



Article

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Polychaetes from Santa Catarina State (southern Brazil): checklist and remarks on species distribution

PAULO ROBERTO PAGLIOSA^{1,6}, JOÃO GABRIEL DORIA¹, GIORGIA FREITAS ALVES¹, TITO CESAR MARQUES DE ALMEIDA², LUCIANO LORENZI³, SERGIO ANTONIO NETTO⁴ & PAULO DA CUNHA LANA⁵

¹Universidade Federal de Santa Catarina, CFH, Departamento de Geociências, 88040-970, Florianópolis, SC, Brazil.

²Universidade do Vale do Itajaí, Laboratório de Ecologia de Comunidades Aquáticas, 88302-202 Itajaí, SC, Brazil.

E-mail: tito@univali.br

³Universidade da Região de Joinville, Laboratório de Bentologia, 89240-000 São Francisco do Sul, SC, Brazil.

E-mail: llorenzi@ps5.com.br

⁴Universidade do Sul de Santa Catarina, Laboratório de Ciências Marinhas, 8874-900 Tubarão

SC, Brazil. E-mail: sergio.netto@unisul.br

⁵Universidade Federal do Paraná, Centro de Estudos do Mar, 83255-976 Pontal do Sul, PR, Brazil. E-mail: lana@ufpr.br

⁶Corresponding author: E-mail: paulo.pagliosa@ufsc.br

Abstract

This study summarizes taxonomic information on polychaetes from Santa Catarina State, southern Brazil, between 25°57'S and 29°23'S, and provides species distribution records together with information on habitats, based on historical data and novel records from primary surveys. Rarefaction curves showed that most species were found in the shallow sublittoral (to 60 m) rather than in deep sublittoral (>60 m) or estuarine habitats. Altogether, 228 valid species belonging to 141 genera and 44 families were recorded. This inventory adds 141 new records to previous regional reports. We found a shift in occurrence of species when comparing data from the study area with data from both southward (29–33° S) and northward (23–26° S) sites. Few species were shared between consecutive sites: this could be a response to the regional behaviour of the atmosphere and water masses, with a progressive increase in the influence of subantarctic waters and a decrease in the influence of subtropical waters.

Key words: species list, biodiversity, South Atlantic, geographic distribution, Annelida

Introduction

Santa Catarina State, in southern Brazil, has a coastline of 564 km (or 1,874 km if bays and islands are included) and comprises a variety of marine habitats, such as mangrove, salt marsh, seagrass, sandy beaches, reefs, lagoons, bays, channels, inlets, and islands. This area is regarded as the southern distribution limit of many tropical and subtropical marine species, including molluscs (Ruhland & Saalfeld 1987), sponges (Moraes 1987), rhodoliths (Horta *et al.* 2008), diatoms (Corte Real & Aguiar 1971) and mangrove trees (Schaeffer-Novelli *et al.* 2000). This transitional characteristic is partly determined by the shift between subantarctic and subtropical shelf waters (Möller Jr *et al.* 2008), as the Subtropical Convergence reaches its southern limit at Santa Catarina (Campos *et al.* 1996). Seasonal dynamics depend on the variation in intensity and frequency of oceanographic fronts acting on meso- and small-scales (Piola *et al.* 2008). These particulars of the water masses may act as filters or ecological barriers to marine biodiversity and species distribution limits. Nevertheless, how polychaete species respond to such conditions is as yet unknown.

Fritz Müller, who lived on Santa Catarina Island (formerly Desterro) during the second half of the 19th century, was the first naturalist to study polychaetes in Brazil. He described 13 new polychaete species (Müller 1858). After more than 150 years, all species described by Müller remain valid (Read & Fauchald 2011). Unfortunately, his pioneering study was discontinued and, until recently, most of the current information on the regional polychaete

fauna was limited to site-specific surveys. The first species checklist focused on the northern areas of Santa Catarina State and recorded 48 species (Almeida *et al.* 2012). An additional 87 records for the study area were provided in the catalogue of polychaetes from the Brazilian coast (Amaral *et al.* 2010).

