

## Illustrated checklist of newly described (2006–2016) land and freshwater Gastropoda from Brazil

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### Abstract

A list of Brazilian terrestrial and freshwater gastropod species and genera described from 2006 to 2016 is presented, updating the previous catalogue of SIMONE (2006). Colored photographs of type specimens, as well as information on type material, distribution and taxonomy are also provided. The list encompasses 42 recently described species, largely pulmonates, including 39 terrestrial, and three freshwater taxa. New genera are: *Syneancyclus* GUTIÉRREZ GREGORIC 2014; *Clinispira* SIMONE & CASATI 2013; *Habeas* SIMONE 2013; *Kora* SIMONE 2012; *Olympus* SIMONE 2010; *Spiripockia* SIMONE 2012 and *Vegrandinia* SALVADOR, CUNHA & SIMONE 2013. The appendix lists native species whose known geographical ranges in Brazil have been extended considerably during this period, as well as those previously unrecognized in Brazil.

**Keywords:** Caenogastropoda, Pulmonata, type locality, type specimens.

### Introduction

In the late 1940s, FREDERICO LANGE DE MORRETES compiled the first comprehensive inventory of Recent Brazilian mollusks (MORRETES 1949). It encompassed molluscan species from every environment and received subsequent corrections and expansions (MORRETES 1953, OLIVEIRA & CASTRO 1979). This first catalog listed nearly 1,500 species, over a third of which were terrestrial and freshwater gastropods. The species lists published in the following decades mostly consisted of short regional reports and occurrence notes, with the possible exception of OLIVEIRA et al. (1981). Their catalogue, however, was based on the institutional collection of the Universidade Federal de Juiz de Fora (UFJF), which also harbors exotic specimens.

SALGADO & COELHO (2003) published the first broad Brazilian species list since MORRETES (1949). It was restricted to terrestrial gastropods, comprising 590 species,

but excluding slugs (e.g., Veronicellidae). Three years later, SIMONE (2006) published an extensive catalogue book of Brazilian terrestrial and freshwater mollusks, with 1,060 valid species. Most of them (948) were gastropods. Unlike its predecessors, the book by SIMONE offered an extensive assemblage of colored specimen photographs, mostly including type specimens. It also included information on distribution and an exhaustive bibliographical compilation on each species.

Not many Brazilian terrestrial gastropods have been described since the 1950s. It was not until the 2010s that the number of described species increased significantly. In this paper, we compile a list of Brazilian terrestrial and freshwater gastropod species described in the decade following SIMONE'S (2006) catalog, up to 2016. We take the opportunity to provide information on species distribution, types, relevant taxonomic changes, and corrections.

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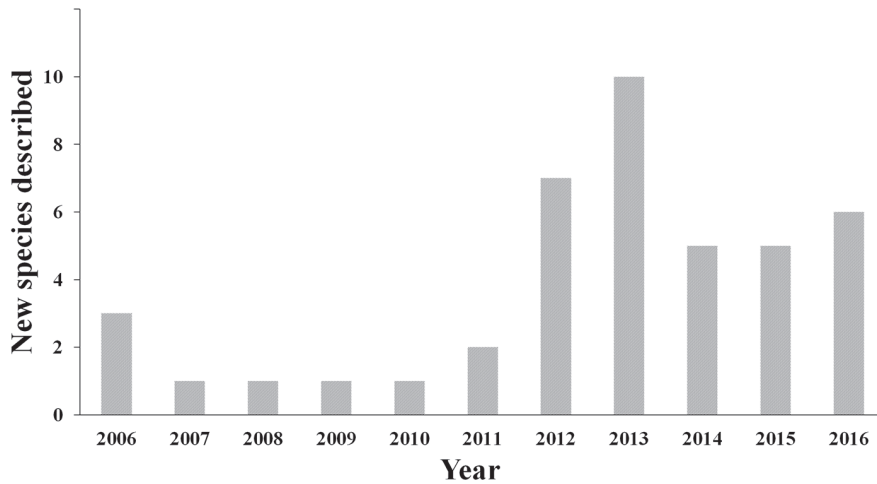


Figure 1. Chart showing the number of new species of land and freshwater gastropods described from Brazil between the years 2006 and 2016 (up to October 10, 2016).

The species list presented here was compiled from the specialized literature, including the original descriptions and any further papers mentioning the species, and figured (preferably by the holotypes). In some cases, the original description fails to give a catalog number for the type material; these numbers are provided here whenever possible according to the institutions' online databases, published type catalogs (e.g., PIMENTA et al. 2014, BREURE & ABLETT 2015) or the collections' curators (personal communication). The systematic classification used here follows BOUCHET et al. (2005), with some subsequent modifications (e.g., BREURE & ROMERO 2012, for the Orthalicoidea).

From 2006 to 2016, 39 new terrestrial and three freshwater snail species from Brazil were described (see Fig. 1 for year-by-year numbers). These are listed below, in systematic order, with additional data on their type localities, distribution, type material and other remarks of broader interest. In the same period, seven new genera were erected: *Syneancyllus* GUTIÉRREZ GREGORIC 2014; *Clinispira* SIMONE & CASATI 2013; *Habeas* SIMONE 2013; *Kora* SIMONE 2012; *Olympus* SIMONE 2010; *Spiripockia* SIMONE 2012; *Vegrandinia* SALVADOR, CUNHA & SIMONE 2013. Nearly all of these genera were created to house the new species, with the single exception of *Vegrandinia*. This new subulinid genus was erected to accommodate *Bulimulus trinidadensis* BREURE & COELHO 1976, a species endemic to Trindade Island, which lies about 1,140 km off the southeast part of mainland Brazil (SALVADOR et al. 2013).

Besides the new species described, in the same period there were reports of several species already known from Brazil that greatly extended their known geographical ranges. These species, and their new distribution compared to that reported by SIMONE (2006), are listed in the Appendix. The Appendix also lists species already described by 2006, but recognized only subsequently as occurring natively in Brazil. It is also worthwhile to highlight that none of the species listed as valid by SIMONE (2006) were brought into synonymy since then.

The following abbreviations are used throughout the text.

#### Institutions:

ANSP	Academy of Natural Sciences, Drexel University (Philadelphia, USA)
FNMH	Field Museum of Natural History (Chicago, USA)
ICMBio	Instituto Chico Mendes de Conservação da Biodiversidade (Brasília, Brazil)
MACN	Museo Argentino de Ciencias Naturales Bernardino Rivadavia (Buenos Aires, Argentina)
MCN-FZB	Museu de Ciências Naturais da Fundação Zoobotânica do Rio Grande do Sul (Porto Alegre, Brazil)
MCP	Museu de Ciências e Tecnologia, Pontifícia Universidade Católica do Rio Grande do Sul (Porto Alegre, Brazil)
MLP	Museo de La Plata (La Plata, Argentina)
MNHN	Musé National d'Histoire Naturelle (Paris, France)
MNRJ	Museu Nacional da Universidade Federal do Rio de Janeiro (Rio de Janeiro, Brazil)
MPEG	Museu Paraense Emilio Goeldi (Belém, Brazil)
MUSM	Museo de Historia Natural de la Universidad de San Marcos (Lima, Peru)
MZSP	Museu de Zoologia da Universidade de São Paulo (São Paulo, Brazil)
MZUFBA	Museu de Zoologia da Universidade Federal da Bahia (Salvador, Brazil)
NHMUK	Natural History Museum (London, UK)
SMF	Senckenberg Forschungsinstitut und Naturmuseum Frankfurt (Frankfurt am Main, Germany)
SMNH	Naturhistoriska Riksmuseet (Stockholm, Sweden)
SMNS	Staatliches Museum für Naturkunde Stuttgart (Stuttgart, Germany)
USNM	Smithsonian National Museum of Natural History (Washington, D.C., USA)
ZMB	Zoologisches Museum der Humboldt-Universität (Berlin, Germany)
ZMH	Zoologisches Museum der Universität Hamburg (Hamburg, Germany).

#### Shell Measurements:

D	shell width (greatest diameter)
H	shell height
L	body length (slugs).

#### Museum Material:

sh.	shell (empty shell only)
spc.	specimen (shell and soft body preserved in ethanol 70% or 96%).

## Systematics

Caenogastropoda

Superfamily Cyclophoroidea

Family Diplommatinidae

Genus *Adelopoma* DOERING 1884*Adelopoma paulistanum* MARTINS & SIMONE 2014

Fig. 2

2014 *Adelopoma paulistanum* MARTINS & SIMONE: 766, figs. 1–35.

Type locality: Brazil. São Paulo state; São Paulo: Burle Marx Park, 23°38'05.61"S 46°43'24.24"W.

Distribution: Known only from type locality.

Type material: Holotype: MZSP 116256. Paratypes: MNRJ 26763 (3 sh.), MZSP 106109 (14 sh.), MZSP 106110 (16 sh.), MZSP 106112 (34 sh.), MZSP 106114 (18 sp.), MZSP 206115 (1 sp.), MZSP 106116 (2 sp.), MZSP 106117 (16 sp. + 2 radulae [SEM preparations]), USNM unnumbered (3 sh.).

