



**RESEARCH ARTICLE**  
**TAXONOMIC CATALOG OF THE BRAZILIAN FAUNA**

**Updated checklist of bats (Mammalia: Chiroptera) from Brazil**

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<https://zoobank.org/BBE43751-D48C-40A0-A198-4A8A700E7C75>

**ABSTRACT.** We present an updated checklist of Brazilian bats, commenting on the endemic and threatened status of the species listed and providing information on recent taxonomic and nomenclatural changes. The bats of Brazil comprise 186 species, 68 genera, and nine families, with 13 species exclusive to the country. From the previous checklists, we add eight species to Brazil: *Artibeus amplus*, *Choeroniscus godmani*, *Glossophaga bakeri*, *Lichonycteris obscura*, *Platyrrhinus guianensis*, *Trachops ehrhardti*, *Molossus melini* and *Myotis pampa*. The latter is reported for the country for the first time in this study. The Brazilian list of threatened species includes three species as vulnerable (*Furipterus horrens*, *Lonchophylla bokermanni*, and *Natalus macrourus*) and *Lonchophylla dekeyseri* as endangered. The International Union for the Conservation of Nature (IUCN) lists *Natalus macrourus* as “near threatened”, and *Lonchophylla bokermanni* and *L. dekeyseri* as “endangered”. Twenty-two additional species are probable for the country. Compared to previous lists, five species are now considered doubtful records and 19 are considered erroneous records. We reinforce the importance of a continuous update of the bat checklists in all Brazilian states as well as taxonomic revisions and bat inventories in unsampled areas.

**KEY WORDS.** Neotropics, nomenclature, species list, taxonomy.

**INTRODUCTION**

Lists of species are essential for the scientific community and general users, forming a base on the richness and diversity of studies and projects in conservation, local livelihoods, zoonoses surveillance, and scientific research (Garnett et al. 2020). With that in mind, there has been a

recent push to create a single, authoritative list of the Earth's biota, which has been met with a series of publications both for and against the proposal (Raposo et al. 2017, Thomson et al. 2018). Irrespective of the merits associated with the global list proposal, a specific set of 10 principles has been recommended to form the foundation of its governance (Garnett et al. 2020). Among these principles, it is important

to underscore the imperative for transparent decision-making, unrestricted taxonomic autonomy, and the active pursuit of community support and utilization.

Brazil is one of the megadiverse countries in the world and ranks fourth amongst South American countries with the largest number of bat species, behind Colombia, Ecuador, and Peru (Díaz et al. 2021, Pacheco et al. 2021, Ramírez-Chaves et al. 2022). The first effort to list the bat species occurring in Brazil was made by August von Pelzeln (von Pelzeln 1883), who described the mammals collected by Johann Natterer during the Austrian Expedition to Brazil from 1817 to 1835 and listed 48 species of bats. In the following years, there have been several subsequent efforts to list the bat richness that occurs in Brazil, especially the catalogs that include bats for the entire country (Vieira 1942, 1955), and more frequently after the 1990s (for historical reviews see Vieira 1942, Nogueira et al. 2014).

In 2011, the Brazilian Bat Research Society (Sociedade Brasileira para o Estudo dos Quirópteros – SBEQ) created the Committee of the List of Brazilian Bats (Comitê da Lista de Morcegos do Brasil – CLMB). Since then, the CLMB has been in charge of compiling and maintaining a list of Brazilian bat species, with the initial lists comprising 178 species (Nogueira et al. 2014), 182 species (Nogueira et al. 2018), and 181 species (Garbino et al. 2020a). From the initial workgroup of six, the CLMB now has 13 members as of 2024, all of whom study taxonomic aspects of bat species occurring in Brazil. One goal of the CLMB bat checklist is to create a list that both the scientific community and other important users, such as government stakeholders in charge of threatened species legislation, can use.

Simultaneously with the publication of the CLMB 2020 list, two checklists of Brazilian mammals, including bats, were published by the Brazilian Society of Mammalogy (Sociedade Brasileira de Mastozoologia – SBMz; Abreu et al. 2021) and independent researchers (Quintela et al. 2020). Added to these three recent lists of Brazilian bats, there is an ongoing project to produce a list of the country's animal species that has united more than 800 zoologists to produce an online catalog (Brazilian Zoology Group (2024). This effort, named Taxonomic Catalog of the Brazilian Fauna (Catálogo Taxonômico da Fauna do Brasil – CTFB) is constantly being updated by experts in the field, and includes members of both SBEQ and SBMz committees.

Considering that four checklists of Brazilian bats have been published in the last five years, the goals of this paper are to (1) produce an updated checklist of Brazilian bats to serve as a taxonomic and nomenclatural reference

to be used in further research and by stakeholders, such as governmental agencies; and (2) compare the similarities and differences between the new list and the three previous lists.

## MATERIAL AND METHODS

To update the checklist of bats native to Brazil, we have considered the latest taxonomic and nomenclatural studies available in the literature (e.g., Velazco and Patterson 2019, Loureiro et al. 2020, Basantes et al. 2020, Fonseca et al. 2024). We have also examined articles that report on range extensions for Brazil (e.g., Velazco et al. 2017, Garbino et al. 2022, Zortéa et al. 2023). Family, genus, and species-level taxonomy follow Wilson and Mittermeier (2019) except where noted.

We considered only formal records of bats for the checklist, which include records from peer-reviewed publications (e.g., articles, books, and short communications) that mention at least one voucher deposited in a zoological collection (Nogueira et al. 2014). Also following Nogueira et al. (2014), three lists are presented herein: a list of the formal records of bats from Brazil, a list of doubtful records, and a list of erroneous records. A formal record was considered doubtful if it was not supported by a voucher, if the taxon had an uncertain taxonomic status, or if the occurrence of the taxon in Brazil was uncertain after a taxonomic revision. An erroneous record was considered as such if the evidence supporting its occurrence in Brazil was refuted or if a taxonomic revision redefined the taxon concept. For example, Pavan and Marroig (2016) restricted *Pteronotus parnellii* to Cuba and Jamaica, and this taxon was considered an erroneous record for Brazil.

We also produced a fourth list, including species that could potentially occur in Brazil. For this, we considered a buffer area of 200 km around the boundaries of the Brazilian territory and verified extralimital records in the literature that fall within this area. The criteria to consider these records as valid followed the same for the formal records. To establish the distribution of marginal taxa, we used the compilations of Rojas et al. (2018), Marsh et al. (2022), and the IUCN shapefile data (<https://www.iucnredlist.org/resources/spatial-data-download>). After identifying the potential species, we removed taxa that could not occur in Brazil due to geographical barriers (e.g., montane species that fell in the 200 km buffer zone) and also disregarded erroneous records that are present in older shapefiles (e.g., the IUCN distribution polygon of *Molossus sinaloae*). The used distribution polygons overlaid with the 200 km buffer zone can be found in Supplementary Material S1.

## RESULTS

### Species diversity and endemism

The checklist of bats from Brazil includes 186 species, 68 genera, and nine families (Appendix 1, Fig. 1). Considering that the order Chiroptera now contains 1,466 extant species, Brazil harbors ca. 13% of the world diversity of bats (MDD 2023). Thirteen species are endemic to Brazil: *Dryadonycteris capixaba*, *Glyphonycteris behnii*, *Histiotus alienus*, *Lasiurus ebenus*, *Lonchophylla bokermanni*, *L. inexpectata*, *L. mordax*, *L. peracchii*, *Neoptesicus taddeii*, *Neonycteris pusilla*, *Platyrrhinus recifinus*, *Trachops ehrhardti*, and *Xeronycteris vieirai* (Appendix 1). The most diverse group is the family Phyllostomidae (96 species), followed by Molossidae (34 species), Vespertilionidae (27 species), Emballonuridae (17 species), Thyropteridae (five species), Mormoopidae (four species), Noctilionidae (two species), Natalidae (one species), and Furipteridae (one species).

The list of doubtful records includes five species (Table 1), and 19 species are now considered erroneous records for the country (Table 2). Considering the bordering records (within the 200 km buffer), there are also 22 bat species of potential occurrence in Brazil (Table 3). All the species listed in Table 1 are also present in Table 3. Detailed maps of the distribution of these marginally occurring species are available in the Supplementary Material S1.

### Threatened and near threatened species

The list of threatened species produced by the Ministry of the Environment, Brazilian government, lists three species as vulnerable (*Furipterus horrens*, *Lonchophylla bokermanni*, and *Natalus macrourus*) and one, *Lonchophylla dekeyseri*, as endangered (MMA 2014, 2022, 2023). The International Union for the Conservation of Nature's (IUCN) Red List includes *Natalus macrourus* (named "*Natalus espiritosantensis*") as "near threatened" (Tejedor and Dávalos 2016) and two species of *Lonchophylla*, *L. bokermanni* and *L. dekeyseri*, as "endangered" (Aguiar 2016, Aguilar and Bernard 2016). Additionally, *Lonchophylla mordax*, *Vampyrus spectrum*, and *Myotis ruber* are classified as "near threatened" in the IUCN.