Research on polychaete biodiversity has greatly increased in recent years in South America, mainly in Brazil (Lana *et al.* 2009). Nevertheless, a lack of standard checklists greatly complicates broader data analyses. The present checklist summarizes historical, recently published, and new records of polychaetes from throughout Santa Catarina State. In addition, we compare the distribution patterns of species in the study area and sites both to the south (29–33° S) and north (23–26° S). We also highlight the biogeographic importance of this transitional area in explaining polychaete diversity along the southwestern Atlantic coast.

Material and methods

All polychaete records from published papers, theses, dissertations, monographs, and unpublished technical reports covering the area from 25°57' S to 29°23' S off the southwestern Atlantic coast (Fig. 1) were reviewed. Furthermore, new unpublished data from the area surrounding Santa Catarina Island were incorporated. Whenever available, habitat type (mangrove, salt marsh, seagrass, sandy beaches, estuarine beaches, tidal flat, reefs and rocky coastline, lagoons, bays, the inner continental shelf—up to 30 m in depth, middle continental shelf—from 31 to 60 m, outer continental shelf—from 61 to 129 m, continental slope—more than 130 m), as well as depth range, site coordinates, and museum deposit numbers were included for each species. The list of museums, institutions, and location where species are deposited is shown in Table 1.

TABLE 1. Museum and institutions where species are deposited.

| Abbreviation | Museum /Institution/Location |
|-----------------------|---|
| MHN-BPO and ZUEC POL | Museu de Zoologia, Universidade Estadual de Campinas, Brazil |
| MCEM-BPO and MCBM-BPO | Museu do Centro de Estudos do Mar, Universidade Federal do Paraná, Brazil. This collection was moved to Museu de Zoologia, Brazil |
| IBUFRJ | Instituto de Biologia da Universidade Federal do Rio de Janeiro |
| ZMB | Museum für Naturkunde, Institut für Systematische Zoologie (formerly Zoologisches Museum, Universität Humboldt), Germany |
| MPW | Muzeum Przyrodnicze Wrocław, Uniwersytetu Wrocławskiego, Wrocław, Poland |
| HZM | Zoologisches Institut und Zoologisches Museum, Universität Hamburg, Germany |
| USNM | National Museum of Natural History, Smithsonian Institution, United States of America |
| JAL-GONI | Museo del Centro de Investigaciones Biológicas de Baja California Sur, Mexico. This collection was moved to the “Colección Poliquetologica de la Universidad Autónoma de Nuevo León (UANL)” |

Families, genera, and species names were arranged in alphabetical order to facilitate the search for a given taxon. Synonym lists are not exhaustive, but focus on synonyms available in the current literature or listed in the *World Polychaeta Database* (Read & Fauchald 2011). Whenever species names in published records were believed to be wrong or inadequate, we highlighted the need for revisionary work. New species described in unpublished theses were included in the list (as sp. A, sp. B, etc.) with remarks on the need for formal publication.

Habitat types were classified as estuarine, shallow sublittoral (intertidal zone up to 60 m depth), and deep sublittoral (>60 m depth). Using all available data for each habitat, we produced individual-based taxon-sampling curves to calculate the standardized number of species for all habitats. Rarefaction analysis considered the least-sampled habitat in order to allow habitat comparisons (Sanders 1968; Gotelli & Cowell 2001). Individual-based rarefaction curves were constructed using the analytical formula available in EstimateS Version 8.2 (Colwell 2009).

