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Critical review of type specimens deposited in the Malacological collection of the biological institute/Ufrj, Rio de Janeiro, Brazil

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Abstract

The Malacological Collection of the Biological Institute of Federal University of Rio de Janeiro figures as an important repository of specimens, containing c.a. 21,000 lots, most of them collected at deep sea of southeast Brazil. A critical review of literature and types deposited in this collection revealed the existence of 191 lots containing type specimens (23 holotypes and 168 paratypes), corresponding to 129 nominal species divided in three classes: Gastropoda (109 names, subdivided in 62 Caenogastropoda; 32 Heterobranchia and 15 Vetigastropoda), Bivalvia (17 names subdivided in 10 Protobranchia; 6 Heterodonta and 1 Pteriomorphia), and Scaphopoda (3 names). For each species, an updated list of data is provided, including the collecting location (revised or corrected, when necessary), number of specimens actually present (i.e., physically found in the collection), nomenclatural acts (if needed) and any other specific issue concerning particular species. It is beyond the scope of this study to discuss classifications or promote subjective judgment on taxonomy at any level for names treated here.

Key words: Mollusca, type catalog, scientific collection, biodiversity

Introduction

Natural history collections have an inestimable value as a repository of information on the biodiversity of a geographical locality in a specific moment of time. The specimens preserved in such collections are the source of knowledge for all scientific studies based on life sciences.

The Federal University of Rio de Janeiro (UFRJ) held two malacological collections, one at the Museu Nacional/UFRJ (see Pimenta et al. (2014) for details on type specimens, and Pimenta (2016) for a historical account) and another at the Biological Institute/UFRJ. The latter presents a large account of Brazilian deep-sea mollusks, with about 21,000 lots. There is yet material to be catalogued, which will add ca. 7,000 lots to the collection. The majority of the specimens came from the southeastern region of Brazil, which makes this the most representative collection of the deep-sea malacological fauna of this zone for the Atlantic Ocean.

The present study is a curatorial revision of the type material held under the auspices of the Malacological Collection of the Biological Institute—Federal University of Rio de Janeiro (IBUFRJ).

The collection history

The Malacological Collection of the Biological Institute—Federal University of Rio de Janeiro (IBUFRJ) began around 1960, in the Natural History Department of the National University of Philosophy, situated in Praia Vermelha campus, near the Sugarloaf Mountain in Rio de Janeiro. From those early years, however, only very few lots collected by teachers and students remain. Around this time, the Fundão Island campus was created to function as a massive “university-city”. The institution went through a deep structural reshaping, when it was even renamed, and the Malacological Collection was transferred to its current location.

Between 1960 and 1980, it was customary for the National Hydrography Directory, subordinated to the Brazilian Navy, to perform oceanographic operations along the continental shelf of Brazil, particularly the South and Southeast regions, and dry samples of benthic fauna were usually stored by the Zoology Department. The processing and identification of these samples promoted the initial growth of the Malacological Collection over these years.

As such, right from the beginning, the collection was mostly focused on marine specimens, a trait that remains to this day. At that time, however, the majority of the material was of local or regional occurrence at most.

Around the 1970s to 1980s, the Zoology Department was still rather small with limited personnel, but with the transfer to Fundão Island, there was an increase in physical space, which allowed for the creation of new laboratories. Generally speaking, each lab focused on a different phyla so that all the main animal groups would be represented. However, since there were so few teachers, the department did not have specialists for all the taxa and many researchers ended up in charge of more than one lab. Such was the case for the Mollusca lab, which was spacious and well equipped, but lacked specific bibliography. Back then, Prof. Junia Maria Quitete, a carcinologist, was responsible for the lab and attempted to teach new malacologists there within her capacities.

At this time, the Malacological Collection already housed over 6000 lots, registered in several catalog books and stored in metallic lockers more suitable for paperwork. The collection was also separated into two sections: one included only empty shells preserved dry (about 3500 lots) and the other included the samples with soft parts preserved in alcohol (about 2500 lots). As expected in a lab without a permanent professor, the senior students were in charge of teaching the new ones all the basic curating activities such as cataloging the material and managing the collection. The student Claudia Maia had that responsibility for a long time until her graduation in 1980.

From that moment on, Dr. Ricardo Absalão (back then the senior student of the lab, later the professor in charge) took over the position and decided to review the entire collection. This effort resulted in the discovery that about 50% of the records in the catalog book could not be found in the collection. Thus, over time, half of the material had been lost! A reorganization of the whole collection was then started, with the books transcribed, information corrected, tags remade and alcohol changed. The collection was thus revitalized and began to receive the proper care it required, initializing a new numbering system, in 1984/1985.

Simultaneously, in the 1980s, the first analysis of environmental impact in marine regions of Brazil was performed, as a result of the construction of the Angra dos Reis nuclear power plant. The Zoology Department planned and executed this study, so numerous samples were stored in the Malacology lab, greatly increasing the Malacological Collection.

In 1990, the Zoology and Marine Biology Departments of the UFRJ participated in a long series of environmental studies in the Campos Basin region, related to the oil exploration of the area by the Petrobras S.A.. These activities on the external part of the continental shelf and the continental slope resulted in a huge amount of deep water samples. Though part of this material is still being processed to this day, thousands of lots have already been added to the collection, making it one of the most important Brazilian collections in terms of deep water representation.

From its humble beginning, the Malacological Collection of the IBUFRJ grew steadily in the past 50 years, surpassing its regional nature, and now has a significant representation of the molluscan fauna of the country as a whole. By the progressive increase of new generations of malacology students and the natural diversification of this research area, the collection tends to keep growing and improving, in number of specimens as well as physical space.

Material and methods

A literature search was performed in order to obtain a complete list of described names of molluscan taxa with types deposited in the IBUFRJ Malacological Collection. Names published until 2017 (included) are considered. Meanwhile, all specimens deposited as types in the collection were examined, including data from the labels and the catalog book. When the type specimen of a taxon published in literature was not found in the collection, any specimen registered under that species name, according to the labels or the catalog book, was also examined in order to elucidate the issue.

The list of names in the present catalog is subdivided by class and each species name arranged in alphabetical

order. The names are presented in their original spelling, following, in brackets, information on the current generic (if not the original) and family affiliation. The supraspecific classification followed the WoRMS database (WoRMS Editorial Board 2017).

In the list of names entry, the material is cited with the acronym of the collection, the repository number and, in brackets, the number of individuals (i), shells (sh) or valves (v), followed by the revised locality. Information on locality for each specimen in a type series was based on the original description. Such information was revised and complemented (when necessary) after a critical review of detailed data gathered from campaign and cruise reports, station numbers, research vessel names, the catalog book, labels of the lots and georeferenced data. For cases where too many incongruences were found, such additional information and eventual corrected localities were explained in the Remarks entry.

Only the lots and the number of specimens located (i.e., only the material physically found in the collection) are included, regardless of the number of lots and/or specimens provided in original publication. For cases where catalog numbers were reserved, but the type material was not found at IBUFRJ Malacological Collection, contact with original authors of the cited publication was attempted, as well as a review of the internal documents and database of the collection. In many cases, the reasons for the absence of the type material in the collection and its whereabouts remain unknown. All the specific issues concerning missing lots were discussed in the Remarks entry.

Whenever necessary, type specimens were compared with the original figures. This was especially important in cases where the information in original publication was not clear about the material deposited. For specimens that were examined and labelled as paratypes by the original author, but not cited in original publication as such, only those with names published before 2000 were considered as paratypes as per ICZN (1999) art. 72.4.1.1.

Any other specific issues are reported in the remarks section. All cases and eventual decisions were made following the rules of the ICZN (1999). Discussion on classification or validity of names was not performed; it is out of the scope of this study to promote any taxonomic review at any level for the taxa studied here.

Abbreviations used: Collections: IBUFRJ: Biological Institute, Federal University of Rio de Janeiro, Brazil; MNRJ: National Museum/Federal University of Rio de Janeiro, Brazil. Collecting expeditions: AMASSEDS: A Multidisciplinary Amazon Shelf Sedimentary Study; Cabo Frio VII: Comissão Oceanográfica Cabo Frio VII, 1983 (“Oceanographic Commission Cabo Frio VII, 1983”); GEOMAR XII: Plano Integrado Brasileiro de Oceanografia, Comissão Oceanográfica GEOMAR XII (“Integrated Brazilian Plan of Oceanography, Oceanographic Commission GEOMAR XII”); Habitats: Heterogeneidade Ambiental da Bacia de Campos (“Campos Basin Environmental Heterogeneity”), carried out by CENPES/PETROBRAS; JOPS: Joint Oceanographic Projects, Research Vessel "Victor Hansen" coll.; MD 55: Oceanographic cruise Marion Dufresne, southeast Brazil, 1987; Norte-Nordeste II: Operação Oceanográfica Norte-Nordeste II (“Oceanographic Operation Norte-Nordeste II”); Ocean Prof.: Caracterização Ambiental de Águas Profundas da Bacia de Campos, etapa Ocean Prof. (“Environmental Characterization of Deep Waters of the Campos Basin, stage Ocean Prof.”); PADCT: Programa de Apoio ao Desenvolvimento Científico e Tecnológico, 1997–1998 (“Support Program for Scientific and Technological Development, 1997–1998”), carried out by Oceanographic Institute of the University of São Paulo; PCABS: Projeto de Caracterização Ambiental da Bacia de Sergipe (“Sergipe Basin Environmental Characterization Project”); REVIZEE: Recursos Vivos da Zona Econômica Exclusiva (“Living Resources of the Exclusive Economic Zone”), carried out by Ministério do Meio Ambiente, 1996–2002.

Results and discussion

The number of species with types deposited in the IBUFRJ Collection progressively grew through the years (Fig. 1). Currently this collection holds type material for 129 nominal species, with representatives of three classes (Fig. 2): the class Gastropoda is the largest with 109 names (including 62 Caenogastropoda, 32 Heterobranchia, and 15 Vetigastropoda), followed by class Bivalvia, with 17 names (including 10 Protobranchia, 6 Heterodonta, and 1 Pteriomorphia) and class Scaphopoda (Gadilida), with 3 names.

Among the type specimens (counting only located type material), the IBUFRJ Collection includes 191 lots containing type specimens, with 23 holotypes (15 Gastropoda; 7 Bivalvia, and 1 Scaphopoda) and 168 paratypes (144 Gastropoda and 24 Bivalvia) (Fig. 3).

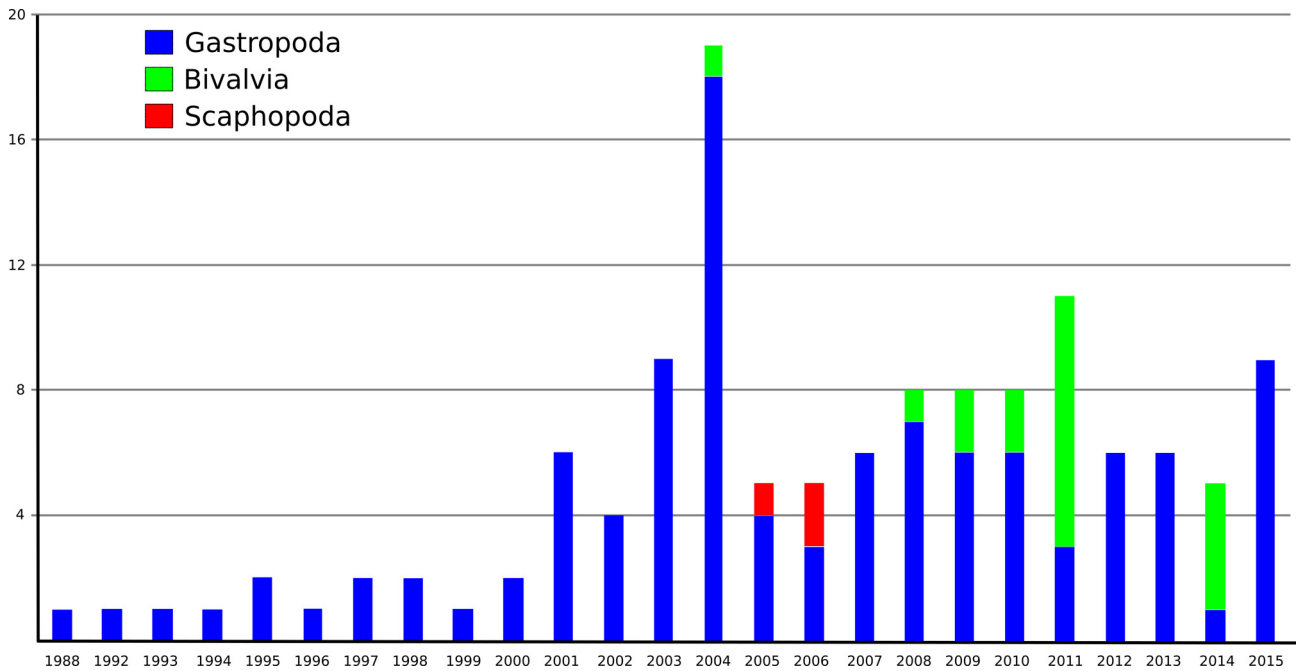


FIGURE 1. Mollusca nominal species added to the IBUFRJ Malacological Collection along the years.