Table 1. List of bat species with doubtful records for Brazil. In the Reference column, we cite the source for the doubtful records.

| Family         | Taxon                                                           | Reference      |
|----------------|-----------------------------------------------------------------|----------------|
| Phyllostomidae | <i>Artibeus glaucus</i> Thomas, 1893                            | Koopman (1993) |
| Phyllostomidae | <i>Artibeus phaeotis</i> (Miller, 1902)                         | Taddei (1996)  |
| Phyllostomidae | <i>Carollia castanea</i> H. Allen, 1890                         | Uieda (1980)   |
| Phyllostomidae | <i>Lonchorhina orinocensis</i> Linares & Ojasti, 1971           | Taddei (1996)  |
| Phyllostomidae | <i>Lonchorhina marinkellei</i> Hernández-Camacho & Cadena, 1978 | Taddei (1996)  |

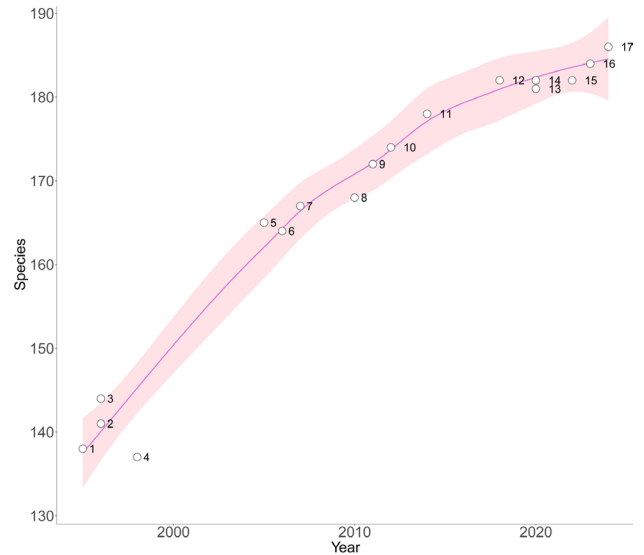


Figure 1. Number of bat species recorded for Brazil according to different checklists produced between 1995 and 2023. We fit a loess regression in the scatterplot. 1: Aguiar and Taddei (1995), 2: Fonseca et al. (1996), 3: Taddei (1996), 4: Marinho-Filho and Sazima (1998), 5: Tavares et al. (2008 – list produced in 2005), 6: Peracchi et al. (2006), 7: Reis et al. (2007), 8: Peracchi et al. (2010), 9: Peracchi et al. (2011), 10: Paglia et al. (2012), 11: Nogueira et al. (2014), 12: Nogueira et al. (2018), 13: Garbino et al. (2020a), 14: Quintela et al. (2020), 15: Abreu et al. (2022), 16: Abreu et al. (2023), 17: This study.

## DISCUSSION

### Comparisons among the lists

While it is desirable to maintain species lists as stable as possible, taxonomic revisions and consequent changes are an integral aspect of scientific progress and facilitate communication within the scientific community. In this context, we briefly discuss here the main differences between the most recent lists of Brazilian bats.

From the latest checklist developed by the Committee of the List of Brazilian Bats (CLMB; Garbino et al. 2020a),

Table 2. List of erroneous records of bat species in Brazil, considering Nogueira et al. (2014) as a starting point.

| Family           | Taxon                                                | Reason for removal                                               | Reference                          |
|------------------|------------------------------------------------------|------------------------------------------------------------------|------------------------------------|
| Phyllostomidae   | <i>Carollia subrufa</i> (Hahn, 1905)                 | Specimens reidentified as <i>Carollia breviceauda</i>            | Nogueira et al. (2014)             |
| Phyllostomidae   | <i>Chiroderma salvini</i> Dobson, 1878               | Specimens reidentified as <i>Chiroderma villosum</i>             | Garbino et al. (2020b)             |
| Phyllostomidae   | <i>Chiroderma vizottoi</i> Taddei & Lim, 2010        | Considered valid as subspecies of <i>C. doriae</i>               | Garbino et al. (2020b)             |
| Phyllostomidae   | <i>Enchisthenes hartii</i> (Thomas, 1892)            | Erroneous identification                                         | Nogueira et al. (2014)             |
| Phyllostomidae   | <i>Lichonycteris degener</i> Miller, 1931            | Junior synonym of <i>Lichonycteris obscura</i> Thomas, 1895      | Zamora-Gutierrez and Ortega (2020) |
| Phyllostomidae   | <i>Micronycteris brosseti</i> Simmons & Voss, 1998   | Specimen reidentified as <i>Micronycteris</i> sp.                | Garbino (2016)                     |
| Phyllostomidae   | <i>Micronycteris homezorum</i> Pirlot, 1967          | Junior synonym of <i>Micronycteris minuta</i> (P. Gervais, 1856) | Ochoa and Sánchez (2005)           |
| Phyllostomidae   | <i>Platyrrhinus helleri</i> (Peters, 1866)           | Specimens reidentified as <i>Platyrrhinus incarum</i>            | Garbino et al. (2024)              |
| Phyllostomidae   | <i>Sturnira bidens</i> (Thomas, 1915)                | Specimen reidentified as <i>Stunira lilium</i>                   | Nogueira et al. (2014)             |
| Phyllostomidae   | <i>Tonatia saurophila</i> Koopman & Williams, 1951   | Restricted to a fossil from Jamaica                              | Basantes et al. (2020)             |
| Mormoopidae      | <i>Pteronotus davyi</i> Gray, 1838                   | Specimen reidentified as <i>Pteronotus gymnonotus</i>            | Nogueira et al. (2014)             |
| Mormoopidae      | <i>Pteronotus parnellii</i> (Gray, 1843)             | Restricted to the Antilles                                       | Pavan and Marroig (2016)           |
| Vespertilionidae | <i>Neoptesicus andinus</i> J.A. Allen, 1914          | Specimen reidentified as <i>Neoptesicus</i> sp.                  | This study                         |
| Vespertilionidae | <i>Eptesicus fuscus</i> (Palisot de Beauvois, 1796)  | Specimens reidentified as <i>Neoptesicus furinalis</i>           | Nogueira et al. (2014)             |
| Vespertilionidae | <i>Lasiurus atratus</i> Handley, 1996                | Specimens reidentified as <i>Lasiurus castaneus</i>              | Nogueira et al. (2014)             |
| Vespertilionidae | <i>Lasiurus cinereus</i> (Palisot de Beauvois, 1796) | Restricted to North America                                      | Baird et al. (2015)                |
| Vespertilionidae | <i>Lasiurus salinae</i> Thomas, 1902                 | Considered valid as subspecies of <i>L. blossevillii</i>         | Baird et al. (2015)                |
| Vespertilionidae | <i>Myotis alter</i> Miller & G.M. Allen, 1928        | Junior synonym of <i>Myotis levis</i> (L. Geoffroy, 1824)        | Wilson (2008)                      |
| Vespertilionidae | <i>Myotis dinellii</i> Thomas, 1902                  | Specimens reidentified as <i>Myotis albescens</i>                | Moratelli et al. (2019)            |

Table 3. List of bat species potentially occurring in Brazil. See Supplementary Material S1 for their distribution maps. In the Reference column, we cite the source for the closest formal records to the Brazilian border.

| Family           | Taxon                                                                           | Reference                           |
|------------------|---------------------------------------------------------------------------------|-------------------------------------|
| Emballonuridae   | <i>Centronycteris centralis</i> Thomas, 1912                                    | Hice and Solari (2002)              |
| Phyllostomidae   | <i>Artibeus glaucus</i> Thomas, 1893                                            | Handley (1987)                      |
| Phyllostomidae   | <i>Artibeus phaeotis</i> (Miller, 1902)                                         | Handley (1987)                      |
| Phyllostomidae   | <i>Carollia castanea</i> H. Allen, 1890                                         | Shapley et al. (2005)               |
| Phyllostomidae   | <i>Enchisthenes hartii</i> (Thomas, 1892)                                       | Solari et al. (2006)                |
| Phyllostomidae   | <i>Hsunnycteris dashe</i> Velazco et al., 2017                                  | Velazco et al. (2017)               |
| Phyllostomidae   | <i>Lonchorhina fernandezii</i> Ochoa & Ibáñez, 1984                             | Ochoa and Ibáñez (1984)             |
| Phyllostomidae   | <i>Lonchorhina orinocensis</i> Linares & Ojasti, 1971                           | Hernández-Camacho and Cadena (1978) |
| Phyllostomidae   | <i>Lonchorhina marinkellei</i> Hernández-Camacho & Cadena, 1978                 | Hernández-Camacho and Cadena (1978) |
| Phyllostomidae   | <i>Micronycteris brosseti</i> Simmons & Voss, 1998                              | Simmons and Voss (1998)             |
| Phyllostomidae   | <i>Micronycteris matses</i> Simmons, Voss & Fleck, 2002                         | Simmons et al. (2002)               |
| Phyllostomidae   | <i>Micronycteris yatesi</i> Siles & Brooks, 2013                                | Siles et al. (2013)                 |
| Molossidae       | <i>Eumops nanus</i> (Miller, 1900)                                              | Eger (1977)                         |
| Molossidae       | <i>Molossus alvarezii</i> González-Ruiz, Ramírez-Pulido & Arroyo-Cabrales, 2011 | Loureiro et al. (2019)              |
| Molossidae       | <i>Molossus fentoni</i> Loureiro, Lim & Engstrom, 2018                          | Loureiro et al. (2018)              |
| Molossidae       | <i>Nyctinomops mbopicuare</i> Barquez et al., 2023                              | Barquez et al. (2023)               |
| Vespertilionidae | <i>Histiotus humboldti</i> Handley, 1996                                        | Handley (1996)                      |
| Vespertilionidae | <i>Lasiurus atratus</i> Handley, 1996                                           | Handley (1996)                      |
| Vespertilionidae | <i>Myotis clydejonessi</i> Moratelli et al., 2016                               | Moratelli et al. (2016)             |
| Vespertilionidae | <i>Myotis midastactus</i> Moratelli & Wilson, 2014                              | Moratelli and Wilson (2014)         |
| Vespertilionidae | <i>Neoptesicus orinocensis</i> (Ramírez-Chaves et al., 2021)                    | Ramírez-Chaves et al. (2021)        |
| Natalidae        | <i>Natalus tumidirostris</i> Miller, 1900                                       | Williams et al. (1983)              |



eight species were added (*Artibeus amplus*, *Choeroniscus godmani*, *Glossophaga bakeri*, *Lichonycteris obscura*, *Platyrrhinus guianensis*, *Molossus melini*, *Trachops ehrhardti*, and *Myotis pampa*), and three species were removed (*Glossophaga commissaris*, *Micronycteris homezorum* and *Lichonycteris degener*).

