005:195).  

**Lepus labradorius** Miller  


Type Locality: Fort Chimo (Kuujjuaq), Ungava (Nunavik), Quebec, Canada.

Remarks: These two specimens were designated as cotypes in the original description and are now syntypes (ICZN, 1999: Article 73.2.1); USNM 14149 was published as a skin only, to which skull number USNM 37138 belongs, and USNM 23132 was erroneously published as 32132.

*Lepus merriami* Mearns


Type Locality: Fort Clark, Kinney County, Texas.

Remarks: Published under the original number, 2317. Cataloged as USNM 83797 on 16 Sep 1897.

*Lepus merriami altamirae* Nelson


Type Locality: Alta Mira, [FC: altitude about 75 ft (23 m)], Tamaulipas, Mexico.

*Lepus othus* Merriam


= *Lepus othus othus* Merriam, 1900.


Type Locality: St. Michaels (St. Michael), [Norton Sound], Alaska.

*Lepus pardinos Merriam*


Type Locality: Caribou Crossing (Carcross), between Lake Bennett and Lake Tagish, Northwest Territory (Yukon), Canada.

*Lepus saliens* Osgood


Type Locality: Caribou Crossing (Carcross), between Lake Bennett and Lake Tagish, Northwest Territory (Yukon), Canada.

*Lepus swinhoei sowerbyae* Hollister


Type Locality: Wu-tsai (Yancheng), altitude 6,000 ft (1,829 m), 20 mi (32 km) west of Ning-wu-fu (Fenghuang), northern Shansi (Shanxi), China.

*Lepus texianus griseus* Mearns


Type Locality: Fort Hancock, El Paso (Hudspeth) County, Texas. Remarks: El Paso is still a valid county in Texas, but the type locality is in Hudspeth County.

*Lepus texianus wallawalla* Merriam
Collected 18 Sep 1890 by C. P. Streator. Original number 271.  
Type Locality: Touchet, Plains of Columbia, [Walla Walla County], Washington.  
Remarks: The skull number was incorrectly given as 21328 in the original description.

*Lepus tularensis* Merriam
Holotype: USNM 126334. [Skin and skull]. Adult female.  
Type Locality: Alila, in bottom of San Joaquin Valley, Tulare County, California.

*Lepus varronis* G. S. Miller
= *Lepus timidus varronis* G. S. Miller. See Miller (1911b:229).  
Type Locality: Grisons, Heinzenberg, Canton of Graubunden, Switzerland.

*Lepus washingtonii* Baird
Type Locality: Steilacoom, Pierce County, Washington.  
Remarks: Lyon and Osgood (1909:31) stated that for reasons given, and reiterated by Poole and Schantz (1942:215), this specimen must be regarded as the type, effectively designating it as the lectotype (ICZN, 1999: Article 74.5). Placement of washingtonii as a synonym of *virginianus* by Hoffmann and Smith (2005:195) was an error caught by R. D. Fisher while reviewing a working copy of their manuscript. Further, washingtonii has priority over *cascadensis* and is the current valid subspecific name. These corrections were agreed to by R. S. Hoffmann but they did not make it into the published version of Hoffmann and Smith (2005:195). The skin, USNM 280, also bears a Museum of Comparative Zoology label with the number 5500. In a letter in the type catalog file dated 22 Dec 1961 from C. O. Handley, Jr. to Barbara Lawrence, it was indicated that the skin was at the MCZ in May 1876; it was not at the USNM when Lyon and Osgood (1909:31) published their catalog but was present when Poole and Schantz (1942:215) published theirs. The circumstances surrounding the movement of the skin are unknown.

**Genus Romerolagus** Merriam, 1896

*Romerolagus nelsoni* Merriam
= *Romerolagus diazi* Ferrari-Perez, 1893. See Miller (1911b:229).  
Type Locality: [Miller and Rehn (1901:177): West slope of] Mount Popocatepetl, altitude 3,350 m or 11,000 ft, [SL: Mexico], Mexico.

**Genus Sylvilagus** Gray, 1867

*Lepus arizonae goldmani* Nelson
Type Locality: Culiacan, [FC: altitude about 175 ft (53 m)], Sinaloa, Mexico.

*Lepus arizonae major* Mearns
Type Locality: Calabasas, [Santa Cruz County], Arizona.

*Lepus arizonae minor* Mearns
Type Locality: El Paso, [El Paso County], Texas.
Lepus audubonii Baird
Type Locality: San Francisco, [San Francisco County], California.
Remarks: Lyon and Osgood (1909:288) stated that for reasons given, it seems reasonable to take this specimen as the type, effectively designating it as the lectotype (ICZN, 1999: Article 74.5). Neither skin nor skull was present at the time of Lyon and Osgood (1909:288). By the time Poole and Schantz (1942:216) published their type catalog, the skin was in the USNM and bore a Museum of Comparative Zoology label with number 5460 on it. The circumstances of its travel to the Museum of Comparative Zoology and its return are unknown. The skull was found in the general collection 21 Mar 1974 and installed in the type collection at that time.

Lepus bachmani ubericolor G. S. Miller
Type Locality: Beaverton, [Washington County], Oregon.

Lepus baileyi Merriam
Type Locality: Spring Creek, east side of Bighorn Basin, [Big Horn County], Wyoming.

Lepus brasiliensis var. gabbii J. A. Allen
Type Locality: Talamanca, Costa Rica. Restricted by Hershkovitz (1950:352) to Talamanca, Sipurio, Rio Sixaola, near the Caribbean Coast, [Limon], Costa Rica.
Remarks: Allen (1877:337) listed three specimens of his new variety. In his revision of The Rabbits of North America, Nelson (1909:259) designated USNM 11371/37794 as the type, effectively designating it the lectotype (ICZN, 1999: Article 74.5). Although Lyon and Osgood (1909:33) listed USNM 11371 and USNM 11372 as cotypes = syntypes, Nelson’s (1909:259) act takes precedent (ICZN, 1999: Article 73.2.2).

Lepus floridanus caniclunis G. S. Miller
Type Locality: Fort Clark, [Kinney County], Texas.

Lepus floridanus chiapensis Nelson
Type Locality: San Cristobal, [FC: 8,200 ft (2,499 m)], Chiapas, [SL: Mexico].

Lepus floridanus connectens Nelson
Type Locality: Chichicaxtle, Veracruz, [SL: Mexico].

Lepus floridanus sanctidiegi G. S. Miller
Type Locality: Monument No. 258, Pacific Ocean, Mexican Boundary Line, San Diego County, California.

Lepus floridanus subcinctus G. S. Miller
Type Locality: Hacienda El Molino, near Negrete, Michoacan, Mexico.
Lepus floridanus yucatanicus G. S. Miller
Type Locality: Merida, Yucatan, [Mexico].

Lepus graysoni J. A. Allen
Type Locality: Tres Marias Islands, [Nelson (1899:16): Undoubtedly from Maria Madre], [Nayarit, Mexico].
Remarks. J. A. Allen (1877:347) did not specifically designate the type by number but stated that the description was based mainly on the specimen from the Tres Marias Islands and referred a second specimen to his new taxon. In a table (J. A. Allen 1877:348) lists USNM 8318 as the specimen from the Tres Marias Islands.

Lepus insonus Nelson
Type Locality: Omilteme (Omiltemi), Guerrero, [SL: Mexico].

Lepus margaritae G. S. Miller
Type Locality: Margarita Island (Isla de Margarita), [Nueva Esparta], Venezuela.

Lepus orizabae Merriam
Type Locality: Mount Orizaba, altitude about 9,500 ft (2,896 m), Puebla, Mexico.

Lepus pinetis robustus Bailey

Lepus simplicicanus J. A. Allen
Type Locality: Brownsville, [Cameron County], Texas.

Lepus sylvaticus var. arizonae J. A. Allen
Monogr. N. Am. Rodentia, p. 332, 1877.
Type Locality: Beales Springs, 50 mi (80 km) west of Fort Whipple, [Mohave County], Arizona.
Remarks: J. A. Allen (1877:332) did not explicitly designate a type by number, but stated that the taxon was based primarily on a specimen collected by Coues on 8 Sep 1865 at the locality given above. In the list of specimens, (J. A. Allen, 1877:340), number 8439 is the only specimen that matches those criteria.

Lepus sylvaticus holzneri Mearns
Type Locality: [FC: Tanner’s Canyon at the saw mill], in the Douglas Spruce zone near the summit of the Huachuca Mountains, [Cochise County], southern Arizona.

Lepus sylvaticus rigidus Mearns
Type Locality: [MC: Near Carrizalillo Spring], near Monument No. 31, Carrizalillo Mountains, Mexican Boundary Line, [Luna County, New Mexico].

Lepus troubridgii Baird
Type Locality: Monterey County, California.
Remarks: A type was not designated in the original description. Lyon and Osgood (1909:37) give their reasons for selecting this specimen as the type = lectotype (ICZN, 1999: Article 74.5). Although Lyon and Osgood's (1909:37) selection also establishes the type locality as given above, it should be noted the USNM skull catalog reads “Monterey? Cal. Perhaps San Diego” and the skin label reads “Presidio or Monterey, near San Francisco.” Further, the skin label also adds Museum of Comparative Zoology number 1458, perhaps explaining why Lyon and Osgood (1909:37) reported the skin as lost. The skin was at the USNM at the time Poole and Schantz (1942:223) published their type catalog.

Lepus truei J. A. Allen
Holotype: USNM 6357/34878. Skin and skull. Adult, sex not given. Collected by C. Sartorius, date unknown. Original number e. [MC: Skin cataloged Apr 1863; skull 27 Nov 1890].
Type Locality: Mirador, [Veracruz], Mexico.
Remarks: In a cataloging mixup, the skull was erroneously cataloged as USNM 25953 and was published as such. It is correctly presented here as USNM 34878.

Lepus veraecrucis pacificus Nelson
Type Locality: Acapulco, [FC: near sea level], Guerrero, [SL: Mexico].

Sylvilagus aquaticus littoralis Nelson
Type Locality: Houma, [Terrebonne Parish], Louisiana.

Sylvilagus audubonii cedrophilus Nelson
Holotype: USNM 148287. [Skin and skull]. Adult female. Collected 6 Nov 1906 by V. Bailey. Original number [SL: 8595], Type Locality: Cactus Flat, [FC: altitude 5,200 ft (1,585 m)], 20 mi (32 km) north of Cliff, [Grant County], New Mexico.

Sylvilagus audubonii neomexicanus Nelson

Type Locality: [FC: Fifteen mi (24 km) south of] Fort Sumner, [De Baca County], New Mexico.

Sylvilagus audubonii vallicola Nelson

Type Locality: Yubay, [SL: 30 mi (48 km) southeast of Calama-hue], [FC: altitude 200 ft (61 m)], central Lower California (Baja California), Mexico.
Type Locality: Near summit of Manzano Mountains, altitude 10,000 ft (3,048 m), New Mexico. Restricted by Frey et al. (1997:331) to: the vicinity of Rea Ranch, 1.9 km N and 13.4 km W of Tajique, T6N, R5E, NE ¾ of NW ¾ Sec 9, N34°45′05.39″W106°25′18.04″ on the northeast side of Bosque Peak at 2,880 m elevation, Manzano Mountains, Torrence County, New Mexico.

Sylvilagus floridanus ammophilus A. H. Howell
Type Locality: Oak Lodge, on peninsula opposite Micco, [FC: Brevard County], Florida.

Sylvilagus floridanus hitchensi Mearns
Type Locality: Smiths Island (Smith Island), Northampton County, Virginia.

Sylvilagus floridanus hondurensis Goldman
Type Locality: Monte Redondo, altitude about 5,100 ft (1,555 m), about 30 mi (48 km) northwest of Tegucigalpa, Honduras.

Sylvilagus floridanus macrocorpus Diersing and Wilson
Type Locality: San Juanito Island, Tres Marias Islands, Nayarit, Mexico.

Sylvilagus mansuetus Nelson
Type Locality: San Jose Island, Gulf of California, [Baja California Sur], Mexico.

Sylvilagus obscurus Chapman, Cramer, Dippenaar, and Robinson
Type Locality: Dolly Sods Scenic Area, Grant County, West Virginia.

Sylvilagus palustris hefneri Lazell
Type Locality: S. Lower Sugarloaf Key, Monroe County, Florida.
**Order Erinaceomorpha Gregory, 1910**

**Family Erinaceidae G. Fischer, 1814**

**Genus Atelerix Pomel, 1848**

*Erinaceus sotikae* Heller


Type Locality: Guaso Nyiro, Sotik District, [Rift Valley], British East Africa (Kenya).

**Genus Echinosorex Blainville, 1838**

*Gymnura gymnura minor* Lyon


Type Locality: Khow Nok Ram (Khao Nok Ra), altitude 2,000 ft (610 m), Trong (Trang), Lower Siam (Thailand).

**Genus Podogymnura Mearns, 1905**

*Podogymnura truei* Mearns


Type Locality: Mount Apo, at 6,000 ft (1,829 m), [Davao del Sur], southern Mindanao, Philippine Islands (Philippines).

**Order Soricomorpha Gregory, 1910**

**Family Nesophontidae Anthony, 1916**

**Genus Nesophontes Anthony, 1916**

*Nesophontes hypomimus* G. S. Miller


Holotype: USNM 253077. This specimen was transferred to the NMMNH Paleobiology Department, date unknown.

*Nesophontes paramimus* G. S. Miller


Holotype: USNM 253063. This specimen was transferred to the NMMNH Paleobiology Department, date unknown.

*Nesophontes zamimus* G. S. Miller


Holotype: USNM 252090. This specimen was transferred to the NMMNH Paleobiology Department, date unknown.

**Family Soricidae G. Fischer, 1814**

**Genus Blarina Gray, 1838**

*Blarina angusticeps* Baird


Type Locality: Burlington, [Chittenden County], Vermont.

*Blarina brevicauda knoxjonesi* Webster


Not listed by Hutterer (2005:269). See Webster et al. (2011:36) for current use.


Type Locality: [SL: Dow Road], Carolina Beach, New Hanover County, North Carolina, 34°01′32″N, 77°54′36″W.

*Blarina brevicauda shermani* Hamilton


= *Blarina shermani* Hamilton, 1955. See Benedict et al. (2006:1) for current use.


Type Locality: Two mi (3.2 km) North Fort Myers, Lee County, Florida.

*Blarina carolinensis peninsulae* Merriam


See Benedict et al. (2006:1) for current use.


Type Locality: [FC: Fork of] Miami River, [FC: 5 mi (8 km) West of Miami], Dade (Miami-Dade) County, Florida.

*Blarina telmalestes* Merriam


= *Blarina brevicauda talpoides* (Gapper, 1830). See Webster et al. (2011:37) for current use.


Type Locality: Lake Drummond, Dismal Swamp, [Chesapeake/Suffolk City], Virginia.
**Sorex carolinensis** Bachman
= *Blarina carolinensis carolinensis* (Bachman, 1837). See Baird (1857:45).
Type Locality: Beside Awendaw Creek, 3.2 km E Awendaw Post Office, Charleston County, South Carolina.

**Genus Crocidura Wagler, 1832**

**Crocidura agadiri** Vesmanis and Vesmanis
Type Locality: 15 km No. (NE) Tiznit, Agadir Provinz (Province), Marakko (Morocco), 29º49′ N, 9º39′ W.

**Crocidura alchemillae** Heller
*African Game Trails* p. 480, 1910b.
Type Locality: 15 km No. (NE) Tiznit, Agadir Provinz (Province), Marakko (Morocco), 29º49′ N, 9º39′ W.

**Crocidura aleksandrisi** Vesmanis
Type Locality: 5 km W Tocra, 32º31′ N, 20º34′ E, Cyrenaica, [SL: Libya].

**Crocidura alpina** Heller
Type Locality: West slope of Mount Kenia (Kenya), altitude 10,000 ft (3,048 m), British East Africa (Kenya).

**Crocidura andamanensis** G. S. Miller
Type Locality: MacPherson Strait, South Andaman Island, [Andaman and Nicobar Islands, India].

**Crocidura beatus** G. S. Miller
Type Locality: Summit of Mount Bliss, altitude 5,750 ft (1,753 m), Mindanao, [SL: P. I. (Philippines)].

**Crocidura bolivari tamrinsensis** Vesmanis and Vesmanis
Type Locality: 10 km N Tamri, 30º21′ N, 9º49′ W (Schmidt et al. 2008:34: 30º46′ N, 9º50′ W), Agadir Provinz (Province), Marakko (Morocco).

**Crocidura caudata** G. S. Miller
= *Crocidura sicula sicula* G. S. Miller, 1901. See Vogel et al. (1989:246).
Type Locality: Palermo, Sicily (Sicilia), [Italy].

**Crocidura chaouianensis** Vesmanis and Vesmanis
Type Locality: 3 km N Settat, 33º02′ N, 7º46′ W (Schmidt et al. 2008:34; 33º02′ N, 07º37′ W), Settat Provinz (Province), Marokko (Morocco).

**Crocidura daphnia** Hollister
= *Crocidura olivieri nyansae* Neumann, 1900. See Hutterer (2005:244).
Type Locality: Gondokoro, [Central Equatoria], Uganda (South Sudan).