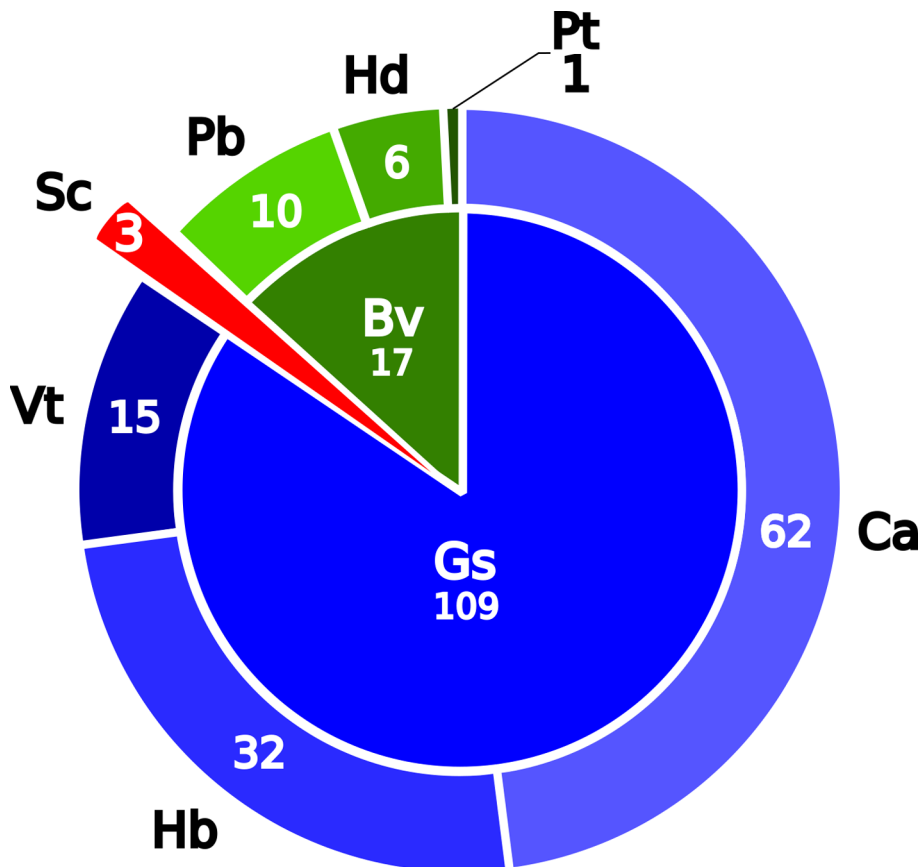


FIGURE 2. Number of nominal species with types deposited at IBUFRJ Malacological Collection by taxa. Inner circle representing the class, outer circle representing the immediately less inclusive taxa (i.e. order or subclass); since only order Gadilida is represented in Scaphopoda, it is indicated here only by the class, in red. Gastropoda and Bivalvia are indicated in blue and green, respectively. Abbreviations: Bv, Bivalvia; Ca, Caenogastropoda; Gs, Gastropoda; Hb, Heterobranchia; Hd, Heterodonta; Pb, Protobranchia; Pt, Pteriomorphia; Sc, Scaphopoda and Vt, Vetigastropoda.

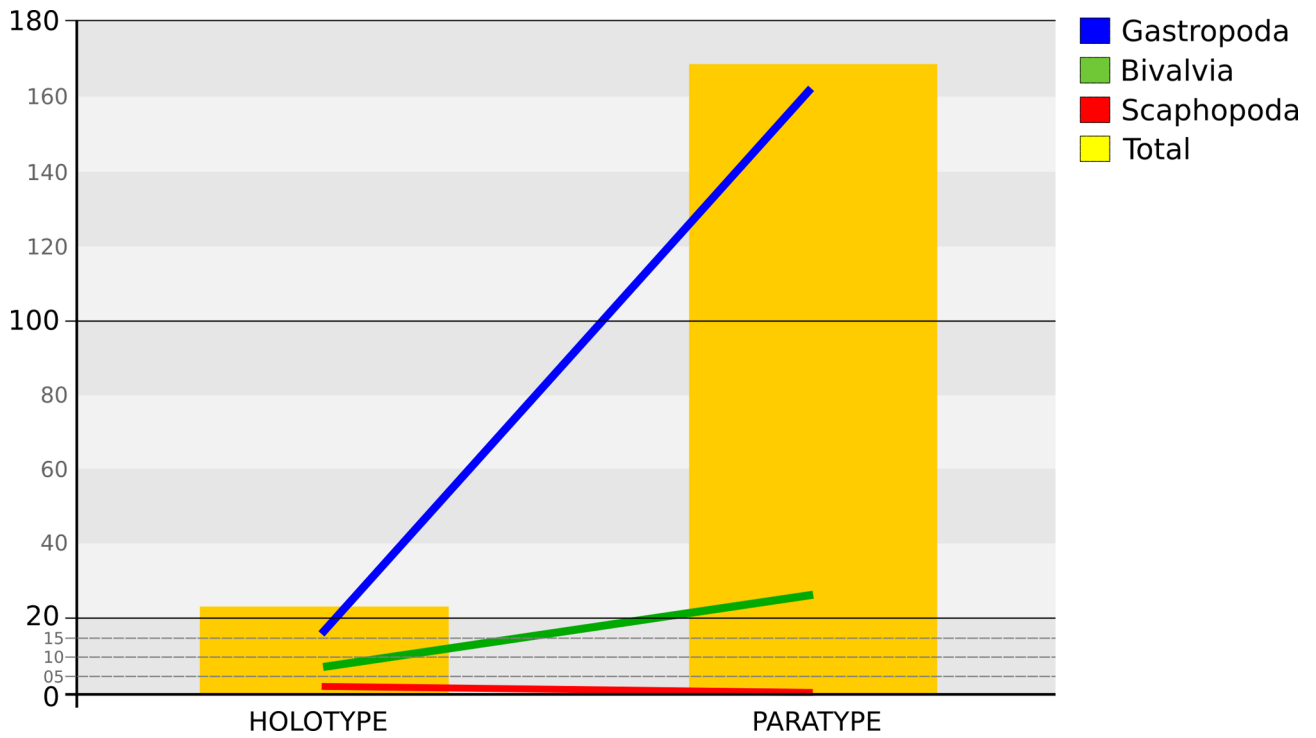


FIGURE 3. Number of located lots containing type specimens, divided by holotypes and paratypes.

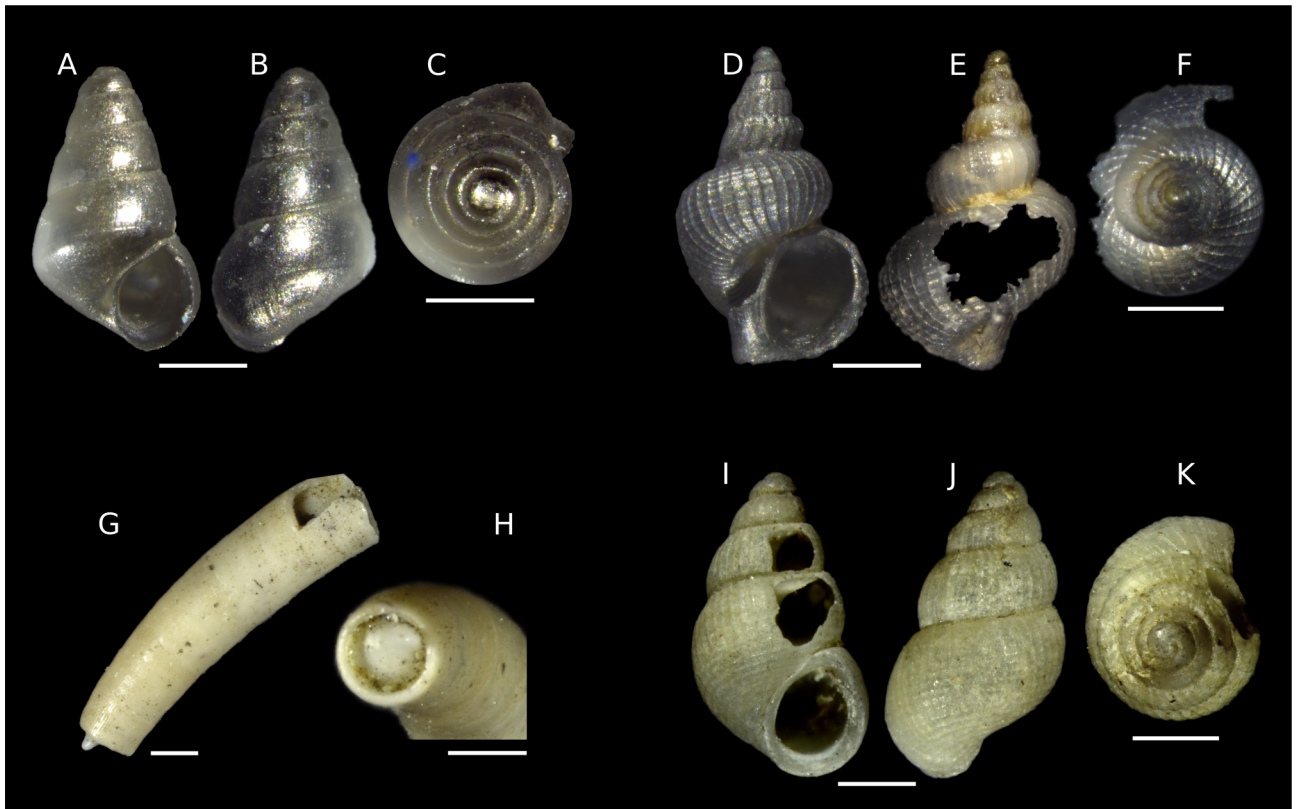


FIGURE 4. A–C. *Caelatura albertoi* Santos & Absalão, 2007, paratype IBUFRJ 14182. D–F. *Eccliseogyra maracatu* Lima & Christoffersen, 2013, paratype IBUFRJ 19231. G–H. *Caecum (Elephantulum) massambabense* Absalão, 1994, paratype IBUFRJ 21209. I–K. *Alvania (Punctulum) valeriae* Absalão, 1994, paratype IBUFRJ 21208. Scale bar: 500µm.

Type catalog

Class Gastropoda

aembe, *Neopleurotomoides* [Raphitomidae]; Figueira & Absalão, 2012: 8, figs. 5–8.

Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 48 (22°11'16"S, 39°43'44"W, 1968 m).

Paratypes: IBUFRJ 18417 [2 sh], Campos Basin, Southeast Brazil, Oceanprof I sta 63 (21°52' 44"S, 39°40'45"W, 1950 m); IBUFRJ 18437 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 87 (22°33'08"S, 39°54'21"W, 1934 m).

albertoi, *Caelatura* [Barleeiidae]; Santos & Absalão, 2007: 121, figs. 1–7.

Type locality: off Amapá State, north Brazil, AMASSEDS Cruise IV sta 4134 (02°21'00"N, 48°29'00"W, 72 m).

Paratype: IBUFRJ 14182 [1 sh], type locality.

Remarks: The original publication indicates five paratypes in IBUFRJ 14182, however, only one shell was found (Fig. 4 A–C); it is coated for SEM, but does not match the figured paratype (Santos & Absalão, 2007: fig. 2).

amphorale, *Prunum* [Marginellidae]; Souza, 1992: 239, figs. 2–3.

Type locality: off Pará, North Brazil, AMASSEDS sta 3210 (01°52'27"N, 48°16'12"W, 47 m).

Paratype: IBUFRJ 3084 [1 sh], off Pará, North Brazil, Norte Nordeste II sta 1888 (00°12'S, 47°03'W, 33 m).

Remarks: The publication mentions two additional paratypes, IBUFRJ 3085 [1 sh] and IBUFRJ 3086 [1 sh], neither of which were found in the collection.

analuciae, *Bullata* [Marginellidae]; Souza & Coovert, 2001: 5, figs. 2, 8, 11.