Remarks: This species was described from a small park in the city of São Paulo. The type locality was threatened by real estate development and SIMONE (2015a) argued that the species should have the status of “endangered”.

Genus *Habeas* SIMONE 2013*Habeas corpus* SIMONE 2013

Fig. 3

2013 *Habeas corpus* SIMONE: 520, figs. 1–6, 16–18.

Type locality: Brazil. Bahia state; Carinhanha: Serra do Ramalho, Gruna das Três Cobras (“Três Cobras Cave”; 13°37'07.6"S 43°45'11.5"W, ca. 400 m elevation).

Distribution: Also known from the nearby Gruna do Cesário (“Cesário Cave”), in the same mountain range.

Type material: Holotype: MZSP 110000. Paratypes: MZSP 106774 (1 sh.), MZSP 106745 (1 sh.).

Remarks: Cavernicolous species. Type species of the genus.

*Habeas data* SIMONE 2013

Fig. 4

2013 *Habeas data* SIMONE: 520, figs. 7–10, 16, 18.

Type locality: Brazil. Bahia state; Carinhanha: Serra do Ramalho, Gruna do Cesário (“Cesário Cave”; 13°31'06.1"S 43°38'26.2"W, ca. 400 m elevation).

Distribution: Also known from the nearby Gruna Vila Nova (“Vila Nova Cave”), on the same mountain range.

Type material: Holotype: MZSP 106810 (fragmented). Paratypes: MZSP 106814 (2 sh.), MZSP 109965 (1 sh.), MZSP 110159 (1 sh.).

Remarks: Cavernicolous species.

*Habeas priscus* SIMONE 2013

Fig. 5

2013 *Habeas priscus* SIMONE: 522, figs. 11–17.

Type locality: Brazil. Bahia state; Central, Boqueirão do Maxixe (13°46'51.6"S 44°02'18.7"W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 103044.

Superfamily Rissosoidea

Family Pomatiopsidae

Genus *Spiripockia* SIMONE 2012*Spiripockia punctata* SIMONE 2012

Fig. 6

2012a *Spiripockia punctata* SIMONE: 516, figs. 1–33.

Type locality: Brazil. Bahia state; Serra do Ramalho karst area, Middle São Francisco River Basin, Lapa dos Peixes Cave (13°49'21.78"S 43°57'24.39"W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 105000. Paratypes: MNRJ 30503 (1 sp.), MZSP 104435 (19 sp.), USNM 1182929 (1 sp.).

Remarks: Cavernicolous species. Type species of the genus. The registry number of the USNM paratype provided in the original paper is wrong; the correct number is shown above.

Pulmonata

Hygrophila

Superfamily Chilinoidea

Family Chiliniidae

Genus *Chilina* GRAY 1828*Chilina iguazuensis* GUTIÉRREZ GREGORIC & RUMI 2008

Figs. 58–59

2008 *Chilina iguazuensis* GUTIÉRREZ GREGORIC & RUMI: 324, figs. 1–7.

Type locality: Ñandú rapid, lower (“upper” in the original) Iguazu River, Iguazú National Park (border between Argentina, Misiones province, and Brazil, Paraná state; 25°42'S 54°25'W).

Distribution: Known from several rapids on the lower Iguazu River.

Type material: Holotype: MLP 12526. Paratypes: MACN In37175, MLP 12527 (5 sp.), MLP 12528 (7 sp.).

## Superfamily Planorboidea

## Family Planorbidae

Genus *Syneancylus* GUTIÉRREZ GREGORIC 2014*Syneancylus rosanae* (GUTIÉRREZ GREGORIC 2012)

Figs. 7–8

2012 *Anancylus rosanae* GUTIÉRREZ GREGORIC: 109, figs. 2–18.2014 *Syneancylus rosanae* – GUTIÉRREZ GREGORIC: 243.

Type locality: Ñandú rapid, lower (“upper” in the original) Iguazu River, Iguazú National Park (border between Argentina, Misiones province, and Brazil, Paraná state; 25°42'S 54°25'W).

Distribution: Known from several rapids on the lower Iguazu River.

Type material: Holotype: MLP 13219. Paratypes: MLP 13220 (7 spc.).

Remarks: Type species of the genus. It was originally described in the new genus *Anancylus* GUTIÉRREZ GREGORIC 2012 [non THOMSON 1864; Coleoptera], a pre-occupied name. *Syneancylus* is the replacement name (GUTIÉRREZ GREGORIC 2014).

## Stylommatophora

## Superfamily Veronicelloidea

## Family Veronicellidae

Genus *Belocaulus* HOFFMANN 1925*Belocaulus willibaldoi* OHLWEILER, MOTA & GOMES 2009

Figs. 9–10

2009 *Belocaulus willibaldoi* OHLWEILER, MOTA & GOMES: 35, figs 2–26.

Type locality: Brazil. São Paulo state; São Paulo, Bairro Parque Fernanda I, 23°40' 05.89"S 49°47'26.66"W.

Distribution: Brazil. Minas Gerais, São Paulo, Santa Catarina and Rio Grande do Sul states (Ohlweiler et al. 2009, 2010).

Type material: Holotype: MZSP 87747. Paratypes: MZSP 87748 (1 spc.), MZSP 87749 (1 spc.), MZSP 87750 (2 spc.).

Genus *Simrothula* THOMÉ 1975*Simrothula paraensis* GOMES, PÍCANÇO, MENDES &

THOMÉ 2006

Figs. 11–12

2006 *Simrothula paraensis* GOMES, PÍCANÇO, MENDES & THOMÉ: 61, figs. 1–18.

Type locality: Brazil. Pará state; Serra de Carajás (Carajás mountain range), Serra Norte, ca. 55 km south of the city of Belém, between the rivers Itacaiuna and Parauapebas (5°54'–6°33'S 49°53'–50°34'W).

Distribution: Known only from type locality.

Type material: Holotype: MPEG 2731. Paratypes: MCP 8819 (6 spc.), MPEG 2732 (1 spc.), MPEG 2733 (1 spc.), MPEG 2734 (1 spc.), MPEG 2735 (4 spc.), MPEG 2736 (1 spc.), NHMUK 20060092 (2 spc.).

## Stylommatophora

## Superfamily Orthalicoidea

## Family Bulimulidae

Genus *Drymaeus* ALBERS 1850*Drymaeus dakryodes* SALVADOR, CAVALLARI & SIMONE 2015

Fig. 13

2015 *Drymaeus dakryodes* SALVADOR, CAVALLARI & SIMONE: 71, figs 15–21.

Type locality: Brazil. Tocantins state; Taguatinga (12°21'54"S 46°21'39"W, ca. 870 m elevation).

Distribution: Known only from type locality.

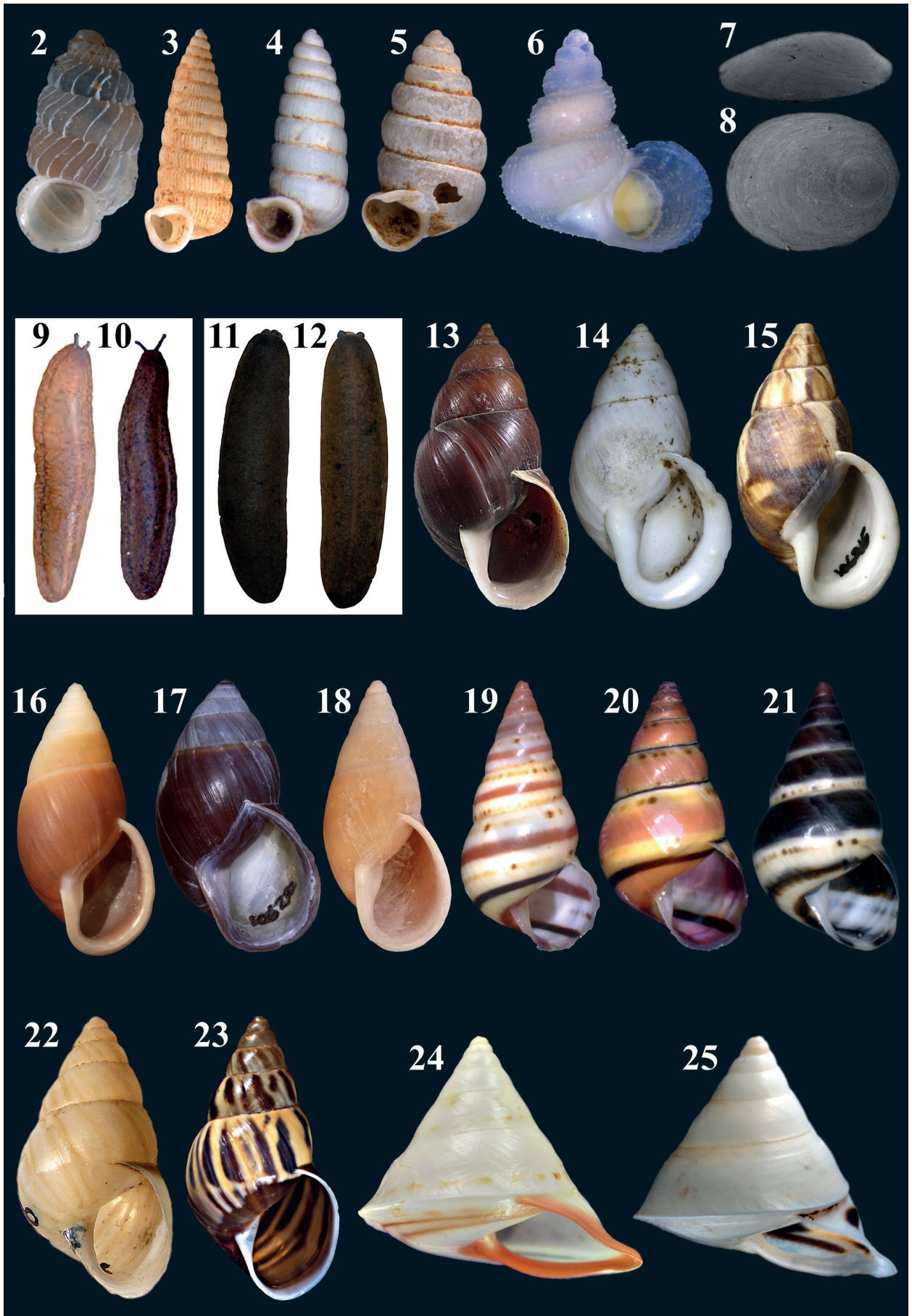
Type material: Holotype: MZSP 114874. Paratypes: MZSP 114875 (4 sh.).