**Crocidura elongata** Miller and Hollister
Type Locality: Temboan, southwest from Tondano Lake, [Sulawesi Utara], northeastern Celebes (Sulawesi), [Indonesia].
**Crocidura essaouiranensis** Vesmanis and Vesmanis
Type Locality: 5 km no. (NE) Essaouira, 31º31′N, 9º46′W, Safi Provinz (Province), Marokko (Morocco).

**Crocidura gouluminensis** Vesmanis and Vesmanis
Type Locality: 28 km SW Goulimine, 28º46′N, 10º14′W, Agadir Provinz (Province), Marokko (Morocco).

**Crocidura grandis** G. S. Miller
Type Locality: [FC: McMurray Flats], Grand Malindang Mountain, altitude 6,100 ft (1,859 m), [Misamis Occidental Province], Mindanao, [SL: P. I. (Philippines)].

**Crocidura grisea** A. B. Howell
Type Locality: 75 mi (121 km) southwest of Yen-ping-fu (Nan-ping), Fukien (Fujian), China.

**Crocidura grisescens** A. B. Howell
J. Mammal. 9: 60, 9 Feb 1928d.
Type Locality: Summit of Mount Lololokui altitude 6,000 ft (1,829 m), northern Guaso Nyiro district, British East Africa (Kenya).

**Crocidura horsfieldi kurodai** Jameson and Jones
Type Locality: Linkou, [SL: 25º05′N, 121º23′E], Taipei Hsien, Taiwan.

**Crocidura lea** Miller and Hollister
Type Locality: Temboan, [Sulawesi Utara], northeastern Celebes (Sulawesi), [Indonesia].

**Crocidura lepida** Lyon
Type Locality: Kateman River, [Riau], eastern Sumatra, [Indonesia].

**Crocidura leucita** Miller and Hollister
Holotype: USNM 219450. Skin and skull. Adult female. Collected 13 Feb 1918 by H. C. Raven. Original number 3521. Type Locality: Pinedapa, [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].

*Crocidura lignicolor* G. S. Miller

Holotype: USNM 62180. Skin [and skull]. Adult female. Collected 10 Jan 1894 by [MC: W. L. Abbott]. No original number.

Type Locality: Jungles east of Maralbashi near the Yarkand River, eastern Turkestan (Xinjiang, China).

*Crocidura littoralis* Heller


Type Locality: Butiaba, east shore of Albert Nyanza, [Bulisa], Uganda.

*Crocidura longipes* Hutterer and Happold


Type Locality: Dada, 11°34′N, 4°29′E, [SL and FC: Northern Region (Kebbi)], western Nigeria.

*Crocidura lutrella* Heller


Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

*Crocidura lutreola* Heller

Holotype: USNM 181818. [Skin and skull]. Adult female. Collected 6 Nov 1911 by E. Heller. Original number 4635.

Type Locality: [SL: Summit] Mount Mbololo, Taiba Hills, altitude 5,000 ft (1,524 m), [Coast Province], British East Africa (Kenya).

*Crocidura maanjae* Heller


Type Locality: Great Nicobar Island, [Andaman and Nicobar Islands, India].

*Crocidura mesatanensis* Vesmanis and Vesmanis


Type Locality: 10 km S Oued Zem, 32°46′N, 6°35′W, Khouribga Prov. (Province), Marakko (Morocco).

*Crocidura mimula* G. S. Miller

See Bannikova et al. (2006:118) for current use.


Type Locality: Zuberwangen, St. (Sankt) Gallen, Switzerland.

*Crocidura mindorus* G. S. Miller


Type Locality: [FC: Posey Flats], summit main ridge of Mount Halcon, altitude 6,300 ft (1,920 m), [Oriental Mindoro], Mindoro, [Philippines].

*Crocidura mutesae* Heller


Type Locality: Kampala, [Kampala], Uganda.

*Crocidura nicobarica* G. S. Miller


Type Locality: Great Nicobar Island, [Andaman and Nicobar Islands, India].

*Crocidura nigripes* Miller and Hollister

= *Crocidura nigripes nigripes* Miller and Hollister, 1921.


Type Locality: Temboan, southwest from Tondano Lake, [Sulawesi Utara], northeastern Celebes (Sulawesi), [Indonesia].

*Crocidura nigripes lipara* Miller and Hollister


Type Locality: Gimpoe (Gimpu), [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].
Crocidura nilotica Heller
Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

Crocidura parvipes nisa Hollister
Type Locality: Kibabe, Kisumu, [Nyanza], British East Africa (Kenya).

Crocidura pergrisea G. S. Miller
Type Locality: Skoro Loomba, [FC: valley to Shigar], altitude 9,500 ft (2,896 m), Shigar, Baltistan (Gilgit-Baltistan), [Pakistan].

Crocidura planiceps Heller
Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

Crocidura pullata G. S. Miller
Type Locality: [FC: Saagam], Kotihar [FC: Valley], altitude 7,000 ft (2,134 m), [Jammu and Kashmir, India].

Crocidura raineyi Heller
Holotype: USNM 181817. [Skin and skull]. Adult male. Collected Sep 1911 by E. Heller. Original number 4195.
Type Locality: [SL: North Creek], Mount Garguez (Warges), Mathews Range, altitude 6,000 ft (1,829 m), [Rift Valley], British East Africa (Kenya).

Crocidura rhoditis Miller and Hollister
Type Locality: Temboan, [Sulawesi Utara], northeastern Celebes (Sulawesi), [Indonesia].

Crocidura russula bosletti Jameson and Jones
Type Locality: 10 mi (16 km) W Taichung, Taichung Hsien, Taiwan.

Crocidura shantungensis G. S. Miller
= Crocidura schantungensis schantungensis G. S. Miller, 1901.
Type Locality: Chimeh, Shantung (Shandong), northern China.

Crocidura simiolus G. S. Miller
Type Locality: Kisumu, [Nyanza], British East Africa (Kenya).

Crocidura suahelae Heller
= Crocidura siculo siculo G. S. Miller, 1901.
Type Locality: Palermo, Sicily (Sicilia), [Italy].

Crocidura sururae Heller
Holotype: USNM 181815. [Skin and skull]. Adult male. Collected 17 Dec 1911 by E. Heller. Original number 4875.
Type Locality: Mazeras, [Coast Province], British East Africa (Kenya).

Crocidura tarfayaensis Vesmanis and Vesmanis
Type Locality: 10 mi S Tarfaya, 27º50,12º30W (Schmidt et al. 2008:34: 27º53´N, 12º52´W), Tarfaya Provinz (Province), Morokko (Morocco).

Crocidura tiznitensis Vesmanis and Vesmanis

Type Locality: 15 km no. (NE) Tiznit, 25º49’N, 9º39’W, Agadir Provinz (Province), Marokko (Morocco).

*Crocidura* turba lakiundae *Heller*

Type Locality: 5 km N Ben-Slimane, 33º39’N, 7º08’W, Settat, Provinz (Province), Marokko (Morocco).

*Heliosorex* roosevelti *Heller*
= *Crocidura roosevelti* de Winton, 1897. See Hutterer (1918:68).
Holotype: USNM 164643. [Skin and skull]. Adult male, not female as in original description. Collected 21 Jan 1910 by J. A. Loring. Original number 8812.

Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

*Myosorex* muricauda *G. S. Miller*


Type Locality: Mount Coffee, [Montserrat], Liberia, Africa.

**Genus Cryptotis** Pomel, 1848

*Blarina* alticola *Merriam*


Type Locality: Lakiundu River, near its junction with the Northern Guaso Nyiro River, British East Africa (Kenya).

Remarks: Baird (1857:55) listed four specimens. Lyon and Osgood designated USNM 2159 as the type = lectotype (ICZN, 1999: Article 74.5) because it was figured.

*Blarina* exilipes *Baird*
= *Cryptotis parvus parvus* (Say, 1823). See Merriam (1895a:17).


Type Locality: Vicinity of Matamoras (Matamoros), [Tamaulipas], Mexico.

Remarks: No type was designated in the original description. Baird (1857:55) listed eight specimens. Lyon and Osgood designated USNM 2157 as the type = lectotype (ICZN, 1999: Article 74.5) because it was figured.

*Blarina* exilipes *Baird*
= *Cryptotis parvus parvus* (Say, 1823). See Merriam (1895a:17).

Syntypes: USNM 639/1790. Skin [cannot be found] and skull. Male, age not given. Obtained from G. Engleman, date unknown. [MC: Cataloged 19 Apr 1855. Original number 42].

USNM 2166/3109. Skin and skull. Age and sex not given. Obtained from R. Kennicott, date unknown. [MC: Skin cataloged 17 Feb 1858; skull Feb or Mar 1857]. No original number.

Type Locality: Saint Louis, [Saint Louis City], Missouri and DeKalb County, Illinois.

Remarks: No type was designated in the original description. Baird (1857:53) based this taxon soley on the two specimens listed above. They are therefore syntypes (ICZN, 1999: Article 73.2) and the type locality encompasses both localities (ICZN, 1999: Article 73.2.3).

*Blarina* floridana *Merriam*

Holotype: USNM 16510/3109. Skin and skull. Age and sex not given. Collected by B. L. C. Wailes, date unknown. [MC: Cataloged 14 Feb 1857].

Remarks: No type was designated in the original description. Baird (1857:55) listed four specimens. Lyon and Osgood designated USNM 2157 as the type = lectotype (ICZN, 1999: Article 74.5) because it was figured.

*Blarina* floridana *Merriam*
Type Locality: Mount Zempoaltepec, altitude 10,500 ft (3,200 m) [FC: 8,200 ft (2,499 m)], Oaxaca, Mexico.

**Blarina magna** Merriam
Type Locality: Totontepec, altitude 6,800 ft (2,073 m), Oaxaca, [SL: Mexico].

**Blarina mayensis** Merriam
= *Cryptotis mayensis* (Merriam, 1901). See G. S. Miller (1912b:26).
Type Locality: Maya ruin at Chichenitza (Chichen Itza), Yucatan, [SL: Mexico].

**Blarina (Soriciscus) mexicana** Coues
= *Cryptotis mexicanus* (Coues, 1877). See G. S. Miller (1911d:221).
Holotype: USNM 3525/4438. Skin and skull. Age and sex not given. Collected by R. Montes de Oca, date not given. [MC: Skin cataloged 18 Mar 1859; skull Sep 1861]. No original number.
Type Locality: Xalapa, [Veracruz], Mexico.

**Blarina mexicana goldmani** Merriam
Type Locality: Mountains near Chilpancingo, altitude 10,000 ft (3,048 m) [FC: 9,600 ft (2,926 m)], Guerrero, Mexico.

**Blarina mexicana machetes** Merriam
Type Locality: Mountains near Ozolotepec, altitude 10,000 ft (3,048 m), Oaxaca, [SL: Mexico].

**Blarina mexicana peregrina** Merriam
Type Locality: Mountains 15 mi (24 km) west of Oaxaca, altitude 9,500 ft (2,896 m), [SL: Oaxaca], Mexico.

**Blarina nelsoni** Merriam
Type Locality: Volcano of Tuxtla (Volcan Tuxtla), altitude 4,800 ft (1,463 m), Veracruz, Mexico.

**Blarina obscura** Merriam
Type Locality: Tulancingo, altitude 8,500 ft (2,591 m), Hidalgo, Mexico.

**Blarina soricina** Merriam
Type Locality: Tlalpam, Valley of Mexico, [Miller and Rehn (1901:247): 10 mi (16 km) south of the city of Mexico], altitude 7,600 ft (2,317 m), [SL and FC: DF (Distrito Federal)], [Mexico].

**Cryptotis frontalis** G. S. Miller
Holotype: USNM 123429. In alcohol, [skull removed]. Adult male. Collected about 1870 by F. Sumichrast. No original number.
Type Locality: Near Tehuantepec City, [Oaxaca], Mexico.

**Cryptotis goodwini** Jackson
Type Locality: Calel, altitude 10,200 ft (3,109 m), [Quezaltenango], Guatemala.
**Cryptotis gracilis** G. S. Miller  
Holotype: USNM 12236/38471. Skin and skull. Adult, sex not given. Collected on unknown date by W. M. Gabb. [MC: Skin cataloged 19 Nov 1874; skull between 21 Mar and 31 May 1911]. No original number.  
Type Locality: Head of Lari River, near base of Pico Blanco, altitude about 6,000 ft (1,829 m), Talamanca, [Puntarenas], Costa Rica.

**Cryptotis griseoventris** Jackson  
Type Locality: San Cristobal, altitude 9,500 ft (2,896 m), Chiapas, Mexico.

**Cryptotis guerrerensis** Jackson  
Type Locality: Omilteme (Omiltemi), altitude about 8,000 ft (2,438 m), Guerrero, Mexico.

**Cryptotis jacksoni** Goodwin  
Type Locality: [XC: Estancia Jimenez], Volcan Irazu, [SL: Costa Rica].

**Cryptotis lacertosus** Woodman  
Type Locality: 5 km SW San Mateo Ixtatan, 3,110 m, [FC: 15°48.604'N, 91°30.326'W], Huehuetenango, Guatemala.

**Cryptotis mam** Woodman  
Type Locality: Above Todos Santos Cuchumatán, approximately 10,000 ft (3,048 m), approximately 15°36’N, 91°37’W, Huehuetenango, Guatemala.

**Cryptotis merus** Goldman  
Holotype: USNM 178976. [Skin and skull]. Adult male. Collected 2 May 1912 by E. A. Goldman. Original number 21669.  
Type Locality: Near head of Rio Limon, Mount Pirri, altitude 4,500 ft (1,372 m), [Darien], eastern Panama.

**Cryptotis nigrescens merriami** Choate  
Type Locality: Jacaltenango, 5,400 ft (1,646 m), Huehuetenango, Guatemala.

**Cryptotis oreoryctes** Woodman  
Type Locality: Chelema Cloud Forrest Reserve, [SL: Yaliju Mountain], 2,090 m.a.m.s.l. (m), about 15°23’N, 90°04’W, Alta Verapaz, Guatemala.

**Cryptotis pergracilis macer** G. S. Miller  
Type Locality: Near Guanajuato city, [Guanajuato], Mexico.

**Cryptotis pergracilis nayaritensis** Jackson  
Type Locality: Tepic, altitude 3,000 ft (914 m), Nayarit, Mexico.

**Cryptotis pergracilis pueblensis** Jackson  
Type Locality: Huachinango, altitude 5,000 ft (1,524 m), Puebla, Mexico.

**Cryptotis tamensis** Woodman  

Type Locality: Near Paramo de Tama, 7°27′N, 72°26′W, 2,415 m, 35 km S, 22 km W of San Cristobal, reported as 41 km SW San Cristobal and 12 km SSE Las Delicias by Handley (1976:64), Buena Vista, State of Tachira, Venezuela.

_Cryptotis zeteki_ Setzer


Type Locality: Cerro Punta, 6,500 ft (1,829 m), lat. 8º42′N, long. 82º48′W, Chiriqui Province, Republic of Panama.

_Sorex cinereus_ Bachman

Syntype: USNM 94/1771. Skin and skull. Age and sex not given. Collected by W. Wesner, date unknown. [MC: Skin cataloged 26 Apr 1852; skull 18 Apr 1855]. No original number.

Type Locality: Goose Creek, about 22 mi (35 km) from Charleston. Restricted by Handley and Varn (1994:379) to Goose Creek, about 22 mi (35 km) NNW by road of Charleston, Berkeley County, South Carolina.

Remarks: Bachman (1837) based his description on six specimens from the type locality. According to Handley and Varn (1994:397) three of the six specimens are known to exist; two are at the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University), although Koopman (1976:3) did not list them; and the one given above, which was received in exchange with the Academy. [MC: The skin, USNM 94, was transferred to the University of Michigan 1 Apr 1859], but Handley could not find it there on 31 May 1954 (Handley and Varn, 1994:397).

_Genus Megasorex_ Hibbard, 1950

_Notiosorex gigas_ Merriam


Type Locality: Mountains at Milpillas, [FC: altitude 3,800 ft (1,158 m)], near San Sebastian, Jalisco, Mexico.

_Genus Neomys_ Kaup, 1829

_Neomys fodiens minor_ G. S. Miller


Type Locality: Montrejeau, in the foothills of Pyrenees, Haut Pyrenees (Haute-Garonne Department), [Mid-Pyrenees], France.

_Genus Notiosorex_ Coues, 1877

_Sorex_ (Notiosorex) _crawfordi_ Coues
= _Notiosorex crawfordi_ (Coues, 1877). See Merriam (1895a: 32).


Type Locality: Fort Bliss or vicinity, [Miller and Rehn (1901:244): about 2 mi (3.2 km) above El Paso, El Paso County], New Mexico (Texas).

_Sorex_ (Notiosorex) _evotis_ Coues


Type Locality: [SL: Rio] Mazatlan, [Sinaloa], Mexico.

_Genus Sorex_ Linnaeus, 1758

_Atoiphyax bendiri_ Merriam
= _Sorex bendiri_ bendiri (Merriam, 1884). See Dobson (1890:fig. 17).