Type locality: Off Vitória, Espírito Santo State, Southeast Brazil (20°20'S, 40°00'W, 60–70 m).

Paratypes: IBUFRJ 8463 [1 sh] and IBUFRJ 8464 [1 sh], type locality.

angularis, *Corinnaeturris* [Clathurellidae]; Figueira & Absalão, 2010b: 739, figs. 2G–J.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 54 (21°57'17"S, 39°56'01"W, 750 m).

Holotype: IBUFRJ 17053.

Remarks: In the original publication, there is a discrepancy between the locality under the type material section and under the type locality section. Upon confirmation on the label, the type locality section is correct.

antares, *Mitrella* [Columbellidae]; Costa & Souza, 2001: 18, figs. 5–8, 12–14.

Type locality: off Guarapari, Espírito Santo State, Southeast Brazil (20°41'S, 40°22'W, 25 m).

Paratypes: IBUFRJ 8465 [1 sh] and IBUFRJ 8466 [1 sh], off Espírito Santo State, Southeast Brazil (30 m).

Remarks: The labels on both paratypes indicate the locality as “off Piúma”. However in the original publication, the locality is “off Marataízes” which is a neighbor city, both located in Espírito Santo State. The coordinates given in the original publication for the paratypes are probably incorrect, since they do not match either locality, being much further north and far from the coast, inland.

aquilonaria, *Turbonilla* [Pyramidellidae]; Absalão, Santos & Tenório, 2003: 8, figs. 15–17.

Type locality: near Cabo de Santo Agostinho, off Pernambuco State, Northeast Brazil (08°10'30"S, 34°42'01"W, intertidal).

Paratype: IBUFRJ 12705 [1 sh], Praia da Raposa, Maranhão State, north Brazil (02°S, intertidal).

Remarks: Additional information on paratype locality, missing in the original publication, was added based on label and catalog book.

aquilonia, *Oscilla* [Pyramidellidae]; Pimenta, Santos & Absalão, 2008: 176, figs. 2G–L.

Type locality: off Pará state, north Brazil, AMASSEDS sta 3228 (03°25'11.4"N, 49°56'29.4"W, 64 m).

Paratypes: IBUFRJ 4169 [1 sh], type locality; IBUFRJ 14895 [3 sh], type locality; IBUFRJ 14897 [1 sh], off Pará state, North Brazil, AMASSEDS sta 4134.

Remarks: The original publication lists three shells in IBUFRJ 14895, but the lot contains four shells. It is not possible to identify which shell is not a paratype.

aracruzensis, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2004a: 124, figs. 61–65.

Type locality: off Aracruz, Espírito Santo State, Southeast Brazil.

Paratype: IBUFRJ 11904 [1 sh], off Macaé, Rio de Janeiro State, Southeast Brazil, REVIZEE Central I sta D1-2 (22°48'S, 41°09'W, 69 m).

Remarks: The collection station code for the paratype IBUFRJ 11904 (i.e. sta D1) was missing a number in the original publication. Such codification is subdivided into more than one locality. According to the report of the REVIZEE Central (Lavrado & Ignacio 2006) and collection data, the station for IBUFRJ 11904 is D1-2.

arionata, Olivella [Olivellidae]; Absalão, 2000: 11, figs. 1, 3–5.

Type locality: off Rio de Janeiro State, Southeast Brazil (21°40'17"S, 40°48'04"W, 18 m).

Paratype: IBUFRJ 10875 [1 sh], type locality.

atali, Cerithiella [Newtoniellidae]; Fernandes, Garofalo & Pimenta, 2015: 797, fig. 5.

Type locality: Off Rio de Janeiro State, Southeast Brazil, MD55 sta 65-CB106 (23°54'S, 42°10'W, 830 m).

Paratype: IBUFRJ 19651 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 49 (22°04'33"S, 39°54'11"W, 722 m); IBUFRJ 16989 [2 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 45 (22°10'53"S, 39°52'18"W, 1039 m); IBUFRJ 17263 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 74 (22°27'31"S, 40°09'23"W, 749 m).

atlantica, Eulimetta [Eulimidae]; Souza & Pimenta, 2015: 58, figs. 1–2.

Type locality: Off Amapá state, North Brazil, AMASSEDS sta 3210 (01°52'27"N, 48°16'01.2"W, 47 m).

Paratypes: IBUFRJ 19758 [1 sh], type locality; IBUFRJ 19759 [1 sh], off Amapá state, North Brazil, AMASSEDS sta 3205 (02°05'18"N, 48°51'18"W, 22 m); IBUFRJ 10403 [1 sh], South of Abrolhos Bank, Bahia State, Northeast Brazil, JOPS sta 3231 (18°46'48"S, 38°31'24"W, 65 m).

Remarks: The original publication indicates two paratypes in IBUFRJ 10403, however only one shell was found.

aulakion, Caelatura [Barleeiidae]; Santos & Absalão, 2007: 122, figs. 8–13.

Type locality: off Amapá State, North Brazil (04°27'00"N, 49°58'00"W, 160 m).

Paratype: IBUFRJ 14181 [3 sh], type locality.

Remarks: The original publication indicates three paratypes in IBUFRJ 14181. However two vials labeled as IBUFRJ 14181 were found in the collection, with respectively three shells and one shell coated for SEM that matches figure 9 in the original publication. Of the three uncoated shells, it is impossible to ascertain which two were originally intended to be designated as paratypes.

balaustium, Cerithiopsis [Cerithiopsidae]; Figueira & Pimenta, 2008: 75, figs. 19–23.

Type locality: off São Paulo State, Southeast Brazil, REVIZEE Sul sta 6666 (24°17'07.7"S, 44° 12'08.9"W, 163 m).

Paratypes: IBUFRJ 15233 [1 sh] Baía de Todos os Santos, Bahia State, Northeast Brazil, sta I1vv; IBUFRJ 15566 [1 sh] Baía de Todos os Santos, Bahia State, Northeast Brazil, sta 54vv; IBUFRJ 15371 [1 sh] Espírito Santo State, Southeast Brazil, REVIZEE Central VI sta Y7 (20°50'56"S, 38°31'24"W, 77 m).

Remarks: Coordinates for paratype IBUFRJ 15371 were missing in the original publication, here taken from Lavrado & Ignacio (2006).

barcellosi, Caelatura [Barleeiidae]; Absalão & Rios, 1995: 89, figs. 4–7.

Type locality: Off Bahia State, Northeast Brazil (50 m).

Paratype: IBUFRJ 6509 [1 sh] and IBUFRJ 6375 [1 sh], Abrolhos, off Bahia State, Northeast Brazil (50 m).

barrosi, Brasityphis [Muricidae]; Absalão & Santos, 2003: 2, figs. 1–7.

Type locality: Off Sergipe state, northeast Brazil, PCABS sta 2.2 (11°23'48"S, 37°04'48"W, 90 m).

Paratype: IBUFRJ 13816 [1 sh], type locality; IBUFRJ 13817 [1 sh], PCABS sta 2.1 (11°23'21"S, 37°04'30"W, 99 m).

Remarks: IBUFRJ 13817 is referred to as ‘paratype 10’, indicating that only one shell was originally included in this lot. However, the lot contains two shells: one of them corresponds to figure 7, thus, the paratype; the other shell should be considered a non-type specimen, now registered as IBUFRJ 21215.

bernardoi, *Pisania* [*Dianthiphos*, Buccinidae]; Costa & Gomes, 1998: 15, figs. 1–4.

Type locality: Off Salvador, Bahia State, Northeast Brazil.

Paratype: IBUFRJ 6786 [1 sh], off Guarapari, Espírito Santo State, Southeast Brazil.

Remarks: The locality mentioned for paratype IBUFRJ 6786 in the original publication is “off Guarapari”. However, the location on the label is written as “Salvador, Bahia State”, type locality of the species.

bertarollae, *Conus* [Conidae]; Costa & Simone, 1997: 13, figs. 1–20.

Type locality: Off Alcobaça, Bahia State, Northeast Brazil.

Paratype: IBUFRJ 8920 [1 sh], type locality.

Remarks: Costa & Simone (1997) mention an additional paratype lot, IBUFRJ 8919 [3 sh], which was not found in the collection.

bicincta, *Pisinna* [Anabathridae]; Santos & Absalão, 2004: 4, figs. 1–5.

Type locality: off Espírito Santo State, Southeast Brazil, REVIZEE Central V sta 20 (19°16′05″S, 38°00′32″W, 67 m).

Paratype: IBUFRJ 13294 [1 sh], type locality; IBUFRJ 14113 [1 sh], type locality; IBUFRJ 14112 [1 sh], Espírito Santo State, Southeast Brazil, sta 44 (20°51′26″S, 33°38′09″W, 65 m).

brychia, *Anatoma* [Anatomidae]; Pimenta & Geiger, 2015: 165, figs. 156–163.

Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil, Oceanprof II sta 68 (22°48′05″S, 40°06′38″W, 1972 m).

Paratypes: IBUFRJ 19703 [1 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil, Oceanprof II sta 83 (22°30′34″S, 39°51′44″W, 1970 m); IBUFRJ 19704 [1 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil, Oceanprof II sta 63 (21°52′43″S, 39°40′41″W, 1941 m).

cabofrioensis, *Mitrella* [Columbellidae]; Costa & Souza, 2001: 16, fig. 2–4, 9–11.

Type locality: off Cabo Frio, Rio de Janeiro, Southeast Brazil (23°18′00″S, 42°00′00″W, 140 m).

Paratype: IBUFRJ 6930 [1 sh], type locality.

campense, *Anatoma* [Anatomidae]; Pimenta & Geiger, 2015: 162, figs. 148–155.

Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil, Oceanprof I sta 59 (21°52′59″S, 39°55′30″W, 750 m).

Paratypes: IBUFRJ 19756 [1 sh], Campos Basin, Southeast Brazil, Oceanprof I sta 44 (22°10′43″S, 39°54′46″W, 750 m); IBUFRJ 19656 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 44 (22°10′43″S, 39°54′46″W, 750 m); IBUFRJ 15416 [1 sh], Campos Basin, Southeast Brazil, Oceanprof I sta 74 (22°27′31″S, 40°09′23″W, 750 m); IBUFRJ 17281 [2 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 74 (22°27′31″S, 40°09′23″W, 749 m).

capixaba, *Cerithiopsis* [Cerithiopsidae]; Figueira & Pimenta, 2008: 77, figs. 24–28.

Type locality: off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta vv21 (19°38′02″S, 40°01′19″W, 56 m).

Holotype: IBUFRJ 15221. Paratypes: IBUFRJ 9275 [1 sh] off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta c63 (19°40′26″S, 38°08′09″W, 61 m); IBUFRJ 14138 [2 sh] off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta vv38 (19°28′26″S, 38°22′30″W, 71.4 m).

Remarks: Coordinates corrected for the holotype and paratypes based on REVIZEE report (Lavrado & Ignacio 2006).

capixaba, *Turbonilla* [Pyramidellidae]; Pimenta & Absalão, 2004a: 131, figs. 101–106.

Type locality: Off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta vv38 (19°28'26"S, 38°22'30"W, 71.4 m).

Paratype: IBUFRJ 11908 [2 sh], type locality.

carceralis, *Odostomella* [Pyramidellidae]; Pimenta, Absalão & Alencar, 2000: 67, figs. 2–7.

Type locality: Dois Rios Inlet, Ilha Grande, Rio de Janeiro State, Southeast Brazil (23°11.2'S, 44°11'W).

Paratype: IBUFRJ 10848 [2 sh], type locality.

careorugula, *Olivella* (*Anasser*) [Olivellidae]; Absalão & Pimenta, 2003: 182, figs. 1G–I.

Type locality: South of Cabo Frio, Rio de Janeiro State, Southeast Brazil, MD55 sta CB105 (23°47'S, 42°10'W, 610 m).

Paratype: IBUFRJ 11074 [2 sh], type locality.

carinata, *Caelatura* [Barleeiidae]; Santos & Absalão, 2007: 122, figs. 14–19.

Type locality: Ceará State, Northeast Brazil, REVIZEE NE IV sta 130A, 4ª pernada (03°20'00"S, 38°11'00"W, 71 m), Northeast Brazil.

Paratype: IBUFRJ 14179 [1 sh], type locality.

carioca, *Oenopota* [Mangeliidae]; Figueira & Absalão, 2010a: 476, figs. 1G–I.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 74 (22°27'31"S, 40°09'23"W, 750 m).