*Drymaeus iracema* (SIMONE 2015)

Fig. 14

Figure 2. *Adelopoma paulistanum*, holotype (MZSP 116256, H = 2.6 mm, D = 1.4 mm). Figure 3. *Habeas corpus*, holotype (MZSP 110000, H = 10.3 mm, D = 4.5 mm). Figure 4. *Habeas data*, holotype (MZSP 106810, H = 5.7 mm, D = 2.4 mm). Specimen is presently fragmented. Figure 5. *Habeas priscus*, holotype (MZSP 103044, H = 4.6 mm, D = 2.7 mm). Figure 6. *Spiripockia punctata*, holotype (MZSP 105000, H = 4.6 mm). Figures 7–8. *Syneancylus rosanae* (H = 2.0 mm, D = 1.7 mm). Reproduced from GUTIÉRREZ GREGORIC (2012: figs. 2 and 3, respectively), with background removed. Figure 9. *Belocaulus willibaldoi* (L = 26.2 mm). Reproduced from OHLWEILER et al. (2009: fig. 3). Figure 10. *Belocaulus willibaldoi* (L = 25.5 mm). Reproduced from OHLWEILER et al. (2009: fig. 5). Figure 11. *Simrothula paraensis* (MCP 8819, L = 38.2 mm). Photograph provided by Suzete R. Gomes. Figure 12. *Simrothula paraensis* (MPEG 2735, L = 37.8 mm). Photograph provided by Suzete R. Gomes. Figure 13. *Drymaeus dakryodes*, holotype (MZSP 114874; H = 40.1 mm, D = 19.5 mm). Figure 14. *Drymaeus iracema*, holotype (MZSP 104964; H = 39.3 mm, D = 22.4 mm). Figure 15. *Drymaeus terreus*, holotype (MZSP 106215; H = 40.8 mm, D = 26.5 mm). Figure 16. *Kora corallina*, holotype (MZSP 103910; H = 43.4 mm, D = 22.3 mm). Figure 17. *Kora nigra*, holotype (MZSP 106232; H = 30.1 mm, D = 18.3 mm). Figure 18. *Kora rupestris*, holotype (MZSP 121416; H = 37.7 mm, D = 16.3). Figure 19. *Leiostracus carnavalescus*, holotype (MZSP 106177; H = 25.4 mm, D = 12.4 mm). Figure 20. *Leiostracus carnavalescus*, paratype (MZSP 106178; H = 21.2 mm). Figure 21. *Leiostracus carnavalescus*, paratype (MZSP 106179; H = 22.0 mm). Figure 22. *Leiostracus faerie*, holotype (SMF 25876; H = 14.6 mm, D = 7.6 mm). Figure 23. *Leiostracus fetidus*, holotype (MZSP 112123; H = 21.2 mm, D = 11.7 mm). Figure 24. *Oxychona maculata*, holotype (MZSP 108005; H = 17.9 mm, D = 19.8 mm). Figure 25. *Oxychona michelinae*, paratype (MZSP 116210, H = 15.9 mm, D = 17.4 mm).





2015b *Kora iracema* SIMONE: 54, figs 15–20.

2016 *Drymaeus iracema* – SALVADOR & SIMONE: 3.

Type locality: Brazil. Bahia state; São Desidério, Gruta do Morro dos Tapuias (“Tapuias Hill Cave”; 12°30'S 45°03'W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 104964.

Remarks: New generic assignment according to SALVADOR & SIMONE (2016).

***Drymaeus terreus*** (SIMONE 2015)

Fig. 15

2015b *Kora terreus* SIMONE: 51, figs 1–5.

2016 *Drymaeus terreus* – SALVADOR & SIMONE: 3.

Type locality: Brazil. Minas Gerais state; Presidente Olegário, Povoado de Galena (18°25'S 46°25'W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 106215.

Remarks: New generic assignment according to SALVADOR & SIMONE (2016).

Genus ***Kora*** SIMONE 2012

***Kora corallina*** SIMONE 2012

Fig. 16

2012b *Kora corallina* SIMONE: 432, figs. 1–8.

Type locality: Brazil. Bahia state; Santa Maria da Vitória (ca. 13°24'S 44°12'W, ca. 460 m elevation).

Distribution: Known only from type locality. The occurrence from Carinhanha reported in SIMONE (2015b) is actually a congener, *K. rupestris*, as discussed by SALVADOR & SIMONE (2016).

Type material: Holotype: MZSP 103910. Paratypes: MZSP 103911 (1 sh.), MZSP 103912 (1 sh.), MZSP 103913 (32 sh.), MZSP 104033 (>50 sh.), MNHN IM-2012-37362 (2 sh.), MNRJ 30377 (2 sh.), USNM 1157009 (2 sh.).

Remarks: Type species of the genus.

***Kora nigra*** SIMONE 2015

Fig. 17

2015b *Kora nigra* SIMONE: 53, figs 6–13, 21.

Type locality: Brazil. Bahia state; Carinhanha, Serra do Ramalho, Gruta do Cesário (“Cesário Cave”; 14°19'S 43°47'W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 106232. Paratypes: MZSP 106241 (1 sh.), MZSP 106250 (2 sh.), MZSP 104831 (5 sh.).

***Kora rupestris*** SALVADOR & SIMONE 2016

Fig. 18

2016 *Kora rupestris* SALVADOR & SIMONE: 3, figs. 4–11, 15–17.

Type locality: Brazil. Bahia state; Carinhanha municipality (city center coordinates: 14°18'18"S 43°45'54"W), under rocks on Canabrava Hill.

Distribution: Brazil. Bahia state; Carinhanha, Coribe and Serra do Ramalho municipalities.

Type material: Holotype: MZSP 121416. Paratypes: MZSP 121441 (2 sh.).

Genus ***Leiostracus*** ALBERS 1850

***Leiostracus carnavalescus*** SIMONE & SALVADOR 2016

Figs. 19–21

2016 *Leiostracus carnavalescus* SIMONE & SALVADOR: 12, figs. 2–27, 53–67.

Type locality: Brazil. Minas Gerais state; Nanuque municipality, small fragment of Atlantic rainforest close to Mucuri River (ca. 17°51'S 40°23'W, ca. 120 m of elevation).

Distribution: Brazil. Minas Gerais state: Nanuque and Mantena municipalities. Espírito Santo state: Pinheiros and Sooretama municipalities.

Type material: Holotype: MZSP 106177. Paratypes: MZSP 106178 (14 spc.), 106179 (24 sh.).

***Leiostracus faerie*** SALVADOR & CAVALLARI 2014

Fig. 22

2014b *Leiostracus faerie* SALVADOR & CAVALLARI: 364, figs. 2–5.