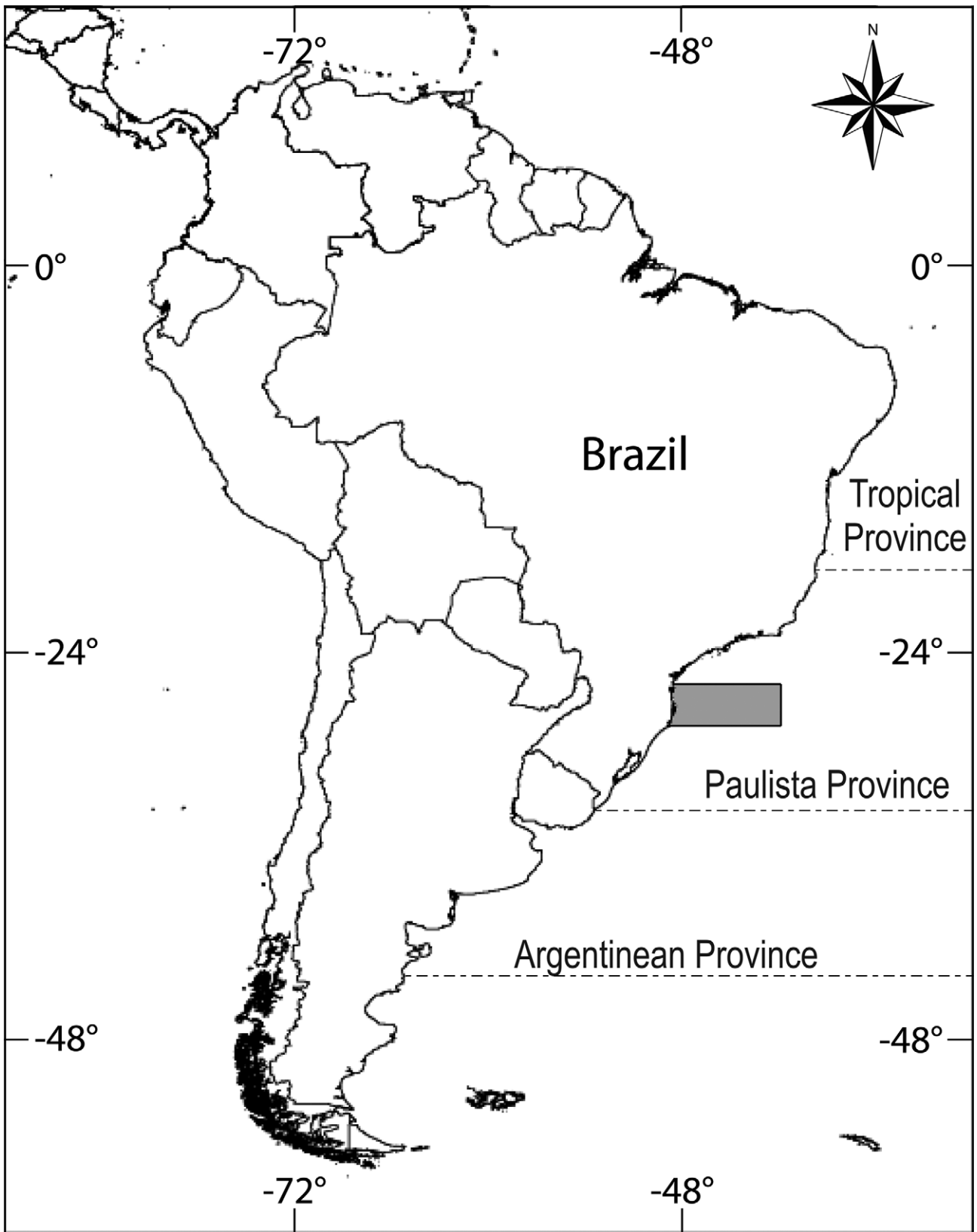


FIGURE 1. Map showing geographical range studied (grey square).

Results and discussion

The geographic range studied extended from 25°57' to 29°23' S and from 40°32' to 49°29' W (Fig. 1). Polychaete species were reported at 255 coordinates or sampling points. Using only species counts without replacement from the same publication, and without considering spatial range sampled in each study, 635 records were available from 35 references published earlier than 2000. In the last decade, a further 437 records were available from 52 references. Most of the recent reports were provided by the five regional marine research institutions (Universidade Federal de Santa Catarina, Universidade Federal do Paraná, Universidade do Vale do Itajaí, Universidade do Sul de Santa Catarina and Universidade da Região de Joinville). Most studies dealt with ecological (55%) and taxonomical or phylogenetic (45%) issues.