Holotype: IBUFRJ 18303. Paratype: IBUFRJ 18304 [2 sh], Campos Basin, Southeast Brazil, Oceanprof I sta 59 (21°52'59"S, 39°55'30"W, 750 m).

carloslirai, *Anachis* [Columbellidae]; Costa, 1996: 45, figs. 1, 3–5.

Type locality: Off Guarapari, Espírito Santo State, Southeast Brazil (20°41'S, 40°W, 20–25 m).

Paratype: IBUFRJ 5988 [1 sh], type locality.

conifera, *Chrysallida* [Pyramidellidae]; Pimenta, 2012: 441, figs. 13–18.

Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil, Habitats 16 sta C3, 22°46'49"S, 41°03'16"W, 78 m).

Paratype: IBUFRJ 19203 [1 sh], Campos Basin, Rio de Janeiro State, Habitats 16 sta G3, 22°03'41.0"S, 40°10'05.38"W, 75 m).

copiosa, *Anatoma* [Anatomidae]; Pimenta & Geiger, 2015: 153, figs. 95–110.

Type locality: Campos Basin, Southeast Brazil, Habitats 11 sta G–05 (22°06'06.2"S, 40°03'12.6"W, 154 m).

Paratype: IBUFRJ 19438 [4 sh], off Espírito Santo State, Southeast Brazil.

Remarks: Pimenta & Geiger (2015) indicates six paratypes in IBUFRJ 19438, however only four shells were found.

coronata, *Benthonellania* [Rissoidea]; Absalão & Santos, 2004: 8, figs 5, 10.

Type locality: off south of Bahia State, Northeast Brazil, REVIZEE Central VI sta A3 (18°58'51"S, 37°51'07"W, 247 m).

Holotype: IBUFRJ 13908.

Remarks: The original publication erroneously indicates figs 7–8 for this species. Coordinates were corrected for the type locality based on the REVIZEE report (Lavrado & Ignacio 2006).

cylindrata, *Eulimella* [Pyramidellidae]; Pimenta, Santos & Absalão, 2011: 30, figs. 26–31.

Type locality: east of Cabo de São Tomé, southeast Brazil, MD 55 sta CB96 (21°31'48"S, 40°08'42"W, 295–300 m).

Paratype: IBUFRJ 19202 [1 sh], off Camburi Beach, Espírito Santo State (60 m).

diabula, *Oenopota* [Mangeliidae]; Figueira & Absalão, 2010a: 475, figs. 1D–F.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 44 (22°10'43"S, 39°54'46"W, 750 m).

Holotype: IBUFRJ 18300. Paratype: IBUFRJ 18301 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 45 (22°10'53"S, 39°52'18"W, 1039 m).

digitata, *Macrarenne* [Liotiidae]; McLean, Absalão & Santos Cruz, 1988: 100, figs. 1–2.

Type locality: Off Amapá State, North Brazil, Norte-Nordeste II sta 1913 (03°59'N, 49°35'W, 100 m).

Holotype: IBUFRJ 1562.

Remarks: The type locality placed the material in the Northeast region of Brazil, but according to the coordinates, it is actually in Amapá State, in the North region.

ektopa, *Egila* [Pyramidellidae]; Pimenta & Absalão, 2004b: 168, figs. 6E–H.

Type locality: Off Espírito Santo State, Southeast Brazil, REVIZEE Central I vv38 (19°28'26"S, 38°22'30"W, 71.4 m).

Type material not located.

Remarks: The paratype IBUFRJ 7800 [1 sh] illustrated in fig. 6H was not found in the collection.

eliezeri, *Caecum* [Caecidae]; Absalão, 1997: 271, figs. 1–4.

Type locality: Off Rio de Janeiro State, Southeast Brazil, GEOMAR XII sta 58 (21°31.7'S, 40°19'W, 41 m).

Paratype: IBUFRJ 6504 [1 sh], off Rio de Janeiro State, Southeast Brazil, GEOMAR XII sta 32 (21°09.7'S, 40°26'W, 18.3 m); IBUFRJ 6505 [1 sh], off Rio de Janeiro State, Southeast Brazil, GEOMAR XII sta 34 (21°15.3'S, 40°20.4'W, 45.7 m).

Remarks: Absalão (1997) mentions an additional paratype, IBUFRJ 6506 [1 sh], which was not found in the collection.

enceladus, *Benthomangelia* [Mangeliidae]; Figueira & Absalão, 2010b: 735, figs. 1D–F.

Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 50A (22°02'51"S, 39°52'22"W, 1048 m).

Holotype: IBUFRJ 18223. Paratype: IBUFRJ 18363 [1 sh], Campos Basin, Southeast Brazil, Oceanprof II sta 45 (22°10'53"S, 39°52'18"W, 1039 m).

espiritasantense, *Anatoma* [Anatomidae]; Pimenta & Geiger, 2015: 160, figs. 132–147.

Type locality: Off Espírito Santo State, Southeast Brazil, REVIZEE Central I vv38 (19°28'26"S, 38°22'30"W, 71.4 m).

Paratypes: IBUFRJ 18755 [17 sh], type locality; IBUFRJ 9393 [1 sh] and IBUFRJ 10192 [3 sh], Vitória Seamount, Vitória-Trindade Chain, off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta 61 (20°30'38"S, 37°19'06"W, 88 m).

exiguum, *Eulimastoma* [Pyramidellidae]; Pimenta, 2012: 444, figs. 19–24.

Type locality: Campos Basin, Rio de Janeiro state, Southeast Brazil, Habitats 17 sta I3 (21°23'33.709"S, 40°15'43.349"W, 88 m).

Paratypes: IBUFRJ 12678 [9 sh], off Rio de Janeiro State, Southeast Brazil, REVIZEE Central V sta 52C (21°46'01.2"S, 40°04'58.8"W, 450 m).

Remarks: Pimenta (2012) indicates 9 paratypes in IBUFRJ 12678; however, there are in fact 33 shells. It is not possible to discern which shells were designated as paratypes by the author.

Also, the holotype is indicated in the figure legend as figure 29, but it is actually figure 23.

farinatiae, *Turbonilla* [Pyramidellidae]; Pimenta & Absalão, 2004a: 114, figs. 1–5.

Type locality: Off Cabo Frio, Rio de Janeiro State, Southeast Brazil (22°53'42"S, 41°50'30"W, 50 m).

Paratype: IBUFRJ 11898 [1 sh], off Monte Alto, Espírito Santo State, Southeast Brazil.

farroupilha, *Turbonilla* [Pyramidellidae]; Pimenta & Absalão, 2004a: 116, figs. 13–18.

Type locality: Off Rio Grande, Rio Grande do Sul State, South Brazil (42 m).

Paratype: IBUFRJ 11900 [1 sh], Armação, Santa Catarina State, South Brazil.

- fluminensis, Turbonilla** [*Nisiturris*, Pyramidellidae]; Pimenta & Absalão, 2004a: 120, figs 31–34.
Type locality: Off Macaé, Rio de Janeiro State, Southeast Brazil, REVIZEE Central I sta D1-2 (22°48'S, 41°09'W, 69 m).
Paratype: IBUFRJ 11903 [1 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil (22°47'47"S, 40°45'32"W).
Remarks: The collection station code for paratype IBUFRJ 11903 (i.e. sta D1) was missing a number in the original publication. Such codification is subdivided into more than one locality. According to the report of REVIZEE Central (Lavrado & Ignacio 2006) and collection data, the station of IBUFRJ 11904 is D1-2.
- gongyloskymnus, Metaxia** [Triphoridae]; Fernandes & Pimenta, 2011: 826, figs. 25–31.
Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil (22°43'S, 40°40'W, 120 m).
Paratypes: IBUFRJ 18873 [1 sh] off Piúma, Espírito Santo State, Southeast Brazil.
Remarks: Lot IBUFRJ 18946 was not listed as type material under the species entry, but it was identified as such on the figure legend (fig. 28–29). This same lot is listed as additional material of the species *Metaxia rugulosa* (C.B. Adams, 1850) and it is also illustrated (fig. 16). Upon examination, two shells of *M. rugulosa* were found; one is the specimen illustrated in figure 16. These shells are now in the lot IBUFRJ 21207. The paratype of *M. gongyloskymnus* (IBUFRJ 18946) was not found in the collection.
- goytacazi, Turbonilla** [Pyramidellidae]; Pimenta & Absalão, 2004a: 116, figs. 6–12.
Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil (22°15'25"S, 40°19'39"W, 100 m).
Paratype: IBUFRJ 11899 [1 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil.
- guerrinii, Bullata** [Marginellidae]; Souza & Covert, 2001: 2, figs. 1, 7, 10.
Type locality: Pedra da Lixa, Parcel das Paredes, 27 Km E off Caravelas, Bahia State, Northeast Brazil (17°41.5'S, 38°59'W, 5–15 m).
Paratype: IBUFRJ 10000 [1 sh], 40 Km NE off Alcobaça, Bahia State, Northeast Brazil (10–35 m).
- hyphala, Olivella (Olivina)** [Olivellidae]; Absalão & Pimenta, 2003: 183, figs. 2A–C.
Type locality: Abrolhos continental slope, Bahia State, Northeast Brazil, MD55 sta DC75 (18°59'S, 37°50'W, 295 m).
Paratype: IBUFRJ 11914 [2 sh], type locality.
- kaapor, Turbonilla** [Pyramidellidae]; Pimenta & Absalão, 2004a: 129, figs. 85–89.
Type locality: Off São Paulo State, Southeast Brazil, PADCT sta 6631 (25°46'S, 45°28.8'W, 164 m).
Paratype: IBUFRJ 11907 [1 sh], type locality.
- kamayura, Turbonilla** [Pyramidellidae]; Absalão, Santos & Tenório, 2003: 5, figs. 8–10.
Type locality: off Paraíba State, Northeast Brazil, REVIZEE sta 7 (06°57'32"S 34°29'22"W, 750 m).
Holotype IBUFRJ 12701. Paratypes: IBUFRJ 12702 [2 sh], Ilha de Itaparica, Praia do Despacho, Bahia State, Northeast Brazil (13°01'S, 38°27'W).
- kanela, Aclis** [Aclididae]; Absalão, 2009: 138, figs. 2I–K.
Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 75 (22°31'28"S, 40°03'50"W, 1050 m).
Type material not located.
Remarks: Absalão (2009) mentions the holotype, IBUFRJ 18056, and two paratypes, IBUFRJ 18057 and IBUFRJ 18058, none of which were found in the collection.
- klappenbachi, Olivella** [Olivellidae]; Absalão & Pimenta, 2003: 184, figs. 2D–E.
Type locality: South of Cabo Frio, Rio de Janeiro State, Southeast Brazil, MD55 sta CB105 (23°47'S, 42°10'W, 610 m).
Paratype: IBUFRJ 11913 [1 sh], type locality.
- lepta, Turbonilla** [Pyramidellidae]; Pimenta & Absalão, 2004a: 118, figs 23–26.
Type locality: Off Cabo Frio, Rio de Janeiro State, Southeast Brazil (22°53.7'S, 41°50.5'W, 50 m).

Paratype: IBUFRJ 11901 [1 sh], Espírito Santo/Rio de Janeiro States, Southeast Brazil.

Remarks: Pimenta and Absalão (2004) place the paratype IBUFRJ 11901 in the type locality. However, the locality on the label is “off Espírito Santo State, Southeast Brazil” and the locality in the catalog book is “off Rio de Janeiro State, Southeast Brazil, REVIZEE Central sta D3 (22°52'S, 41°09'W, 80 m)”.

lepta, Peristichia [Pyramidellidae]; Pimenta, Santos & Absalão, 2008: 182, figs 5D–H.

Type locality: off Paraná state, South Brazil, REVIZEE sta 6656 (25°22.1'S, 46°47.5'W, 70 m).

Paratypes: IBUFRJ 9015 [2], Camburi, Espírito Santo state, Southeast Brazil; IBUFRJ 14085 [1 sh], Cabo de São Tomé, Rio de Janeiro State, Southeast Brazil, GEOMAR XII sta 108 (22°09'48"S, 40°59'18"W, 21.3 m).

Remarks: Locality information was added to paratype IBUFRJ 14085 based on the collection station.

litosbathron, Triptychus [Pyramidellidae]; Pimenta, Santos & Absalão, 2008: 180, figs. 4E–I.

Type locality: off Paraná state, South Brazil (25°15.76'S, 45°04.62'W, 124 m).

Paratype: IBUFRJ 14081 [1 sh], off Espírito Santo state, Southeast Brazil, REVIZEE Central I sta vv24 (20°00'18"S, 39°54'36"W, 45 m); IBUFRJ 12878 [1 sh], off Rio de Janeiro state, Southeast Brazil, REVIZEE sta D1-2 (22°49'04"S, 41°09'25"W, 69 m).