Figure 26. *Thaumastus caetensis*, holotype (MNRJ 8097, H = 55.2 mm, D = 21.9 mm). Reproduced from PENA et al. (2011: fig. 11).  
 Figure 27. *Thaumastus parvus*, holotype (MNRJ 8107, H = 48.6 mm, D = 22.7 mm). Reproduced from PENA et al. (2009: fig. 1).  
 Figure 28. *Thaumastus straubei*, holotype (MNRJ 11890, H = 7.5 mm, D = 3.2 mm). Photograph provided by Eduardo Colley.  
 Figure 29. *Anctus prolatus*, holotype (MZSP 112450; H = 25.2 mm, D = 10.1 mm). Figures 30–32. *Anostoma tessa*, holotype (MZSP 103914, H = 24.5 mm, D = 31.1 mm). Figures 33–34. *Clinispira insolita*, holotype (MZSP 111847; H = 14.6 mm, D = 9.4 mm). Figure 35. *Cyclodontina capivara*, holotype (MZSP 112448; H = 19.2 mm, D = 5.9 mm). Figure 36. *Cyclodontina tapuia*, holotype (MZSP 109684; H = 22.9 mm, D = 9.8 mm). Figure 37. *Spixia coltrorum*, holotype (MZSP 103920; H = 40.0 mm, D = 16.0 mm). Figure 38. *Rhinus botocudus*, holotype (MZSP 106174; H = 13.9 mm, D = 11.7 mm). Figure 39. *Rhinus gilbertus*, holotype (MZSP 112449; H = 21.9 mm, D = 8.3 mm). Figure 40. *Simpulopsis gomesae*, holotype (MCP 8701, H = 6.2 mm, D = 5.5 mm). Reproduced from SILVA & THOMÉ (2006: fig. 20, in part). Figure 41. *Simpulopsis promatensis*, holotype (MCP 8674, H = 10.6 mm, D = 8.6 mm). Reproduced from SILVA & THOMÉ (2006: fig. 4, in part). Figure 42. *Obeliscus boitata*, holotype (MZSP 106169; H = 50.3 mm, D = 11.9 mm). Figure 43. *Euglandina irakita*, holotype (MZSP 97238; H = 39.2, D = 16.7 mm). Figures 44–46. *Streptartemon molaris*, holotype (MZSP 112451; H = 8.7 mm, D = 5.1 mm). Figure 47. *Megalobulimus amandus*, holotype (MZSP 103917; H = 78.9 mm, H = 50.0 mm). Figure 48. *Megalobulimus jaguarunensis*, holotype (MZSP 118302; H = 60.3 mm, D = 28.8 mm).





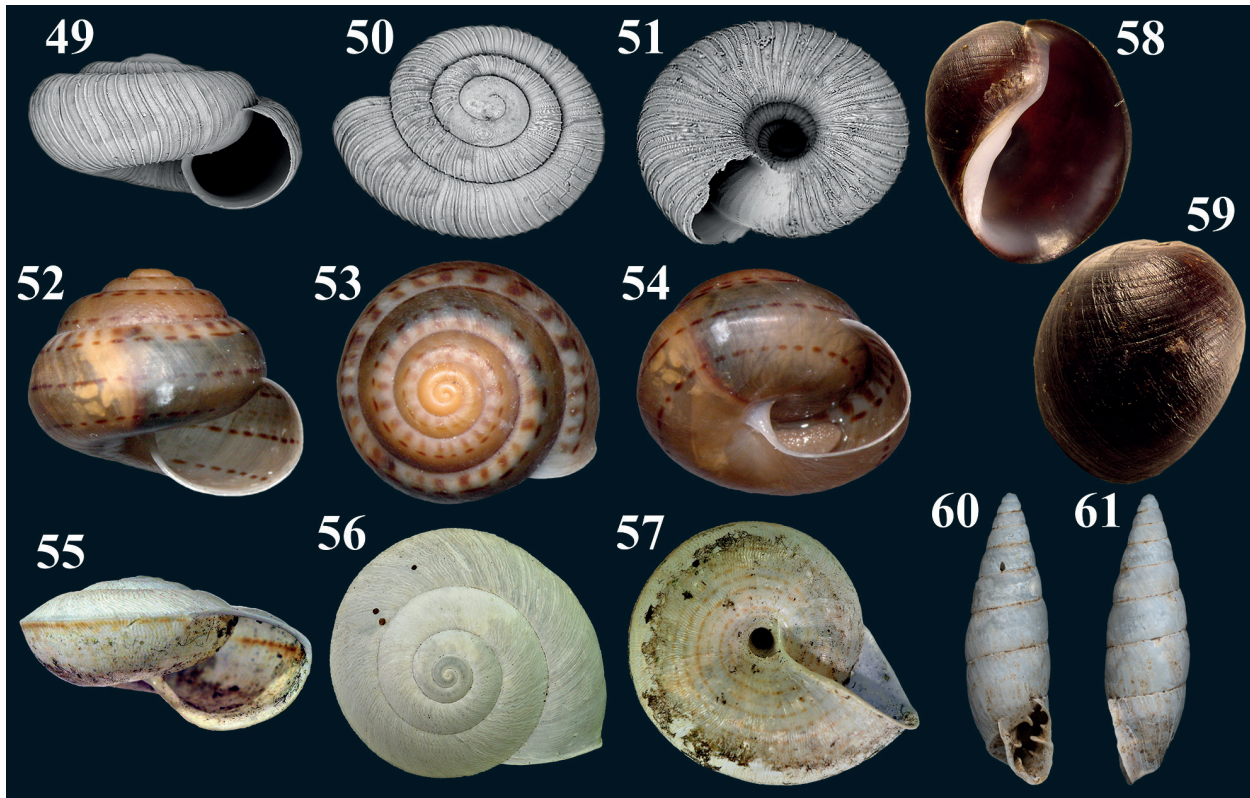


Figure 49. *Radiodiscus sanchicoensis*, paratype (MCP 6707, H = 0.9 mm, D = 1.6 mm). Photograph provided by Sergio Miquel. Figure 50. *Radiodiscus sanchicoensis*, holotype (MCP 6895, D = 1.4 mm). Photograph provided by Sergio Miquel. Figure 51. *Radiodiscus sanchicoensis*, paratype (MCP 6787, D = 1.6 mm). Photograph provided by Sergio Miquel. Figures 52–54. *Olympus nimbus*, holotype (MZSP 87151; H = 15.7 mm, D = 13.1 mm). This shell presently has a hole through which the soft body was extracted for anatomical examination. Figures 55–57. *Solaropsis alcobacensis*, holotype (MZSP 107964; H = 16.3 mm, D = 33.2 mm). Figures 58–59. *Chilina iguazuensis*, holotype (MLP 12526; H = 18.1 mm, D = 14.9 mm). Photograph provided by Diego E. Gutiérrez Gregoric. Figures 60–61. *Bahiensis ribeirensis*, holotype (MZSP 120774; H = 21.3 mm, D = 5.0 mm).

Type locality: Brazil. Espírito Santo state; area in the vicinity of the Rio Doce (“Doce River”).

Distribution: Known only from type locality.

Type material: Holotype: SMF 25876.

Remarks: Species described from a museum specimen collected in 1914. The type locality, along with a large portion of surrounding land has suffered a grave environmental disaster in 2015. The collapse of a dam in the municipality of Mariana flooded the area along the course of the Doce River with silt and possibly toxic mining waste. The impact of this event on the local fauna, including *L. faerie*, is yet to be fully assessed.

***Leiostracus fetidus* SALVADOR & CAVALLARI 2014**

Fig. 23

2014a *Leiostracus fetidus* SALVADOR & CAVALLARI: 40, figs. 2–8.

Type locality: Brazil. Bahia state; Atlantic Rainforest fragment near the city of Canavieiras (15°40'S 39°02'W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 112123. Paratypes: MZSP 107577 (13 sh.), SMNS ZI0077108 (2 sh.).

Genus *Oxychona* MÖRCH 1852

***Oxychona maculata* SALVADOR & CAVALLARI 2013**

Fig. 24

2013 *Oxychona maculata* SALVADOR & CAVALLARI: 315, figs. 2–11.

Type locality: Brazil. Bahia State; Ilhéus municipality (14°47'S 39°02'W).

Distribution: Brazil. Bahia state; Ilhéus and Itapetinga municipalities.

Type material: Holotype: MZSP 108005. Paratype: MZSP 74500.

***Oxychona michelinae* PORTO, ROCHA FILHO, JOHNSON & NEVES 2016**

Fig. 25

2016 *Oxychona michelinae* PORTO, ROCHA FILHO, JOHNSON & NEVES: 106, figs 2A–F, 3A–D.

Type locality: Brazil. Bahia State; Igrapiúna municipality, Michelin Ecological Reserve (13°47'03"S 39°10'21"W).

Distribution: Known only from type locality.



Type material: Holotype: MZUFBA 053. Paratypes: MZUFBA 054 (3 sh.), MZSP 116210 (1 sh.).

Family Megaspiridae

Genus *Thaumastus* ALBERS 1860

*Thaumastus caetensis* PENA, SALGADO & COELHO 2011

Fig. 26

2011 *Thaumastus (Thaumastus) caetensis* PENA, SALGADO & COELHO: 534, figs. 11–21.