The Taxonomic Catalog of the Brazilian Fauna (TCBF) differs from the present list in the following aspects: (1) the TCBF considers *Micronycteris brosetti* (Phyllostomidae) as occurring in Brazil, which we do not (see Garbino 2016); (2) it treats *M. homezorum* as valid, while we consider it as a synonym of *M. minuta*; (3) the TCBF considers the species *Chiroderma vizottoi* as valid, while we treat it as a subspecies of *C. doriae* (Garbino et al. 2020b); (4) the mormoopid *Pteronotus parnellii* is still present in the TCBF, but now it has been considered endemic to the Antilles, whereas the name available for the Brazilian populations is *P. rubiginosus* (Pavan and Marroig 2016; Pavan 2019); (5) in the family Molossidae, the TCBF considers *Cynomops paranus* of Thomas, 1901 as valid, while we treat it as a synonym of *C. planirostris* (Moras et al. 2016, 2018); (6) we included *Eumops chimaera*, which has not been included in the TCBF; (7) the Vespertilionidae in the TCBF differs in not including the valid taxon *Histiotus diaphanopterus*, and by including *Lasiurus cinereus* and *L. salinae*, which are not considered valid or occur elsewhere (Baird et al. 2015). These inconsistencies in the TCBF stem from the fact that it is a multi-author list that can be updated at any time. As a result, some taxa were last updated in 2015, and others were altered in the last couple of years.

The main difference between the list presented here and Quintela et al. (2020), is that the latter authors did not include *Lasiurus villosissimus*, included *L. cinereus*, which does not occur in Brazil, and considered *L. salinae* valid, despite the considerations of a previous study (Baird et al. 2015). The former authors also consider *Cynomops paranus* as valid, despite previous studies treating it as a junior synonym of *C. planirostris* (Moras et al. 2016, 2018). Additionally, Quintela et al. (2020) included *Myotis dinellii* in their checklist, which is not considered to occur in Brazil, as the records are misidentifications of *Myotis albescens* (see Nogueira et al. 2018).

The 2022 checklist from the Brazilian Society of Mammalogy (SBMz) listed 182 bat species in Brazil (Abreu et al. 2022), differing solely in terms of recent post-2022 changes that we have incorporated into the current list. The most recent checklist from the SBMz includes the same species presented here, except for *Molossus melini* and *Trachops ehrhardti* (Abreu et al. 2023). The SBMz committee shares members with the SBEQ list and both societies aim to have

the same list for Chiroptera. Therefore, as the SBMz is updated, it should be congruent with the list presented here.

We note that *Artibeus amplus* and *C. godmani* were previously considered doubtful records for Brazil (Nogueira et al. 2014), and their removal from this category is the main change in our second list (Table 1). We have also, in this study, removed *Myotis alter* from the doubtful record list and assigned it as an erroneous record (Table 2). The 22 species with potential occurrence in Brazil (Table 3) represent ca. 10% of current number reported for the country, and include mostly phyllostomids (10), but also vespertilionids (4), and molossids (3). These three families also account for most records in our main list (Appendix 1). In 1996, Taddei estimated the number of bat species that could potentially be recorded in Brazil based on geographic proximity, accounting for 22 species (Taddei 1996). Nearly three decades later, it has been confirmed that eight of these species do indeed occur in the country. One species predicted by him, *Natalus tumidirostris*, is also present in our list or potential species, but the other 13 he assigned were not considered here because their closest records either fall outside our 200 km buffer, or, if within it, they were restricted to higher altitudes along the eastern Andes.

#### Taxonomic and nomenclatural comments

*Micronycteris homezorum* – In our first assessment, we retained *M. homezorum* Pirlot, 1967 as valid (Nogueira et al. 2014), contra Ochoa and Sánchez (2005). However, because species limits in the subgenus *Schizonycteris* are still unclear and *M. minuta* might represent a species complex (Morales-Martínez et al. 2021), we opted for following Ochoa and Sánchez (2005) and several recent authors in treating this species as junior synonym of *M. minuta* (Siles and Baker 2020, Díaz et al. 2021, Morales-Martínez et al. 2021, Simmons and Cirranello 2023), until additional data are available.

*Micronycteris sanborni* – Solari et al. (2019) have considered the records of *M. sanborni* from Bolivia to be referable to *M. yatesi*. However, a recent revision of Bolivian bats mentions *M. sanborni* for the country (Poma-Urey et al. 2020, 2023). Therefore, we do not consider *M. sanborni* a Brazilian endemic.

*Gardnerycteris crenulata* – Brandão et al. (2019) were the first to correct the spelling of *Gardnerycteris crenulatum* to *G. crenulata* to agree with the feminine *-nycteris*. We followed their suggestion, as did the Mammal Diversity Database and batnames lists (MDD 2023, Simmons and Cirranello 2023).

*Trachops ehrhardti* – Williams and Genoways (2008) recognize a polytypic *Trachops* with two subspecies occur-

ring in Brazil: *T. c. cirrhosus* (Spix, 1823) and *T. c. ehrhardti* Felten, 1956. An unpublished PhD dissertation suggested treating *ehrhardti* as a full species based on DNA sequence data and morphology (Fonseca 2019). The Mammal Diversity Database includes *ehrhardti* “tentatively” in *cirrhosus*, citing the unpublished dissertation of Fonseca (2019). The 2022B version of Batnames (<https://doi.org/10.5281/zenodo.6857865>) lists *T. ehrhardti* as a valid species, but the 2023 update (Version 1.3) treats it as a junior synonym of *T. cirrhosus*. A recent study provided morphological and molecular evidence for splitting *T. cirrhosus* in three species, suggesting that *T. ehrhardti* is endemic to southern and southeastern Brazil (Fonseca et al. 2024).

*Choeroniscus godmani* – We include the species in the list, following Garbino et al. (2022), who recorded the species in Brazil based on museum specimens, including material collected in 1977 in the state of Mato Grosso.

*Glossophaga commissarisi* and *G. bakeri* – Webster and Jones (1987) originally described *bakeri* as a subspecies of *Glossophaga commissarisi* from the western Amazonia of Brazil, Colombia, and Peru. However, Velazco et al. (2021) showed that *bakeri* is morphologically distinct from *G. commissarisi* and should be recognized as a distinct species, endemic to the western Amazonia. Following the latter authors, we consider the records of *G. commissarisi* from Brazil to represent *G. bakeri*.

*Lichonycteris obscura* and *L. degener* – We follow Zamora-Gutierrez and Ortega (2020) in considering *L. degener* Miller, 1931 as a junior synonym of *L. obscura* Thomas, 1895 pending a taxonomic revision of the genus. Although Griffiths and Gardner (2008) recognize two species in *Lichonycteris*, the authors point out that Miller compared *degener* with a specimen of “*obscura*” that probably was collected in Brazil. Other authors treat *Lichonycteris* as monotypic (Gardner 1976, Hill 1985, Zamora-Gutierrez and Ortega 2020).

*Glyphonycteris behnii* – Here, we consider the species to be endemic to Brazil, due to re-identification of the Bolivian specimen, which is a *Microncycteris hirsuta* (Poma-Urey et al. 2023).

*Carollia brevicauda* – Solari et al. (2019) suggested using the spelling *brevicaudum* for *C. brevicauda*, arguing that the original description as *Phyllostoma brevicaudum* Schinz, 1821 should be followed and that an emendation would be unjustified. Considering that the author of the genus *Carollia*, and the first subsequent authors that used it, considered the name as feminine (Gray 1838, 1866, Peters 1865), we assume the gender as feminine. We also follow Article 30.2 of The International Code of Zoological Nomenclature, which states

that “If no gender was specified or indicated, the name is to be treated as masculine, except that, if the name ends in -a the gender is feminine.” The genitive of the feminine *cauda* is *caudae* and the stem is *caud-*. Therefore, considering that *Carollia* is a feminine noun, the species name would be *Carollia brevicauda* (Handley 1980).

*Artibeus amplus* – We include this species of subgenus *Artibeus* in the list, following Zortéa et al. (2023).

*Platyrrhinus guianensis* – We include the species in the list, following Lopes et al. (2023).

*Platyrrhinus helleri* – Despite appearing in recent papers on Brazilian bats (Fischer et al. 2015, 2022, Acero-Murcia et al. 2023), the occurrence of *P. helleri* has been restricted to northern South America west of the Andes and to Mexico/Central America (Velazco et al. 2010). Garbino et al. (2024) have sequenced mitochondrial DNA from specimens of small-sized *Platyrrhinus* from the Brazilian Cerrado and Pantanal and confirmed that the taxon occurring in the region is *P. incarum*.

*Molossus melini* – This recently described species was previously known only for Argentina and has now been recorded for Curitiba, in the Brazilian state of Paraná (Montani et al. 2021, Olímpio et al. 2024)

Genus *Lasiurus* – Baird et al. (2015) classified hoary, yellow, and red bats into three genera, respectively, *Aeorestes*, *Dasypterus*, and *Lasiurus* based on molecular and phenotypic divergences. As *Lasiurus*, the generic name used to encompass these bats, is still monophyletic and the morphological differences among the clades are not sharply contrasting, we retain the use of a single genus *Lasiurus* for red, yellow, and hoary bats. In this case, the use of subgenera is recommended to maintain binomen stability and still convey the idea of three distinct clades (Garbino 2015, Novaes et al. 2018, Teta 2019, Burgin 2023).

*Neoptesicus* – We use here the genus name *Neoptesicus* Cláudio et al., 2023, for the Brazilian taxa formerly included in *Eptesicus*. Over the last decades, *Eptesicus* (sensu lato) has been recovered as non-monophyletic in molecular phylogenies (Hooper and Bussche 2003, Juste et al. 2013, Yi and Latch 2022), and different taxonomic arrangements were proposed and used to solve this. Cláudio et al. (2023) reevaluated the taxonomic status of *Eptesicus* and restricted the name to the type species *Eptesicus fuscus* (Palisot de Beauvois, 1796), as well as *E. guadeloupensis* Genoways & Baker, 1975, and *E. miradorensis* (H. Allen, 1866), all of which do not occur in Brazil (Ramírez-Chaves et al. 2023). All other New World species were allocated to *Neoptesicus*. As consequence of this arrangement, we use *Histiotus* as genus,

instead as a subgenus of *Eptesicus*, which was proposed by some authors (e.g., Giménez et al. 2019).