Remarks: The coordinates of both paratypes were corrected according to the REVIZEE Central report (Lavrado & Ignacio 2006). The collection station code for paratype IBUFRJ 12878 (i.e. sta D1) was missing a number in the original publication. Such codification is subdivided into more than one locality. The station for this paratype is D1-2 and its locality is in Rio da Janeiro State rather than Espírito Santo State as mentioned in the original publication.

macaensis, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2001: 83, figs. 34–41.

Type locality: Santana Archipelago, off Macaé, Rio de Janeiro State, Southeast Brazil (22°24'30"S, 41°42'30"W).

Paratype: IBUFRJ 11075 [1 sh], type locality.

maestratii, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2004a: 128, figs. 79–84.

Type locality: Despacho Beach, off Itaparica, Bahia State, Northeast Brazil.

Paratype: IBUFRJ 11906 [2 sh], type locality.

maracatu, Eccliseogyra [Nystiellidae]; Lima & Christoffersen, 2013: 290, figs. 1A–E.

Type locality: Off Alagoas State, Northeast Brazil (10°06'35"S, 35°46'41"W, 720 m).

Holotype: IBUFRJ 18825, not found. Paratype: IBUFRJ 19231 [1 sh, juvenile], type locality.

Remarks: The shell in IBUFRJ 18825 is juvenile and broken. By comparison with the illustration on the publication, this is certainly not the holotype. This shell is most likely the paratype IBUFRJ 19231. The only shell found in IBUFRJ 18825 was transferred to IBUFRJ 19231 (Fig. 4 D–F) and the holotype is considered lost.

massambabense, Caecum (Elephantulum) [Caecidae]; Absalão, 1994b: 138, figs. 1A–C.

Type locality: Massambaba Beach, Rio de Janeiro State, Southeast Brazil, (22°57'30"S, 42°19'30"W, 31 m).

Holotype: IBUFRJ 5518. Paratypes: IBUFRJ 5520 [1 sh], IBUFRJ 5521 [1 sh], IBUFRJ 5522 [1 sh] and IBUFRJ 5523 [1 sh], type locality; IBUFRJ 21209 [1 sh], off Rio de Janeiro State, Southeast Brazil.

Remarks: The original publication designated 22 paratypes for this species, although information about collection acronym and catalog number is given for only 18 of them. The original publication indicates that paratype 15 is deposited in IBUFRJ 5522, however, MNRJ 7160, not cited in the original publication, is also labeled as “paratype 15” (Pimenta *et al.* 2014). This explains the location of some of the four paratypes not explicitly mentioned in the original list.

Only the labels were found for paratypes lots IBUFRJ 5519 [1 sh], IBUFRJ 5524 [1 sh] and IBUFRJ 5525. An additional paratype lot, not cited in the publication, was found in the collection. Even though it was not included in the paper, this material is clearly labeled as paratype by the author and has been added to the type series, now numbered IBUFRJ 21209 (Fig. 4 G–H).

megascymna, Turbonilla [Pyramidellidae]; Absalão, Santos & Tenório, 2003: 3, figs. 4–7.

Type locality: off Paraíba State, Northeast Brazil, REVIZEE sta 7 (06°57'32"S, 34°29'22"W, 750 m).

Holotype: IBUFRJ 12703.

megaumbilicata, Brookula [Family unassigned, Seguenzioidea]; Absalão & Pimenta, 2005: 194, figs. 11–16.

Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil, sta 2 (21°57'S, 39°50'03"W, 1200 m).

Paratypes: IBUFRJ 13562 [1 sh], type locality; IBUFRJ 12735 [2 sh] and IBUFRJ 12744 [8 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil, sta 41 (22°39'28.1"S, 40°08'27"W, 1222 m).

mermeroglaphyra, Turbonilla [Pyramidellidae]; Absalão, Santos & Tenório, 2003: 7, figs. 11–14.

Type locality: off Alagoas State, Northeast Brazil, REVIZEE sta 2 (10°38'01"S, 36°11'05"W, 255 m).

Paratype: IBUFRJ 12704 [1 sh], off Paraíba State, Northeast Brazil, REVIZEE sta 8 (06°58'06"S, 34°31'25"W, 270 m).

metamorphosicum, Caecum [Caecidae]; Lima, Santos & Absalão, 2013: 769, figs. 3–6.

Type locality: Off Rio de Janeiro State, Southeast Brazil, REVIZEE Central VI sta R1#1 (21°38'56"S, 40°10'4"W, 140 m).

Holotype: IBUFRJ 18364. Paratypes: IBUFRJ 18365 [1 sh], IBUFRJ 18366 [1 sh], IBUFRJ 18367 [1 sh], IBUFRJ 18368 [3 sh], IBUFRJ 18369 [4 sh] and IBUFRJ 18370 [2 sh], type locality; IBUFRJ 7946 [1 sh], off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta D13 (21°09'57"S, 40°34'19"W, 20 m); IBUFRJ 12698 [5 sh], off Espírito Santo State, Southeast Brazil, REVIZEE Central I sta vv21 (20°38'02"S, 40°01'19"W, 56 m); IBUFRJ 14347 [1 sh], off Bahia State, Northeast Brazil, REVIZEE Central V sta 13D (16°47'09"S, 37°41'09"W, 50 m); IBUFRJ 18371 [1 sh], Banco Tarol, off Maranhão, Northeast Brazil, REVIZEE Norte (00°56'36"S, 44°47'04"W); IBUFRJ 18372 [1 sh], off Pará State, North Brazil, AMASSEDS sta 3209 (01°20'N, 49°15'W, 40 m).

Remarks: Several lots were not listed in the type material section, but were mentioned as paratypes in the captions of figs. 3, 4 and 5. Accordingly, they must be considered as paratypes. The labels of those lots also identify them as paratypes. They are: IBUFRJ 18366 (fig. 5E), IBUFRJ 18367 (fig. 5D), IBUFRJ 18368 (fig. 3A), IBUFRJ 18369 (figs. 4A–D, 4F), IBUFRJ 18370 (figs. 4G–H) and IBUFRJ 18365 (fig. 5C), this last lot being also listed as "additional material". Additionally, although cited as paratype, the caption of figure 4E of the publication presents no information about catalog number. By direct comparison with the material, it has been confirmed that this shell is one of the four paratypes in lot IBUFRJ 18369. There are also some discrepancies in the number of shells for some lots. The publication listed four shells in IBUFRJ 18372, however only one was found. For IBUFRJ 18365, 12 shells are listed where, once again, there is only one shell.

IBUFRJ 19598 was also listed as additional material, but the label identified it as a paratype. In this case, since there is no indication in the publication that this should be type material, it is an ordinary lot.

midas, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2004a: 126, figs. 66–71.

Type locality: Off Santos, São Paulo State, Southeast Brazil (45 m).

Paratype: IBUFRJ 11905 [1 sh], Prainha, off Arraial do Cabo, Rio de Janeiro State, Southeast Brazil.

mizifio, Cheirodonta [Triphoridae]; Fernandes & Pimenta, 2015: 496, fig. 2.

Type locality: Off Rio de Janeiro, Southeast Brazil, Habitats 13 sta H3 (21°43'06"S, 40°11'37"W, 73 m).

Paratypes: IBUFRJ 19691 [1 sh], off Itaipú, Niterói, Rio de Janeiro State, Southeast Brazil; IBUFRJ 19688 [11 sh], Off Piúma, Espírito Santo State, Southeast Brazil.

multicostata, Benthonellania [Rissoidea]; Absalão & Santos, 2004: 6, figs. 4, 9.

Type locality: off Bahia state, Northeast Brazil, REVIZEE Central V sta 504 (14°28'55.20"S, 38°54'03.60"W, 278 m).

Holotype: IBUFRJ 13906. Paratypes: IBUFRJ 13905 [17 sh], type locality.

Remarks: The original publication erroneously indicated figs. 5–6 for this species.

Also, the original publication did not mention the collection number for the paratypes deposited at IBUFRJ. This lot was found in the collection as lot IBUFRJ 13905. However, the publication indicates 23 shells in this lot, but

only 17 were found. Geographic coordinates of this paratype were adjusted based on the REVIZEE report (Lavrado & Ignacio 2006).

multistriata, Chrystella [Pickworthiidae]; Santos & França, 2008: 27, figs. 1–4.

Type locality: Sergipe, Northeast Brazil, (11°14'54"S, 36°59'46"W, 128 m).

Type material not found.

Remarks: Holotype, IBUFRJ 17541, and paratype, IBUFRJ 17542, were not located, presumably they were never sent to IBUFRJ.

nordestina, Papuliscalca [Nystiellidae]; Lima & Christoffersen, 2013: 292, figs. 3A–C.

Type locality: Off Alagoas State, Northeast Brazil (10°06'35"S, 35°46'41"W, 720 m).

Holotype: IBUFRJ 18827.

notialis, Oscilla [Pyramidellidae]; Pimenta, Santos & Absalão, 2008: 175, figs. 2 A–F.

Type locality: Off Sergipe state, Northeast Brazil, sta 2.1 (11°23'21"S, 37°04'30"W, 99 m).

Paratype: IBUFRJ 14077 [3 sh], type locality; IBUFRJ 14082 [1 sh], off Rio de Janeiro state, Southeast Brazil, REVIZEE sta D1-2 (22°49'04"S, 41°09'25"W, 69 m); IBUFRJ 12316 [2 sh], Cabo Frio VII sta 6194, off Rio de Janeiro state, Southeast Brazil; IBUFRJ 9627 [1], Arquipélago de Santana (sta 2), Macaé, Rio de Janeiro State, Southeast Brazil; IBUFRJ 6934 [3 sh], off Rio de Janeiro state, Southeast Brazil, GEOMAR XII sta 89 (21°47'48"S, 40°16'00"W, 54.9 m); IBUFRJ 7595 [2 sh], off Rio de Janeiro state, Southeast Brazil, GEOMAR XII sta 76 (21°57'36"S, 40°51'00"W, 15.2 m).

Remarks: The collection station code for paratype IBUFRJ 14082 (i.e., sta D1) was missing a number in the original publication. Such codification is subdivided into more than one locality. According to the report of REVIZEE Central (Lavrado & Ignacio 2006) and collection data, the station for the paratype IBUFRJ 14082 is D1-2 and its locality is in Rio da Janeiro State rather than Espírito Santo State as mentioned in the original publication.

noxia, Caelatura [Barleeiidae]; Santos & Absalão, 2007: 122, figs. 20–22, 24–27.

Type locality: Off Rio de Janeiro State, REVIZEE Central V sta 38R (22°00'25"S, 40°05'16"W, 100 m).

Paratype: IBUFRJ 9520 [1 sh], type locality.

Remarks: The collection station for the type locality was corrected based on the REVIZEE report (Lavrado & Ignacio 2006). The original publication mentions IBUFRJ 9520 twice, as a paratype lot with one shell from type locality, and as 'additional material' with 34 shells and with different locality data (REVIZEE sta c62, 20°30'02"S, 37°28'51"W, 96 m). The paratype retains the collection number and the additional lot has now been renumbered as IBUFRJ 21213 (non-type). Paratype IBUFRJ 14183 was cited in the original publication with one shell from the type locality. Lot IBUFRJ 14183 found in the collection and labeled as paratype is from a different locality (REVIZEE sta c62) and includes five shells. Given this discrepancy we consider that these specimens are not type material, therefore the lot has been renumbered as IBUFRJ 21214 (non-type) and the paratype IBUFRJ 14183 is considered lost.

The original publication figured the holotype in the following images: fig. 20, frontal view; fig. 21, side view; fig. 25, protoconch. However, only fig. 20 corresponds to the shell labelled as holotype in MNRJ 10311. The other shell images were located in the IBUFRJ Collection in the following numbers: IBUFRJ 9800 (fig. 21) and IBUFRJ 10221 (fig. 25), both lots expressly mentioned as ordinary material in the original publication. Since the holotype is the one shell in MNRJ 10311, the citation as "holotype" in the legend of the figs. 21 and 25 for shells in IBUFRJ 9800 and IBUFRJ 10221 is here considered an error and these specimens are excluded from the "holotype" (ICZN 73.1.5).

oblatogyra, Granigyra [Family unassigned, Seguenzioidea]; Souza & Pimenta, 2002: 299, figs. 1–4.

Type locality: off Rio Doce, Espírito Santo State, Southeast Brazil, JOPS sta 3228 (19°45'30"S, 38°45'48"W, 1100 m).