Type locality: Brazil. Minas Gerais state; Caeté municipality, Serra da Piedade (“Piedade Hill”; 19°49'19"S 43°40'46"W).

Distribution: Brazil. Minas Gerais state; Caeté and Catas Altas municipalities (VASCONCELOS & PENA, 2012).

Type material: Holotype: MNRJ 8097. Paratypes: MNRJ HSL7810 (1 sh.), MNRJ 3115 (3 sh.), MNRJ 8098 (3 sh., soft parts), MNRJ 8098 (2 sh., soft parts, histological slides), MNRJ 8100 (1 sh.), MNRJ 8101 (1 sp.), MNRJ 9806 (12 sp., soft parts), MZSP 39388 (1 sh.), ZMH 2966 (1 sh.).

Remarks: The paratypes from the ANSP and MNHN collections (according to PENA et al. 2011: ANSP unnumbered, 1 sh., and MNHN unnumbered, 2 sh.) are missing and were likely not received (PAUL CALLOMON, PHILIPPE MAESTRATI and VIRGINIE HÉROS, personal communications, 2016).

*Thaumastus parvus* PENA, SALGADO & COELHO 2011

Fig. 27

2011 *Thaumastus (Thaumastus) parvus* PENA, SALGADO & COELHO: 532, figs. 1–10.

Type locality: Brazil. Minas Gerais state; Belo Horizonte, Mangabeiras Park, Serra do Curral (“Curral Hill”; 19°57'15.00"S 43°55'21.77"W).

Distribution: Brazil. Minas Gerais state; Belo Horizonte and Nova Lima municipalities.

Type material: Holotype: MNRJ 8107. Paratypes: MNRJ 8102 (soft parts), MNRJ 8103 (8 sh., soft parts), MNRJ 8104 (2 sh.), MNRJ 8105 (9 sh.), MNRJ 8106 (4 sh., 1 sp., soft parts, histological slides), MNRJ 8108 (32 sh.), MNRJ 8109 (2 sh.), MNRJ 9810 (3 sh., soft parts), MNRJ 9811 (4 sp.), MZSP 39387 (1 sh.), ZMH 2960 (3 sh.).

Remarks: The paratypes from the ANSP and MNHN collections (according to PENA et al. 2011: ANSP unnumbered, 1 sh., and MNHN unnumbered, 1 sh.) are missing and were likely not received (PAUL CALLOMON, PHILIPPE MAESTRATI and VIRGINIE HÉROS, personal communications, 2016).

*Thaumastus straubei* COLLEY 2012

Fig. 28

2012 *Thaumastus straubei* COLLEY: 44, figs. 1–9.

Type locality: Brazil. Paraná state; Usina Hidrelétrica de Guaricana (“Guaricana Hydroelectric Power Plant”),

between São José dos Pinhais and Guaratuba municipalities (25°45'S 48°55'W).

Distribution: Known only from type locality.

Type material: Holotype: MNRJ 11890. Paratypes: MNRJ 17272 (1 sp., 6 sh., soft parts).

Family Odontostomidae

Genus *Anctus* MARTENS 1860

*Anctus prolatus* SIMONE & CASATI 2013

Fig. 29

2013 *Anctus prolatus* SIMONE & CASATI: 151, figs. 35–41.

Type locality: Brazil. Piauí state; Serra da Capivara, Coronel José Dias municipality, close to Sítio do Mocó town, Toca de Cima dos Pilão Cave (8°51'47.10"S 42°33'26.96"W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 112450. Paratypes: MZSP 111836 (3 sh.), MZSP 112350 (1 sh.), 112362 (2 sh.), 112372 (3 sh.).

Genus *Anostoma* FISCHER VON WALDHEIM 1807

*Anostoma tessa* SIMONE 2012

Figs. 30–32

2012b *Anostoma tessa* SIMONE: 435, figs. 15–20.

Type locality: Brazil. Bahia state; Santa Maria da Vitória municipality (ca. 13°24'S 44°12'W, ca. 460 m elevation).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 103914. Paratypes: MNRJ 30379 (2 sh.), MZSP 103915 (1 sh.), MZSP 103916 (37 sh.), MNHN IM-2012-37363 (2 sh.), USNM 1157008 (2 sh.).

Genus *Bahiensis* JOUSSEAUME 1877

*Bahiensis ribeirensis* SALVADOR, CAVALLARI & SIMONE 2016

Figs. 60–61

2016 *Bahiensis ribeirensis* SALVADOR, CAVALLARI & SIMONE: 61, figs. 11–14.

Type locality: Brazil. São Paulo state; Parque Estadual Turístico do Alto Ribeira (PETAR; “Alto Ribeira State and Tourist Park”), Alambari de Baixo Cave (entrance coordinates: 24°33'25.8"S 48°39'52.0"W; altitude 191 m).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 120774.

Remarks: Cavernicolous species.

Genus *Clinispira* SIMONE & CASATI 2013

*Clinispira insolita* SIMONE & CASATI 2013

Figs. 33–34

2013 *Clinispira insolita* SIMONE & CASATI: 147, figs. 2–15.

Type locality: Brazil. Piauí state; Serra da Capivara, Coronel José Dias municipality, close to Sítio do Mocó town, Toca de Cima dos Pilão Cave (8°51'47.10"S 42°33'26.96"W).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MZSP 111847. Paratypes: MNRJ 17289 (2 sh.), MZSP 111828 (84 sh.), MZSP 111829 (5 sh.), MZSP 111830 (5 sh.), MZSP 111831 (4 sh.), MZSP 111832 (5 sh.), MZSP 111833 (1 sh.), MZSP 111834 (2 sh.), MZSP 111846 (8 sh.), MZSP 112369 (3 sh.), MZSP 112426 (1 sh.), USNM 1207955 (2 sh.).

**Remarks:** Type species of genus.

#### Genus *Cyclodontina* BECK 1837

##### *Cyclodontina capivara* SIMONE & CASATI 2013

Fig. 35

2013 *Cyclodontina capivara* SIMONE & CASATI: 149, figs. 16–22.

**Type locality:** Brazil. Piauí state; Serra da Capivara, Coronel José Dias municipality, close to Sítio do Mocó town, Toca de Cima dos Pilão Cave (8°51'47.10"S 42°33'26.96"W).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MZSP 112448. Paratypes: MNRJ 17291 (2 sh.), MZSP 111837 (19 sh.), MZSP 111838 (18 sh.), MZSP 111845 (9 sh.), USNM 1207956 (2 sh.).

**Remarks:** SIMONE & CASATI (2013) listed the catalog number MZSP 111845 among the paratypes of both *Cyclodontina capivara* and *Rhinus gilbertus*. In reality, the lot with this number does not contain paratypes of *R. gilbertus* (see CAVALLARI et al., 2016).

##### *Cyclodontina tapuia* SALVADOR & SIMONE 2014

Fig. 36

2014 *Cyclodontina tapuia* SALVADOR & SIMONE: 484, figs. 2–7.

**Type locality:** Brazil. Bahia state; Bom Jesus da Lapa municipality, forest fragment on the vicinities of Bom Jesus da Lapa Hill (13°15'36"S 43°25'20"W).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MZSP 109684. Paratypes: MZSP 109685 (2 sh.).

#### Genus *Spixia* PILSBRY & VANATTA 1898

##### *Spixia coltrorum* SIMONE 2012

Fig. 37

2012b *Spixia coltrorum* SIMONE: 433, figs. 9–14.

**Type locality:** Brazil. Bahia state; Santa Maria da Vitória municipality (ca. 13°24'S 44°12'W, ca. 460 m elevation).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MZSP 103920. Paratypes: MNRJ 30378 (1 sh.), MZSP 103922 (2 sh.), MZSP 103921 (1 sh.), MZSP 103923 (8 sh.), USNM 1157010 (1 sh.).

#### Family Simpulopsidae

##### Genus *Rhinus* MARTENS in ALBERS 1860

##### *Rhinus botocudus* SIMONE & SALVADOR 2016

Fig. 38

2016 *Rhinus botocudus* SIMONE & SALVADOR: 20, figs. 28–52, 68–76.

**Type locality:** Brazil. Minas Gerais state; Nanuque municipality, small fragment of Atlantic rainforest close to Mucuri River (ca. 17°51'S 40°23'W, ca. 120 m of elevation).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MZSP 106174. Paratypes: MZSP 106175 (2 sp.), 106176 (10 sh.).

##### *Rhinus gilbertus* SIMONE & CASATI 2013

Fig. 39

2013 *Rhinus gilbertus* SIMONE & CASATI: 153, figs. 23–34.

**Type locality:** Brazil. Piauí state; Serra da Capivara, Coronel José Dias municipality, close to Sítio do Mocó town, Toca de Cima dos Pilão Cave (8°51'47.10"S 42°33'26.96"W).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MNRJ 17292 (2 sh.), MZSP 112449. Paratypes: MZSP 111827 (27 sh.), MZSP 111835 (98 sh.), MZSP 111839 (50 sh.), MZSP 111844 (9 sh.), USNM 1207957 (2 sh.).