*Neoptesicus andinus* – The occurrence of *N. andinus* in Brazil is based on a specimen from Anápolis, Goiás (AMNH 134910). This specimen was named by Davis (1966) as *Eptesicus montosus montosus* in his broad review of South American *Eptesicus*. Later, Simmons and Voss (1998) partially reviewed the taxonomy of *Eptesicus andinus* and *E. chiriquinus*, and listed *E. montosus* as conspecific with *E. andinus* (Davis and Gardner 2008). We compared the specimen AMNH 134910 with the holotype of *Eptesicus andinus* (AMNH 33807) and it does not share the diagnostic traits of *E. andinus*. Considering this, we opted to remove *E. andinus* from the list, and the identity of specimen AMNH 134910 remains uncertain pending additional morphological and molecular analyses. Pine et al. (1970) mention *E. m. montosus* (USNM 393769) for Mato Grosso state; this specimen was examined by us and does not represent *Neoptesicus andinus*.

*Myotis pampa* – We add here the first record of *M. pampa* for Brazil, based on specimen AMNH 235919 from Candelária, Rio Grande do Sul. This species was described based on specimens from Uruguayan grasslands, very close to the Brazil border. Although its occurrence in Brazil was considered probable by Novaes et al. (2021), the present record is the first to confirm its occurrence in Brazil.

#### Final remarks

Knowledge of bat diversity in Brazil seems to be close to an asymptote (Fig. 1). However, this may be result of having several lists published in a short time interval. Despite having a more stable species list of Brazilian bats, there are still knowledge gaps on the specific occurrence records of the species in the country. For example, less than half of the 27 Brazilian Federative Units have updated bat checklists (Tavares et al. 2024). Even in states that have bat checklists, dramatic changes can be seen as these lists are updated (Ferreira et al. 2024). Also, a vast area of Brazil is undersampled for bats (Bernard et al. 2011), increasing the potential of obtaining new records for the country. We suggest that future efforts focus on cataloging bat diversity in each Federative Unit of Brazil, refining our knowledge of species occurring in each ecosystem. A more detailed species-level list, including subspecies, is also important to refine our understanding of Brazilian bat diversity.

In this context, collections-based research is essential, as well as the collection and proper curation of specimens from poorly sampled regions. There has been an increase in local and regional mammal collections in Brazil, which

must be followed by investment in research and infrastructure (Chiquito et al. 2021). It is also important to reiterate that several ongoing systematic studies involving bat taxa occurring in Brazil (e.g., *Anoura*, *Furipterus*, *Lonchophylla*, *Myotis*, *Neoptesicus*, *Nyctinomops*, and *Histiotus*) are likely to lead to taxonomic rearrangements in the near future. Likewise, frequent faunal inventories and more refined studies using molecular methods for taxonomic identification may yield new records for Brazil. Consequently, the publication of reliable, comprehensive, and regularly updated listings, along with notes on range extensions, should always be prioritized.

#### ACKNOWLEDGEMENTS

This paper is dedicated to the memory of Dr. Nelio Roberto dos Reis, for his long contribution to the understanding of Brazilian bats, especially through his “Mamíferos do Brasil” and “Morcegos do Brasil” book series, aimed both at mammalogists and at a broader audience. We express our gratitude to the Sociedade Brasileira para o Estudo de Quirópteros (SBEQ) for their unwavering support and for hosting earlier versions of the Brazilian bat list. We also extend our thanks to the curators and staff at the collections we visited. GSTG received support from the Latin American Fellowship Committee of the American Society of Mammalogists. RLMN has received support from Fundação Carlos Chagas Filho de Amparo à Pesquisa do Estado do Rio de Janeiro (FAPERJ, Brazil; E-26/204.243/2021; E26/200.631/2022 and E26/200.395/2022). RG receives support from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq process 301946/2022-1) and Fundação de Amparo à Pesquisa do Estado de Minas Gerais (FAPEMIG process PPM 00203/18). RM has received financial support from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq, Brazil; 313963/2018-5), FAPERJ (E-26/200.967/2021), and Coordenação de Vigilância em Saúde e Laboratórios de Referência (CVSLR/Fiocruz). MCN has received support from Conselho Nacional de Desenvolvimento Científico e Tecnológico (PROTAX N.º 22/2020 – process 441714/2020-0) and TCCE ICMBio/Vale II (contrato 005/2021). VCC has received support from Fundação Carlos Chagas Filho de Amparo à Pesquisa do Estado do Rio de Janeiro (FAPERJ, Brazil; E-26/205.820/2022 and E-26/205.821/2022); and research grants from the Field Museum of Natural History and American Museum of Natural History. Two anonymous reviewers provided very important advice and suggestions on an earlier version of this manuscript.

**LITERATURE CITED**

- Abreu EF, Casali D, Costa-Araújo R, Garbino GST, Libardi GS, Loretto D, et al. (2021) Lista de Mamíferos do Brasil. Zenodo. <https://doi.org/10.5281/zenodo.5802047>
- Abreu EF, Casali D, Costa-Araújo R, Garbino GST, Libardi GS, Loretto D, et al. (2022) Lista de Mamíferos do Brasil. Zenodo. <https://doi.org/10.5281/zenodo.7469767>
- Abreu EF, Casali D, Costa-Araújo R, Garbino GST, Libardi GS, Loretto D, et al. (2023) Lista de Mamíferos do Brasil (2023-1). Zenodo. <https://doi.org/10.5281/zenodo.10428436>
- Acero-Murcia AC, Severgnini MR, Fischer E, Provete DB (2023) An evolutionary ecomorphological perspective on the assembly of a neotropical bat metacommunity. *Journal of Mammalian Evolution* 627–644. <https://doi.org/10.1007/s10914-023-09667-3>
- Aguiar LMS (2016) *Lonchophylla bokermanni*. In: The IUCN Red List of Threatened Species. <https://doi.org/10.2305/IUCN.UK.2016-3.RLTS.T12263A22038287.en> [Accessed: 22/08/2023]
- Aguiar L, Bernard E (2016) *Lonchophylla dekeyseri*. In: The IUCN Red List of Threatened Species. <https://doi.org/10.2305/IUCN.UK.2016-2.RLTS.T12264A22038149.en> [Accessed: 22/08/2023]
- Aguiar LMS, Taddei VA (1995) Workshop sobre a conservação dos morcegos brasileiros. *Chiroptera Neotropical* 1: 24–29.
- Baird AB, Braun JK, Mares MA, Morales JC, Patton JC, Tran CQ, Bickham JW (2015), Molecular systematic revision of tree bats (Lasiurini): doubling the native mammals of the Hawaiian Islands. *Journal of Mammalogy* 96: 1255–1274. <https://doi.org/10.1093/jmammal/gyv135>
- Barquez RM, Tomasco IH, Sánchez RT, Boero L, Rodriguez AD, Díaz MM (2023) A new species of bat in the genus *Nyctinomops* Miller, 1902 (Chiroptera: Molossidae) from Misiones, Argentina. *Journal of Mammalogy* 104: 1062–1071. <https://doi.org/10.1093/jmammal/gyad040>
- Basantes M, Tinoco N, Velazco PM, Hofmann MJ, Rodríguez-Posada ME, Camacho MA (2020) Systematics and taxonomy of *Tonatia saurophila* Koopman & Williams, 1951 (Chiroptera, Phyllostomidae). *Zookeys* 915: 59–86. <https://doi.org/10.3897/zookeys.915.46995>
- Bernard E, Aguiar LM, Machado RB (2011) Discovering the Brazilian bat fauna: a task for two centuries? *Mammal Review* 41: 23–39. <https://doi.org/10.1111/j.1365-2907.2010.00164.x>
- Brandão MV, Garbino GST, Semedo TBF, Feijó A, Nascimento FO, Fernandes-Ferreira H, et al. (2019) Mammals of Mato Grosso, Brazil: annotated species list and historical review. *Mastozoología Neotropical* 26: 263–307. <https://doi.org/10.31687/saremMN.19.26.2.0.03>
- Brazilian Zoology Group (2024) Catálogo Taxonômico da Fauna do Brasil. Available at <http://fauna.jbrj.gov.br/fauna>
- Burgin C (2023) Taxonomic changes and controversies in mammalogy. In: *All the Mammals of the World*. Lynx Nature Books, Barcelona, 715–722.
- Chiquito E, Caccavo A, Santos C, Semedo T, Costa-Pinto AL, Astúa D, et al. (2021) Mammal collections in Brazil: overview and database. *Brazilian Journal of Mammalogy* (e90): e90202105–e90202105.
- Cláudio VC, Novaes RLM, Gardner AL, Nogueira MR, Wilson DE, Maldonado JE, et al. (2023) Taxonomic re-evaluation of New World *Eptesicus* and *Histiotus* (Chiroptera: Vespertilionidae), with the description of a new genus. *Zoologia* 40: e22029. <https://doi.org/10.1590/s1984-4689.v40.e22029>
- Davis WB (1966) Review of South American bats of the genus *Eptesicus*. *The Southwestern Naturalist* 11: 245–274. <https://doi.org/10.2307/3669648>
- Davis WB, Gardner AL (2008) Genus *Eptesicus* Rafinesque, 1820. In: Gardner AL (Ed.) *Mammals of South America*. Chicago University Press, Chicago, vol. 1, 440–450.
- Díaz MM, Solari S, Gregorin R, Aguirre LF, Barquez RM (2021) Clave de Identificación de los Murciélagos Neotropicales. Programa de Conservación de los Murciélagos de Argentina, Yerba Buena, Tucumán, 207 pp.
- Eger JL (1977) Systematics of the genus *Eumops* (Chiroptera: Molossidae). *Life Sciences Contributions, Royal Ontario Museum* 110: 1–69. <https://biostor.org/reference/128098>
- Ferreira LVS, Tavares VC, Gregorin R, Garbino GST, Oliveira FV, Moras LM (2024) Updated list of bats (Mammalia: Chiroptera) from the state of Minas Gerais, southeastern Brazil, including new records. *Zoologia* 41: e23047. <https://doi.org/10.1590/S1984-4689.v41.e23047>
- Fischer E, Eriksson A, Francisco AL, Pulchério-Leite A, Santos CF, Gonçalves F, et al. (2022) Morcegos da Bacia do Alto Paraguai: revisão da fauna e distribuição de registros. *Boletim do Museu Paraense Emílio Goeldi. Ciências Naturais* 17: 585–687. <https://doi.org/10.46357/bcnaturais.v17i3.817>
- Fischer E, Santos CF, Carvalho LFA da C, Camargo G, Cunha NL, Silveira M, Bordignon MO, Silva CL (2015) Bat fauna of Mato Grosso do Sul, southwestern Brazil. *Biota Neotropica* 15: 1–17. <https://doi.org/10.1590/1676-06032015006614>
- Fonseca BS (2019) Taxonomia integrativa revela diversidade críptica em *Trachops cirrhosus* (Chiroptera, Phyllostomidae). PhD Thesis, Universidade Federal do Espírito Santo,