Holotype: USNM 186442. In alcohol [currently a skin, skull, and partial skeleton]. Adult male. Collected 1 Aug 1882 by C. E. Bendire. No original number. [SL: MCC 496/1200].

Type Locality: About 1 mi (1.6 km) from Williamson’s River, some 18 mi (29 km) southeast of Fort Klamath, [Klamath County], Oregon.

Remarks: Type not designated by number in original description, but it was expressly stated that the description was based on a single specimen. The specimen listed above is the only one in the collection matching the data given in the original description and therefore is the holotype by monotypy (ICZN, 1999: Article 73.1.2). Originally part of the Merriam Collection, this specimen was cataloged and assigned USNM 186442 on 13 Oct 1911.

_Microsorex hoyi intervectus_ Jackson
Type Locality: Lakewood, Oconto County, Wisconsin.

**Microsorex boyi montanus** Brown

Type Locality: Edge of Trail’s Divide Pond, [SL: 10,000 ft (3,048 m)], 1/4 mi (0.4 km) S of University of Wyoming Summer Science Camp on State Highway 130, [Long (1972:190): 6 mi (10 km) W] Centennial, [SL: Medicine Bow Mountains], Albany County, Wyoming.
Remarks: Published as University of Wyoming Museum of Zoology specimen number K-307.

**Microsorex boyi washingtoni** Jackson

Type Locality: Loon Lake, Stevens County, Washington.

**Microsorex winnemana** Preble

Type Locality: Bank of Potomac River near Stubblefield Falls, [SL: 4 mi (6 km) below Great Falls], Fairfax County, Virginia.

**Neosorex albibarbis** Cope

= *Sorex albibarbis albibarbis* (Cope, 1862). See Hope et al. (2014:730) for current use.
Type Locality: Profile Lake, Franconia Mountains, [Grafton County], New Hampshire.
Remarks: No type was designated in original description. Cope (1862) had two specimens, both from the locality given above. The whereabouts of the second specimen is unknown. The alcoholic part of this specimen was destroyed and its skeleton preserved on 6 Sep 1956, so it is now a skull and skeleton.

**Neosorex navigator** Baird

Type Locality: Mammoth Pass, altitude 10,000 ft (3,048 m), head of Owens River, east slope of the Sierra Nevada, California. Restricted by Howell (1923:266) to immediate vicinity of Mammoth, 8,000 ft (2,438 m), Mono County, California.
= Sorex araneus Linnaeus, 1758. Subspecies of S. araneus not recognized by Hutterer (2005:283).
Type Locality: Near Meiringen, altitude 2,100 m, [Bern], Switzerland.

Sorex araneus bergensis G. S. Miller
= Sorex araneus Linnaeus, 1758. Subspecies of S. araneus not recognized by Hutterer (2005:283).
Type Locality: [FC: Ystaas, about 1,000 ft (305 m)], Gravin (Granvin), Hardanger, [Hordaland], Norway.

Sorex araneus euronotus G. S. Miller
Type Locality: Montrejeau, in foothills of Pyrenees, Haute Pyrenees (Hautes-Pyrenees), [Midi-Pyrenees], France.

Sorex arcticus laricorum Jackson
Type Locality: Elk River, Sherburne County, Minnesota.

Sorex bairdi Merriam
Type Locality: Sawtooth or Alturas Lake, [G. S. Miller (1912b: 14): east base of] Sawtooth Mountains, altitude about 2,200 m (7,200 ft), [Blaine County], Idaho.

Sorex durangae Jackson
Type Locality: El Salto, [FC: altitude 8,400 ft (2,560 m)], Durango, Mexico.

Sorex emarginatus Jackson
Type Locality: Sierra Madre near Bolanos, altitude 7,600 ft (2,317 m), Jalisco, Mexico.

**Sorex (Microsorex) eximius** Osgood


= **Sorex hoyi eximius** Osgood, 1901. See Diersing (1980:89).


Type Locality: Tyonek, Cook Inlet, Alaska.

**Sorex fimbripes** Bachman


= **Sorex cinereus cinereus** Kerr, 1792. See Jackson (1928:40).

Holotype: USNM 84556. [In alcohol, skull removed]. Age and sex not given. Collected on unknown date by W. R. Johnston. No original number. [MC: Cataloged 29 Apr 1898].

Type Locality: On the high table-land on a branch of Drury's (Drury) Run, a tributary of the west bank (branch?) of the Susquehanna River, [Clinton County, Pennsylvania].

Remarks: A type specimen was not designated by number in the original description. However, the taxon was based on a single specimen and for many reasons Lyon and Osgood (1909:243) and Poole and Schantz (1942:185) considered USNM 84556 to be that specimen; holotype fixed by monotypy (ICZN, 1999: Article 73.1.3). According to Coues (1877:641), Baird examined Bachman’s type preserved in the Philadelphia Academy. How it ended up in the USNM is unknown. Koopman (1976) makes no mention of it being in the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University).

**Sorex fisheri** Merriam


= **Sorex longirostris fisheri** Merriam, 1895. See Jackson (1928:87).


Type Locality: Lake Drummond, Dismal Swamp, [Chesapeake/Suffolk City], Virginia.

**Sorex fontinalis** Hollister


= **Sorex cinereus fontinalis** Hollister, 1911. See Poole (1937:96).

Holotype: USNM 85439. Skin and skull. Old adult female. Collected 6 Nov 1898 by G. S. Miller, Jr. No original number.

Type Locality: Cold Springs Swamp, near Beltsville, [Prince Georges County], Maryland.

**Sorex fumeus umbrosus** Jackson


Type Locality: James River, Antigonish County, Nova Scotia, [Canada].

**Sorex glacialis** Merriam


Type Locality: Point Gustavus, on east side of entrance to Glacier Bay, Alaska.

**Sorex godmani** Merriam


= **Sorex salvini salvini** Merriam, 1897. See Woodman at al. (2012:214) for current use.


Type Locality: Volcano (Volcan) Santa Maria, altitude 9,000 ft (2,743 m), Quezaltenango, Guatemala.

**Sorex haydeni** Baird


Lectotype: USNM 1685 as designated by Lyon and Osgood (1909:244). In alcohol, skull not removed. Male, age not given. Collected by F. V. Hayden. No original number.

Type Locality: Fort Union, [Lyon and Osgood (1909:244): near Fort Buford], [Williams County], Nebraska (North Dakota).

Remarks: A type was not designated by number in original description. Lyon and Osgood (1909:244) selected the specimen given above as the type = lectotype (ICZN, 1999: Article 74.5).

**Sorex hoyi** Baird


Type Locality: Racine, [Racine County], Wisconsin.

Remarks: Type not designated by number in original description. Baird had two specimens and Lyon and Osgood (1909:244) considered one of them, USNM 1688, as the type. However, Preble (1910:203) determined USNM 1688 to be a specimen of *Sorex cinereus* and regarded the skull on which Baird based his description, USNM 1783, as the type. In his revision, Jackson (1928:203) formally designated the skin and skull as lectotype.

**Sorex idahoensis** Merriam

N. Am. Fauna 5: 32, 30 Jul 1891.

= **Sorex cinereus cinereus** Kerr, 1792. Unassigned to subspecies by Hutterer (2005:286), but see Jackson (1928:41) who assigned it to *S. c. cinereus*, as did Hall (1981:28).
Type Locality: Timber Creek, altitude about 2,500 m (8,200 ft), [FC: 10 mi (16 km) west of Junction], Salmon River (Lemhi) Mountains, [Lemhi County], Idaho.

*Sorex lagunae* Nelson and Goldman
Type Locality: La Laguna, altitude 5,500 ft (1,676 m), Sierra Laguna (Sierra de la Laguna), Lower California (Baja California Sur), Mexico.

*Sorex leucogenys* Osgood
= *Sorex merriami* Dobson, 1890. See Benson and Bond (1939:348) who considered leucogenys a subspecies of *S. merriami*.
Type Locality: Mouth of the canyon of Beaver River, about 3 mi (5 km) east of Beaver [FC: and 1 mi (1.6 km) east of Fort Cameron, Beaver River], Beaver County, Utah.

*Sorex longicauda elassodon* Osgood
N. Am. Fauna 21: 35, 26 Sep 1901b.
Type Locality: Cumshewa Inlet, [Poole and Schantz (1942:87): near old Indian Village of Clew], Moresby Island, Queen Charlotte Islands, British Columbia, [Canada].

*Sorex longicauda prevostensis* Osgood
N. Am. Fauna 21: 35, 26 Sep 1901b.
Type Locality: [FC: North end of] Prevost Island, [FC: on coast of Houston Stewart Channel], Queen Charlotte Islands, British Columbia, [Canada].

*Sorex macrodon* Merriam
N. Am. Fauna 10: 82, 31 Dec 1895b.

Type Locality: Orizaba, altitude 4,200 ft (1,280 m), Vera Cruz (Veracruz), Mexico.

*Sorex macropygmaeus* G. S. Miller
Type Locality: Petropavlski (Petropavlovsk Kamchatskiy), Kamchatka (Kamchatskiy Kray), [Russia].

*Sorex merriamii* Dobson
Monogr. Insectivora, pt. 3, fasc. 1, pl. 23, fig. 6, and explanation, May 1890.
Holotype: USNM 186441. [In alcohol, skull removed]. Adult female. Collected [SL: 26 Dec 1884 by C. E. Bendire]. Original number [MC and MCC: 635].
Type Locality: [Merriam (1895b:88): On the Little Bighorn River, about 1.5 mi (2.4 km) above] Fort Custer, [Big Horn County], Montana.
Remarks: Published as MCC 1001 to which skull number 4861 belonged. Cataloged as USNM 186441 on 13 Oct 1911.

*Sorex milleri* Jackson
Type Locality: Madera Camp, altitude 8,000 ft (2,438 m), Carmen Mountains, Coahuila, Mexico.
Remarks: [SL: Donated by the Dallas Museum of Natural History].

*Sorex montereyensis* Merriam
= *Sorex troubridgii montereyensis* Merriam. See Jackson (1922:264).
Type Locality: Monterey, [Monterey County], California.

*Sorex monticolus* Merriam
= *Sorex monticola monticola* Merriam. See Jackson (1922:264).
Type Locality: [FC: Near Spring Creek], altitude 3,500 m = 11,500 ft, San Francisco Mountain, [Coconino County], Arizona.
Sorex navigator alaskanus Merriam
= Sorex alaskanus Merriam. See Jackson (1926:58).
Type Locality: Point Gustavus, Glacier Bay, Alaska.

Sorex nevadensis Merriam
Type Locality: Reese River, [Miller and Kellogg (1955:20): at about 6,000 ft (1,829 m)], [FC: at a line between Lander and Nye Counties], Nevada.

Sorex obscurus alascensis Merriam
Holotype: USNM 73539. [Skin and skull]. Young adult female. Collected 10 Jul 1895 by C. P. Streator. Original number [SL: 4676].
Type Locality: Yakutat Bay, Alaska.

Sorex obscurus isolatus Jackson
Type Locality: Mouth of Millstone Creek, Nanaimo, Vancouver Island, British Columbia, [Canada].

Sorex obscurus longicauda Merriam
Holotype: USNM 74711. [Skin and skull]. Young adult male. Collected 9 Sep 1895 by C. P. Streator. Original number 4891.
Type Locality: Wrangel (Wrangell), [FC: Wrangel (Wrangell) Island], southeast Alaska.

Sorex obscurus neomexicanus Bailey
Holotype: USNM 100440. [Skin and skull]. Old adult male. Collected 29 May 1900 by V. Bailey. Original number 56561.
Type Locality: Cloudcroft, altitude 9,000 ft (2,743 m) in the Sacramento Mountains, [Otero County], New Mexico.

Sorex obscurus parvidens Jackson
Type Locality: Spring known as Thurman’s Camp, altitude about 7,500 ft (2,286 m) [FC: at a line between Lander and Nye Counties], Nevada.

Sorex obscurus permiliensis Jackson
= Sorex bairdi permiliensis Jackson, 1918. See Carraway (1990:40).
Type Locality: Permilia (Pamelia) Lake, west base of Mount Jefferson, Cascade Range, [Linn County], Oregon.

Sorex obscurus ventralis Merriam
= Sorex ventralis Merriam, 1895. See Elliot (1903:148).
Type Locality: Cerro San Felipe, altitude 10,000 ft (3,048 m), Oaxaca, Mexico.

Sorex oreopolus Merriam

Sorex orizabae Merriam
Type Locality: [Jackson (1928:113): West slope] Mount Orizaba, altitude 9,500 ft (2,896 m), Puebla, Mexico.

Sorex ornatus Merriam
Type Locality: [Jackson (1928:113): West slope] Mount Orizaba, altitude 9,500 ft (2,896 m), Puebla, Mexico.

Sorex pachyurus Baird
Lectotype: USNM 1674/38820 as designated by Lyon and Osgood (1909:247). Originally in alcohol, the skull and skeleton were removed and cataloged as USNM 38820 on 13 Sep 1923. The skin was apparently destroyed. Age and sex not given. Obtained from C. Cavileer. No original number. Type Locality: Pembina, [Pembina County], North Dakota, not Minnesota as in original description. Remarks: A type was not designated by number in original description. Lyon and Osgood (1909:247) considered USNM 1674 to be the type = lectotype (ICZN, 1999: Article 74.5).

Sorex pacificus Coues
Holotype: USNM 3266. [Skin with fragment of skull inside]. Age and sex not given. [MC: Received from E. P. Vollum. Cataloged Mar 1858]. Type Locality: Fort Umpqua, [Miller and Rehn (1901:242): mouth of Umpqua River, Douglas County], Oregon.

Sorex pacificus cascadensis Carraway

Sorex palustris hydrobadistes Jackson

Sorex personatus arcticus Merriam

Sorex planiceps G. S. Miller

Sorex planiceps Merriam

Sorex preblei Jackson

Sorex roboratus Hollister

Sorex saussurei Merriam

Sorex saussurei caudatus Merriam
N. Am. Fauna 10: 84, 31 Dec 1895b. Primary junior homonym of Sorex caudatus Hodgson, 1849 and Horsfield,
1851. Replaced with *Sorex saussurei mutabilis* by Merriam (1898b:782).

=Sorex veraepacis mutabilis* Merriam, 1898. See Jackson (1925b:130).


Type Locality: Reyes, [Poole and Schantz (1942:193): near Cuitacatlan], altitude 10,200 ft (3,109 m), Oaxaca, Mexico.

*Sorex saussurei cristobalensis* Jackson

= *Sorex salvini cristobalensis* Jackson, 1925. See Woodman et al. (2012:214) for current use.


Type Locality: Mountains near Ozolotepec, altitude 10,000 ft (3,048 m), Oaxaca, Mexico.

*Sorex saussurei oaxacae* Jackson

= *Sorex salvini oaxacae* Jackson, 1925. See Woodman et al. (2012:214) for current use.


Type Locality: Mountains near Ozolotepec, altitude 10,000 ft (3,048 m), Oaxaca, Mexico.

*Sorex saussurei veraecrucis* Jackson

= *Sorex salvini veraecrucis* Jackson, 1925. See Woodman et al. (2012:214) for current use.


Type Locality: Xico, altitude 6,000 ft (1,829 m), Vera Cruz (Veracruz), Mexico.

*Sorex sclateri* Merriam


Type Locality: Tumbala, altitude 5,000 ft (1,524 m), [Tumbala Municipality], Chiapas, Mexico.

*Sorex shastensis* Merriam


Type Locality: Wagon Camp, Mount Shasta, altitude 5,700 ft (1,737 m), [Siskiyou County, California].

*Sorex sonomae tenelliodus* Carraway


Type Locality: 4 mi (6.4 km) S, 10.5 mi (17 km) E Blue River, East Fork Creek, T17S, R6E, sec. 7, Lane County, Oregon.


*Sorex sphagnicola* Coues

= *Sorex arcticus arcticus* Kerr, 1792. See Jackson (1928:69).

Holotype: USNM 6361. Skin only. Age and sex not given. Collected on unknown date by W. L. Hardisty. No original number. [MC: Cataloged in Apr 1863].

Type Locality: Vicinity of Fort Liard, [Dehcho Region, Northwest Territories, Canada].

*Sorex stizodon* Merriam


Type Locality: San Cristobal, [FC: altitude 9,000 ft (2,743 m)], Chiapas, Mexico.

*Sorex suckleyi* Baird


Type Locality: Fort Steilacoom, Puget Sound, [Pierce County], Washington.

Remarks: Of the seven specimens mentioned in the original description, Lyon and Osgood (1909:250) stated that USNM 1677 is here taken as the type = lectotype (ICZN, 1999: Article 74.5).

*Sorex tenellus* Merriam


Type Locality: Near summit of Alabama Hills, Lone Pine, Owens Valley, [Inyo County], California. Restricted by A. B. Howell (1923:266) to Lone Pine Creek, about 4,500 ft (1,372 m), Owens Valley, Inyo County, California.

*Sorex tenellus lyelli* Merriam

= *Sorex lyelli* Merriam, 1902. See Jackson (1928:57).