**Remarks:** SIMONE & CASATI (2013) reported the catalog number MZSP 111845 among the paratypes of *Rhinus gilbertus* and *Cyclodontina capivara*. Nonetheless, the lot with this number does not contain paratypes of *R. gilbertus* (see CAVALLARI et al., 2016).

#### Genus *Simpulopsis* BECK 1837

##### *Simpulopsis gomesae* SILVA & THOMÉ 2006

Fig. 40

2006 *Simpulopsis gomesae* SILVA & THOMÉ: 191, figs. 19–32.

**Type locality:** Brazil. Rio Grande do Sul state; São Francisco de Paula, Centro de Pesquisas e Conservação da Natureza Pró-Mata (CPCN-PM).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MCP 8701. Paratypes: MCN-FZB 35548 (1 sp.), MCP 7776 (1 sp.), MCP 7778 (1 sp.), MCP 7873 (1 sp.), MCP 8702 (1 sp.), MCP 8703 (2 sp.), MCP 8704 (2 sp.), MCP 8705 (2 sp.), MCP 8706 (1 sp.), MCP 8707 (2 sp.), MCP 8708 (1 sp.), MCP 8709 (1 sp.), MCP 8710 (1 sp.), NHMUK 20050238 (ex MCP 8703) (1 sp.).

##### *Simpulopsis promatensis* SILVA & THOMÉ 2006

Fig. 41

2006 *Simpulopsis promatensis* SILVA & THOMÉ: 186, figs. 3–18.

**Type locality:** Brazil. Rio Grande do Sul state; São Francisco de Paula, Centro de Pesquisas e Conservação da Natureza Pró-Mata (CPCN-PM).

**Distribution:** Known only from type locality.

**Type material:** Holotype: MCP 8674. Paratypes: MCN-FZB 35547 (1 sp.), MCP 7515 (1 sp.), MCP 7778 (3 sp.), MCP 7929 (5 sp.), MCP 7943 (1 sp.), MCP 8673 (6

spc.), MCP 8675 (1 spc.), MCP 8676 (5 spc.), MCP 8677 (10 spc.), MCP 8678 (3 spc.), MCP 8679 (6 spc.), MCP 8680 (5 spc.), MCP 8681 (2 spc.), MCP 8682 (1 spc.), MCP 8683 (1 spc.), MCP 8684 (1 spc.), MCP 8685 (3 spc.), MCP 8686 (1 spc.), MCP 8687 (1 spc.), MCP 8730 (1 spc.), SMNH 6078 (ex MCP 7929) (1 spc.).

Superfamily Achatinoidea

Family Subulinidae

Genus *Obeliscus* BECK 1837

*Obeliscus boitata* SIMONE & SALVADOR 2016

Fig. 42

2016 *Obeliscus boitata* SIMONE & SALVADOR: 25, figs. 77–79.

Type locality: Brazil. Minas Gerais state; Nanuque municipality, small fragment of Atlantic rainforest close to Mucuri River (ca. 17°51'S 40°23'W, ca. 120 m of elevation).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 106169. Paratypes: MZSP 106170 (39 sh.).

Superfamily Testacelloidea

Family Spiraxidae

Genus *Euglandina* CROSSE & FISCHER 1870

*Euglandina irakita* JARDIM, ABBATE & SIMONE 2013

Fig. 43

2013 *Euglandina irakita* JARDIM, ABBATE & SIMONE: 327, figs. 1–5.

Type locality: Brazil. Pará state; Tapirapé-Aquiri National Forest (2°56'00"S 51°52'00"W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 97238.

Superfamily Streptaxoidea

Family Streptaxidae

Genus *Streptartemon* KOBELT 1905

*Streptartemon molaris* SIMONE & CASATI 2013

Figs. 44–46

2013 *Streptartemon molaris* SIMONE & CASATI: 154, figs. 43–48.

Type locality: Brazil. Piauí state; Serra da Capivara, Coronel José Dias municipality, close to Sítio do Mocó town, Toca de Cima dos Pilão Cave (8°51'47.10"S 42°33'26.96"W).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 112451. Paratypes: MZSP 111840 (1 sh.), MZSP 111841 (4 sh.), MZSP 111843 (1 sh.), MZSP 112366 (1 sh.), MZSP 112367 (2 sh.), MZSP 112371 (1 sh.), MZSP 112376 (1 sh.).

Remarks: The paratypes from the USNM and MNRJ collections (according to SIMONE & CASATI 2013: USNM unnumbered, 2 sh., MNRJ unnumbered, 1 sh.)

were not deposited (ELLEN E. STRONG & ALEXANDRE D. PIMENTA, personal communications, 2016) and likely lost in transit.

Superfamily Acavoidea

Family Strophocheilidae

Genus *Megalobulimus* MILLER 1878

*Megalobulimus amandus* SIMONE 2012

Fig. 47

2012b *Megalobulimus amandus* SIMONE: 436, figs. 22–26.

Type locality: Brazil. Bahia state; Santa Maria da Vitória municipality (ca. 13°24'S 44°12'W, ca. 460 m elevation).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 103917. Paratypes: NMHN IM-2012-37364 (1 sh.), MNRJ 30380 (1 sh.), MZSP 103918 (10 sh.), MZSP 103919 (3 sh.), USNM 1157007 (1 sh.).

*Megalobulimus jaguarunensis* FONTENELLE, CAVALLARI & SIMONE 2014

Fig. 48

2014 *Megalobulimus jaguarunensis* FONTENELLE, CAVALLARI & SIMONE: 31, figs. 1–12, 20.

Type locality: Brazil. Santa Catarina state; Jaguaruna municipality, Figueirinha II shell mound (28°39'33"S 48°58'16"W).

Distribution: Brazil. Santa Catarina state; Jaguaruna municipality, Figueirinha II and Jabuticabeira II shell mounds (4200–1800 yBP).

Type material: Holotype: MZSP 118302. Paratypes: MZSP 117000 (1 sh.), MZSP 117026 (1 sh.), MZSP 117027 (1 sh.), MZSP 118298 (1 sh.), MZSP 118299 (1 sh.), MZSP 118300 (1 sh.), MZSP 118301 (1 sh.).

Remarks: Known only as archaeological material from shell mounds.

Superfamily Punctoidea

Family Charopidae

Genus *Radiodiscus* PILSBRY & FERRIS 1906

*Radiodiscus sanchicoensis* MIQUEL, RAMÍREZ & THOMÉ 2007

Figs. 49–51

2007 *Radiodiscus sanchicoensis* MIQUEL, RAMÍREZ & THOMÉ: 216, figs. 18–20, 38.

Type locality: Brazil. Rio Grande do Sul state; São Francisco de Paula, Centro de Pesquisas e Conservação da Natureza Pró-Mata (CPCN-PM).

Distribution: Known only from type locality.

Type material: Holotype: MCP 6895. Paratypes: ANSP 413578 (ex MCP 6819) (1 spc.), FNMH 308242 (ex



MCP 6720) (1 sp.), MACN In36635 (ex MCP 6826) (1 sp.), MACN In36636 (ex MCP 6712) (1 sp.), MACN In36637 (ex MCP 6880) (1 sp.), MCP 6707 (4 sp.), MCP 6716 (1 sp.), MCP 6787 (1 sp.), MCP 6793 (1 sp.), MCP 6811 (1 sp.), MCP 6874 (1 sp.), MUSM 4053 (ex MCP 6699) (1 sp.), MUSM 4054 (ex MCP 6792) (1 sp.), MZSP 78887 (ex MCP 6710) (2 sp.), ZMB 114335 (ex MCP 6725) (1 sp.).

Superfamily Helicoidea

Family Pleurodontidae

Genus *Olympus* SIMONE 2010

*Olympus nimbus* SIMONE 2010

Figs. 52–54

2010 *Olympus nimbus* SIMONE: 150, figs. 1–33.

Type locality: Brazil. Amazonas state; São Gabriel da Cachoeira, Pico da Neblina (“Neblina Peak”), Cachoeira do

Tucano (“Toucan Waterfall” 0°39′54.07″N 65°56′09″W, 100 m elevation).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 87151. Paratype: MZSP 87149.

Remarks: Type species of genus.

Genus *Solaropsis* BECK 1837

*Solaropsis alcobacensis* SALVADOR & SIMONE 2015

Fig. 55–57

2015a *Solaropsis alcobacensis* SALVADOR & SIMONE: 5, figs. 13–15.

Type locality: Brazil. Bahia state; Alcobaca municipality, Atlantic Forest fragment 2 km to the north of the city (17°30′10″S 39°11′42″W, ~10 m elevation).

Distribution: Known only from type locality.

Type material: Holotype: MZSP 107964.