- Centro de Ciências Humanas e Naturais, Vitória, 79 pp. Available at <http://repositorio.ufes.br/handle/10/11160>
- Fonseca BS, J. Soto-Centeno Á, Simmons NB, Ditchfield AD, Leite YLR (2024) A species complex in the iconic frog-eating bat *Trachops cirrhosus* (Chiroptera, Phyllostomidae) with high variation in the heart of the Neotropics. *American Museum Novitates* 4021: 1–27. <https://doi.org/10.1206/4021.1>
- Fonseca GAB, Hermann G, Leite YLR, Mittermeier RA, Rylands AB, Patton JL (1996) Lista anotada dos mamíferos do Brasil. *Occasional Papers in Conservation Biology* 4: 1–38
- Garbino GST (2015) Defining genera of New World monkeys: the need for a critical view in a necessarily arbitrary task. *International Journal of Primatology* 36: 1049–1064. <https://doi.org/10.1007/s10764-015-9882-9>
- Garbino GST (2016) Research on bats (Chiroptera) from the state of São Paulo, Southeastern Brazil: annotated species list and bibliographic review. *Arquivos de Zoologia* 47: 43–128. <https://doi.org/10.11606/issn.2176-7793.v47i3p43-128>
- Garbino GST, Brandão MV, Tavares VC (2022) First confirmed records of Godman's Long-tailed Bat, *Choeroniscus godmani* (Thomas, 1903) (Chiroptera, Phyllostomidae), from Brazil and Panama. *Check List* 18: 493–499. <https://doi.org/10.15560/18.3.493>
- Garbino GST, Gregorin R, Lima IP, Loureiro L, Moras L, Moratelli R, et al. (2020a) Updated checklist of Brazilian bats. Comitê da Lista de Morcegos do Brasil, Sociedade Brasileira para o Estudo de Quirópteros. Available at <https://www.sbeq.net/lista-de-especies>
- Garbino GST, Lim BK, Tavares VC (2020b) Systematics of big-eyed bats, genus *Chiroderma* Peters, 1860 (Chiroptera: Phyllostomidae). *Zootaxa* 4846: 1–93. <https://doi.org/10.11646/zootaxa.4846.1.1>
- Garbino GST, Paes JSAV, Saldanha J, Alves TS, Semedo TBF, Rosa AR, Velazco PM (2024) Notes on the distribution, morphology, and phylogenetics of *Platyrrhinus incarum* (Chiroptera, Phyllostomidae) in Brazil, and confirmation that *Platyrrhinus helleri* does not occur in the country. *Zoologia* 41: e23044. <https://doi.org/10.1590/S1984-4689.v41.e23044>
- Gardner AL (1976) The distributional status of some Peruvian mammals. *Occasional Papers of the Museum of Zoology, Louisiana State University* 48: 1–18. <https://www.museum.lsu.edu/OccPap/48.pdf>
- Garnett ST, Christidis L, Conix S, Costello MJ, Zachos FE, Bánki OS, et al. (2020) Principles for creating a single authoritative list of the world's species. *PLoS Biology* 18: e3000736. <https://doi.org/10.1371/journal.pbio.3000736>
- Giménez AL, Giannini NP, Almeida FC (2019) Mitochondrial genetic differentiation and phylogenetic relationships of three *Eptesicus (Histiotus)* species in a contact zone in Patagonia. *Mastozoología Neotropical* 26: 350–358.
- Gray JE (1838) A revision of the genera of bats (Vespertilionidae), and the description of some new genera and species. *Magazine of Zoology and Botany* 2: 483–505.
- Gray JE (1866) Revision of the genera of Phyllostomidae, or leaf-nosed bats. *Proceedings of the Zoological Society of London* 1866: 111–118.
- Griffiths TA, Gardner AL (2008) Subfamily Glossophaginae Bonaparte, 1845. In: Gardner AL (Ed.) *Mammals of South America*. University of Chicago Press, Chicago, vol. 1, 224–244.
- Handley CO (1980) Inconsistencies in formation of family-group and subfamily-group names in Chiroptera. In: Wilson DE, Gardner AL (Eds) *Proceedings Fifth International Bat Research Conference*. Texas Tech University Press, Lubbock, Texas, 9–13.
- Handley CO (1987) New species of mammals from northern South America: Fruit-eating bats, genus *Artibeus* Leach. *Fieldiana Zoology* 39: 163–172.
- Handley CO (1996) New species of mammals from northern South America: bats of the genera *Histiotus* Gervais and *Lasiurus* Gray (Chiroptera: Vespertilionidae). *Proceedings of the Biological Society of Washington* 109: 1–9. <https://biostor.org/reference/65891>
- Hernández-Camacho J, Cadena-G A (1978) Notas para la revisión del género *Lonchorhina* (Chiroptera, Phyllostomidae). *Caldasia* 12(57): 199–251. <https://repositorio.unal.edu.co/handle/unal/44204>
- Hice CL, Solari S (2002) First record of *Centronycteris maxmilianii* (Fischer, 1829) and two additional records of *C. centralis* Thomas, 1912 from Peru. *Acta Chiropterologica* 4: 217–220. <https://doi.org/10.3161/001.004.0209>
- Hill JE (1985) The status of *Lichonycteris degener* Miller, 1931 (Chiroptera: Phyllostomidae). *Mammalia* 49(4): 573–592. <https://doi.org/10.1515/mamm.1985.49.4.573>
- Hoofer SR, Van Den Bussche RA (2003) Molecular phylogenetics of the chiropteran family Vespertilionidae. *Acta Chiropterologica* 5: 1–63. <https://doi.org/10.3161/001.005.s101>
- Juste J, Benda P, Garcia-Mударra JL, Ibáñez C (2013) Phylogeny and systematics of Old World serotine bats (genus *Eptesicus*, Vespertilionidae, Chiroptera): an integrative approach. *Zoologica Scripta* 42: 441–457. <https://doi.org/10.1111/zsc.12020>
- Koopman KF (1993) Order Chiroptera. In: Wilson DE, Reeder DM (Eds) *Mammal species of the world, a taxono-*

- mic and geographic reference. The Smithsonian Institution Press, Washington, DC, 2<sup>nd</sup> ed., 137–241.
- Lopes GP, Oliveira RC, Santos TCM, Velazco PM, Bobrowiec PED, Silva MNF, et al. (2023) First record of *Platyrrhinus guianensis* Velazco and Lim, 2014 (Chiroptera, Phyllostomidae) for Brazil. *Mammalia* 87(6): 591–595. <https://doi.org/10.1515/mammalia-2023-0057>
- Loureiro LO, Engstrom MD, Lim BK (2020) Single nucleotide polymorphisms (SNPs) provide unprecedented resolution of species boundaries, phylogenetic relationships, and genetic diversity in the mastiff bats (*Molossus*). *Molecular Phylogenetics and Evolution* 143: 106690. <https://doi.org/10.1016/j.ympev.2019.106690>
- Loureiro LO, Engstrom MD, Lim BK, López-González C, Juste J (2019) Not all *Molossus* are created equal: genetic variation in the mastiff bat reveals diversity masked by conservative morphology. *Acta Chiropterologica* 21: 51–64. <https://doi.org/10.3161/15081109ACC2019.21.1.004>
- Loureiro, LO, Lim BK, Engstrom MD (2018) A new species of mastiff bat (Chiroptera, Molossidae, *Molossus*) from Guyana and Ecuador. *Mammalian Biology* 90: 10–21. <https://doi.org/10.1016/j.mambio.2018.01.008>
- Marinho-Filho JS, Sazima I (1998) Brazilian bats and conservation biology: a first survey. In: Kunz TH, Racey PA (Eds) *Bat Biology and Conservation*. Smithsonian Institution Press, Washington, DC, 282–294.
- Marsh CJ, Sica YV, Burgin CJ, Dorman WA, Anderson RC, Mijares IT, et al. (2022) Expert range maps of global mammal distributions harmonized to three taxonomic authorities. *Journal of Biogeography* 49: 979–992. <https://doi.org/10.1111/jbi.14330>
- MDD (2023) Mammal Diversity Database. Zenodo. <https://doi.org/10.5281/zenodo.7830771>
- MMA (2014) Portaria MMA N° 444, de 17 de dezembro de 2014. Lista Nacional Oficial de Espécies da Fauna Ameaçadas de Extinção. *Diário Oficial da União*, seção 1, n° 245, p. 121–126.
- MMA (2022) Portaria MMA N° 148, de 7 de junho de 2022. Atualização da Lista Nacional de Espécies Ameaçadas de Extinção. *Diário Oficial da União*, seção 1, n° 108, p. 74.
- MMA (2023) Portaria MMA N° 354, de 27 de janeiro de 2023. Revoga as Portarias MMA no 299, de 13 de dezembro de 2022, e no 300, de 13 de dezembro de 2022, e dá outras providências. *Diário Oficial da União*, seção 1, n° 21, p. 72.
- Montani ME, Tomasco IH, Barberis IM, Romano MC, Barquez RM, Diáz MM (2021) A new species of *Molossus* (Chiroptera: Molossidae) from Argentina. *Journal of Mammalogy* 10: 1426–1442. <https://doi.org/10.1093/jmammal/gyab078>
- Morales-Martínez DM, López-Arévalo HF, Vargas-Ramírez M (2021) Beginning the quest: phylogenetic hypothesis and identification of evolutionary lineages in bats of the genus *Micronycteris* (Chiroptera, Phyllostomidae). *Zookeys* 1028: 135–159. <https://doi.org/10.3897/zookeys.1028.60955>
- Moras LM, Gregorin R, Sattler T, Tavares VC (2018) Uncovering the diversity of dog-faced bats of the genus *Cynomops* (Chiroptera: Molossidae), with the redescription of *C. milleri* and the description of two new species. *Mammalian Biology* 89: 37–51. <https://doi.org/10.1016/j.mambio.2017.12.005>
- Moras LM, Tavares VC, Pepato AR, Santos FR, Gregorin R (2016) Reassessment of the evolutionary relationships within the dog-faced bats, genus *Cynomops* (Chiroptera: Molossidae). *Zoologica Scripta* 45: 465–480. <https://doi.org/10.1111/zsc.12169>
- Moratelli R, Burgin C, Cláudio VC, Novaes RLM, López-Baucells A, Haslauer R (2019) Family Vespertilionidae (Vesper Bats). In: Wilson DE, Mittermeier RA (Eds) *Handbook of the Mammals of the World*. Lynx Edicions, Barcelona, vol. 9, 761–981.
- Moratelli R, Wilson DE (2014) A new species of *Myotis* (Chiroptera, Vespertilionidae) from Bolivia. *Journal of Mammalogy* 95: E17–E25. <https://doi.org/10.1644/14-MAMM-149>
- Moratelli R, Wilson DE, Gardner AL, Fisher RD, Gutiérrez EE (2016) A New Species of *Myotis* (Chiroptera: Vespertilionidae) from Suriname. In: Manning RW, Goetze JR, Yancey FD (Eds) *Contributions in natural history: a memorial volume in honor of Clyde Jones*. Texas Tech University, Lubbock, 49–66.
- Nogueira MR, Lima IP, Moratelli R, Tavares VC, Gregorin R, Peracchi AL (2014) Checklist of Brazilian bats, with comments on original records. *Check List* 10: 808–821. <https://doi.org/10.15560/10.4.808>
- Nogueira MR, Lima IP, Garbino GST, Moratelli R, Tavares VC, Gregorin R, Peracchi AL (2018) Updated checklist of Brazilian bats: version 2018.1. Comitê da Lista de Morcegos do Brasil, Sociedade Brasileira para o Estudo de Quirópteros. Available at <https://www.sbeq.net/lista-de-especies>
- Novaes RLM, Garbino GST, Claudio VC, Moratelli R (2018) Separation of monophyletic groups into distinct genera should consider phenotypic discontinuities: the case of Lasiurini (Chiroptera: Vespertilionidae). *Zootaxa* 4379: 439–440. <https://doi.org/10.11646/zootaxa.4379.3.8>
- Novaes RLM, Wilson DE, Moratelli R (2021) A new species of *Myotis* (Chiroptera, Vespertilionidae) from Uruguay. *Vertebrate Zoology* 71: 711–722. <https://doi.org/10.3897/vz.71.e73146>