Paratype: IBUFRJ 11019 [1 sh], off Macaé, Rio de Janeiro State, Southeast Brazil (22°41'25.36"S, 40°26'49.19"W, 780 m).

- olearia, Brookula** [Family unassigned, Seguenzioidea]; Absalão & Pimenta, 2005: 198, figs. 28–35.
Type locality: Campos Basin, Rio de Janeiro state, Southeast Brazil, sta 61 (21°52'51.9"S, 39°48'11.680"W, 1350 m).
Paratypes: IBUFRJ 13862 [8 sh], type locality; IBUFRJ 13863 [1 sh], Campos Basin, Southeast Brazil, sta 45 (22°10'54.322"S, 39°52'19.432"W, 1050 m).
- onca, Isotriphora** [Triphoridae]; Fernandes, Pimenta & Leal, 2013: 10, figs. 9–10.
Type locality: Off Trindade Island, Vitória-Trindade Chain, Espírito Santo State, Southeast Brazil, REVIZEE Central V sta 41F (20°30'00"S, 29°16'12"W, 360 m).
Paratype: IBUFRJ 14367 [7 sh], Vitória-Trindade Chain, Espírito Santo State, Southeast Brazil, REVIZEE Central V sta 42R (20°44'16"S, 31°49'40"W, 85 m).
- pankakare, Palazzia** [Family unassigned, Seguenzioidea]; Absalão, 2009: 136, figs. 1E–H.
Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 77 (22°36'03"S, 39°57'54" W, 1650 m).
Type material not located.
Remarks: Absalão (2009) mentions a holotype (IBUFRJ 18041) and two paratypes (IBUFRJ 18042 and IBUFRJ 18043), none of which were found in the collection.
- parajeffreysi, Vetulonia** [Family unassigned, Seguenzioidea]; Absalão & Pimenta, 2005: 194, figs. 3–8.
Type locality: Campos Basin, Rio de Janeiro State, Southeast Brazil, (22°38'46.64"W, 40°60'13.05"S, 1290 m).
Paratype: IBUFRJ 12739 [1 sh], Campos Basin, Rio de Janeiro State, Southeast Brazil, sta 2 (21°57'W, 39°50'03"S, 1200 m).
- parviscymna, Turbonilla** [Pyramidellidae]; Pimenta & Absalão, 2004a: 120, figs. 27–30.
Type locality: Off Pará State, North Brazil, AMASSEDS sta 3209 (01°20'55.8"N, 48°00'12"W, 53 m).
Paratype: IBUFRJ 11902 [1 sh], from the type locality.
- pataxo, Calliotropis** [Calliotropidae]; Absalão, 2009: 135, figs. 1C–D.
Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 73 (22°41'35"S, 40°00'45"W, 1950 m).
Type material not located.
Remarks: Absalão (2009) mentions a holotype (IBUFRJ 18035) and two paratypes (IBUFRJ 18036 and IBUFRJ 18037), none of which were found in the collection.
- paulinoi, Turbonilla** [Pyramidellidae]; Pimenta & Absalão, 2004a: 135, figs. 116–120.
Type locality: Off Pará State, North Brazil, AMASSEDS sta 3209 (01°20'55.8"N, 48°00'12"W, 53 m).
Paratype: IBUFRJ 11910 [1 sh], off Amapá State, North Brazil, AMASSEDS sta 3228 (03°25'06"N, 49°56'24"W, 64 m).
- phrix, Caelatura** [Barleeiidae]; Santos & Absalão, 2007: 124, figs. 28–31, 33, 34.
Type locality: Bahia State, Northeast Brazil, REVIZEE Central V sta 13B (16°47'09"S, 37°41'09"W, 50 m).
Paratype: IBUFRJ 11927, type locality.
- pichi, Xanthodaphne** [Raphitomidae]; Figueira & Absalão, 2012: 11, figs. 16–19.
Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 84 (22°26'28"S, 39°58'53"W, 1046 m).
Paratype: IBUFRJ 17063 [1 sh], Campos Basin, Southeast Brazil, Oceanprof I sta 59 (21°52'59"S, 39°55'30"W, 750 m).
- proseila, Brookula** [Family unassigned, Seguenzioidea]; Absalão & Pimenta, 2005: 196, figs. 19–24.
Type locality: Off Bahia State, Northeast Brazil, REVIZEE sta 5 (15°34'04.8"S, 38°49'48.6"W, 50 m).
Paratype: IBUFRJ 12746 [1 sh], type locality.

puncturina, Pseudodiala [Barleeiidae]; Santos & Absalão, 2006: 65, figs. 12–18.

Type locality: Espírito Santo state, Southeast Brazil, REVIZEE Central V sta 30, (20°09'03"S, 37°28'48"W, 60 m).

Paratypes: IBUFRJ 14738 [1], Abrolhos, off Bahia State, Northeast Brazil, REVIZEE Central sta C64 (19°16'58"S, 38°42'00"W, 63 m).

Remarks: The original publication lists several other paratype lots, which were not found: IBUFRJ 14697, IBUFRJ 14737 and IBUFRJ 12039.

pyrrocincta, Protobarleeia [Barleeiidae]; Absalão, 2002: 5, figs. 9–12.

Type locality: Abrolhos Bank, off Bahia State, Northeast Brazil (20 m).

Paratype: IBUFRJ 12038 [5 sh], type locality.

Remarks: No locality was given for IBUFRJ 12038 in the original description. The locality is provided here according to the specimen label.

rechonchuda, Anachis [Columbellidae]; Lima & Guimarães, 2015: 446, figs. 1A–G, 2A.

Type locality: Off Pernambuco State, Northeast Brazil, (08°46'30"S, 34°44'30"W, 690 m).

Paratypes: IBUFRJ 19468 [2 sh], IBUFRJ 19469 [5 sh], type locality.

rhachialis, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2004a: 137, figs. 121–126.

Type locality: Prainha, Arraial do Cabo, Rio de Janeiro State, Southeast Brazil.

Paratype: IBUFRJ 11915 [1 sh], off Piúma, Espírito Santo State, Southeast Brazil, (21°10'S, 40°37'W, 16–18 m).

riosi, Ketosia [Barleeiidae]; Santos & Absalão, 2006: 61, figs. 1–5.

Type locality: Povoação, Espírito Santo State, Southeast Brazil, (21°36'32.537"S, 40°39'18.846"W, 10–30 m).

Type material not located.

Remarks: IBUFRJ 14695 and IBUFRJ 12798, listed as paratypes, were not located.

saturata, Fusceulima [Eulimidae]; Souza & Pimenta, 2014: 627, figs. 38–45.

Type locality: Campos Basin, Rio de Janeiro, Southeast Brazil (21°58'59.9"S, 40°25'16.67"W, 52 m).

Paratypes: IBUFRJ 15232 [1 sh], Cabo Frio, Rio de Janeiro State, Southeast Brazil, Cabo Frio VII sta 6192 (23°25.5'S, 44°00'W, 67 m); IBUFRJ 19682 [8 sh], Santana Archipelago, off Macaé, Rio de Janeiro State, Southeast Brazil (12–38 m).

scapulata, Turbonilla [Pyramidellidae]; Pimenta & Absalão, 2004a: 135, figs. 111–115.

Type locality: Off São Paulo State, Southeast Brazil, PADCT # 6579 (24°42'18"S, 45°18'48"W, 84 m).

Paratype: IBUFRJ 11909 [1 sh], type locality.

scylla, Triphora [Triphoridae]; Fernandes & Pimenta, 2015: 509, fig. 8.

Type locality: Mouth of Guarapari Canal, off Guarapari, Espírito Santo State, Southeast Brazil.

Paratypes: IBUFRJ 7568 [1 sh], off Espírito Santo State, Southeast Brazil (20°47'S, 40°26'W); IBUFRJ 19594 [1 sh], off Rio de Janeiro State, Southeast Brazil, REVIZEE Central I sta D3 (22°52'59"S, 41°09'14"W, 80 m).

seraphina, Oenopota [Mangeliidae]; Figueira & Absalão, 2010a: 473, figs. 1A–C.

Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 84 (22°26'28"S, 39°58'53"W, 1046 m).

Holotype: IBUFRJ 18299.

spinulata, Brookula [Family unassigned, Seguenzioidea]; Absalão, Miyaji & Pimenta, 2001: 685, fig. 5.

Type locality: South of Abrolhos Bank, Bahia State, Northeast Brazil, JOPS sta 3229 (19°38.5'S, 38°43'W, 775 m).

Paratype: IBUFRJ 10873 [2 sh], type locality.

spirocordata, Caelatura [Barleeiidae]; Absalão & Rios, 1995: 87, figs. 1–3.

Type locality: Off Atafona, Northeastern Rio de Janeiro State, Southeast Brazil, Cabo Frio VI sta 51 (21°35'40"S, 40°44'35"W, 16.8 m).

Holotype: IBUFRJ 5948. Paratype: IBUFRJ 5949 [1 sh] Northeastern Rio de Janeiro State, Southeast Brazil (21°31'35"S, 40°19'00"W, 41 m).

spirosulcata, *Terebra* [Terebridae]; Simone & Costa in Simone, 1999: 237, figs. 1E–F; 3H; 6H–I; 7E; 8D–E; 13C; 25; 26.

Type locality: off Ilha do Pai, Rio de Janeiro State, Southeast Brazil (30–40 m).

Paratype: IBUFRJ 8918 [1 sh] Off Rio de Janeiro State, Southeast Brazil (55 m).

tanata, *Taranis* [Raphitomidae]; Figueira & Absalão, 2010b: 736, figs. 1G–I.

Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 87 (22°33'08"S, 39°54'21"W, 1934 m).

Holotype: IBUFRJ 18341.

thetys, *Nassarina* [Columbellidae]; Costa & Absalão, 1998: 279, figs. 1, 4, 5, 8, 9, 11.

Type locality: off Guarapari, Espírito Santo State, Southeast Brazil (20°41'S, 40°22'W, 20–30 m).

Paratypes: IBUFRJ 8003 [1 sh] off Rio Doce, Espírito Santo State, Southeast Brazil, (19°39'S, 39°34'W, 44 m);

IBUFRJ 10319 [1 sh] off Santa Cruz de Cabralia, Bahia State, Southeast Brazil, (16°09'55"S, 38°14'39"W, 58 m).

thomei, *Ketosia* [Barleeiidae]; Santos & Absalão, 2006: 62, figs. 6–11.

Type locality: Rio de Janeiro State, Southeast Brazil, GEOMAR XVI sta 17 Am.19 (22°27'S, 40°58'W).

Type material not located.

Remarks: IBUFRJ 14696, IBUFRJ 7872, IBUFRJ 7659 and IBUFRJ 13808, mentioned as paratypes, were not located.

tigrina, *Caelatura* [Barleeiidae]; Absalão, 2002: 2, figs. 1–5.

Type locality: Davis Seamount, Vitória-Trindade Chain, Espírito Santo State, Southeast Brazil, MD55 sta DC41 (20°39'S, 34°43'W, 58–70 m).

Paratype: IBUFRJ 12037 [5 sh], type locality.

tigrina, *Isotriphora* [Triphoridae]; Fernandes, Pimenta & Leal, 2013: 8, figs. 7–8.

Type locality: Off Trindade Island, Vitória-Trindade Chain, Espírito Santo State, Southeast Brazil, MD55 Sta 35-DC59 (20°30'S, 29°19'W, 52–60 m).

Paratype: IBUFRJ 17051 [2 sh], Vitória-Trindade Chain, Espírito Santo State, Southeast Brazil, REVIZEE Central V Sta 49R (20°31'08"S, 29°21'03"W, 57 m).

trinidadense, *Caecum* [Caecidae]; Lima, Santos & Absalão, 2013: 773, figs. 7–10.

Type locality: Off Rio de Janeiro State, Southeast Brazil, REVIZEE Central VI sta R1#1 (21°38'56"S, 40°10'48"W, 140 m).

Paratypes: IBUFRJ 19597 [2 sh] Campos Basin, Rio de Janeiro State, Southeast Brazil, sta H16-D05-R2 (22°31'07.11"S, 40°31'32.87"W, 137 m).

Remarks: The original publication mentions a holotype (IBUFRJ 18391), which was not found in the collection. Also, lot IBUFRJ 19599 was listed as additional material under the species entry, but it was identified as a paratype on the figure legend (fig. 7–8). It has not been found in the collection.

tupinamba, *Turbonilla* [Pyramidellidae]; Pimenta & Absalão, 2002: 11, figs. 33–37.