Type Locality: Mount Lyell, [Grinnell (1933:79); near head of Lyell Fork of Tuolumne River, at about 10,000 ft (3,048 m) altitude], [Tuolumne County], California.

*Sorex tenellus myops* Merriam


Type Locality: [FC: Pipers Creek (Cottonwood Creek), east slope near main peak of] White Mountains, [FC: 9488 ft (2,892 m)], Mono County, California. Restricted by Howell (1923:266) to Cottonwood Creek, about 9,550 ft (2,911 m), on east slope of the White Mountains, Inyo (Mono) County, California.

*Sorex tenellus nanus* Merriam


= *Sorex nanus* Merriam, 1895. See Jackson (1928:174).


Type Locality: Estes Park, [FC: Larimer County], Colorado.

*Sorex thompsoni* Baird


Type Locality: Burlington, [Chittenden County], Vermont.

Remarks: A type was not designated by number in original description. From the three specimens mentioned, Lyon and Osgood (1909:250) considered USNM 1686 to be the type = lectotype (ICZN, 1999: Article 74.5). The skull, still in the specimen in 1909, has been removed and was assigned USNM 38838 on 13 Jun 1923.

*Sorex trigonostris* Jackson


Type Locality: Ashland, altitude 1,975 ft (602 m), Jackson County, Oregon.

*Sorex trowbridgii* Baird


= *Sorex trowbridgii trowbridgii* Baird, 1857.


Type Locality: Astoria, [Miller and Rehn (1901:239): mouth of Columbia River, Clatsop County], Oregon.

Remarks: A type was not designated by number in original description. Baird (1857:15) listed four specimens by number and Poole and Schantz (1942:196) selected USNM 813/3088 as the lectotype.

*Sorex trowbridgii destructioni* Scheffer and Dalquest


Type Locality: Destruction Island, Jefferson County, Washington.

*Sorex trowbridgii humboldtensis* Jackson


Type Locality: [SL: Redwood] Carson’s Camp, Mad River, Humboldt Bay, Humboldt County, California.

*Sorex tundrensis* Merriam


Type Locality: Saint Michaels (Saint Michael), Alaska.

*Sorex vagrans* Baird


= *Sorex vagrans vagrans* Baird, 1857.


Type Locality: Shoalwater (Willapa) Bay, [Pacific County], W. T. (Washington).

Remarks: A type was not designated in original description. Of the seven specimens mentioned, Lyon and Osgood (1909:251) selected USNM 1675 as the type = lectotype (ICZN, 1999: Article 74.5).

*Sorex vagrans obscuroides* Findley


Type Locality: Bishop Creek, 6600 ft (2,012 m), [SL and FC: Sierra Nevada Mountains], Inyo County, California.

*Sorex vagrans similis* Merriam

Type Locality: [Poole and Schantz (1942:197): Near] Timber Creek, altitude about 2,500 m (8,300 ft), Salmon River (Lemhi) Mountains, 10 mi (16 km) west of Junction, [Lemhi County], Idaho.


Holotype: USNM 71913. [Skin and skull]. Adult male. Collected 10 May 1895 by C. P. Streator. Original number 4592.
Type Locality: Goldstream, Vancouver Island, British Columbia, [Canada].


Type Locality: Yaquina Bay, [Lincoln County], Oregon.

**Genus Suncus** Ehrenberg, 1832


Type Locality: Iloilo (Iloilo), Iloilo Province, Panay, [Philippines].

**Genus Surdisorex** Thomas, 1904


= *Sylvisorex aequatorius* (Heller, 1912). New name combination. See Hutterer (2005:257) who raised *aequatorius* to specific status and Dubey et al. (2008:953) for the use of *Sylvisorex*.
Type Locality: Summit of Mount Sagalla, altitude 4,000 ft (1,219 m), Taita Hills, [Coast Province], British East Africa (Kenya).


= *Sylvisorex megalura gemmeus* Heller, 1910. See Heim de Bal-sac and Meester (1977:7) who reduced *gemmeus* to subspe-cific status and Dubey et al. (2008:960) for current use of *Sylvisorex*.
Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].


Type Locality: West side Mount Kenia (Kenya), altitude 10,700 ft (3,261 m), British East Africa (Kenya).

**Genus Sylvisorex** Thomas, 1904


= *Sylvisorex aequatorius* (Heller, 1912). New name combination. See Hutterer (2005:257) who raised *aequatorius* to specific status and Dubey et al. (2008:953) for the use of *Sylvisorex*.
Type Locality: Summit of Mount Sagalla, altitude 4,000 ft (1,219 m), Taita Hills, [Coast Province], British East Africa (Kenya).


= Sylvisorex megalura gemmeus Heller, 1910. See Heim de Bal-sac and Meester (1977:7) who reduced *gemmeus* to subspe-cific status and Dubey et al. (2008:960) for current use of *Sylvisorex*.
Type Locality: Rhino Camp, Lado Enclave, [Arua, Uganda].

**Family Talpidae G. Fischer, 1814**

**Genus Condylura** Illiger, 1811

Type Locality: [SL: Spoon Mountain], 5 mi (8 km) NW of Stew-art, Patrick County, Virginia.
Remarks: Hutterer (2005:301) placed *C. c. parva* as a junior synonym of *C. c. nigra* following Hartman (1999:67), who placed *nigra* as a synonym of *parva*, despite *nigra* having priority. However, we believe Hartman (1999:67) erred in doing so and meant to place *nigra* as a synonym of *cristata*, as he correctly listed the range of *cristata* to include the type locality, Nova Scotia, of *nigra*. In our opinion, Peterson and Yates (1980:1) correctly placed *nigra* as a junior synonym of *cristata* as did van Zyll de Jong (1983:180).

**Genus Dymecodon** True, 1886


Type Locality: Mouth of Yeddo (Tokyo) Bay, [MC: Yenosima (Enoshima)], [Honshu], Japan.

Genus Euroscaptor Miller, 1940

Euroscaptor grandis G. S. Miller
J. Mammal. 21: 444, 14 Nov 1940a.

Type Locality: Mount Omei (Emei Shan), altitude 5,000 ft (1,524 m), Szechuan (Sichuan), China.

Talpa parvidens G. S. Miller
J. Mammal. 21: 203, 14 May 1940b.
= Euroscaptor parvidens (G. S. Miller, 1940). See G. S. Miller (1940a:444).

Holotype: USNM 258342. In alcohol, skull removed. Adult male, not female as given in the original description (G. S. Miller, 1940a:444). Collected 13 Jun 1933 by E. Poilane. No original number.

Type Locality: Agricultural station of Blao (Bao Loc), [Note in type file: altitude 800 m], Delegation de Djynrinh, near upper Donai river, Annam (Lam Dong), French Indo-China (Vietnam).

Genus Neurotrichus Gunther, 1880

Neurotrichus gibbsi major Merriam


Type Locality: Carberry Ranch, altitude 4,100 ft (1,250 m), [FC: 4,050 ft (1,234 m)], between Mounts Shasta and Lassen, [FC: 50 mi (80 km) NE of Redding on stage road to Alturus (Alturas)], Shasta County, California.

Urotrichus gibbsii Baird


Type Locality: White River, Cascade Mountains, W. T. (Washington). Restricted by Dalquest and Burgner (1941:12) to Naches Pass, 4,500 ft (1,372 m), Pierce County, Washington.

Genus Scalopus E. Geoffroy, 1803

Scalopus aquaticus caryi Jackson

Type Locality: Neligh, [Antelope County], Nebraska.

Scalopus aquaticus bowelli Jackson

Type Locality: Autaugaville, [Autauga County], Alabama.

Scalopus aquaticus machrinoides Jackson


Type Locality: Delight, [Pike County], Arkansas.

Scalopus aquaticus pulcher Jackson


Type Locality: Delight, [Pike County], Arkansas.

Scalopus inflatus Jackson


Type Locality: Delight, [Pike County], Arkansas.

Genus Scapanus Pomel, 1848

Scalops aeneus Cassin
= Scapanus townsendii townsendii (Bachman, 1839). See True (1896:51).

Holotype: USNM 3725. Skin only. Adult, [sex unknown]. Collected on unknown date by the U.S. Exploring Expedition. No original number. [MC: Cataloged on 20 Dec 1859].

Type Locality: Oregon.
Remarks: As stated by Lyon and Osgood (1909:233), the original description was based on a single specimen in the collection of the Exploring Expedition. The above listed specimen has a U.S. Exploring Expedition label and is undoubtedly this “single specimen.”

Scapanus alpinus Merriam
Type Locality: Crater Lake, altitude about 7,000 ft (2,120 m), Mount Mazama, [Klamath County], Oregon.

Scapanus dilatus True
= Scapanus latimanus dilatus True, 1894. See Jackson (1915:72).
Type Locality: Fort Klamath, [Klamath County], Oregon.

Scapanus latimanus sericatus Jackson
Type Locality: Yosemite, [G. S. Miller (1924:12): Yosemite Valley], Mariposa County, California.

Scapanus orarius True
= Scapanus orarius orarius True, 1896.
Type Locality: Shoalwater (Willapa) Bay, [Pacific County], Washington.
Remarks: Published as USNM 1381, to which 37434 belongs.

Scapanus orarius schefferi Jackson
N. Am. Fauna 38: 63, 30 Sep 1915.

Scapanus truei Merriam
= Scapanus latimanus dilatus True, 1894. See Jackson (1915:72).
Type Locality: Lake City, Modoc County, California.

Order Chiroptera Blumenbach, 1779
Family Pteropodidae Gray, 1821
Genus Acerodon Jourdan, 1837

Pteropus arquatus Miller and Hollister
Type Locality: Koelawi (Kulawi), [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].

Genus Cynopterus F. Cuvier, 1824

Cynopterus angulus G. S. Miller
Type Locality: [MC: Lay Song Hong], Trong (Trang), Lower Siam (Thailand).

Cynopterus babi Lyon
Type Locality: Pulo (Pulau) Babi, [FC: 17 mi (27 km) SE of Simalur Island (Pulau Simeulue)], [Aceh, Sumatra, Indonesia].

Cynopterus major G. S. Miller
Type Locality: Mojeia River, Nias Island (Pulau Nias), [Sumatera Utara], west Sumatra, [Indonesia].

Cynopterus minutus G. S. Miller
Type Locality: [FC: Mojeia River], Nias Island (Pulau Nias), [Sumatera Utara], west Sumatra, [Indonesia].

Cynopterus pagensis G. S. Miller
Type Locality: North Pagi Island (Pulau Pagai Utara), [Sumatera Barat], west Sumatra, [Indonesia].

Cynopterus princeps G. S. Miller
Type Locality: Mojeia River, Nias Island (Pulau Nias), [Sumatera Utara], west Sumatra, [Indonesia].

Cynopterus sphinx serasani Paradiso
Type Locality: Serasan Island (Pulau Serasan), Natuna Islands (Kepulauan Natuna Selatan), [Kepulauan Riau], Indonesia.

Niadias [sic.] minor Lyon
Type Locality: Confluence of the Gasip (Sungai Gasip) and Siak (Sungai Siak) Rivers [FC: Siak River (Sungai Siak) near mouth of Gasip River (Sungai Gasip), [Riau], eastern Sumatra, [Indonesia].

Remarks: Niadias is an incorrect subsequent spelling of Niadius G. S. Miller, 1906.

Genus Eonycteris Dobson, 1873

Eonycteris robusta G. S. Miller
Type Locality: In cave at Montalban, [Rizal], Luzon, Philippine Islands (Philippines).

Genus Harpyionycteris Thomas, 1896

Harpyionycteris celebensis Miller and Hollister
Type Locality: Gimpo (Gimpu), [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].

Genus Pteropus Brisson, 1762

Pteropus aldabrensis True
Type Locality: Aldabra Island, [SL: northwest of Madagascar], [Seychelles].
Remarks: Type not designated in original description but the two specimens given above were listed by number and therefore are syntypes (ICZN, 1999: Article 73.2).

Pteropus balutus Hollister
Type Locality: Balut Island, Serangani Group, [Davao del Sur Province], south of Mindanao, Philippine Islands (Philippines).

Pteropus baveanus G. S. Miller
Type Locality: Bawean Island (Pulau Bawean), Java Sea. [Jawa Timur, Java, Indonesia].

Pteropus cagayanus Mearns
= Pteropus hypomelanus cagayanus Mearns, 1905. See Andersen (1912:121).
Type Locality: Cagayan Sulu Island, near west side of the Sulu Sea, [Tawi Tawi Province], Philippine Islands (Philippines).

Pteropus coxi Helgen, Helgen, and Wilson
Holotype: USNM 3791/3953. Skin and skull; the skull is now lost. Probably male. Collected by the U.S. Exploring Expedition of 1838–1842. No original number.
Type Locality: Samoan Islands.

Pteropus enganus G. S. Miller
= Pteropus hypomelanus enganus Mearns, 1905. See Andersen (1912:121).
Type Locality: Cagayan Sulu Island, near west side of the Sulu Sea, [Tawi Tawi Province], Philippine Islands (Philippines).
Type Locality: Pulo (Pulau) Dua, Engano (Pulau Enggano), [Bengkulu, Sumatra, Indonesia].

Pteropus faunulus G. S. Miller
Type Locality: Car Nicobar, [Andaman and Nicobar Islands, India].

Pteropus geminorum G. S. Miller
= Pteropus hypomelanotus geminorum G. S. Miller, 1903. See Andersen (1908:363).
Type Locality: South Twin Island, Mergui Archipelago, [Tanintharyi, Burma].

Pteropus lanensis Mearns
= Pteropus vampyrus lanensis Mearns, 1905. See Andersen (1908:368).
Type Locality: Pantar, near Lake Lanao, altitude 1,907 ft (581m), Mindanao, [Lanao del Sur Province], Philippine Islands (Philippines).

Pteropus lanigera H. Allen
= Pteropus pelagicus insularis Jacquinot and Pucheran, 1853. See Buden et al. (2013:113) for current use.
Lectotype: USNM 8597/37860 as designated by Helgen et al. (2009:22). Skin and skull. Age and sex not given. Collected on unknown date by the U.S. Exploring Expedition. [MC: Skin cataloged on 30 Jul 1866; the skull on 21 Feb 1900]. No original number.
Type Locality: Tutuila Island, [American Samoa].
Remarks: Three specimens had long been considered syntypes of this taxon, (see Lyon and Osgood, 1909:258; Poole and Schantz, 1942:142), until Helgen et al. (2009:22) designated USNM 8597/37860 as the lectotype.

Pteropus lepidus G. S. Miller
= Pteropus hypomelanotus lepidus G. S. Miller, 1900. See Andersen (1908:361).
Remarks: A type was not designated by number in the original description, but Peale (1848:19) mentions only a single specimen from the type locality. USNM 3961 is unquestionably it and is therefore a holotype fixed by monotypy (ICZN, 1999: Article 73.1.2).

Family Rhinolophidae Gray, 1825

Genus Rhinolophus Lacepede, 1799

Rhinolophus affinis nesites Andersen
Type Locality: Bunguran Island (Pulau Natuna Besar), N. Natunas (Kepulauan Natuna Besar), [Kapulauan Riau, Indonesia].

Rhinolophus acuminatus circe Andersen
Type Locality: [FC: Mojeia River], [Pulau] Nias, [Sumatera Utara, Sumatra, Indonesia].

Rhinolophus coelophyllus shameli Tate
Type Locality: Ko Chang Island, Gulf of Siam, [Trat, Thailand].

Rhinolophus circe Andersen
Type Locality: Pulo (Pulau) Siantan, Anambas Islands (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

Rhinolophus solitarius Andersen
Type Locality: Tanjong Pamuja, Banka (Pulau Bangka), [Kepulauan Bangka Belitung, Sumatra, Indonesia].

Rhinolophus keniensis Hollister
Type Locality: [FC: Base camp], West side of Mount Kenia (Kenya), altitude 7,000 ft (2,134 m), British East Africa (Kenya).

Rhinolophus minutus G. S. Miller
Type Locality: Pulo (Pulau) Siantan, Anambas Islands (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

Rhinolophus nereis Andersen
Type Locality: Pulo (Pulau) Siantan, Anambas Group (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

Rhinolophus solitarius Andersen
Type Locality: Jodaya (Todaya), altitude 4,000 ft (1,219 m), Mount Apo, [Davao del Sur], Mindanao, [Philippines].
Rhinolophus spadix G. S. Miller  
≡ Rhinolophus borneensis spadix G. S. Miller, 1901. See Chasen (1940:37).  
Type Locality: Sirhassen Island (Pulau Serasan), South Natunas (Kepulauan Natuna Selatan), [Kepulauan Riau, Indonesia].

Rhinolophus trifoliatus niasensis Andersen  
Type Locality: [FC: Mojeia River], [Pulau] Nias, [Sumatera Utara, Sumatra, Indonesia].

Rhinolophus virgo Andersen  
Type Locality: [FC: Cave near Pasacao], Luzon, Province of S. Camarines (Camarines Sur), Philippine Islands (Philippines).