There were fewer samples from the shallow sublittoral (68) than in the deep sublittoral or estuarine habitats (82 and 89, respectively). Despite this, individual-based taxon-sampling curves showed that shallow and deep sublittoral curves did not differ significantly (Fig. 2). There were approximately two-fold more species in deep and shallow sublittoral than in estuarine habitats, according to the rarefaction curve of the deep sublittoral end-curve of 219 individuals (the point at which individual representation was equivalent to that of the least effectively sampled habitat). The number of estuarine species tended to stabilize while the deep and shallow sublittoral numbers increased. These results clearly indicate a need to increase the sampling effort in order to fully record the diversity of polychaetes in more speciose sublittoral habitats. Conversely, the number of species appeared to be well documented in the less speciose estuarine habitats.

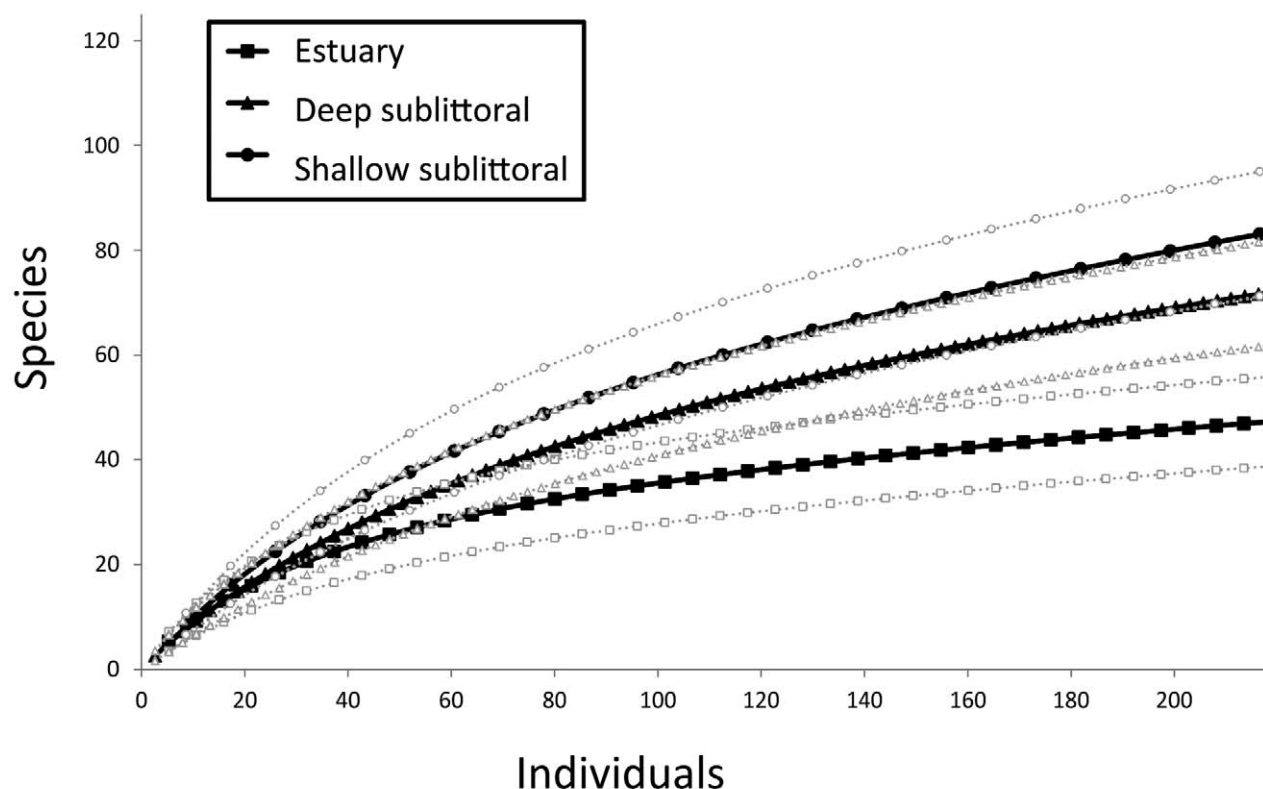


FIGURE 2. Individual-based rarefaction curves of the polychaetes data from estuarine, shallow sublittoral and deep sublittoral habitats from the coast of Santa Catarina, southern Brazil (25°57'S–29°23'S). Dotted lines denote 95% confidence intervals.