Type locality: off Prainha, Arraial do Cabo, Rio de Janeiro State, Southeast Brazil (22°58'S, 42°00'W).

Paratype: IBUFRJ 8330 [1 sh] off Espírito Santo/Rio de Janeiro States, Southeast Brazil.

torquata, *Eulimella* [Pyramidellidae]; Pimenta, Santos & Absalão, 2011: 28, figs. 19–25.

Type locality: Campos Basin, Southeast Brazil (1084 m).

Paratype: IBUFRJ 19120 [1 sh], Campos Basin, Southeast Brazil.

tupi, *Caelatura* [Barleeiidae]; Santos & Absalão, 2007: 125, figs. 35–39.

Type locality: Bahia State, Northeast Brazil, REVIZEE Central V sta 13B (16°47'09"S, 37°41'09"W, 50 m).

Paratype: IBUFRJ 14180 [1 sh], Rio de Janeiro State, Southeast Brazil, REVIZEE Central I sta vv21, (20°38'02"S, 40°01'19"W, 56 m).

Remarks: The original publication indicated that paratype IBUFRJ 14180 came from the type locality, but the correct locality according to the label and catalog is given above.

uaca, *Turbonilla* [Pyramidellidae]; Pimenta & Absalão, 2004a: 137, figs. 127–132.

Type locality: Off Amapá State, North Brazil.

Paratype: IBUFRJ 11911 [1 sh], type locality.

urueuauau, *Mirachelus* [Chilodontidae]; Absalão, 2009: 134, figs. 1A–B.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 75 (22°31'28"S, 40°03'50"W, 1050 m).

Type material not located.

Remarks: The original publication mentions a holotype (IBUFRJ 18031) and two paratypes (IBUFRJ 18032 and IBUFRJ 18033), none of which were found in the collection.

valeriae, *Alvania* (*Punctulum*) [Rissoidae]; Absalão, 1994a: 104, figs. 1–3.

Type locality: Off Southeastern Espírito Santo State, Southeast Brazil, sta 6449 (20°38'12"S, 40°16'12"W, 38 m).

Paratype: IBUFRJ 21208 [1sh], Rio de Janeiro State, Southeast Brazil, (23°16'50"S, 43°02'40"W, 92 m).

Remarks: Absalão (1994) mentions a holotype (IBUFRJ 1726) and two paratypes (IBUFRJ 1727 and IBUFRJ 1728), none of which were found in the collection. IBUFRJ 21208 (fig. 4 I–K), not mentioned in the original publication, was labeled by the author as a paratype.

virgulinoi, *Turbonilla* [Pyramidellidae]; Absalão, Santos & Tenório, 2003: 3, figs. 1–3.

Type locality: off Pernambuco State, Northeast Brazil, REVIZEE sta 23 (08°46'01"S, 34°44'02"W, 690 m).

Paratype: IBUFRJ 12700 [1], off Paraíba State, Northeast Brazil, REVIZEE sta 7 (06°57'38"S, 34°29'22"W, 750 m).

xacriaba, *Ponderinella* [Tornidae]; Absalão, 2009: 138, figs. 2E–H.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 73 (22°41'35"S, 40°00'45"W, 1950 m).

Type material not located.

Remarks: The original publication mentions a holotype (IBUFRJ 18048) and two paratypes (IBUFRJ 18049 and IBUFRJ 18050), none of which were found in the collection.

xaioca, *Gymnobela* [Raphitomidae]; Figueira & Absalão, 2012: 20, figs. 33–34.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 3 (22°35'S, 39°58'W–22°32'S, 39°56'W, 1620–1623 m).

Paratype: IBUFRJ 16460 [1 sh] Campos Basin, Southeast Brazil, Oceanprof I sta 9 (22°41'S, 40°02'W–22°39'S, 40°01'W, 1609–1621 m).

xerente, *Adeuomphalus* [Family unassigned, Seguenzioidea]; Absalão, 2009: 136, figs. 2A–D.

Type locality: Campos Basin, Southeast Brazil, Oceanprof II sta 85 (22°30'21"S, 39°56'53"W, 1353 m).

Type material not located.

Remarks: Absalão (2009) mentions a holotype (IBUFRJ 18045) and two paratypes (IBUFRJ 18046 and IBUFRJ 18047), none of which were found in the collection.

ybessa, *Pleurotomella* [Raphitomidae]; Figueira & Absalão, 2012: 24, figs. 51–55.

Type locality: Campos Basin, Southeast Brazil, Oceanprof I sta 7 (22°45'S, 40°19'W–22°44'S, 40°16'W, 1118–1130 m).

Paratype: IBUFRJ 19191 [2 sh] Campos Basin, Southeast Brazil, Oceanprof I sta 84 (22°26'27"S, 39°58'51"W, 1050 m).

Class Bivalvia

arariboia, *Yoldiella* [Yoldiidae]; Benaim & Absalão, 2011: 521, figs. 6A–G.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 60 (21°52'50,45"S, 39°51'42,6"W, 1050 m).

Paratypes: IBUFRJ 17563 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. II sta 79 (22°20'22,4"S, 40°01'24,7"W, 755 m); IBUFRJ 18691 [17 v], Campos Basin, southeast Brazil, Ocean Prof. I sta 32 (22°38'01,14"S, 40°17'26,55"W, 900 m); IBUFRJ 18693 [1 v], Campos Basin, southeast Brazil, Ocean Prof. I sta 34 (22°33'31,21"S, 40°12'05,38"W, 900 m).

Remarks: Both the original publication and the catalog list 15 valves in paratype lot IBUFRJ 18693, but only one valve was found.

curupira, *Yoldiella* [Yoldiidae]; Benaim & Absalão, 2011: 523, figs. 8A–H.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 38 (22°41'19"S, 40°14'06"W, 1100 m).

Paratype: not found.

Remarks: The locality cited in the original publication for IBUFRJ 18668 (i.e. Ocean Prof. I sta. 41, 22°39'34,36"S, 40°08'22,27"W, 1200 m) does not correspond to that on the lot label and the catalog book (i.e. Roncador sta 03: 21°58'38"S, 39°51'48"W, 1200 m). Additionally, the original publication lists two valves deposited as paratype IBUFRJ 18668, one of them illustrated in fig. 8B. Two silver-coated valves were indeed found in IBUFRJ 18668, but neither one corresponds to that figure. Thus, we consider that the material in IBUFRJ 18668 is not the material originally designated as types by the authors. The valve illustrated in fig. 8B was not found among the additional material listed by Benaim & Absalão (2011).

domaneschii, *Limatula* [Limidae]; Oliveira & Absalão, 2008: 52, figs. 10–12.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. II sta 80 (22°24'30"S, 39°57'29"W, 1044 m).

Holotype: IBUFRJ 17806 [2 v]. Paratype: IBUFRJ 17801 [2 v], type locality.

elfica, *Ledella* [Nuculanidae]; Viegas, Benaim & Absalão, 2014: 191, figs. 4–5 as *Ledella* sp.3, and fig. 8.

Type locality: Campos Basin, southeast Brazil, Habitats 7 sta H6 R2 (21°44'21"S, 40°05'18"W, 402 m).

Paratype: IBUFRJ 19371 [1 sh], Campos Basin, Southeast Brazil, Habitats 7 sta H6 R1 (21°42'02"S, 40°06'15"W, 404.7 m).

Remarks: There is an incongruence between the number of shells cited in the type material list of the original publication (2 shells) and the actual number found in the lot IBUFRJ 19371 (1 shell).

jarauara, *Protocuspidaria (Bidentaria)* [Protocuspidariidae]; Oliveira & Absalão, 2009: 153, figs. 5G–M.

Type locality: Campos Basin, southeast Brazil, Roncador sta 10 (21°58'36"S, 39°46'30"W, 1700 m).

Holotype: IBUFRJ 14996 [1 sh]. Paratype: IBUFRJ 17888 [2 v], Albacora Leste sta 29 (22°05'11"S, 39°42'40"W, 1930 m).

kaiwa, *Myonera* [Cuspidariidae]; Oliveira & Absalão, 2009: 145, figs. 3A–I.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 62 (21°52'41"S, 39°46'17"W, 1650 m).

Holotype: IBUFRJ 17923 [1 v]. Paratypes: IBUFRJ 14799 [1 v], Campos Basin, southeast Brazil, Roncador sta 10 (21°58'36"S, 39°46'30"W, 1700 m); IBUFRJ 17886 [1 v], Campos Basin, Southeast Brazil, Albacora Leste sta 29 (22°05'11"S, 39°42'40"W, 1930 m); IBUFRJ 17932 [1 v], type locality; IBUFRJ 17933 [1 v], type locality; IBUFRJ 17934 [1 v], type locality.

lapernoi, *Yoldiella* [Yoldiidae]; Benaim & Absalão, 2011: 515, figs. 2A–G, J.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 41 (22°39'34,36"S, 40°08'22,27"W, 1200 m).

Paratypes: IBUFRJ 18756 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. I sta 51 (22°04'43,44"S, 39°49'09,29"W, 1350 m); IBUFRJ 18757 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. I sta 71 (22°38'53,6"S, 40°04'14,2"W, 1350 m); IBUFRJ 18758 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. II sta 71 (22°38'52,9"S, 40°04'16,3"W, 1350 m); IBUFRJ 18759 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. II sta 81 (22°26'28,5"S, 39°54'08,3"W, 1350 m); IBUFRJ 18760 [1 v], Campos Basin, Southeast Brazil, Ocean Prof.

II sta 86 (22°31'37,2"S, 39°55'14,5"W, 1630 m); IBUFRJ 18762 [1 v], type locality.

Remarks: The original publication cited Ocean Prof. II sta. 81 (22°26'28,5"S, 39°54'08,3"W, 1350 m) for paratype IBUFRJ 18760. Nevertheless, according to the data on the label and the catalog, the actual station is Ocean Prof. II sta 86 (22°31'37,2"S, 39°55'14,5"W, 1630 m).

legionaria, *Ledella* [Nuculanidae]; Viegas, Benaim & Absalão, 2014: 189, figs. 4–5 as *Ledella* sp. 2, and fig. 7.

Type locality: Campos Basin, southeast Brazil, Habitats 7 sta F6 R2 (22°19'11"S, 40°05'44"W, 403 m).

Paratype: IBUFRJ 19300 [2 sh], Campos Basin, Southeast Brazil, Habitats 9 sta H6 R2 (21°44'21"S, 40°04'53"W, 404 m).

macaron, *Microgloma* [Yoldiidae]; Benaim & Absalão, 2011: 10, figs. 14–22.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 54 (21°57'17,5"S, 39°56'01,1"W, 750 m).

Paratype: not found.

Remarks: The paratype IBUFRJ 15297 was not found in the collection.

manati, *Ledella* [Nuculanidae]; Viegas, Benaim & Absalão, 2014: 192, figs. 4–5 as *Ledella* sp. 4, and fig. 9.

Type locality: off Bahia state, Northeast Brazil, REVIZEE Central V sta 504 (14°28'55.20"S, 38°54'03.60"W, 278 m).

Paratype: IBUFRJ 19398 [1 sh], Campos Basin, southeast Brazil, Habitats 7 sta C6 R1 (22°59'00"S, 40°48'25"W, 387.4 m).

nhanduti, *Microgloma* [Yoldiidae]; Benaim & Absalão, 2011: 13, figs. 24–31.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 54 (21°57'17.5"S, 39°56'01.1"W, 750 m).

Paratypes: IBUFRJ 14991 [2v + 1sh], type locality; IBUFRJ 19176 [1sh], Campos Basin, southeast Brazil, Ocean Prof. II sta 64 (22°36'03"S, 40°21'45"W, 750 m).

Remarks: The original publication indicates figures 23–31 as *Microgloma nhanduti*, but figure 23 actually is the type of *Microgloma pusilla* (Jeffreys, 1979).

ouricuri, *Verticordia* [Verticordiidae]; Oliveira & Absalão, 2010: 813, figs. 10–15.

Type locality: Campos Basin, southeast Brazil, Barracuda-Caratinga sta 36 (22°37'54"S, 40°13'36"W, 1000 m).

Holotype: IBUFRJ 18102 [1 v].

paranapuaensis, *Yoldiella* [Yoldiidae]; Benaim & Absalão, 2011: 517, figs. 3A–B, 3E–H.

Type locality: Campos Basin, southeast Brazil, Ocean Prof. I sta 41 (22°39'34,36"S, 40°08'22,27"W, 1200 m).

Paratypes: IBUFRJ 18748 [3 v], Campos Basin, Southeast Brazil, Ocean Prof. I sta 77 (22°36'03,37"S, 39°57'54,68"W, 1650 m).