Genus Hipposideros Gray, 1831

Hipposideros barbensis G. S. Miller  
≡ Hipposideros larvatus barbensis G. S. Miller, 1900. See Chasen (1940:46).  
Type Locality: Ste. Barbe Island (Pulau Pejantan), [SL: China Sea], [Kepulauan Riau, Indonesia].

Hipposideros bicolor gilberti Johnson  
Type Locality: Oenpelli (Gunbalanya), East Alligator River, lat. 12°21′S, long. 133°04′E, Northern Territory, Australia.

Hipposideros gentilis toala Shamel  
≡ Hipposideros ater saevus Andersen, 1918. See Hill (1963:30).  
Type Locality: [MC: Bada], Toare (Tuare), [Sulawesi Tengah, Celebes (Sulawesi), [Indonesia].

Hipposideros insolens Lyon  
Type Locality: Near Lowatsi on the upper Pasir River (Sungai Pasir), [Kalimantan Timur], southeastern Borneo (Kalimantan), [Indonesia].

Hipposideros nicobarulae G. S. Miller  
See Douangboubpha et al. (2011:73) for current use.  
Type Locality: Little Nicobar, [FC: Nicobar Islands], [Andaman and Nicobar Islands, India].

Hipposideros pelingensis Shamel  
Holotype: USNM 219433. In alcohol, [skull removed]. Adult male, not female as given in original description. Collected May 1918 by H. C. Raven. Original numbers [FC: 3571 and 8 P].
Type Locality: [FC: Near Liang], Peling Island (Pulau Peling), [Sulawesi Tengah], Celebes (Sulawesi), [Indonesia].

**Family Megadermatidae H. Allen, 1864**

**Genus Lavia Gray, 1838**

*Lavia rex* G. S. Miller  
Holotype: USNM 18993/38197. In alcohol, skull removed.  
Adult male. Collected in 1889 by W. L. Abbott. No original number.  
Type Locality: Taveta, [Coast Province], German (British) East Africa (Kenya).

**Genus Megaderma E. Geoffroy, 1810**

*Megaderma carimatae* G. S. Miller  
Type Locality: Tanjong Karimata Tua, Karimata Island (Pulau Karimata), [Kalimantan Barat, Borneo (Kalimantan), Indonesia].

*Megaderma lasiae* Lyon  
Type Locality: Pulo (Pulau) Lasia, [Aceh, Sumatra, Indonesia].

*Megaderma niasense* Lyon  
Type Locality: Pulo (Pulau) Nias, Mojeia River, [Sumatera Utara, Sumatra, Indonesia].

*Megaderma siumatis* Lyon  
Type Locality: Pulo (Pulau) Siumat, [Aceh, Sumatra, Indonesia].

*Megaderma spasma celebensis* Shamel  
Type Locality: Likoepang (Likupang), [Sulawesi Utara], Celebes (Sulawesi), [Indonesia].

**Family Rhinopomatidae Bonaparte, 1838**

**Genus Rhinopoma E. Geoffroy, 1818**

*Rhinopoma microphyllum harrisoni* Schlitter and DeBlase  
See Akmali et al. (2011:288) for current use.  
Type Locality: 10 km SE Kazerun, 29°34´N, 51°46´E, Fars Province, Iran.

**Family Emballonuridae Gervais, 1855**

**Genus Emballonura Temminck, 1838**

*Emballonura anambensis* G. S. Miller  
Type Locality: Pulo Mobur (Pulau Mobur), Anamba Islands (Kepulauan Anambas), [Kepulauan Riau, Indonesia].

*Emballonura peninsularis* G. S. Miller  
= *Emballonura monticola* Temminck, 1838. See Tate and Archbold (1939:8).  
Type Locality: Mankol, Kendawangan River (Sungai Kendawangan), [Kalimantan Barat, southwestern Borneo (Kalimantan), Indonesia].

*Emballonura pusilla* Lyon  
= *Emballonura monticola* Temminck, 1838. See Tate and Archbold (1939:8).  
Type Locality: Mankol, Kendawangan River (Sungai Kendawangan), [Kalimantan Barat, southwestern Borneo (Kalimantan), Indonesia].
Emballonura sulcata G. S. Miller
= Emballonura semicaudata sulcata G. S. Miller, 1911. See Kurroda (1938:91).
Holotype: USNM 151568. Skin and skull. Adult, sex not given. Collected 16 Feb 1900 by H. F. Moore. No original number. Type Locality: Uola Island (Weno), Truk Group, [Chuuk], Caroline Islands, [Federated States of Micronesia].

Emballonura semicaudata sulcata G. S. Miller, 1911. See Kurroda (1938:91).
Holotype: USNM 151568. Skin and skull. Adult, sex not given. Collected 16 Feb 1900 by H. F. Moore. No original number. Type Locality: Uola Island (Weno), Truk Group, [Chuuk], Caroline Islands, [Federated States of Micronesia].

Vespertilio semicaudatus Peale

Remarks: The type was not designated by number in the original description, but the description was based on a single specimen collected by the U.S. Exploring Expedition. This is the only specimen from the Expedition known to be extant and undoubtedly the holotype by monotypy (ICZN, 1999: Article 73.1.2).

Genus Saccolaimus Temminck, 1838

Taphonycteris capito Hollister

Taphozous pluto G. S. Miller
Holotype: USNM 144812. Skin and skull. Adult female. Collected 28 Mar 1906 by E. A. Mearns. Original number 6054. Type Locality: Mercedes, 9 mi (14 km) east of Zamboanga, [Zamboanga Province], Mindanao, [Philippines].

Genus Taphozous E. Geoffroy, 1818

Taphozous solifer Hollister

Family Phyllostomidae Gray, 1825

Genus Anoura Gray, 1838

Anoura cultrata Handley

Anoura latidens Handley

Genus Ardops Miller, 1906

Ardops annectens G. S. Miller
= Ardops nichollsi annectens G. S. Miller, 1913. See Jones and Schwartz (1967:10).

Stenoderma luciae G. S. Miller
Holotype: USNM 110921. In alcohol, [skull removed]. Adult female. Collected 4 Feb 1901 by H. S. Branch. No original number. Type Locality: Santa (St.) Lucia Island, West Indies.

Genus Artibeus Leach, 1821

Artibeus amplus Handley

Type Locality: Kasmera, 270 m, 21 km SW Machiques, across the Rio Yasa from the Kasmera Biological Station, eastern foothills of the Sierra de Perija, [Handley (1976:74): 9º59′N, 72º43′W], Estado Zulia, Venezuela.

Artibeus hirsutus Andersen
Type Locality: La Salada, Michoacan, Mexico.

Artibeus intermedius koopmani Wilson
Type Locality: Maria Cleofas, Tres Marias Islands, Nayarit, Mexico.

Artibeus jamaicensis praeceps Andersen
= Artibeus jamaicensis jamaicensis Leach, 1821. See Koopman (1968:6).
Type Locality: Guadeloupe, W. I. (West Indies).

Artibeus jamaicensis triomylus Handley
= Artibeus jamaicensis jamaicensis Leach, 1821. See Koopman (1968:6).
Type Locality: Maria Cleofas, Tres Marias Islands, Nayarit, Mexico.

Artibeus hirsutus Andersen
Type Locality: La Salada, Michoacan, Mexico.

Artibeus intermedius koopmani Wilson
Type Locality: Maria Cleofas, Tres Marias Islands, Nayarit, Mexico.

Artibeus jamaicensis praeceps Andersen
= Artibeus jamaicensis jamaicensis Leach, 1821. See Koopman (1968:6).
Type Locality: Guadeloupe, W. I. (West Indies).

Artibeus jamaicensis triomylus Handley
= Artibeus jamaicensis jamaicensis Leach, 1821. See Koopman (1968:6).
Type Locality: Maria Cleofas, Tres Marias Islands, Nayarit, Mexico.

Brachyphylla pumila G. S. Miller
= Brachyphylla cavernarum minor G. S. Miller, 1913. See Koopman (1968:5).
Type Locality: Coles Cave, St. Thomas Parish, Barbados, Lesser Antilles.
Remarks: We have been unable to resolve the difference between the dates given in the original description and the Museum Catalog for date collected.

Brachyphylla nana G. S. Miller
Type Locality: El Guama, [Pinar del Rio], Cuba, Greater Antilles.

Genus Carollia Gray, 1838

Carollia castanea H. Allen
Type Locality: [Pine (1972:18): Angostura], [San Jose], Costa Rica.
Remarks: The holotype was published as USNM 12914, to which USNM 36834 belongs. The skin was cataloged 23 on Jun 1878; the skull 11 Nov 1893.

Hemiderma subrufum Hahn
= Carollia subrufa (Hahn, 1905). See G. S. Miller (1924:54).
Type Locality: Santa Ifigenia (Efigenia), [FC: altitude 1,200 ft (366 m)], [Miller and Kellogg (1955:74): 8 mi (13 km) northwest of Tepantepec near west coast of Oaxaca], Oaxaca, Mexico.

Hemiderma tricolor G. S. Miller
Type Locality: Cave at Sapucay, [Paraguari], Paraguay.

Genus Centurio Gray, 1842

Centurio mcmurtrii H. Allen
= *Centurio senex senex* Gray, 1842. See Rehn (1901:297).
Type Locality: Mirador, [Veracruz], Mexico.
Remarks: The type was not designated by number in the original description, but the description was based on a single specimen in the Smithsonian collection. Rehn (1901:300) determined that specimen to be USNM 8289/37806.

*Centurio senex greenhalli* Paradiso
Type Locality: Port of Spain, St. George County (Parish), Trinidad, [Trinidad and Tobago].

**Genus Chiroderma** Peters, 1860

*Chiroderma gorgasi* Handley
Type Locality: Tacarcuna Village [SL: Camp], 3,200 ft (975 m), Rio Pucro, Darien, Panama.

*Chiroderma isthmicum* G. S. Miller
= *Dermanura phaeotis phaeotis* G. S. Miller, 1902. See Hoofer et al. (2008:10) for current use.

**Genus Choeroniscus** Thomas, 1928

*Choeroniscus periosus* Handley
Type Locality: Rio Raposo, near sea level, 27 km south of Buenaventura, Departamento de Valle [del Cauca], Colombia.

**Genus Dermanura** Gervais, 1856

We follow Hoofer et al. (2008) and Solari et al. (2009) in recognizing *Dermanura* at the generic level.

*Artibeus aztecs* Andersen
Type Locality: Tetela del Volcan, [FC: altitude 8,000 ft (2,438 m)], Morelos, Mexico.

*Artibeus gnomus* Handley
Type Locality: El Manaco, [Handley (1976:69): 150 m, 6º17´N, 61º19´W], KM 74, 59 km SE El Dorado, Bolivar, Venezuela.

*Artibeus incomitatus* Kalko and Handley
Type Locality: A meter or so above sea level near West Point, Isla Escudo de Veraguas, Bocas del Toro, Panama.

*Artibeus phaeotis* G. S. Miller
= *Dermanura phaeotis phaeotis* G. S. Miller, 1902. See Hoofer et al. (2008:10) for current use.
Type Locality: Chichen Itza, Yucatan, [SL: Mexico].
Type Locality: San Javier, [SL: altitude 60 ft (18 m)], northern Ecuador.

*Stenoderma tolteca* Saussure

= *Dermanura tolteca tolteca* (Saussure, 1860). See Owen (1897:64) for name combination and Solari et al. (2009:284) for current use.

Neotype: USNM 6981/38954 as designated by Davis (1969:26).


Type Locality: Mirador, Veracruz, Mexico.

**Genus Ectophylla** H. Allen, 1892

*Ectophylla alba* H. Allen


Type Locality: Vicinity of Segovia River (Rio Coco), [Gracias a Dios], eastern Honduras.

Remarks: According to Miller and Kellogg (1955:77), the locality given above is equal to Comarca de El Cabo, northeastern Nicaragua.

**Genus Erophylla** Miller, 1906

*Erophylla planifrons mariguanensis* Shamel


Type Locality: Abrahams Hill, Mariguana (Mayaguana) Island, [Bahamas].

**Phyllonycteris bombycifrons** G. S. Miller

= *Erophylla bombycifrons bombycifrons* (G. S. Miller, 1899). See G. S. Miller (1906g:84).


Type Locality: In a limestone cave near Bayamon, Province of San Juan, Puerto Rico.

**Phyllonycteris planifrons** G. S. Miller


Type Locality: Nassau, New Providence [Island], Bahamas.

Remarks: Originally USNM 15453, this specimen was recataloged USNM 62517 on 13 Jul 1895.

**Genus Glossophaga** E. Geoffroy, 1818

*Glossophaga elongata* G. S. Miller


Type Locality: Willemstad, Curacao, [Netherlands Antilles], West Indies.

Remarks: According to the museum catalog, this specimen was made into a skin and skull on 27 Feb 1900.

*Glossophaga longirostris campestris* Webster and Handley


Type Locality: Hato San Jose, 300 m, [Handley (1976:73): 6º49′N, 63º29′W], 20 km W Paragua, = 146 km S, 7 km E Ciudad Bolivar, Bolivar, Venezuela.

*Glossophaga mutica* Merriam


Type Locality: Maria Madre Island, [FC: altitude 50 ft (15 m)], Tres Marias Islands, [Nayarit], Mexico.

*Glossophaga rostrata* G. S. Miller

= *Glossophaga longirostris rostrata* G. S. Miller, 1913. See G. S. Miller (1913e:423).


Type Locality: Westerhall Estate, Grenada, Lesser Antilles.

*Glossophaga soricina microtis* G. S. Miller


Type Locality: Sapucay (Sapucai), [Paraguarí], Paraguay.
**Glossophaga villosa** H. Allen  
Holotype: USNM 9523/37388. Skin in alcohol, skull removed. Adult, sex unknown. Collector and date of collection unknown. The skin was cataloged between 12 Feb and 17 Mar 1870; the skull 21 Apr 1898.  
Type Locality: La Guayra (Guaira), [Vargas], Venezuela.  
Remarks: Published as USNM 9523 to which skull number 37388 belongs. H. Allen referred to his two specimens as 9522 and 9523 in error. They are actually 9523 and 9524, with 9524 being a specimen without any locality data. The type is designated by number 9522, an error for 9523. The type locality is questionable as it is given as Guyana, Venezuela in the original museum catalog. A copy of this catalog, and no doubt the one H. Allen referred to for the locality data, gives it as Guyara, Venezuela. See Lyon and Osgood (1909:264) or Poole and Schantz (1942:131) for more lengthy discussion.

**Genus Leptonycteris** Lydekker, 1891

*Leptonycteris curasoae* G. S. Miller  
Type Locality: [Note with specimen: 1 mi (1.6 km) NW of Willemstad], Curacao, [Netherlands Antilles], West Indies.

**Genus Lichonycteris** Thomas, 1895

*Lichonycteris degener* G. S. Miller  
See Griffiths and Gardner (2008:242) for current use.  
Type Locality: Para (Belem), [Para], Brazil.

**Genus Lonchophylla** Thomas, 1903

*Lonchophylla concava* Goldman  
See Albuja and Gardner (2005:446) for current use.  
Type Locality: Cana, altitude 2,000 ft (610 m), [Darien], eastern Panama.

*Lonchophylla fornicata* Woodman  
Type Locality: 29 km SE Buenaventura, 75 m elevation, east bank of Rio Zabaletas, across from village of Zabaletas, 3º44'N, 76º57'W, Valle del Cauca Department, Colombia.

*Lonchophylla robusta* G. S. Miller  
Holotype: USNM 173854. In alcohol, [skull removed]. Adult male. Collected 14 Apr 1911 by A. Busck. No original number.  
Type Locality: In cave on Chilibrillo River, [Panama], Panama.

**Genus Lophostoma** d’Orbigny, 1836

*Lophostoma kalkoae* Velazco and Gardner  
Type Locality: Pipeline Road, near the former Limbo Hunt Club, 9º9'50"N, 79º45'10"W, Soberania National Park, Colon Province, Panama.

*Lophostoma venezuelae* Robinson and Lyon  
Type Locality: Macuto, [Lyon and Osgood (1909:267): 8 mi (13 km) east of La Guaira], [Vargas], Venezuela.

**Genus Macrotus** Gray, 1843

*Macrotus californicus* Baird  
Type Locality: [Miller and Rehn (1901:278): Old] Fort Yuma, [Miller (1924:46): Imperial County], California, [Miller
(1924:46): on right bank of Colorado River, opposite present town of Yuma, Arizona.
Remarks: The holotype was not designated by number in the original description, which was based on a single specimen from Fort Yuma, California. Measurements given in the description match those of USNM 2347 as given in Baird (1859) and is therefore the holotype fixed by monotypy (ICZN, 1999: Article 37.1.2). This specimen cannot be found. The last record of it is H. Allen (1894:39) in which he lists the specimen by number and refers to it as the type.

**Macrotus waterbousii compressus** Rehn
Type Locality: Eleuthera [SL: Island], Bahamas.
Remarks: Received from J. H. Riley, original number 1108.

**Macrotus waterbousii heberfolium** Shamel
= **Macrotus waterbousii waterbousii** Gray, 1843. See Anderson and Nelson (1965:14).
Type Locality: Kingston, Providenciais (Providenciales) Island, [Caicos Islands, Turks and Caicos Islands].