We recorded 228 species belonging to 141 genera and 44 families of polychaetes from Santa Catarina State (Appendix 1). The families Onuphidae with 25 species in ten genera and Spionidae with 22 species in 13 genera were the most diverse. Other families were only scarcely represented: 16 by only one species, and 10 by two species. The most speciose genera were *Lumbrineris* (Lumbrineridae) with eight species, *Magelona* (Magelonidae) with seven species, and *Scoloplos* (Orbiniidae), *Eunice* (Eunicidae) and *Kinbergonuphis* (Onuphidae) with six species each. The inventory included 141 new records from previous reports (Amaral *et al.* 2010; Almeida *et al.* 2012) in the study area.

A qualitative comparison of polychaete occurrence patterns in Santa Catarina and the adjacent areas to the north and the south is shown in Table 2. A total of 717 species based on 1099 records (species count without replacement in the same reference and without considering the spatial range of the sampling for each study) are currently known from the northern area, at approximately 23–26° S (Amaral & Morgado 1999; Lana *et al.* 2006; Amaral *et al.* 2010). A total of 200 species based on 300 records are known from the southern area, located at approximately 29–33° S (Orensanz & Gianuca 1974; Amaral *et al.* 2010). Three species, *Aphrodita longicornis* (Aphroditidae), *Nicon moniloceras* (Nereididae), and *Litocorsa stremma* (Pilargidae), which were previously known only from the southern region, have now been reported from Santa Catarina. A further 78 species previously known only from the northward sites have now been reported from the current study area. It is likely that most of these regional additions are the result of improved knowledge of the regional polychaete fauna rather than recent dispersal events. Of all the listed species, 12 were reported as occurring only from Santa Catarina (see notes in Appendix 1), but more data are necessary before any consistent discussion of regional endemism can begin.

TABLE 2. Summary of the polychaete data from different latitudinal ranges in Brazilian coast.

| Taxon level | Latitude | | | |
|-------------|------------------------|-----------------------------|------------------------|---|
| | 23°S–26°S ¹ | 26°S–29°S (present data) | 29°S–33°S ¹ | 5°N–32°S ¹ (entire Brazilian coast) |
| Family | 52 | 44 | 44 | 63 |
| Genera | 304 | 141 | 127 | 415 |
| Species | 717 | 228 | 200 | 1088 |

¹ Source: Amaral *et al.* (2010).

Only 24% of species were shared between the study area and both southward and northward sites. Moving southwards, there was a decrease in species numbers and significant changes in species composition. Approximately 69% of species that occurred in the northward sites did not occur in the studied area, and about 54% of species listed for the Santa Catarina coast did not occur in the southward sites. Even though the number of studies, as well as the sampling effort, was uneven between sites, changes in species composition could be a response to the progressive increase in the influence of subantarctic waters and a decrease in the influence of subtropical waters.

The Paulista biogeographical province was proposed by Palacio (1982) as an addition to the chart of southwestern Atlantic provinces based on the isocrymals at 20°C and 23°C, corresponding to the mean temperature of water for the coldest days of the year (Dana 1853, based on Coral and Mollusca), and the distribution of animals (Coelho & Ramos 1972, Crustacea; Palacio 1982, Foraminifera, Porifera, Octocorallia, Mollusca, Crustacea, Echinodermata, and Pisces). Since then, many authors have attempted to use polychaetes either as a whole (Lana 1987) or selected polychaete families—Spionidae (Bolivar & Lana 1988), Lumbrineridae (Camargo & Lana 1994) and Nereididae (Santos & Lana 2000)—to test the validity of this biogeographical category. Our current data, using 44 polychaetes families, indicate that the study area and its surroundings should in fact be considered a transitional zone between the Tropical and the Argentinean provinces (Balech & Ehrlich 2008). Here we have managed to detail, at a smaller spatial scale, the progressive change of species within the province. Based on our results, we suggest that the Paulista province as a whole should be considered a hotspot of polychaete biodiversity in the western South Atlantic, occupying a transitional zone between subtropical and warm temperate regions, and maintaining a high endemic component (Lana 1987). As such, this polychaete baseline-data from Santa Catarina coast will allow for a more accurate interpretation of polychaete diversity in the Western South Atlantic Ocean.