- Ochoa-G J, Ibáñez C (1984) Nuevo murciélago del género *Lonchorhina* (Chiroptera: Phyllostomidae). *Memoria de la Sociedad de Ciencias Naturales La Salle* 42(118): 145–159.
- Ochoa-G J, Sánchez JH (2005) Taxonomic status of *Micronycteris homezi* (Chiroptera, Phyllostomidae). *Mammalia* 69(3–4): 323–335. <https://doi.org/10.1515/mamm.2005.026>
- Olimpio APM, Lima ACS, Mendes SB, Natividade BD, Fraga EC, Barros MC, Sampaio I (2024) *Molossus melini* Montani et al. 2021 (Chiroptera, Molossidae) in Brazil: new insights for distribution, morphology and genetics. *Biodiversity Data Journal* 12: e114261. <https://doi.org/10.3897/BDJ.12.e114261>
- Pacheco VR, Diaz S, Graham Angeles LA, Flores-Quipe M, Calizaya-Mamani G, Ruelas D, Sánchez-Vendizú P (2021) Lista actualizada de la diversidad de los mamíferos del Perú y una propuesta para su actualización. *Revista Peruana de Biología* 28: e21019. <https://doi.org/10.15381/rpb.v28i4.21019>
- Paglia AP, Fonseca GAB, Rylands AB, Herrmann G, Aguiar LMS, Chiarello AG, Leite YLR, Costa LP, Siciliano S, Kierulff MCM, Mendes SL, Tavares VC, Mittermeier RA, Patton JL (2012) Lista Anotada dos Mamíferos do Brasil/ Annotated Checklist of Brazilian Mammals. *Occasional Papers in Conservation Biology* 6: 1–76.
- Pavan AC (2019) Family Mormoopidae (ghost-faced bats, naked-backed bats and mustached bats). In: Wilson DE, Mittermeier RA (Eds) *Handbook of the Mammals of the World*. Lynx Edicions, Barcelona, vol. 9, 424–443.
- Pavan AC, Marroig G (2016) Integrating multiple evidences in taxonomy: species diversity and phylogeny of mustached bats (Mormoopidae: *Pteronotus*). *Molecular Phylogenetics and Evolution* 103: 184–198. <https://doi.org/10.1016/j.ympev.2016.07.011>
- Peracchi AL, Gallo PH, Dias D, Lima IP, Reis NR (2010) Ordem Chiroptera. In: Reis NR, Peracchi AL, Fregonezi MN, Rossaneis BK (Eds) *Mamíferos do Brasil: guia de identificação*. Technical Books, Rio de Janeiro, 293–461.
- Peracchi AL, Lima IP, Nogueira MR, Ortêncio-Filho H (2006) Ordem Chiroptera. In: Reis NR, Peracchi AL, Pedro WA, Lima IP (Eds) *Mamíferos do Brasil*. Nélio R. Reis, Londrina, 153–230.
- Peracchi AL, Lima IP, Nogueira MR, Ortêncio-Filho H (2011) Ordem Chiroptera. In: Reis NR, Peracchi AL, Pedro WA, Lima IP (Eds) *Mamíferos do Brasil*. Nélio R. Reis, Londrina, 2<sup>nd</sup> ed., 155–234.
- Peters W (1865) Über die zu den *Vampyri* gehörigen Flederthiere und über die natürliche Stellung der Gattung *Antrozous*. *Monatsberichte der Königlich Preussische Akademie des Wissenschaften zu Berlin* 503–525.
- Pine RH, Bishop IR, Jackson RL (1970) Preliminary list of mammals of the Xavantina/Cachimbo Expedition (Central Brazil). *Transactions of the Royal Society of Tropical Medicine and Hygiene* 64: 668–670.
- Poma-Urey JL, Acosta LHS, Paca RC (2020) Presencia de *Micronycteris sanborni* Simmons, 1996 (Chiroptera, Phyllostomidae) en Bolivia. *Kempffiana* 16: 49–59.
- Poma-Urey JL, Acosta LHS, Rivero K, Hidalgo-Cossio M, Hingst-Zaher E, Gualda-Barros J, et al. (2023) Taxonomic revision and additional comments of some bats (Mammalia, Chiroptera) reported from Bolivia, with an updated checklist based on voucher material with verified identities. *Check List* 19: 409–427. <https://doi.org/10.15560/19.3.409>
- Quintela FM, da Rosa CA, Feijó A (2020) Updated and annotated checklist of recent mammals from Brazil. *Anais da Academia Brasileira de Ciências* 92: e20191004. <https://doi.org/10.1590/0001-3765202020191004>
- Ramírez-Chaves HE, Morales-Martínez DM, Pérez WA, Velásquez-Guarín D, Mejía-Fontecha IY, Ortiz-Giraldo M, et al. (2021) A new species of small *Eptesicus* Rafinesque (Chiroptera: Vespertilionidae) from northern South America. *Zootaxa* 5020: 489–520. <https://doi.org/10.11646/zootaxa.5020.3.4>
- Ramírez-Chaves HE, Cifuentes MA, Noguera-Urbano EA, Pérez WA, Torres-Martínez MM, Ossa-López PA, et al. (2023) Systematics, morphometry, and distribution of *Eptesicus fuscus miradorensis* (H. Allen, 1866) (Chiroptera: Vespertilionidae), with notes on baculum morphology and natural history. *Therya* 14: 299–311. <https://doi.org/10.12933/therya-23-2290>
- Ramírez-Chaves HE, Morales-Martínez DM, Rodríguez-Posada ME, Suárez-Castro AF (2022) Checklist of the mammals (Mammalia) of Colombia. *Mammalogy Notes* 7: 253. <https://doi.org/10.47603/mano.v7n2.253>
- Raposo MA, Stopiglia R, Brito GRR, Bockmann FA, Kirwan GM, Gayon J, Dubois A (2017) What really hampers taxonomy and conservation? A riposte to Garnett and Christidis (2017). *Zootaxa* 4317: 179–184. <https://doi.org/10.11646/zootaxa.4317.1.10>
- Reis NR, Peracchi AL, Pedro WA, Lima IP (2007) *Morcegos do Brasil*. Nélio R. Reis, Londrina, 253 pp.
- Rojas D, Moreira M, Ramos Pereira MJ, Fonseca C, Dávalos LM (2018) Updated distribution maps for neotropical bats in the superfamily Noctilionoidea. *Ecology* 99: 2131. <https://doi.org/10.1002/ecy.2404>