## Discussion

SIMONE (1999) estimated that only a third of the Brazilian land snail species were then known and described. The ca. 800 species reported shortly after (SIMONE 2006) imply a fauna of over 2,000 species. Forty-two species were described in the last 10 years, most of them stemming from scarcely studied biomes, such as the Caatinga and the Cerrado. Considering this rate of four species per year, malacologists will need over 300 years to describe the remaining unknown species. The overly-exploited natural environments in the country will not last that long. In reality, several species are becoming extinct before being known to science, in Brazil and elsewhere (SIMONE 1999, RÉGNIER et al. 2009, RICHLING & BOUCHET 2014, SALVADOR & SIMONE 2015b). It is thus clear that more taxonomic studies are urgently needed, not only to discover new species but to increase the information on the already known ones, especially for conservation purposes. Presently, only *Spiripockia punctata* is classified

by the Brazilian environmental agency ICMBio as at risk of extinction (SANTOS et al. 2015).

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## Appendix

Here we present new Brazilian records of native species of land and freshwater molluscs already described by 2006; most had been reported previously from elsewhere in Brazil, but some only from other countries. This updated distribution considers works published after SIMONE (2006) or those few that were not cited in it. Table 1 shows all those species, with their formerly known distributions (*sensu* SIMONE 2006) and the new records, alongside the appropriate references. The following species were not cited by SIMONE (2006): *Biomphalaria cousini* PARAENSE 1966, *Chilina megastoma* HYLTON SCOTT 1958, *Gastrocopta barbadensis* (PFEIFFER 1853), *Laevapex fuscus* (C.B. ADAMS 1841), *Omalonyx matheroni* (POTIEZ & MICHAUD 1835), *Omalonyx pattersonae* TILLIER 1981, *Potamolithus kusteri* (STROBEL 1874), *Rectartemon muelleri* (THIELE 1927); refer to the cited literature for the full distribution of these species.

In Table 1, we consider as new records only an occurrence in a different Brazilian state than previously reported. However, some species were known only from a single or few localities inside a state and their known range has been extended only within that state (e.g., BIRCKOLZ et al. 2013; SALVADOR et al. 2016). These species are not included. Likewise, new reports of non-native invasive species are not considered.

Table 1. New Brazilian records of previously known species, complementary to the catalogue of SIMONE (2006). The horizontal dash (—) indicates species previously unknown from Brazil (not reported by SIMONE 2006). A question mark following a record indicates a possible record, meaning that the species was left in open nomenclature (“cf.”) by the cited author(s). For ease of use, families are presented in alphabetical order within each broader taxon. We follow here the works of CUEZZO (2002, 2003), which treat *Psadara* MILLER 1878 as a synonym of *Solaropsis* BECK 1837, belonging to Camaenidae. The species *Laevapex fuscus* (C.B. ADAMS 1841) might be introduced in Brazil. Abbreviations of Brazilian states: AC, Acre; AM, Amazonas; BA, Bahia; CE, Ceará; DF, Distrito Federal; GO, Goiás; MA, Maranhão; MG, Minas Gerais; MS, Mato Grosso do Sul; MT, Mato Grosso; PA, Pará; PB, Paraíba; PR, Paraná; PE, Pernambuco; RJ, Rio de Janeiro; RN, Rio Grande do Norte; RS, Rio Grande do Sul; RO, Rondônia; SC, Santa Catarina; SP, São Paulo; SE, Sergipe; TO, Tocantins. Abbreviations of Brazilian islands: Cab, Cabo Frio Island (RJ); Fer, Fernando de Noronha Archipelago (PE); Gra, Grande Island (RJ); Tri, Trindade Island (ES).

Species	Previously know distribution (SIMONE 2006)	New occurrences	References
<b>NERITIMORPHA</b>			
<b>Helicinidae</b>			
<i>Alcacia iheringi</i> WAGNER 1910	Brazil (SC)	SP	SALVADOR et al. (2016)
<i>Helicina angulata</i> SOWERBY 1873	Brazil (BA, RJ, SP)	SC	AGUDO-PADRÓN (2011)
<i>Helicina boettgeri</i> WAGNER 1910	Brazil (ES)	MG	SIMONE & SALVADOR (2016)
<i>Helicina inaequistriata</i> PILSBRY 1900	Brazil (RJ, SP)	RJ (Cab)	SALVADOR et al. (2014)
<i>Helicina scherereri</i> BAKER 1913	Brazil (CE, RN, PB)	SC, TO	AGUDO-PADRÓN et al. (2014); SALVADOR et al. (2015)
<i>Helicina variabilis</i> WAGNER 1827	Brazil (PA, BA, ES, RJ)	MG	SIMONE & SALVADOR (2016)
<b>CAENOGASTROPODA</b>			
<b>Megalomastomidae</b>			
<i>Cyclopomops moricandi</i> (PFEIFFER 1852)	Brazil (BA)	MG	SIMONE & SALVADOR (2016)
<b>Ampullariidae</b>			
<i>Felipponea iheringi</i> (PILSBRY 1933)	Brazil (RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Pomacea bridgesii</i> (REEVE 1856)	Brazil (AM, PA, RN), Bolivia, Paraguay	SC	AGUDO-PADRÓN (2008)
<i>Pomacea canaliculata</i> (LAMARCK 1819)	Guyana(?), Trinidad, Bolivia, Brazil (AM, PA, RO, MT, MS, BA, PE, RJ, RS), Paraguay, Uruguay, Argentina	GO, SC	THIENGO et al. (2005), AGUDO- PADRÓN (2008)
<i>Pomacea lineata</i> (SPIX 1827)	Jamaica, Colombia, Venezuela, Ecuador, Guyana, Brazil (AM, PA, RO, RN, CE, PE, BA), Argentina, Uruguay	GO, SC	THIENGO et al. (2005), AGUDO- PADRÓN (2008)
<i>Pomella megastoma</i> (SOWERBY 1825)	Brazil (RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<b>Pomatiopsidae</b>			
<i>Idiopyrgus souleyetianus</i> PILSBRY 1911	Brazil (RN, BA, ES, MT, MS, MG)	GO	THIENGO et al. (2005)
<b>Thiaridae</b>			
<i>Aylacostoma francana</i> (IHERING 1909)	Brazil (SP)	MG	PASCHOAL et al. (2013)
<b>Hydrobiidae</b>			
<i>Littoridina piscium</i> (D'ORBINGY 1835)	Brazil (RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<b>Tateidae</b>			
<i>Potamolithus kusteri</i> (STROBEL 1874)	—	SC	AGUDO-PADRÓN (2008)
<b>PULMONATA – HYGROPHILA</b>			
<b>Chilinidae</b>			
<i>Chilina fluminea</i> (MATON 1809)	Brazil (PR, RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Chilina megastoma</i> HYLTON SCOTT 1958	—	PR	ITUARTE (1997)
<b>Planorbidae</b>			
<i>Biomphalaria cousini</i> PARAENSE 1966	—	AM	TEODORO et al. (2010)
<i>Biomphalaria occidentalis</i> PARAENSE 1981	Brazil (AM, AC, RO, MT, MS, PR, SP), Paraguay	GO, SC	THIENGO et al. (2005), AGUDO-PADRÓN (2008)
<i>Burnipia ingae</i> LANZER 1991	Brazil (SC, PR)	GO, MT	THIENGO et al. (2005); FERNANDEZ et al. (2014)
<i>Ferrissia gentilis</i> LANZER 1991	Brazil (SC, PR)	GO	THIENGO et al. (2005)
<i>Gundlachia radiata</i> (GUILDING 1828)	USA, Mexico, Central America, Bolivia, Brazil (AM, PA, AL, PB, PE)	GO, RJ	THIENGO et al. (2005); LACERDA et al. (2013)