Remarks: Paratype IBUFRJ 18743 was listed as material examined (non-type). Nevertheless, this lot was clearly cited as a paratype in the legend of figure 3F. Lot IBUFRJ 18748 was listed, simultaneously, as paratype and as material examined (non-type). In both cases, we interpret these lots as paratypes. Paratypes IBUFRJ 18743 and IBUFRJ 18761 were not found in the collection.

The original publication indicates three valves in paratype lot IBUFRJ 18748, however four valves were found in this lot. It is not possible to discern which of the four valves are the actual paratypes.

pipoca, *Lyonsiella* [Lyonsiellidae]; Oliveira & Absalão, 2010: 312, figs. 2H–M.

Type locality: Campos Basin, Southeast Brazil, Albacora Leste sta 29 (22°05'11"S, 39°42'40"W, 1930 m).

Holotype: IBUFRJ 18139 [2 v].

Remarks: This name was originally (accidentally) misspelled *Lyonsiella pipoca*.

spocki, *Ledella* [Nuculanidae]; Viegas, Benaim & Absalão, 2014: 188, figs. 4–5 as *Ledella* sp.1 and Fig. 6.

Type locality: Campos Basin, Southeast Brazil, Habitats 7 sta F6 R2 (22°19'11"S, 40°05'44"W, 403 m).

Paratype: IBUFRJ 19238 [1 sh], Campos Basin, Southeast Brazil, Habitats 7 sta H6 R2 (21°44'21"S, 40°05'18"W, 402 m).

tamandua, *Cuspidaria* [Cuspidariidae]; Absalão & Oliveira, 2011: 133, figs. 57–63.

Type locality: Campos Basin, Southeast Brazil, Ocean Prof. I sta 47 (22°11'04"S, 39°47'04"W, 1650 m).

Holotype: IBUFRJ 18790 [1 v]. Paratype: IBUFRJ 18791 [1 v], Campos Basin, Southeast Brazil, Ocean Prof. I sta 48 (22°11'16"S, 39°43'44"W, 1950 m).

Remarks: The original publication mentioned the type locality twice, as "type locality" and following the information for the holotype lot, with different depths; respectively, 1950 m and 1650 m; the correct one is 1650 m.

wapixana, *Cuspidaria* [Cuspidariidae]; Absalão & Oliveira, 2011: 136, figs. 64–69.

Type locality: Campos Basin, southeast Brazil, Albacora Leste sta 27 (22°09'10"S, 39°44'50"W, 1930 m).

Holotype: IBUFRJ 18805 [2 v].

Class Scaphopoda

eliezeri, *Cadulus* [Gadilidae]; Caetano, Scarabino & Absalão, 2006: 35, figs. 70–71.

Type locality: off Bahia State, Northeast Brazil, REVIZEE sta C76 (15°53'49"S, 38°31'05"W, 66 m).

Type material not located.

Remarks: The holotype IBUFRJ 10810 was not found in the collection. According to the catalog book, there were four specimens previously included in the same lot: one was elected as the holotype and the other three specimens of this lot were designated as paratypes in MNRJ (MNRJ 10571).

nerta, *Cadulus* [Gadilidae]; Caetano, Scarabino & Absalão, 2006: 36, figs. 72–73.

Type locality: off Espírito Santo State, Southeast Brazil, REVIZEE sta A3 (18°58'53"S, 37°51'06"W, 247 m).

Type material not located.

Remarks: Apart from the holotype IBUFRJ 14314, the original publication mentions a second lot also numbered as IBUFRJ 14314 (from a different location), but identified as *Gadila pandionis* (Verrill & S. Smith [in Verrill], 1880). This non-type lot was found in the collection and indeed corresponds to *Gadila pandionis*, which is now renumbered IBUFRJ 21216.

xavante, *Polyschides* [Gadilidae]; Caetano & Absalão, 2005: 3, figs. 1–4.

Type locality: Sancho Bay, Fernando de Noronha Island, Pernambuco State, northwestern Brazil (03°51'S, 32°26'W, 10–15 m).

Holotype: IBUFRJ 14190 [1 sh], type locality.

Checklist

Class Gastropoda

Pickworthiidae

Chrystella multistriata Santos & França, 2008

Nystiellidae

Eccliseogyra maracatu Lima & Christoffersen, 2013

Papuliscala nordestina Lima & Christoffersen, 2013

Cerithiopsidae

Cerithiopsis balaustium Figueira & Pimenta, 2008

Cerithiopsis capixaba Figueira & Pimenta, 2008

Newtoniellidae

Cerithiella atali Fernandes, Garofalo & Pimenta, 2015

Triphoridae

Cheirodonta mizifio Fernandes & Pimenta, 2015

Isotriphora onca Fernandes, Pimenta & Leal, 2013

Isotriphora tigrina Fernandes, Pimenta & Leal, 2013

Metaxia gongyloskymnus Fernandes & Pimenta, 2011

Triphora scylla Fernandes & Pimenta, 2015

Barleeiidae

Caelatura albertoi Santos & Absalão, 2007

Caelatura aulakion Santos & Absalão, 2007

Caelatura barcellosi Absalão & Rios, 1995

Caelatura carinata Santos & Absalão, 2007

Caelatura noxia Santos & Absalão, 2007

Caelatura phrix Santos & Absalão, 2007

Caelatura spirocordata Absalão & Rios, 1995

Caelatura tigrina Absalão, 2002

Caelatura tupi Santos & Absalão, 2007

Ketosia riosi Santos & Absalão, 2006

Ketosia thomei Santos & Absalão, 2006

Protobarleeia pyrrocincta Absalão, 2002

Pseudodiala puncturina Santos & Absalão, 2006

Rissoiidae

Benthonellania coronata Absalão & Santos, 2004

Benthonellania multicostata Absalão & Santos, 2004

Alvania (Punctulum) valeriae Absalão, 1994a

Anabathridae

Pisinna bicincta Santos & Absalão, 2004

Caecidae

Caecum eliezeri Absalão, 1997

Caecum (Elephantulum) massambabense Absalão, 1994b

Caecum metamorphosicum Lima, Santos & Absalão, 2013

Caecum trinidadense Lima, Santos & Absalão, 2013

Tornidae

Ponderinella xacriaba Absalão, 2009

Aclididae

Aclis kanela Absalão, 2009

Eulimidae

Eulimetta atlantica Souza & Pimenta, 2015

Fusceulima saturata Souza & Pimenta, 2014

Buccinidae

Dianthiphos bernardoi (Costa & Gomes, 1998)

Columbellidae

Anachis carloslirai Costa, 1996

Anachis rechonchuda Lima & Guimarães, 2015

Mitrella antares Costa & Souza, 2001

Mitrella cabofrioensis Costa & Souza, 2001

Nassarina thetys Costa & Absalão, 1998

Clathurellidae

Corinnaeturris angularis Figueira & Absalão, 2010b

Conidae

Conus bertarollae Costa & Simone, 1997

Mangeliidae

Benthomangelia enceladus Figueira & Absalão, 2010b

Oenopota carioca Figueira & Absalão, 2010a

Oenopota diabula Figueira & Absalão, 2010a

Oenopota seraphina Figueira & Absalão, 2010a

Raphitomidae

Gymnobela xaioca Figueira & Absalão, 2012
Neopleurotomoides aembe Figueira & Absalão, 2012
Pleurotomella ybessa Figueira & Absalão, 2012
Xanthodaphne pichi Figueira & Absalão, 2012

Terebridae

Terebra spirosulcata Simone & Costa in Simone, 1999

Marginellidae

Bullata analucia Souza & Coover, 2001
Bullata guerrinii Souza & Coover, 2001
Prunum amphorale Souza, 1992

Muricidae

Brasityphis barrosi Absalão & Santos, 2003

Olivellidae

Olivella arionata Absalão, 2000
Olivella klappenbachi Absalão & Pimenta, 2003
Olivella (Anasser) careorugula Absalão & Pimenta, 2003
Olivella (Olivina) hyphala Absalão & Pimenta, 2003

Pyramidellidae

Chrysallida conifera Pimenta, 2012
Eulimella cylindrata Pimenta, Santos & Absalão, 2011
Egila ektopa Pimenta & Absalão, 2004b
Eulimastoma exiguum Pimenta, 2012
Nisiturreis fluminensis (Pimenta & Absalão, 2004a)
Odostomella carceralis Pimenta, Absalão & Alencar, 2000
Oscilla aquilonia Pimenta, Santos & Absalão, 2008
Oscilla notialis Pimenta, Santos & Absalão, 2008
Peristichia lepta Pimenta, Santos & Absalão, 2008
Triptychus litosbathron Pimenta, Santos & Absalão, 2008
Turbonilla aquilonaria Absalão, Santos & Tenório, 2003
Turbonilla aracruzensis Pimenta & Absalão, 2004a
Turbonilla capixaba Pimenta & Absalão, 2004a
Turbonilla farinariae Pimenta & Absalão, 2004a
Turbonilla farroupilha Pimenta & Absalão, 2004a
Turbonilla goytacazi Pimenta & Absalão, 2004a
Turbonilla kaapor Pimenta & Absalão, 2004a
Turbonilla kamayura Absalão, Santos & Tenório, 2003
Turbonilla lepta Pimenta & Absalão, 2004a
Turbonilla macaensis Pimenta & Absalão, 2001
Turbonilla maestratii Pimenta & Absalão, 2004a
Turbonilla megascymna Absalão, Santos & Tenório, 2003
Turbonilla mermeroglaphyra Absalão, Santos & Tenório, 2003
Turbonilla midas Pimenta & Absalão, 2004a
Turbonilla parviscymna Pimenta & Absalão, 2004a
Turbonilla paulinoi Pimenta & Absalão, 2004a
Turbonilla rhachialis Pimenta & Absalão, 2004a
Turbonilla scapulata Pimenta & Absalão, 2004a
Turbonilla tupinamba Pimenta & Absalão, 2002
Turbonilla uaca Pimenta & Absalão, 2004a
Turbonilla virgulinoi Absalão, Santos & Tenório, 2003

Anatomidae

Anatoma brychia Pimenta & Geiger, 2015
Anatoma campense Pimenta & Geiger, 2015

- Anatoma copiosa* Pimenta & Geiger, 2015
Anatoma espiritosantense Pimenta & Geiger, 2015
- Seguenzioidea (unassigned family)
- Adeuomphalus xerente* Absalão, 2009
Brookula megaumbilicata Absalão & Pimenta, 2005
Brookula olearia Absalão & Pimenta, 2005
Brookula proseila Absalão & Pimenta, 2005
Brookula spinulata Absalão, Miyaji & Pimenta, 2001
Granigyra oblatogyra Souza & Pimenta, 2002
Palazzia pankakare Absalão, 2009
Vetulonia parajeffreysi Absalão & Pimenta, 2005
- Calliotropidae
- Calliotropis pataxo* Absalão, 2009
- Chilodontidae
- Mirachelus urueuauau* Absalão, 2009
- Liotiidae
- Macrarenne digitata* McLean, Absalão & Santos Cruz, 1988

Class Bivalvia

- Cuspidariidae
- Myonera kaiwa* Oliveira & Absalão, 2009
Cuspidaria tamandua Absalão & Oliveira, 2011
Cuspidaria wapixana Absalão & Oliveira, 2011
- Protocuspidariidae
- Protocuspidaria (Bidentaria) jarauara* Oliveira & Absalão, 2009
- Lyonsiellidae
- Lyonsiella pipoca* Oliveira & Absalão, 2010
- Verticordiidae
- Verticordia ouricuri* Oliveira & Absalão, 2010
- Nuculanidae
- Ledella manati* Viegas, Benaim & Absalão, 2014
Ledella elfica Viegas, Benaim & Absalão, 2014
Ledella legionaria Viegas, Benaim & Absalão, 2014
Ledella spocki Viegas, Benaim & Absalão, 2014
- Yoldiidae
- Microgloma nhanduti* Benaim & Absalão, 2011
Microgloma macaron Benaim & Absalão, 2011
Yoldiella curupira Benaim & Absalão, 2011
Yoldiella arariboia Benaim & Absalão, 2011
Yoldiella paranapuaensis Benaim & Absalão, 2011
Yoldiella lapernoi Benaim & Absalão, 2011
- Limidae
- Limatula domaneschii* Oliveira & Absalão, 2008

Class Scaphopoda

- Gadilidae
- Cadulus eliezeri* Caetano, Scarabino & Absalão, 2006
Cadulus nerta Caetano, Scarabino & Absalão, 2006
Polyschides xavante Caetano & Absalão, 2005

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