**Macrotus waterbousii jamaicensis** Rehn
Holotype: USNM 8553/37543. Skin and skull. Adult female. Collected on unknown date by W. T. March. No original number. [MC: Skin cataloged on 3 Jul 1866; the skull on 6 Oct 1898].
Type Locality: Spanishtown (Spanish Town), [St. Catherine], Jamaica.

**Genus Micronycteris** Gray, 1866

**Micronycteris megalotis mexicanus** G. S. Miller
= **Micronycteris megalotis** (Gray, 1842). See Porter et al. (2007:1211) who assigned mexicana to megalotis at unspecified rank.
Holotype: USNM 52105. In alcohol, [skull removed]. Adult female. Collected on unknown date by W. T. March. No original number. [MC: Fluid-preserved specimen cataloged 3 Jul 1866; the skull on 6 Oct 1898].
Type Locality: Plantinar, [FC: altitude about 4,000 ft (1,219 m)], Jalisco, Mexico.

**Micronycteris microtis** G. S. Miller
Type Locality: Greytown (San Juan del Norte), [Rio San Juan], Nicaragua.

**Micronycteris sanborni** Simmons
Type Locality: Sitio Luanda, Itaitera, 4 km S of Crato, Ceara, Brazil.

**Genus Mimon** Gray, 1847

**Mimon cozumelae** Goldman
Type Locality: Cozumel Island, off the east coast of Yucatan (Quintana Roo), Mexico.

**Mimon crenulatum keenani** Handley
Type Locality: [SL: Civilian housing area], Fort Gulick, Panama Canal Zone (Colon), [Panama].

**Genus Monophyllus** Leach, 1821

**Monophyllus clinedaphus** G. S. Miller
= **Monophyllus redmani clinedaphus** G. S. Miller, 1900. See Schwartz and Jones (1967:6).
Type Locality: No locality given. Schwartz and Jones (1967:6) restricted the type locality to the vicinity of Baracoa, Oriente Province (Guantanamo), Cuba.

**Monophyllus cubanus** G. S. Miller
= **Monophyllus redmani clinedaphus** G. S. Miller, 1900. See Schwartz and Jones (1967:6).
Type Locality: Baracoa, [Guantanamo], eastern Cuba.

**Monophyllus cubanus ferreus** G. S. Miller
Type Locality: In a cave 8 mi (13 km) W. S. W. Jeremie, [Schwartz and Jones (1967:6): Department du Sud], Haiti.

Monophyllus luciae G. S. Miller
Type Locality: Santa (St.) Lucia Island.

Monophyllus plethodon G. S. Miller
= Monophyllus plethodon plethodon G. S. Miller, 1900. See Schwartz and Jones (1967:12).
Type Locality: St. Michaels (Saint Michael) Parish, Barbados.

Monophyllus portoricensis G. S. Miller
Proc. Wash. Acad. Sci. 2: 34, 30 Mar 1900e.
= Monophyllus redmani portoricensis G. S. Miller, 1900. See Schwartz and Jones (1967:11).
Type Locality: Cave near Bayamon, [San Juan], Puerto Rico.

Genus Phyllonycteris Gundlach, 1861

Phyllonycteris obtusa G. S. Miller
= Phyllonycteris poeyi obtusa G. S. Miller, 1929. See Jones and Carter (1976:30).
Holotype: USNM 253095. Skull only. Age and sex unknown. Collected Mar 1925 by G. S. Miller, Jr. No original number.
Type Locality: In the “crooked cave” near the Atalaye plantation, St. Michel, Haiti.

Reithronycteris aphylla G. S. Miller
= Phyllonycteris (Reithronycteris) aphylla (G. S. Miller, 1898). See Koopman (1952:257).
Holotype: USNM 255514. In alcohol, [skull removed]. Adult male. Collector and date of collection unknown. [MC: Cataloged as found in collection without a number on 16 Jul 1930].
Type Locality: Jamaica.

Remarks: Described as Number 9, Museum of the Institute of Jamaica.

Genus Platyrhinus Saussure, 1860

Platyrhinus fusciventris Velazco, Gardner, and Patterson
Type Locality: Base camp, Cerro Nebolina, 00º49’50"N, 66º09’40"W, 140 m, Amazonas, Venezuela.

Platyrhinus nitelinea Velazco and Gardner
Type Locality: 1 km SW Puente de Moromoro, 3,480 ft (1,060 m), 03º44’ S, 79º44’ W, El Oro Province, Ecuador.

Vampyrops aquilus Handley and Ferris
Type Locality: Head of Rio Pucro, 4,100 ft (1,250 m), Cerro Mali, Darien, Panama.

Vampyrops aurarius Handley and Ferris
Type Locality: KM 125, 1,000 m, 85 km SSE El Dorado, [Handley (1976:74): 5º59’N, 61º26’W], Bolivar, Venezuela.

Vampyrops fumosus G. S. Miller
Proc. Wash. Acad. Sci. 2: 34, 30 Mar 1900e.
Type Locality: [SL: Hyutanaham (Huitanaa), Upper] Purus River, [Amazonas], Brazil.

Vampyrops fusciventris Velazco, Gardner, and Patterson
Type Locality: KM 125, 1,000 m, 85 km SSE El Dorado, [Handley (1976:74): 5º59’N, 61º26’W], Bolivar, Venezuela.

Vampyrops latus Handley and Ferris
Type Locality: [SL: Hyutanaham (Huitanaa), Upper] Purus River, [Amazonas], Brazil.

Vampyrops latus Handley and Ferris
Holotype: USNM 364408. Skin, skull, [and partial skeleton].
Type Locality: San Juan, 900 ft (274 m), Province of Oxpampa, Department of Pasco, Peru.

Vampyrops latus saccharus Handley and Ferris
Type Locality: Manacal, 300 m, 5 km S and 25 km E Carupano, [Handley (1976:76): 10º37′N, 61º09′W], Sucre, Venezuela.

Genus Rhinophylla Peters, 1865

Rhinophylla alethina Handley
Type Locality: [SL: Virology Field Station], at the Rio Raposo, near sea level, 27 km south of Buenaventura, Departamento de Valle [del Cauca], Colombia.

Genus Sturnira Gray, 1842

Sturnira angeli de la Torre
See Velazco and Patterson (2013:694) for current use.
Type Locality: 6 mi (10 km) NE Roseau, 1,000 ft (305 m), St. Paul Parish, Dominica, Windward Islands, West Indies.
Remarks: Originally numbered 5354 in the Albert Schwartz collection.

Sturnira aratathomasi Peterson and Tamsitt
Holotype: USNM 395158. Skin, skull, [and partial skeleton].
Type Locality: 2 km south of Pance, 1,200 ft (366 m), Guadeloupe, French Leeward Islands, Lesser Antilles.
Remarks: Published as University del Valle- Tulane number 635.

Sturnira paulsoni de la Torre and Schwartz
See Velazco and Patterson (2013:694) for current use.
Holotype: USNM 361882. Skin and skull. Adult female.
  Collected 30 Dec 1961 by D. R. Paulson. No original number.
Type Locality: 2 km south of Pance, 1,650 m, approximately 20 km southwest of Cali, Dept. (Departamento) Valle [del Cauca], Colombia.
Remarks: Originally numbered 5413 of the Albert Schwartz collection.

Genus Trachops Gray, 1847

Trachops coffini Goldman
  = Trachops cirrhosus coffini Goldman, 1925. See Felten (1956: 369).
  Original number 388.
Type Locality: Guoyo, Peten, Guatemala.
Genus *Uroderma* Peters, 1866

*Uroderma convexum* Lyon


See Mantilla-Meluk (2014:17) for current use.


Type Locality: Colon, [Colon], Colombia (Panama).

Remarks: We know this Colon to be in Panama rather than Colombia because the title of the type publication refers to a new bat from the Isthmus of Panama.

Genus *Vampyressa* Thomas, 1900

*Vampyressa elisabethae* Tavares, Gardner, Ramirez-Chaves, and Velasco


Type Locality: Rancho Mojica, upper Changena River, ±20 mi (32.2 km) SSW of Changuinola, 9º6′N, 82º34′W, 1,463 m, Provincia Bocas del Toro, Panama.

*Vampyressa minuta* G. S. Miller


Holotype: USNM 173832. In alcohol, [skull removed]. Immature female. Collected May 1911 by A. Busck. No original number.

Type Locality: Cabima (La Cabima), [Panama], Panama.

Genus *Vampyrus* Rafinesque, 1815

*Vampyrus spectrum nelsoni* Goldman


Type Locality: San Blas, [FC: altitude 75 ft (23 m)], Tepic (Nayarit), Mexico.

Genus *Pteronotus* Gray, 1838

*Chilonycteris mexicana* G. S. Miller


Type Locality: San Blas, [FC: altitude 75 ft (23 m)], Tepic (Nayarit), Mexico.

*Chilonycteris portoricensis* G. S. Miller


Type Locality: Cave near En Café, La Gonave Island (Ile de la Gonave), [Ouest], Republic of Haiti.
Type Locality: Cave near Pueblo Viejo, Puerto Rico, W. I. (West Indies).

**Family Noctilionidae Gray, 1821**

**Genus Noctilio Linnaeus, 1766**

*Noctilio leporinus mexicanus* Goldman

*Noctilio leporinus mastivus* Vahl, 1797. See Davis (1973: 869).

Type Locality: Papayo, Guerrero, Mexico.

**Family Thyropteridae Miller, 1907**

**Genus Thyroptera Spix, 1823**

*Thyroptera discifera abdita* Wilson

Type Locality: 50 mi (80 km) E [SL: from] Bluefields, Escondido River, [Atlantico Sur], Nicaragua.

*Thyroptera discifera major* G. S. Miller

= *Thyroptera discifera discifera* (Lichtenstein and Peters, 1855).

Type Locality: San Julian, [Vargas], Venezuela.
Remarks: Originally W. Robinson collection number 1511.

**Family Natalidae Gray, 1866**

**Genus Chilonatalus Miller, 1898**

*Chilonatalus macer* G. S. Miller
See Tejedor (2011:26) for current use.

*Chilonatalus tumidifrons* G. S. Miller
Type Locality: In a cave near Sandy Point, southwest corner of Watlings Island (San Salvador Island), Bahamas Islands, (Bahamas).

*Chilonatalus tumidifrons* (Dobson, 1880). See Tejedor (2011:30) who placed *brevimanus* in what he considered a monotypic *micropus*.
Type Locality: Old Providence Island (Isla de Providencia), Caribbean Sea, [San Andres y Providencia, Colombia].

**Genus Natalus Gray, 1838**

*Natalus dominicensis* Shamel

= *Natalus stramineus* Gray, 1838. See Goodwin (1959:5) who placed *dominicensis* in *stramineus* as a valid subspecies and Tejedor (2011:73) who considered *stramineus* to be monotypic.
Type Locality: Island of Dominica, [MC: West Indies].

*Natalus major* G. S. Miller
Holotype: USNM 101395. In alcohol, [skull removed]. Adult male. Collected [Poole and Schantz (1942): 1869–1871], by W. M. Gabb. No original number. [MC: Received from the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University); cataloged 3 Nov 1899].
Type Locality: [MC: From cave] near Savaneta (Sabaneta), San (Santo) Domingo, [Santiago, Dominican Republic], West Indies.

*Natalus mexicanus* G. S. Miller
Type Locality: Santa Anita, Lower California (Baja California Sur), Mexico.

*Natalus stramineus natalensis* Goodwin
= *Natalus macrourus* (Gervais, 1856). See Tejedor (2011:39) who placed *natalensis* in *spiritusantensis* and Garbino and Tejedor (2013:237) who determined that *spiritusantensis* was a junior synonym of *macrourus*.


Type Locality: Natal, Rio Grande do Norte, Brazil.

*Natalus tumidirostris* G. S. Miller

See Tejedor (2011:79) who considered *tumidirostris* to be monotypic.

Holotype: USNM 102106. In alcohol, [skull removed]. Adult male. Collected 1 May 1900 by [MC: L. J. Guthrie]. No original number.

Type Locality: In a cave at Hatto, [MC: a country estate], north side of Curacao, [Netherlands Antilles], West Indies.

**Family Molossidae Gervais, 1856**

**Genus Chaerephon Dobson, 1874**

*Chaerephon luzonus* Hollister

= *Chaerephon plicatus luzonus* Hollister, 1913. See Hill (1961:52) who placed *luzonus* as a subspecies of *Tadarida plicata* and Freeman (1981:152) who placed it in *Chaerephon*.

Holotype: USNM 144881. In alcohol, skull removed. Adult male [A. L. Gardner in litt.: but is obviously a female]. Collected on unknown date by E. A. Mearns. No original number. [MC: Cataloged 13 Nov 1907].

Type Locality: Cagayan, Cagayan Province, Northern Luzon, [Philippines].

*Chaerephon pumilus naivashae* Hollister


Type Locality: Naivasha Station, [Rift Valley], British East Africa (Kenya).

*Nyctinomus jobensis* G. S. Miller


Type Locality: Ansus, Island of Jobie (Yapen), northwestern New Guinea, [Papua, Indonesia].

*Nyctinomus pusillus* G. S. Miller


Holotype: USNM 20097, not 20091 as in original description/37852. In alcohol, [skull removed]. Adult female. Collected on unknown date by W. L. Abbott. No original number. [MC: Alcoholic cataloged 30 Jun 1893; skull 12 Feb 1900].

Type Locality: Aldabra Island, [Aldabra Atoll, Seychelles], Indian Ocean.

**Genus Cheiromeles Horsfield, 1824**

*Cheiromeles parvidens* Miller and Hollister


Type Locality: Pinedapa, [Sulawesi Tengah], Middle Celebes (Sulawesi), [Indonesia].

**Genus Eumops Miller, 1906**

*Eumops amazonicus* Handley


Type Locality: Manaos (Manaus), Amazonas, Brazil.

Remarks: Museu Paulista number 365a.

*Eumops hansae* Sanborn

Holotype: USNM 200993. [Skin and skull]. Adult male. Collected in 1901 by H. Ehrhardt. No original number.

Type Locality: Colonia Hansa, near Joinville, Santa Catherina (Catarina), Brazil.

Remarks: Museu Paulista number 1339.

*Molossus californicus* Merriam


Holotype: USNM 186448. [In alcohol]. Adult female. Collected 14 Dec 1889 by E. C. Thurber. No original number. Merriam collection number 5736.

Type Locality: Alhambra, Los Angeles County, California.

Remarks: Published as Merriam collection number 5736. Cataloged as USNM 186448 on 13 Oct 1911.
Nyctinomus orthotis H. Allen
Type Locality: Spanishtown (Spanish Town), [St. Catherine, Jamaica].
Remarks: Published as USNM 9397 to which skull number 37447 belongs.

Genus Molossus E. Geoffroy, 1805

Molossus debilis G. S. Miller
Type Locality: St. Kitts, [Saint Kitts and Nevis], Lesser Antilles.

Molossus fortis G. S. Miller
Type Locality: Luquillo, Porto (Puerto) Rico.

Molossus nigricans G. S. Miller
Type Locality: Acaponeta, [FC: altitude 150 ft (46 m)], Tepic (Nayarit), Mexico.

Molossus pretiosus G. S. Miller
Type Locality: La Guaira, [Vargas], Venezuela.

Molossus pygmaeus G. S. Miller

Genus Mormopterus Peters, 1865

Mormopterus phrudus Handley
Type Locality: San Miguel Bridge, altitude 6,000 ft (1,829 m), Urubamba River, Machu Picchu, Cuzco (Cusco), Peru.

Tadarida loriae cobourgiana Johnson
Type Locality: Black Rock Point on north shore of Van Diemen Gulf, 15 mi (24 km) southeast of Cape Don lighthouse, Cobourg Peninsula, Northern Territory, Australia, lat. 11°26′S, long. 131°56′E.

Genus Nyctinomops Miller, 1902

Dysopes aurispinosus Peale
U.S. Explor. Exped. 8: 21, 1848.
Type Locality: About 100 mi (161 km) south of Cape St. Roque (Cabo Sao Roque), Brazil.
Remarks: The holotype was not designated by number in the original description. However, Peale (1848:21) speaks of a single specimen that flew aboard the U.S. ship Peacock. The specimen listed above was first cataloged 20 Dec 1859 as USNM 3726 and then a second time on 31 Oct 1861 when it was assigned USNM 5476. In both instances the entry reads Molossus aurispinosus Brazil, U.S. Exploring Expedition. There is no question this is the specimen Peale (1848:21) described and is the holotype by monotypy (ICZN, 1999: Article 73.1.2).

Nyctinomops yucatanicus G. S. Miller
Type Locality: Chichen Itza, Yucatan, [SL: Mexico].

**Nyctinomus europus** H. Allen
Lectotype: USNM 101498 as designated by Shamel (1931b:14).  
Type Locality: Brazil. Restricted by Cabrera (1958:121) to Córumba, Mato Grosso do Sul, Brazil.