Species	Previously know distribution (SIMONE 2006)	New occurrences	References
<i>Gundlachia ticaga</i> (MARCUS & MARCUS 1962)	Brazil (SP)	GO, RJ (Gra), RS	THIENGO et al. (2005); LACERDA et al. (2011); AGUDO-PADRÓN & LENHARD (2011)
<i>Laevapex fuscus</i> (C.B. ADAMS 1841)	—	GO	THIENGO et al. (2005)
<i>Plesiophysa guadeloupensis</i> (FISHER in MAZÉ 1883)	Guadeloupe, Dominican Republic, Brazil (RN, PB, SE, PE, BA, ES, MG)	RJ	FERNANDEZ et al. (2006)
<i>Uncancylus concentricus</i> (D'ORBIGNY 1835)	Costa Rica to Patagonia	RJ (Gra)	SANTOS et al. (2009)
<b>PULMONATA – SYSTELLOMMATHOPORA</b>			
<b>Veronicellidae</b>			
<i>Belocaulus angustipes</i> (HEYNEMANN 1885)	Paraguay, Brazil (RS), Argentina	SC	AGUDO-PADRÓN (2008)
<i>Phyllocaulis soleiformis</i> (D'ORBIGNY 1835)	Brazil (RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Phyllocaulis variegatus</i> (SEMPER 1885)	Brazil (MG, SP, RS), Paraguay, Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Vaginulus taunaysii</i> FÉRUSSAC, 1821	Brazil (RJ, SP)	SC	AGUDO-PADRÓN (2008)
<b>PULMONATA – STYLOMMATHOPORA</b>			
<b>Bulimulidae</b>			
<i>Auris bilabiata</i> (BRODERIP & SOWERBY 1829)	Brazil (SE, BA, ES, RJ)	MG	SIMONE & SALVADOR (2016)
<i>Bulimulus angustus</i> WEYRAUCH 1966	Brazil (RS)	SC	AGUDO-PADRÓN (2008)
<i>Bulimulus tenuissimus</i> (D'ORBIGNY 1835)	Suriname, Bolivia, Brazil (BA, ES, MA, MT, PA, PE, RJ, SP), Uruguay	RS, SC	AGUDO-PADRÓN (2008); AGUDO-PADRÓN & LENHARD (2011)
<i>Bulimulus turritellatus</i> BECK 1837	Bolivia, Brazil (MT), Paraguay	SC	AGUDO-PADRÓN (2008)
<i>Drymaeus henselii</i> (MARTENS, 1868)	Brazil (RS)	SC	AGUDO-PADRÓN (2008)
<i>Drymaeus magus</i> (WAGNER 1827)	Brazil (MA, MG, PI, SP)	SC	AGUDO-PADRÓN (2008)
<i>Drymaeus poecilus</i> (D'ORBIGNY 1835)	Brazil (MT, MS, SP), Paraguay, Argentina	TO	SALVADOR et al. (2015)
<i>Mesembrinus interpunctus</i> (MARTENS 1887)	Brazil (PR, RS, SP), Paraguay, Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Naesiotus carluccioi</i> (REZENDE & LANZIERI 1963)	Brazil (GO, DF)	TO	SALVADOR et al. (2015)
<b>Camaenidae</b>			
<i>Solaropsis fairchildi</i> BEQUAERT & CLENCH 1938	Brazil (GO, MG)	TO	SALVADOR et al. (2015)
<i>Solaropsis rosarium</i> (PFEIFFER 1849)	Brazil (AM, PA, GO, MS)	TO	SALVADOR et al. (2015)
<b>Charopidae</b>			
<i>Lilloiconcha gordurasensis</i> (THIELE 1927)	Northeast Brazil to Paraguay and Argentina	ES (Tri)	CUNHA et al. (2015)
<i>Radiodiscus promatensis</i> MIQUEL, RAMÍREZ & THOMÉ 2004	Brazil (RS)	SP	SALVADOR et al. (2016)
<i>Zilchogyra cleliae</i> WEYRAUCH 1965	Brazil (RS), Argentina	SC	AGUDO-PADRÓN et al. (2014)
<i>Zilchogyra (Trochogyra) superba</i> (THIELE 1927)	Brazil (northeast and RJ)	SP	SALVADOR et al. (2016)
<b>Gastrocoptidae</b>			
<i>Gastrocopta barbadensis</i> (PFEIFFER 1853)	—	ES (Tri)	CUNHA et al. (2015)
<b>Odontostomidae</b>			
<i>Anostoma rossi</i> WEBER 1925	Brazil (BA, GO)	TO	SALVADOR et al. (2015)
<i>Bahiensis bahiensis</i> (MORICAND 1833)	Brazil (BA, RJ)	MG(?)	SIMONE & SALVADOR (2016)
<i>Cyclodontina gemellata</i> (ANCEY in PILSBRY 1901)	Brazil (GO)	TO	SALVADOR et al. (2015)
<i>Cyclodontina sectilabris</i> (PFEIFFER 1850)	Brazil (CE, RN, PB, PR, BA)	TO	SALVADOR et al. (2015)



Species	Previously know distribution (SIMONE 2006)	New occurrences	References
<i>Macrodontes grayanus</i> (PFEIFFER 1845)	Brazil (RJ)	SC	AGUDO-PADRÓN (2008)
<b>Scolodontidae</b>			
<i>Entodina gionensis</i> MORRETES 1940	Brazil (SP)	SC	AGUDO-PADRÓN (2008)
<i>Happia microdiscus</i> THIELE 1927	Brazil (RJ)	SC	AGUDO-PADRÓN (2008)
<i>Happia vitrina</i> (WAGNER 1827)	Brazil (BA, PR, RJ, SP)	SC	AGUDO-PADRÓN (2008)
<i>Prohappia besckei</i> (DUNKER in PFEIFFER 1847)	Brazil (RJ, SC), Paraguay	MG	SIMONE & SALVADOR (2016)
<b>Simpulopsidae</b>			
<i>Eudioptus citrinovitreus</i> (MORICAND 1836)	Brazil (BA, MG)	SC	AGUDO-PADRÓN (2008)
<i>Rhinus longisetus</i> (MORICAND 1846)	Brazil (BA)	SC(?)	AGUDO-PADRÓN et al. (2014)
<i>Rhinus suturalis</i> (BAKER 1914)	Brazil (CE, PE)	BA	SIMONE (2012b)
<i>Simpulopsis decussata</i> PFEIFFER 1856	Brazil (RS, SP)	SC	AGUDO-PADRÓN (2008)
<i>Simpulopsis ovata</i> (SOWERBY 1820)	Brazil (BA)	SC(?)	AGUDO-PADRÓN et al. (2014)
<i>Simpulopsis sulculosa</i> (FÉRUSSAC 1821)	Brazil (MG, PR, RJ, RS, SP)	SC	AGUDO-PADRÓN (2008)
<b>Streptaxidae</b>			
<i>Rectartemon piquetensis</i> (PILSBRY 1930)	Brazil (SP)	BA(?), MG	SALVADOR & SIMONE (2015a); SIMONE & SALVADOR (2016)
<i>Rectartemon muelleri</i> (THIELE 1927)	—	SC	AGUDO-PADRÓN (2008)
<i>Streptaxis iheringi</i> (PILSBRY 1930)	Brazil (SP)	SC	AGUDO-PADRÓN (2008)
<i>Streptaxis luetzelburgi</i> WEBER 1925	Brazil (BA)	TO	SALVADOR et al. (2015)
<b>Strophocheilidae</b>			
<i>Anthinus turnix</i> (GOULD 1846)	Brazil (ES, MG, RJ, SP), Paraguay	SC	AGUDO-PADRÓN (2008)
<i>Megalobulimus conicus</i> (BEQUAERT 1948)	Brazil (AM, MA, BA)	TO	SALVADOR et al. (2015)
<i>Megalobulimus grandis</i> (MARTENS 1885)	Brazil (MT, SP)	SC	AGUDO-PADRÓN (2008)
<i>Megalobulimus gummatius</i> (HIDALGO 1870)	Brazil (BA, PR, RJ, SP)	SC	AGUDO-PADRÓN (2008)
<i>Megalobulimus klappenbachi</i> LEME 1964	Brazil (SP)	SC	AGUDO-PADRÓN et al. (2014)
<i>Megalobulimus musculus</i> (BEQUAERT 1948)	Brazil (southeast), Paraguay, Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Mirinaba fusoides</i> (BEQUAERT 1948)	Brazil (RS, SP)	SC	AGUDO-PADRÓN (2008)
<i>Mirinaba planidens</i> (MICHELIN 1831)	Brazil (RJ, SP)	SC	AGUDO-PADRÓN (2008)
<i>Mirinaba unidentata</i> (SOWERBY 1825)	Brazil (MG, RJ)	SC	AGUDO-PADRÓN (2008)
<i>Strophocheilus pudicus</i> (MÜLLER 1773)	Brazil (BA, PB)	SC	AGUDO-PADRÓN (2008)
<b>Subulinidae</b>			
<i>Beckianum beckianum</i> (PFEIFFER 1846)	Mexico to Venezuela, W. Indies, Guyana, Suriname, Peru, Brazil (PA, FN, RN, RO, RJ, SP)	BA	SALVADOR & SIMONE (2015a)
<i>Dysopeas muibum</i> MARCUS & MARCUS 1968	Brazil (SP)	MG	SIMONE & SALVADOR (2016)
<i>Lamellaxis (Leptopeas) mizius</i> MARCUS & MARCUS 1968	Brazil (SP)	SC(?)	AGUDO-PADRÓN et al. (2014)
<b>Succineidae</b>			
<i>Omalonyx convexus</i> (MARTENS 1868)	Brazil (RS), Uruguay, Argentina	SC	AGUDO-PADRÓN (2008)
<i>Omalonyx matheroni</i> (POTIEZ & MICHAUD 1835)	—	SP, PR	ARRUDA et al. (2009)
<i>Omalonyx pattersonae</i> TILLIER 1981	—	AM	GARCIA et al. (2012)
<b>Vallonidae</b>			
<i>Pupisoma macneilli</i> (CLAPP 1918)	South USA to north Argentina	ES (Tri)	CUNHA et al. (2015)