- Shapley RL, Wilson DE, Warren AN, Barnett AA (2005) Bats of the Potaro Plateau region, western Guyana. *Mammalia* 69: 375–394. <https://doi.org/10.1515/mamm.2005.030>
- Siles L, Baker RJ (2020) Revision of the pale-bellied *Micronycteris* Gray, 1866 (Chiroptera, Phyllostomidae) with descriptions of two new species. *Systematics and Evolutionary Research* 58: 1411–1431. <https://doi.org/10.1111/jzs.12388>
- Siles L, Brooks DM, Aranibar H, Tarifa T, Vargas MRJ, Rojas JM, Baker RJ (2013) A new species of *Micronycteris* (Chiroptera: Phyllostomidae) from Bolivia. *Journal of Mammalogy* 94(4): 881–896. <https://doi.org/10.1644/12-MAMM-A-259.1>
- Simmons NB, Cirranello AL (2023) Bat Species of the World: A taxonomic and geographic database. Version 1.4. <https://batnames.org> [Accessed: 20/08/2023]
- Simmons NB, Voss RS (1998) The Mammals of Paracou, French Guiana: a neotropical lowland rainforest fauna Part 1. Bats. *Bulletin of the American Museum of Natural History* 237: 1–219.
- Simmons NB, Voss RS, Fleck DW (2002) A new Amazonian species of *Micronycteris* (Chiroptera: Phyllostomidae) with notes on the roosting behavior of sympatric congeners. *American Museum Novitates* 3358: 1–16. [10.1206/0003-0082\(2002\)358<0001:ANASOM>2.0.CO;2](https://doi.org/10.1206/0003-0082(2002)358<0001:ANASOM>2.0.CO;2)
- Solari S, Medellín R, Rodríguez-Herrera B, Dumont ER, Burneo SF (2019) Family Phyllostomidae (New World Leaf-nosed Bats). In: Wilson DE, Mittermeier RA (Eds) *Handbook of the Mammals of the World*. Lynx Edicions, Barcelona, vol. 9, 444–583.
- Solari S, Pacheco V, Luna L, Velazco PM, Patterson BD (2006) Mammals of the Manu Biosphere Reserve. *Fieldiana Zoology, New Series* 110: 13–22. [https://doi.org/10.3158/0015-0754\(2006\)110\[13:MOTMBR\]2.0.CO;2](https://doi.org/10.3158/0015-0754(2006)110[13:MOTMBR]2.0.CO;2)
- Taddei VA (1996) Sistemática de Quirópteros. *Boletim do Instituto Pasteur São Paulo* 1: 3–15.
- Tavares VC, Carvalho WD, Trevelin LC, Bobrowiec PED (2024) Biodiversity and Conservation of Bats in Brazilian Amazonia: with a Review of the Last 10 Years of Research. In: Spironello SR, Barnett AA, Lynch JW, Bobrowiec PED, Boyle SA (Eds) *Amazonian Mammals: current knowledge and conservation priorities*. Springer, New York, 29–72. [https://doi.org/10.1007/978-3-031-43071-8\\_3](https://doi.org/10.1007/978-3-031-43071-8_3)
- Tavares VC, Gregorin R, Peracchi AL (2008) Sistemática: a diversidade de morcegos no Brasil. In: Pacheco SM, Marques RV, Esbérard CEL (Eds) *Morcegos no Brasil: biologia, sistemática, ecologia e conservação*. Armazém Digital, Porto Alegre, 25–58.
- Tejedor A, Dávalos L (2016) *Natalus espiritasantensis*. In: *The IUCN Red List of Threatened Species*. <https://doi.org/10.2305/IUCN.UK.2016-2.RLTS.T136448A21983924.en> [Accessed: 21/08/2023]
- Teta P (2019) The usage of subgenera in mammalian taxonomy. *Mammalia* 83: 209–211. <https://doi.org/10.1515/mammalia-2018-0059>
- Thomson SA, Pyle RL, Ahyong ST, Alonso-Zarazaga M, Amirati J, Araya JF, et al. (2018) Taxonomy based on science is necessary for global conservation. *Plos Biology* 16(3): e2005075. <https://doi.org/10.1371/journal.pbio.2005075>
- Uieda W (1980) Ocorrência de *Carollia castanea* na Amazônia Brasileira (Chiroptera, Phyllostomidae). *Acta Amazonica* 10: 936–938.
- Velazco PM, Gardner AL, Patterson BD (2010) Systematics of the *Platyrrhinus helleri* species complex (Chiroptera: Phyllostomidae), with descriptions of two new species. *Zoological Journal of the Linnean Society* 159: 785–812. <https://doi.org/10.1111/j.1096-3642.2009.00610.x>
- Velazco PM, Patterson BD (2019) Small mammals of the Mayo river basin in Northern Peru, with the description of a new species of *Sturnira* (Chiroptera: Phyllostomidae). *Bulletin of the American Museum of Natural History* 429: 1–67. <https://doi.org/10.1206/0003-0090.429.1.1>
- Velazco PM, Soto-Centeno JA, Fleck DW, Voss RS, Simmons NB (2017) A new species of nectar-feeding bat of the genus *Hsunitycteris* (Phyllostomidae: Lonchophyllinae) from Northeastern Peru. *American Museum Novitates* 3881: 1–26. <https://doi.org/10.1206/3881.1>
- Velazco PM, Voss RS, Fleck DW, Simmons NB (2021) Mammalian diversity and Matses ethnomammalogy in Amazonian Peru Part 4: bats. *Bulletin of the American Museum of Natural History* 451: 1–200. <https://doi.org/10.1206/0003-0090.451.1.1>
- Vieira COC (1942) Ensaio monográfico sobre os quirópteros do Brasil. *Arquivos de Zoologia* 3: 219–471.
- Vieira COC (1955) Lista remissiva dos mamíferos do Brasil. *Arquivos de Zoologia* 5: 341–474.
- von Pelzeln A (1883) *Brasilische Säugethiere: Resultate von Johann Natterer's Reisen in den Jahren 1817 bis 1835*. *Verhandlungen der Zoologisch-Botanischen Gesellschaft in Österreich in Wien* 33(Suppl.): 1–140.
- Webster WD, Jones JK Jr (1987) A new subspecies of *Glossophaga commissarisi* (Chiroptera: Phyllostomidae) from South America. *Occasional Papers, The Museum, Texas Tech University* 109: 1–6.
- Williams SL, Genoways HH (2008) Subfamily Phyllostominae Gray, 1825. In: Gardner AL (Ed.) *Mammals of South America*. University of Chicago Press, Chicago, vol. 1, 255–300.



- Williams SL, Genoways HH, Groen JA (1983) Results of the Alcoa Foundation-Suriname Expeditions. VII. Records of mammals from central and southern Suriname. *Annals of Carnegie Museum* 52: 329–336.
- Wilson DE (2008) Genus *Myotis* Kaup 1829. In: Gardner AL (Ed.) *Mammals of South America*. University of Chicago Press, Chicago, vol. 1, 468–481.
- Wilson DE, Mittermeier RA (2019) *Handbook of the Mammals of the World*. Lynx Ediciones, Barcelona, vol. 9, 1008 pp.
- Yi X, Latch EK (2022) Systematics of the New World bats *Eptesicus* and *Histiotus* suggest trans-marine dispersal followed by Neotropical cryptic diversification. *Molecular Phylogenetics and Evolution* 175: 107582. <https://doi.org/10.1016/j.ympev.2022.107582>
- Zamora-Gutierrez V, Ortega J (2020) *Lichonycteris obscura* (Chiroptera: Phyllostomidae). *Mammalian Species* 52: 165–172. <https://doi.org/10.1093/mspecies/seaa012>
- Zortéa M, Ribeiro MCS, Mata PS, Bonvicino CR (2023) Morphological and molecular evidence of the occurrence of *Artibeus amplus* (Chiroptera: Phyllostomidae) in Brazil. *Zoologia* 40: e22058. <https://doi.org/10.1590/s1984-4689.v40.e22058>

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Submitted: October 10, 2023

Accepted: June 29, 2024

Editorial responsibility: José Anderson Feijó

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#### Competing Interests

The authors have declared that no competing interests exist.

#### How to cite this article

Garbino GST, Cláudio VC, Gregorin R, Lima IP, Loureiro LO, Moras LM, Moratelli R, Nascimento MC, Nogueira MR, Novaes RLM, Pavan AC, Tavares VC, Peracchi AL (2024) Updated checklist of bats (Mammalia: Chiroptera) from Brazil. *Zoologia* 41: e23073, <https://doi.org/10.1590/S1984-4689.v41.e23073>

#### Published by

Sociedade Brasileira de Zoologia at Scientific Electronic Library Online (<https://www.scielo.br/zool>)

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#### Supplementary material 1

Supplementary S1. Maps of bat species potentially occurring in Brazil.

Authors: GST Garbino, VC Cláudio, R Gregorin, IP Lima, L Loureiro, L Moras, et al.

Data type: Range maps.

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Link: <https://doi.org/10.3897/zoologia.41.e23073>

Appendix 1. List of families, subfamilies, genera, and species of bats that occur in Brazil. Subfamilies of Phyllostomidae are arranged in phylogenetic order, following Solari et al. (2019). Endemic species are denoted with an asterisk.

**Chiroptera Blumenbach, 1779**  
(9 families, 68 genera, 186 species)

**Emballonuridae Gervais, 1856**  
(7 genera, 17 species)

**Emballonurinae Gervais, 1856**

- Centronycteris maximiliani* (Fischer, 1829)
- Cormura brevirostris* (Wagner, 1843)
- Cyttarops alecto* Thomas, 1913
- Diclidurus albus* Wied, 1820
- Diclidurus ingens* Hernández-Camacho, 1955
- Diclidurus isabella* (Thomas, 1920)
- Diclidurus scutatus* Peters, 1869
- Peropteryx kappleri* Peters, 1867
- Peropteryx leucoptera* Peters, 1867
- Peropteryx macrotis* (Wagner, 1843)
- Peropteryx pallidoptera* Lim et al., 2010
- Peropteryx trinitatis* Miller, 1899
- Rhynchonycteris naso* (Wied, 1820)
- Saccopteryx bilineata* (Temminck, 1838)
- Saccopteryx canescens* Thomas, 1901
- Saccopteryx gymnura* Thomas, 1901
- Saccopteryx leptura* (Schreber, 1774)

**Phyllostomidae Gray, 1825**  
(43 genera, 96 species)

**Micronycterinae Van Den Bussche, 1992**

- Lampronycteris brachyotis* (Dobson, 1879)
- Micronycteris hirsuta* (Peters, 1869)
- Micronycteris megalotis* (Gray, 1842)
- Micronycteris microtis* Miller, 1898
- Micronycteris minuta* (Gervais, 1856)
- Micronycteris sanborni* Simmons, 1996
- Micronycteris schmidtorum* Sanborn, 1935

**Desmodontinae Wagner, 1840**

- Desmodus rotundus* (É. Geoffroy, 1810)
- Diaemus youngii* (Jentnik, 1893)
- Diphylla ecaudata* Spix, 1823

**Lonchorhininae Gray, 1866**

- Lonchorhina aurita* Tomes, 1863
- Lonchorhina inusitata* Handley & Ochoa, 1997

**Phyllostominae Gray, 1825**

- Chrotopterus auritus* (Peters, 1856)