**Nyctinomus femorosaccus** Merriam
Type Locality: Agua Caliente (Palm Springs), [MCC: west end] Colorado Desert, [Riverside County], California.  
Remarks: Published as Merriam Collection number 2276. Cataloged USNM 186447 on 13 Oct 1911.

**Nyctinomus macrotis nevadensis** H. Allen
= *Nyctinomops macrotis* (Gray, 1840). See G. S. Miller (1902d:393). *N. macrotis* was considered to be monotypic by Simmons (2005:447).  
Type Locality: California and Nevada, but restricted by selection of the lectotype to California.  
Remarks: The original description was based on two specimens. J. A. Allen (1894:326, footnote) selected USNM 15178/36569 to be the type = lectotype (ICZN, 1999: Article 74.5).

**Genus Promops** Gervais, 1856

**Promops pamana** G. S. Miller  
Holotype: USNM 105528. Skin only [in alcohol]. Adult male. Collected 22 Mar 1901 by J. B. Steere. No original number.

Type Locality: Hyutananham (Huitanaa), Upper Purus River, [Amazonas], Brazil.

**Genus Tadarida** Rafinesque, 1814

**Nycticea cynocephala** Le Conte  
Holotype: USNM 4742. [Skin with skull inside]. Age and sex unknown. Collected on unknown date by [MC: Maj. LeConte]. No original number. [MC: Cataloged 13 Apr 1861].  
Type Locality: Unknown. Long presumed to be the LeConte plantation (Woodmanston), near Riceboro, Liberty County, Georgia.  
Remarks: A type was not designated by number in the original description. USNM 4742 has long been considered the type, Lyon and Osgood (1909:279) and Poole and Schantz (1942:123). It is a LeConte specimen, bears two old labels that have *cynocephalus* written on them, and is entered in the museum catalog as such.

**Nyctinomus antillularum** G. S. Miller  
Type Locality: Roseau, [Saint George], Dominica, West Indies.

**Nyctinomus mohavensis** Merriam  
Type Locality: [FC: At a pond 3 mi (5 km) south of] Fort Mohave, [Mohave County], Arizona.  
Remarks: Published as Merriam collection number 5418. Cataloged as USNM 186446 on 13 Oct 1911.

**Tadarida constanzae** Shamel  
Type Locality: Constanza, Dominican Republic.

**Tadarida intermedia** Shamel  
Type Locality: Valley of Comitan, [FC: altitude 5,700 ft (1,737 m)], Chiapas, Mexico.

Family Vespertilionidae Gray, 1821

Genus Antrozous H. Allen, 1862

Antrozous minor G. S. Miller
Type Locality: Comondu, Lower California (Baja California Sur), Mexico.

Antrozous pallidus cantwelli Bailey
Type Locality: Acuna Ranch, 800 m, approximately 40 km north of Gonzales in the Sierra de Tamaulipas, Tamaulipas, Mexico.
Remarks: Published as 11362, the Museum, Michigan State University. Cataloged USNM 395263 on 10 Dec 1968.

Antrozous palidus pacificus Merriam
Type Locality: Old Fort Tejon, Canada del las Uvas (Grapevine Canyon), [Tehachapi Mountains, Kern County], California.

V[espertilio], pallidus Le Conte

Genus Corynorhinus H. Allen, 1865

Corynorhinus macrotis pallescens G. S. Miller
= Corynorhinus townsendii pallescens G. S. Miller, 1897. See Handley (1955b:147).
Type Locality: Keam (Keams) Canyon, [FC: 80 mi (129 km) north of Holbrook], Navajo County, Arizona.

Corynorhinus megalotis mexicanus G. M. Allen
Type Locality: Near Pacheco, Chihuahua, Mexico.

Corynorhinus townsendii australis Handley
Type Locality: [MC: Boca Mine], 2 mi (3 km) W Jacala, 5,500 ft (1,676 m), Hidalgo, Mexico.

Corynorhinus townsendii ingens Handley
Holotype: USNM 296767. Skin and skull. Adult male. Collected 4 Dec 1930 by J. A. Sealander. No original number. [SL: University of Arkansas, Zoology Department number M50-14].
Type Locality: Hewlitt Cave, 12 mi (19 km) W Fayetteville, Washington County, Arkansas.

*Corynorhinus townsendii virginianus* Handley
Type Locality: Schoolhouse Cave, 4.4 mi (7 km) NE Riverton, [SL: 22 mi (35 km) SE Petersburg], 2,205 ft (672 m), Pendleton County, West Virginia.

**Genus *Eptesicus* Rafinesque, 1820**

*Eptesicus hispaniolae* G. S. Miller
Type Locality: Constanza, [SL: 5,000 ft (1,524 m)], Santo Domingo (Dominican Republic).

*Eptesicus lynni* Shamel
Type Locality: A cave [MC: 3 mi (5 km)] east of Montego Bay, [MC: a few hundred yards off the main road which encircles the island], [Saint James], Jamaica.

*Eptesicus pallidus* Young
= *Eptesicus fuscus pallidus* Young, 1908. See G. S. Miller (1912b:62).
Holotype: USNM 142526. [Skin and skull]. Adult female. Collected 22 Jul 1903 by R. T. Young. Original number [SL: 1315].
Type Locality: Boulder, [Boulder County], Colorado.

*Eptesicus serotinus pallens* G. S. Miller
Type Locality: Ch‘eng-yuan-hsin (Chengyang Xiang?), [FC: 4,150 ft (1,265 m)], 70 mi (113 km) west of Ch‘ing-yang-fu (Qingyang), Kansu (Ningxia), China.

*Eptesicus wetmorei* Jackson
Type Locality: Maricao, altitude 1,375 ft (419 m), Puerto Rico.

*Vespertilio fuscus bahamensis* G. S. Miller
Type Locality: Nassau, New Providence [Island], Bahamas.

**Genus *Histiotus* Gervais, 1856**

*Histiotus humboldti* Handley
Type Locality: Los Venados, 4 km NNW Caracas [SL: 5 mi (8 km) N of Caracas], 10º32‘N, 66º54‘W, 1,498 m, Distrito Federal, Venezuela.

**Genus *Hypsugo* Kolenati, 1856**

*Pipistrellus curtatus* G. S. Miller
Type Locality: Engano Island (Pulau Enggano), [Bengkulu], Sumatra, [Indonesia].
Genus Kerivoula Gray, 1842

Kerivoula bombifrons Lyon
Type Locality: Along Matan River (Sungai Matan), [Kalimantan Barat], Borneo (Kalimantan), [Indonesia].

Kerivoula depressa G. S. Miller
Type Locality: Biapo, Carin (Karin) Hills, northeast Toungoo (Toungoo), [Kayin ?], southern Burma, India.

Kerivoula engana G. S. Miller
Type Locality: Pulo (Pulau) Dua, Engano (Pulau Enggano), [Bengkulu, Sumatra, Indonesia].

Kerivoula minuta G. S. Miller
Type Locality: [MC: Lay Song Hong], Trong (Trang), Siam (Thailand).

Genus Laephotis Thomas, 1901

Laephotis botswanae Setzer
Type Locality: 50 mi (80 km) W, 12 mi (19 km) S Shakawe, [Schmidt et al. (2008:35): 18°32′S, 21°05′E], Botswana.

Laephotis namibensis Setzer
Type Locality: Namib Research Station, Gobabeb, [Schmidt et al. (2008:35): 23°33′S, 15°22′E], South West Africa (Namibia).

Genus Lasiurus Gray, 1831

Atalapha semota H. Allen
Lectotype: USNM 15631/38983 as designated by Lyon and Osgood (1909:276). In alcohol, [skull removed]. Adult female. Collected on unknown date by V. Knudsen. No original number. [MC: Cataloged 4 Jan 1887].
Type Locality: Sandwich (Hawaiian) Islands.
Remarks: Published as USNM 15631, to which USNM 38983 belongs.

Atalapha teliotis H. Allen
Holotype: USNM 84555. In alcohol, skull removed and lost. Age, sex, collector, and date collected unknown. [MC: Cataloged 27 Apr 1898].
Type Locality: Unknown. Lyon and Osgood (1909:277) stated probably California.
Remarks: A type was not designated by number in the original description. However, Allen based his description on a single specimen that was sent to him by J. G. Cooper of the California Academy of Sciences (Lyon and Osgood, 1909:277). USNM 84555 bears an original label marked Atalapha teliotis, Cal. Acad. N. S. I is without doubt that single specimen and therefore is the holotype by monotypy (ICZN, 1999: Article 73.1.2).

Dasypterus floridanus G. S. Miller
Type Locality: Lake Kissimmee, [Osceola County], Florida.

Lasiurus borealis ornatus Hall
Type Locality: Penuela, [SL: near Cordova (Cordoba)], Veracruz, [Mexico].
**Lasiurus castaneus** Handley
Type Locality: Tacarcuna Village [SL: Camp], 3,200 ft (975 m), Rio Pucro, Darien, Panama.

**Lasiurus degelidus** G. S. Miller
Holotype: USNM 96188, not 96187 as in original description. In alcohol, [skull removed]. Adult female. Collector and date not given. Received from the Institute of Jamaica in 1898. [SL: 1908-X].
Type Locality: Sutton’s (Suttons), District of Vere, [Clarendon], Jamaica.

**Lasiurus intermedius** H. Allen
= **Lasiurus intermedius** intermedius H. Allen, 1862.
Lectotype: USNM 6136 as designated by Lyon and Osgood (1909:292). [In alcohol]. Age, sex, and collector not given. [MC: Received from L. B. Couch. Cataloged 7 Feb 1863].
Type Locality: Matamoros, Tamaulipas, [Mexico].
Remarks: Lyon and Osgood (1909:292), reiterated by Poole and Schantz (1942:571), gave their reasons for selecting USNM 6136 as the type = lectotype. A note written in the Museum Catalog indicates that the specimen could not be found on 5 Mar 1902; its whereabouts is still unknown.

**Lasiurus minor** G. S. Miller
Type Locality: From owl pellets in the Voute l'Eglise, a cave situated near the Jacmel road a few kilometers north of Trouin, altitude 1,350 ft (411 m), [Ouest], Haiti.

**Myotis quebecensis** Yourans
= **Lasiurus borealis** (Muller, 1776). See Maheux (1930:185-186).
Type Locality: Anse-a-Wolfe (Anse au Foulon), Quebec, Canada.

**Miniopterus paululus** Hollister
Type Locality: Guimaras Island, [Guimaras Province], [MC: Philippine Islands] (Philippines).

**Murina Murina** Gray, 1842

**Myotis abbotti** Lyon
Type Locality: North Pagi Island (Pulau Pagai Utara), [Sumatera Barat, Sumatra, Indonesia].

**Myotis adversus continentis** Shamel
Type Locality: Bangkok (Krung Thep), [Krung Thep], C. Siam (Thailand).

**Myotis altifrons** Hollister
= **Myotis volans longicrus** (True, 1886). See Miller and Allen (1928:140).
Type Locality: Henry House, altitude 3,350 ft (1,021 m), Alberta, [Canada].

**Myotis australiparius mumfordi** Rice
Type Locality: Bronson Cave, Spring Mill State Park, 3 mi (5 km) east of Mitchell, Lawrence County, Indiana.

**Myotis baileyi** Hollister


= **Myotis occultus** Hollister, 1909. See Miller and Allen (1928:97).
Type Locality: Base of White Mountains, altitude 7,500 ft (2,286 m), near Ruidoso, [Lincoln County], New Mexico.

**Myotis californicus caurinus** G. S. Miller

Type Locality: [SL: Massett], [Graham Island], Queen Charlotte Islands, British Columbia, [Canada].

**Myotis californicus pallidus** Stephens

Type Locality: Vallecito, [SL: altitude 1,600 ft (488 m)], San Diego County, California.

**Myotis capitaneus** Nelson and Goldman


= **Myotis volans volans** (H. Allen, 1866). See Miller and Allen (1928:139).
Type Locality: San Jorge, altitude 100 ft (30 m) [FC: 50 ft (15 m)], 30 mi (48 km) southwest of Comondu, Lower California (Baja California Sur), Mexico.

**Myotis carimatae** G. S. Miller


Type Locality: Telok (Teluk) Edar, Karimata Island (Pulau Karimata), [Kalimantan Barat, Borneo (Kalimantan), Indonesia].

**Myotis deignani** Shamel


Type Locality: Chiengmai (Chiang Mai), [SL: altitude 1,000 ft (305 m)], [Chiang Mai, Siam (Thailand)].

**Myotis diminutus** Moratelli and Wilson

Type Locality: Rio Palenque Science Center, elevation about 150 m, 0º35′11″S, 79º21′53″W, 47 km S (by road) from Santo Domingo, Los Rios, Ecuador.

**Myotis dominicensis** G. S. Miller

Type Locality: Dominica, West Indies.

**Myotis findleyi** Bogan

Type Locality: Isla Maria Magdalena, Islas Tres Marias, Nayarit, [Mexico].

**Myotis flavus** Shamel


Type Locality: Enri, Formosa (Taiwan).

**Myotis grisescens** A. H. Howell

Type Locality: Nickajack Cave, near Shellmound, Marion County, Tennessee.

**Myotis handleyi** Moratelli, Gardner, De Oliveira, and Wilson

Type Locality: Pico Avila, [SL: Hotel Humboldt], elevation 2,092 m, 5 km northeast [SL: 9.4 km N] of Caracas, about 10.33° (10°33′ N, 66.52° (66º52′) W, Distrito Federal, Venezuela.

*Myotis bursatus* A. B. Howell
Type Locality: Near Yenpingfu (Nanping), altitude 2,000 ft (610 m), Fukien (Fujian), [SL: SE] China.

*Myotis longicrus amotus* G. S. Miller
Type Locality: Cofre de Perote, altitude 12,500 ft (3,810 m), Vera Cruz (Veracruz), Mexico.

*Myotis lucifugus alascensis* G. S. Miller
Type Locality: Sitka, Alaska.

*Myotis lucifugus phasma* Miller and Allen

*Myotis micronyx* Nelson and Goldman
Type Locality: Comondu, altitude 700 ft (213 m), Lower California (Baja California Sur), Mexico.

*Myotis nesopolus* G. S. Miller
Type Locality: [SL: Punda], near Willemstad, Curacao, [Netherlands Antilles], West Indies.

*Myotis niasensis* Lyon
Type Locality: Siaba Bay, Nias Island (Pulau Nias), [Sumatera Utara], off west coast of Sumatra, [Indonesia].

*Myotis nigricans extremus* Miller and Allen
Type Locality: Huehuetan, altitude 300 ft (91 m), [Huehuetan Municipality], Chiapas, Mexico.

*Myotis occultus* Hollister
Type Locality: West side of Colorado River [SL: bottom], 10 mi (16 km) above Needles, [San Bernardino County], California.

*Myotis pernox* Hollister
Type Locality: Henry House, Alberta, [Canada].

*Myotis petax* Hollister
See Matveev et al. (2005:33) for current use.
Type Locality: Kosh-Agatch (Kosh-Agach), Chuisaya Steppe, altitude 7,300 ft (2,225 m), Altai District (Altayskiy), Siberia (Russia).

*Myotis petax loukashkini* Shamel


Type Locality: Wutalienchieh, Third Lake, Heilungkiang (Heilongjiang) Province, North Manchuria (China).

*Myotis siligorensis thaianus* Shamel


Type Locality: Chiengmai (Chiang Mai), [SL: 1,000 ft (305 m)], [Chiang Mai], [FC: northern] Siam (Thailand).

*Myotis simus riparius* Handley


Type Locality: Tacarcuna Village [SL: Camp], 3,200 ft (975 m), Rio Pucro, Darien, Panama.

*Myotis sowerbyi* A. B. Howell


Type Locality: Near Yenpingfu (Nanping), altitude 2,000 ft (610 m), not 3,000 ft as in original description, Fukien (Fujian), China.

*Myotis thysanodes* G. S. Miller


Type Locality: Old Fort Tejon, [Tehachapi Mountains, Kern County], California.

*Myotis winnemana* Nelson


Type Locality: Plummers Island, in Potomac River 10 mi (16 km) above Washington, [Montgomery County], Maryland.

*Myotis yumanensis lutosus* Miller and Allen


Type Locality: Patzcuaro, [FC: altitude 7,000 ft (2,134 m)], Michoacan, Mexico.

*Myotis yumanensis saturatus* G. S. Miller


Type Locality: Montecristo, Tabasco, Mexico.

*Pipistrellus cinnamomeus* G. S. Miller


Type Locality: Fort Smith, [Sebastian County], Arkansas.

Remarks: The description was based on a single specimen, USNM 5342, listed by number.

*Vespertilio affinis* H. Allen

= *Myotis lucifugus lucifugus* (Le Conte, 1831). See G. S. Miller (1897a:20).

Holotype: USNM 5342. In alcohol, [skull removed and cannot be found]. [Lyon and Osgood (1909:270): Adult female], Presented by Dr. Shumard. Date of collection, collector, and original number not given [MC: Cataloged 30 Oct 1861].

Type Locality: Fort Smith, [Sebastian County], Arkansas.

Remarks: The description was based on a single specimen, USNM 5342, listed by number.