- Gardnerycteris crenulata* (É. Geoffroy, 1803)
- Lophostoma brasiliense* Peters, 1867
- Lophostoma carrikeri* (Allen, 1910)
- Lophostoma schulzi* (Genoways & Williams, 1980)
- Lophostoma silvicola* d'Orbigny, 1836
- Macrophyllum macrophyllum* (Schinz, 1821)
- Mimon bennettii* (Gray, 1838)
- Phylloderma stenops* Peters, 1865
- Phyllostomus discolor* Wagner, 1843
- Phyllostomus elongatus* (É. Geoffroy, 1810)
- Phyllostomus hastatus* (Pallas, 1767)
- Phyllostomus latifolius* (Thomas, 1901)
- Tonatia bidens* (Spix, 1823)
- Tonatia maresi* Williams, Willig & Reid, 1995
- Trachops cirrhosus* (Spix, 1823)
- Trachops ehrhardti* Felten, 1956 \*
- Vampyrum spectrum* (Linnaeus, 1758)

**Glossophaginae Bonaparte, 1845**

- Anoura caudifer* (É. Geoffroy, 1818)
- Anoura geoffroyi* Gray, 1838
- Choeroniscus godmani* (Thomas, 1903)
- Choeroniscus minor* (Peters, 1868)
- Dryadonycteris capixaba* Nogueira et al., 2012 \*
- Glossophaga bakeri* Webster & Jones, 1987
- Glossophaga longirostris* Miller, 1898
- Glossophaga soricina* (Pallas, 1766)
- Lichonycteris obscura* Thomas, 1895
- Scleronycteris ega* Thomas, 1912

**Lonchophyllinae Griffiths, 1982**

- Hsunnycteris pattoni* (Woodman & Timm, 2006)
- Hsunnycteris thomasi* (Allen, 1904)
- Lionycteris spurrelli* Thomas, 1913
- Lonchophylla bokermanni* Sazima, Vizotto & Taddei, 1978 \*
- Lonchophylla dekeyseri* Taddei, Vizotto & Sazima, 1983
- Lonchophylla inexpectata* Moratelli & Dias, 2015 \*
- Lonchophylla mordax* Thomas, 1903 \*
- Lonchophylla peracchii* Dias, Esbérard & Moratelli, 2013 \*
- Xeronycteris vieirai* Gregorin & Ditchfield, 2005 \*

**Caroliinae Miller, 1924**

- Carollia benkeithi* Solari & Baker, 2006
- Carollia brevicauda* (Schinz, 1821)
- Carollia perspicillata* (Linnaeus, 1758)

**Glyphonycterinae Baker et al., 2016**

- Glyphonycteris behnii* (Peters, 1865) \*
- Glyphonycteris daviesi* (Hill, 1964)
- Glyphonycteris sylvestris* Thomas, 1896
- Neonycteris pusilla* (Sanborn, 1949) \*
- Trinycteris nicefori* (Sanborn, 1949)

**Rhinophyllinae Baker et al., 2016**

*Rhinophylla fischeriae* Carter, 1966  
*Rhinophylla pumilio* Peters, 1865

**Stenodermatinae Gervais, 1856**

*Ametrida centurio* Gray, 1846  
*Artibeus amplus* Handley, 1987  
*Artibeus anderseni* Osgood, 1916  
*Artibeus bogotensis* Andersen, 1906  
*Artibeus cinereus* (Gervais, 1856)  
*Artibeus concolor* Peters, 1865  
*Artibeus fimbriatus* Gray, 1838  
*Artibeus gnomus* Handley, 1987  
*Artibeus lituratus* (Olfers, 1818)  
*Artibeus obscurus* (Schinz, 1821)  
*Artibeus planirostris* (Spix, 1823)  
*Chiroderma doriae* Thomas, 1891  
*Chiroderma trinitatum* Goodwin, 1958  
*Chiroderma villosum* Peters, 1860  
*Mesophylla macconnelli* Thomas, 1901  
*Platyrrhinus angustirostris* Velazco, Gardner & Patterson, 2010  
*Platyrrhinus aurarius* (Handley & Ferris, 1972)  
*Platyrrhinus brachycephalus* (Rouk & Carter, 1972)  
*Platyrrhinus fusciventris* Velazco, Gardner & Patterson, 2010  
*Platyrrhinus guianensis* Velazco & Lim, 2014  
*Platyrrhinus incarum* (Thomas, 1912)  
*Platyrrhinus infuscus* (Peters, 1880)  
*Platyrrhinus lineatus* (É. Geoffroy, 1810)  
*Platyrrhinus recifinus* (Thomas, 1901) \*  
*Pygoderma bilabiatum* (Wagner, 1843)  
*Sphaeronycteris toxophyllum* Peters, 1882  
*Sturnira giannae* Velazco & Patterson, 2019  
*Sturnira lilium* (É. Geoffroy, 1810)  
*Sturnira magna* de la Torre, 1966  
*Sturnira tildae* de la Torre, 1959  
*Uroderma bilobatum* Peters, 1866  
*Uroderma magnirostrum* Davis, 1968  
*Vampyressa pusilla* (Wagner, 1843)  
*Vampyressa thyone* Thomas, 1909  
*Vampyriscus bidens* (Dobson, 1878)  
*Vampyriscus brocki* (Peterson, 1968)  
*Vampyrodes caraccioli* (Thomas, 1889)

**Mormoopidae Saussure, 1860**  
(1 genus, 4 species)

*Pteronotus alitonus* Pavan, Bobrowiec & Percequillo, 2018  
*Pteronotus gymnonotus* (Wagner, 1843)  
*Pteronotus personatus* (Wagner, 1843)  
*Pteronotus rubiginosus* (Wagner, 1843)

**Noctilionidae Gray, 1821**  
(1 genus, 2 species)

*Noctilio albiventris* Desmarest, 1818  
*Noctilio leporinus* (Linnaeus, 1758)

**Furipteridae Gray, 1866**  
(1 genus, 1 species)

*Furipterus horrens* (Cuvier, 1828)

**Thyropteridae Miller, 1907**  
(1 genus, 5 species)

*Thyroptera devivoi* Gregorin et al., 2006  
*Thyroptera discifera* (Lichtenstein & Peters, 1854)  
*Thyroptera lavalii* Pine, 1993  
*Thyroptera tricolor* (Spix, 1823)  
*Thyroptera wynneae* Velazco et al., 2014

**Natalidae Gray, 1866**  
(1 genus, 1 species)

*Natalus macrourus* (Gervais, 1856)

**Molossidae Gervais, 1856**  
(8 genera, 33 species)

**Molossinae Gervais, 1856**

*Cynomops abrasus* (Temminck, 1826)  
*Cynomops greenhalli* Goodwin, 1958  
*Cynomops mastivus* (Thomas, 1911)  
*Cynomops milleri* (Osgood, 1914)  
*Cynomops planirostris* (Peters, 1866)  
*Eumops auripendulus* (Shaw, 1800)  
*Eumops bonariensis* (Peters, 1874)  
*Eumops chimaera* Gregorin et al., 2016  
*Eumops dabbenei* Thomas, 1914  
*Eumops delticus* Thomas, 1923  
*Eumops glaucinus* (Wagner, 1843)  
*Eumops hansae* Sanborn, 1932  
*Eumops maurus* (Thomas, 1901)  
*Eumops patagonicus* Thomas, 1924  
*Eumops perotis* (Schinz, 1821)  
*Eumops trumbulli* (Thomas, 1901)  
*Molossops neglectus* Williams & Genoways, 1980  
*Molossops temminckii* (Burmeister, 1854)  
*Molossus aztecus* Saussure, 1860  
*Molossus coibensis* Allen, 1904  
*Molossus currentium* Thomas, 1901  
*Molossus fluminensis* Lataste, 1891  
*Molossus melini* Montani et al., 2021

*Molossus molossus* (Pallas, 1766)  
*Molossus pretiosus* Miller, 1902  
*Molossus rufus* É. Geoffroy, 1805  
*Neoplatymops mattogrossensis* (Vieira, 1942)  
*Nyctinomops aurispinosus* (Peale, 1848)  
*Nyctinomops laticaudatus* (É. Geoffroy, 1805)  
*Nyctinomops macrotis* (Gray, 1840)  
*Promops centralis* Thomas, 1915  
*Promops nasutus* (Spix, 1823)  
*Tadarida brasiliensis* (I. Geoffroy, 1824)

**Vespertilionidae Gray, 1821**  
(5 genera, 27 species)

**Vespertilioninae Gray, 1821**

*Histiotus alienus* Thomas, 1916 \*  
*Histiotus diaphanopterus* Feijó, Rocha & Althoff, 2015  
*Histiotus laephotis* Thomas, 1916  
*Histiotus montanus* (Philippi & Landbeck, 1861)  
*Histiotus velatus* (I. Geoffroy, 1824)  
*Lasiurus blossevillii* ([Lesson, 1826])  
*Lasiurus castaneus* Handley, 1960

*Lasiurus ebenus* Fazzolari-Corrêa, 1994 \*  
*Lasiurus ega* (Gervais, 1856)  
*Lasiurus egregius* (Peters, 1870)  
*Lasiurus villosissimus* (É. Geoffroy, 1806)  
*Neoptesicus brasiliensis* (Desmarest, 1819)  
*Neoptesicus chiriquinus* (Thomas, 1920)  
*Neoptesicus diminutus* (Osgood, 1915)  
*Neoptesicus furinalis* (d'Orbigny & Gervais, 1847)  
*Neoptesicus taddeii* (Miranda, Bernardi & Passos, 2006) \*  
*Rhogeessa hussoni* Genoways & Baker, 1966  
*Rhogeessa io* Thomas, 1903

**Myotinae Tate, 1942**

*Myotis albescens* (É. Geoffroy, 1806)  
*Myotis izecksohni* Moratelli et al., 2011  
*Myotis lavalii* Moratelli et al., 2011  
*Myotis levis* (I. Geoffroy, 1824)  
*Myotis nigricans* (Schinz, 1821)  
*Myotis pampa* Novaes, Wilson & Moratelli, 2021  
*Myotis riparius* Handley, 1960  
*Myotis ruber* (É. Geoffroy, 1806)  
*Myotis simus* Thomas, 1901