[Vespertilio]. *agilis* H. Allen


Type Locality: Mirador, [Veracruz], Mexico.

Remarks: H. Allen (1866:282) stated that the single specimen was in the Museum of the Smithsonian Institution but did not give a number. Both Lyon and Osgood (1909:290) and Poole and Schantz (1942:572) stated that nothing is known of the specimen. According to Koopman (1976:5), and verified by R. D. Fisher on 19 Jun 1996, it is in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University).
Vespertilio ciliolabrum Merriam
Type Locality: Near Banner, Trego County, Kansas.
Remarks: Published as Merriam collection number 2797. Cataloged USNM 186444 on 13 Oct 1911.

Vespertilio evotis H. Allen
= Myotis evotis evotis (H. Allen, 1864). See G. S. Miller (1897a:77).
Type Locality: Monterey, [Monterey County], California.
Remarks: A type was not designated by number in the original description. Lyon and Osgood (1909:290) stated that USNM 5389 should be considered the type = lectotype (ICZN, 1999: Article 74.5). This specimen cannot be found.

[Vespertilio]. exiguous H. Allen
= Myotis exigius nigricans nigricans (Schinz, 1821). See Miller and Allen (1928:178).
Holotype: USNM 5373, ANSP 5626. In alcohol. [MC: Female], age not given. Collector unknown. [MC: Received from Dr. Hayer. Cataloged 30 Oct 1861].
Type Locality: Aspinwall (Colon), N. G. (Colon, Panama).
Remarks: The museum catalog states that this specimen was not found 5 Mar 1902. According to Koopman (1976:6), and verified by R. D. Fisher on 19 Jun 1996, it is in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University) as ANSP 5626 and also bears the ANSP number 1813.

[Vespertilio]. exilis H. Allen
= Myotis californicus californicus (Audubon and Bachman, 1842). See G. S. Miller (1897a:69).
Type Locality: Cape (Cabo) St. (San) Lucas, [Baja California Sur, Mexico].
Remarks: This specimen, listed by number (USNM 5402) in the original description, was originally USNM 4977, cataloged on 31 May 1861. It is also a syntype of Vespertilio orego-
nensis H. Allen, 1864. Overlooked by both Lyon and Osgood (1909) and Poole and Schantz (1942), this specimen is currently ANSP number 1841. See Koopman (1976:5) and verified by R. D. Fisher on 19 Jun 1996.

Vespertilio grypus var. septentrionalis Trouessart
Type Locality: Halifax, Nova Scotia, [Canada].

Vespertilio longicrus True
Sci. 8: 588, 24 Dec 1886b.
= Myotis volans longicrus (True, 1886). See Miller and Allen (1928:140).
Holotype: USNM 15623/22480. [In alcohol, skull removed]. Young adult female. Collected on unknown date by D. S. Jordan. No original number. [MC: Cataloged 16 Dec 1886].
Type Locality: Vicinity of Puget Sound, [Washington].
Remarks: A type was not designated by number in the original description, but a single specimen is implied. It is undoubtedly USNM 15623/22480 and type is written in the “Remarks” column of the museum catalog. The holotype is fixed by monotypy (ICZN, 1999: Article 73.1.2).

[Vespertilio]. lucifugus LeConte
= Myotis lucifugus lucifugus (LeConte, 1831). See G. S. Miller (1897a:59).
Syntype: USNM 4741. Skin only. Age and sex not given. Collected on unknown date by J. E. LeConte. No original number. [MC: Cataloged 13 Apr 1861].
Type Locality: Not given. [MC: United States]. [Miller and Rehn (1901:256): Georgia; probably the LeConte plantation (Woodmanston) near Riceboro, Liberty County].
Remarks: A note in the USNM skin catalog says “now (Mar 1927) in the British Museum Number 7.1.1.534.” Miller and Allen (1928:44) stated that “this specimen may well be one of the specimens on which LeConte based his original account of the animal.”

Vespertilio macropus H. Allen
Type Locality: Near Fort Majaor (Mohave), [note from Coues to Merriam dated 30 Jan 1898 states “Piute Spring, about 25 mi (40 km) W of Fort Mojave"], New Mexico (Mohave County, Arizona).

Remarks: A type was not designated by number in the original description, which was based on a single specimen in Coues’s private collection. USNM 84549, bearing a Coues private collection label, is marked V. macropus Nov. Type, and is the only one in the collection that matches the data given by Allen. It is without question the specimen upon which the taxon was based and therefore is the holotype by monotypy (ICZN, 1999: Article 73.1.2). It was found in the collection unnumbered and cataloged USNM 84549 on 21 Apr 1898. The discrepancy between the date collected on the skin label and the one given by Coues is difficult to understand, but we believe Coues to be correct, as H. Allen (1866:288) stated he was reporting on specimens collected by Coues in 1864 and 1865 and the date the description was ordered published, 28 Aug 1866, was before the date collected given on the skin label, 1 Nov 1866.

**Vespertilio melanorhinus** Merriam


Type Locality: Little Spring, north base of San Francisco Mountain, [Miller and Kellogg (1955:96): 8,250 ft (2,515 m)], Coconino County, Arizona.

**Vespertilio, mundus** H. Allen


Holotype: USNM 5547, ANSP 1812. In alcohol. Young female. No collector, original number, or date collected given. [MC: Cataloged 6 Feb 1862].

Type Locality: Maracaibo, [Zulia], Venezuela.

Remarks: This specimen is currently ANSP 1812, collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University) (Koopman, 1976:6), as verified by R. D. Fisher on 19 Jun 1996.

**Vespertilio nitidus** H. Allen


Lectotype: USNM 1891 as designated by G. S. Miller (1897a:69). [Skin]. Age and sex not given. Collected by W. Hutton, date unknown. No original number. [MC: Cataloged 13 Dec 1856 and then later, 31 Oct 1861 as USNM 5437].

Type Locality: Monterey, [Monterey County], California.

Remarks: A type was not designated in the original description. G. S. Miller (1897a:69), as first revisor, selected Monterey as the type locality and referred Allen’s specimens from Fort Steilacoom to his new taxon, *Myotis Californicus Caurnius*. H. Allen (1862:247) had only one specimen from Monterey, USNM 1981. Although there currently is a skull in the collection that bears USNM 1981, it is in error. Number 1981 in the bone catalog is a *Putorius vison* from Carlisle, Pennsylvania and the skull in question is a *Parastrellus hesperus* (A. L. Gardner, pers. com. to R. D. Fisher). There is no reason to believe that a skull was ever cataloged for this specimen.

**Vespertilio nitidus henshawii** H. Allen


Type Locality: Near Fort Wingate, [McKinley County], New Mexico.

Remarks: Both specimens were originally cataloged as USNM 12450. Later, on 12 Jun 1900, one was recataloged as USNM 102426.

**Vespertilio obscurus** H. Allen


Type Locality: Lower (Baja) California, [Mexico].

Remarks: As the type locality and referred Allen’s specimens from Fort Steilacoom to his new taxon, *Myotis californicus caurinus*. H. Allen (1862:247) had only one specimen from Monterey, USNM 1881. Although there currently is a skull in the collection that bears USNM 1881, it is in error. Number 1881 in the bone catalog is a *Putorius vison* from Carlisle, Pennsylvania and the skull in question is a *Parastrellus hesperus* (A. L. Gardner, pers. com. to R. D. Fisher). There is no reason to believe that a skull was ever cataloged for this specimen.

**Vespertilio oregonensis** H. Allen


Syntype: USNM 5512/37335. Skin and skull. No data were originally associated with this specimen. It is labeled Vespertilio oregonensis Major LeConte. [MC: Skin originally cataloged as USNM 4740 on 13 Apr 1861. Recataloged as USNM 5512 on 1 Nov 1861. Skull cataloged on 2 Mar 1898].

Type Locality: The type locality comprises all of the localities published for the syntypes (ICZN, 1999: Article 73.2.3). They are USNM 5402: Cape Saint (Cabo San) Lucas, [Baja California Sur, Mexico]; USNM 5405 and 5537: Fort Yuma, Arizona, [Imperial County], California; and USNM 5512/37335: no published locality [MC: United States].

Remarks: See G. S. Miller (1897a:33) for the application of Vespertilio oregonensis to these specimens. USNM 5402 is also the holotype of Vespertilio exilis H. Allen and is in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University) as ANSP 1841 (Koopman, 1976:5), as verified by R. D. Fisher on 19 Jun 1996. USNM 5537 cannot be found. USNM 5512 was published under that number, to which skull 37335 belongs.

Vespertilio ruber E. Geoffroy
Type Locality: Sapucay (Sapucai), elevation 300 m, [Paraguari], Paraguay.

Vespertilio subulatus keenii Merriam
Am. Nat. 29: 860, 1 Sep 1895c.
Holotype: USNM 72922. [In alcohol, skull removed]. Adult female. Collected summer of 1894 by J. H. Keen. No original number.
Type Locality: Massett (Masset), Graham Island, Queen Charlotte Islands, B. C. [British Columbia], [Canada].

Vespertilio tenuidorsalis H. Allen
= Myotis californicus californicus (Audubon and Bachman, 1842). See G. S. Miller (1897a:69).
Holotype: USNM 5533, ANSP 1839. In alcohol. Female. Collected by J. Xantus. No other data provided.
Type Locality: Cape St. (Cabo San) Lucas, Lower California (Baja California Sur), [Mexico].
Remarks: The specimen number given by Allen must be incorrect as USNM 5533 is cataloged as a V. nitidus from Puget Sound collected by C. B. Kenmerley. This specimen is currently in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University), ANSP 1839, and bears the locality information given here under Type Locality (Koopman, 1976:5), as verified by R. D. Fisher on 19 Jun 1996.

Vespertilio volans H. Allen
Holotype: USNM 5398/37326, ANSP 1834. In alcohol, [skull removed]. Age and sex not given. Collected on unknown date by J. Xantus. No original number. [MC: Skin cataloged 31 Oct 1861; skull 1 Mar 1898].
Type Locality: Cape (Cabo) San Lucas, Lower California (Baja California Sur), [Mexico].
Remarks: Published as USNM 5398 to which USNM 37326 belongs. The fluid specimen is in the collection of the Academy of Natural Sciences of Drexel University as ANSP 1834 (Koopman, 1976:5), as verified by R. D. Fisher on 19 Jun 1996.

Vespertilio yumanensis H. Allen
Type Locality: Fort Yuma, [Imperial County], California.
Remarks: None of these specimens can be found. Remarks in the Museum Catalog for USNM 5367 and 6021 state “not found 5 Mar 1902.” For USNM 6020 the remark is “distributed to Royal Mus. Copenhagen, 6 Aug 1866.” H. Allen (1866:285) stated that his type series of this taxon was not available to him for his 1866 work as they were mislaid during the fire at the Smithsonian Institution in Jan 1865 and have not since been found.

Genus Neoromicia Roberts, 1926

Eptesicus ugandae Hollister
Type Locality: Ledgus, [Central Equatoria], Uganda (South Sudan).

**Pipistrellus helios** Heller
Holotype: USNM 181813. [Skin and skull]. Adult male. Collected 22 Jul 1911 by E. Heller. Original number 3065.
Type Locality: Merelle Water, 30 mi (48 km) south of Mt. Marsabit, [Eastern Province], British East Africa (Kenya).

**Pipistrellus minusculus** G. S. Miller

**Genus Nycticeius** Rafinesque, 1819

_Nycticeius_. crepuscularis LeConte
= Nycticeius humeralis (Rafinesque, 1818). See G. S. Miller (1897a:118).
Syntypes: USNM 4735 and USNM 4736. [Skins with skulls inside]. Age and sex not given. Collected by [MC: Maj. LeConte]. No original number. [MC: Cataloged 13 Apr 1861].
Type Locality: None given. [MC: United States]. [LeConte (1855:433): inhabits Georgia].
Remarks: Following Lyon and Osgood (1909:159), these specimens have been regarded as syntypes more from tradition than anything else. There is nothing in the original description to show that they are syntypes. They were presented to the museum years ago by Major LeConte as typical, or perhaps as original, specimens. Each bears two old labels: a small paper tag and a standard Smithsonian Institution label. The word “Crepuscularis” is written on each of the paper tags in a handwriting that cannot be identified. The large label on USNM 4735 is so stained as to be illegible, but the one on USNM 4736 is in good condition. Its inscription reads “4736 Vespertilio crepuscularis U. States Maj. LeConte” and was written by Baird, according to Lyon and Osgood (1909:159).

**Genus Nyctophilus** Leach, 1821

_Nyctophilus_. arnhemensis Johnson
Type Locality: Rocky Bay, south of Yirrkala, Cape Arnhem Peninsula, Northern Territory, Australia, lat. 12°16’S, long. 136°47’E.

**Genus Parastrellus** Hoofer, Van Den Bussche, and Horacek, 2006

**Pipistrellus hesperus australis** G. S. Miller
Type Locality: Barranca Ibarra, altitude about 3,000 ft (914 m), Jalisco, Mexico.

*Scotophilus hesperus* H. Allen
Type Locality: [Lyon and Osgood (1909:274): Old] Fort Yuma, [Imperial County], California.
Remarks: No type was designated by number in the original description, which mentioned three specimens by number. G. S. Miller (1897a:88) called USNM 5406/37406 the type = lectotype (ICZN, 1999: Article 74.5). It was published as USNM 5406; USNM 37406 is the skull that belongs with it.

Vesperugo merriami Dobson
Type Locality: [MCC: Red Bluff, Tehama County, California].
Remarks: Type not designated by number in the original description. Dobson (1886:125) stated that he had a single adult male, that True (1888:515) said was sent to him by C. H. Merriam. A perusal of the Merriam collection catalog reveals an entry, number 1135, of Vesperugo without a species name. At a later unknown date, Vesperugo was changed to Vesperugo and merriami Dobson was added. It is marked as the type and the data for the specimen matches that published for the type. It is without question the holotype by monotypy (ICZN, 1999: Article 73.1.2). Dobson (1886:125) erroneously gave the locality as Locust Grove, New York, the location of the Merriam collection at the time. This error was corrected by G. S. Miller (1897a:31). Cataloged as USNM 186445 on 13 Oct 1911.

Genus Perimyotis Menu, 1984

Pipistrellus subflavus obscurus G. S. Miller
Type Locality: Lake George, Warren County, New York.

Genus Phoniscus Miller, 1905

Phoniscus atrox G. S. Miller

Phoniscus jagorii G. S. Miller
Type Locality: Vicinity of Kateman River (Sungai Kateman), [Riau], eastern Sumatra, [Indonesia].

Genus Pipistrellus Kaup, 1829

Pipistrellus aero Heller
Type Locality: Summit of Mount Garguez (Warges), altitude 7,000 ft (2,134 m), [SL: 7,100 ft (2,164 m)], Mathews Range, [Rift Valley], British East Africa (Kenya).

Pipistrellus camortae G. S. Miller
= Pipistrellus javanicus camortae G. S. Miller, 1902. See Koopman (1973:115) who considered subulidens a synonym of tenuis.
Type Locality: Kamorta (Camorta) [Island], Nicobar Islands, [Andaman and Nicobar Islands, India].

Pipistrellus subulidens G. S. Miller
= Pipistrellus tenuis subulidens G. S. Miller, 1901. See Koopman (1973:115) who considered subulidens a synonym of tenuis.
Type Locality: Sirhassen Island (Pulau Serasan), South Natunas (Kepulauan Natuna Selatan), [Kepulauan Riau, Indonesia].

Genus Rhogeessa H. Allen, 1866

Rhogeessa gracilis G. S. Miller
Type Locality: Piaxtla, [FC: altitude 3,900 ft (1,189 m)], Puebla, [Mexico].

**Rhogeessa minutilla** G. S. Miller
Type Locality: Margarita Island (Isla de Margarita), [Nueva Esparita], Venezuela.

**Rhogeessa parvula** H. Allen
Type Locality: Tres Marias [Islands, Nayarit], Mexico.
Remarks: This specimen is currently in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University) as ANSP 1832 (Koopman, 1976:6), as verified by R. D. Fisher on 19 Jun 1996.

**Rhogeessa tumida** H. Allen
Type Locality: Mirador, [Veracruz], Mexico.
Remarks: Notes with the skull made by G. S. Miller, Jr. indicate that the skull was returned to the museum by H. Allen bearing the original published number, USNM 8195, which was determined to be in error and was recataloged USNM 84021 on 1 Mar 1898. LaVal (1973b:29) determined that the cranium currently numbered USNM 37329 and the mandible that matches, USNM 84021, comprise the holotype. They had apparently been mismatched. See also Hall (1952:231) for additional discussion. The skin to this specimen is currently in the collection of the Academy of Natural Sciences of Philadelphia (Academy of Natural Sciences of Drexel University) as ANSP 1831 (Koopman, 1976:6), as verified by R. D. Fisher on 19 Jun 1996.

**Genus Scotophilus** Leach, 1821

**Scotophilus nucella** Robbins
Type Locality: 1 mi (1.6 km) N Nkawkaw, [SL: 6°33′N, 0°44′W], Eastern Region, Ghana.
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