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References

- Almeida, B.P. (2007) *Varição espaço-temporal da macrofauna bentônica nas praias estuarinas Bonita e Figueira na baía da Babitonga (Santa Catarina, Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 64 pp.
- Almeida, T.C.M. & Vivan, J.M. (2011) Macrobenthic associations in a South Atlantic Brazilian enclosed bay: the historical influence of shrimp trawling. *Marine Pollution Bulletin*, 62, 2190–2198.
- Almeida, T.C.M., Vivan, J.M., Pessler, B.H. & Lana, P.C. (2012) Polychaetes of the North-Central Santa Catarina state, Brazil. *Check List*, 8, 204–20.
- Alves, E.S. (2004) *O efeito da morfodinâmica praial e suas variações temporais de curto e médio prazo sobre a macrofauna bentônica de três praias arenosas expostas de Santa Catarina, Brasil*. Undergraduate Thesis, Universidade de São Paulo, Brazil, 260 pp.
- Alves, G.F. (2007) *Variabilidade temporal da macrofauna em local com lançamento de efluentes domésticos na Baía Norte, Município de São José, SC*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 55 pp.
- Alves, G.F. (2011) *O papel de Diopatra sp. (Polychaeta) na estrutura e no metabolismo da comunidade bêntica em ambiente marinho raso*. Masters Thesis, Universidade Federal de Santa Catarina, Brazil, 59 pp.
- Amaral, A.C.Z. (1980) Breve caracterização dos gêneros da família Capitellidae Grube (Annelida, Polychaeta) e descrição de *Nonatus longilineus* gen.sp.nov. *Boletim do Instituto Oceanográfico*, 29, 99–106.
- Amaral, A.C.Z. & Morgado, E.H. (1998) Biodiversidade da macrofauna Bentônica de Praias da Costa Brasileira. *Publicações da Academia de Ciências do Estado de São Paulo*, 5, 99–112.
- Amaral, A.C.Z. & Morgado, E.H. (1999) Filo Annelida - Classe Polychaeta. In: Migotto, A.E. & Tiago, C.G. (Eds.), *Biodiversidade do estado de São Paulo, Síntese do Conhecimento ao Final do Século XX, Vol. 3. Invertebrados Marinhos*. FAPESP, São Paulo, Brazil, pp. 161–175.
- Amaral, A.C.Z., Nallin, S.A.H. & Steiner, T.M. (2010) Catálogo das espécies de Annelida Polychaeta do Brasil. Available from http://www.ib.unicamp.br/projbiota/bentos_marinho/Catalogo%20Polychaeta_Amaral_et_al_2010.pdf (accessed 21 July 2010).
- Amaral, A.C.Z. & Nonato, E.F. (1982) *Anelídeos poliquetos da costa brasileira. 3. Aphroditidae e Polynoidae*. CNPq, Coordenação Editorial, Brasília, Brazil, 46 pp.
- Amaral, A.C.Z. & Nonato, E.F. (1984) *Anelídeos poliquetos da costa brasileira. 4. Polydoridae, Pholoidae, Sigalionidae e Eulepethidae*. CNPq, Coordenação Editorial, Brasília, Brazil, 54 pp.
- Amaral, A.C.Z. & Nonato, E.F. (1994) Anelídeos poliquetos da costa Brasileira. 5. Pisionidae, Chrysopetalidae, Amphinomidae e Euprosinidae. *Revista Brasileira de Zoologia*, 11, 361–390.
- Amaral, A.C.Z. & Rossi-Wongtschowski, C.L.D.B. (2004) *Biodiversidade Bentônica da Região Sudeste-Sul do Brasil - Plataforma Externa e Talude Superior. Série Documentos Revizee: Score-Sul*. Instituto Oceanográfico – USP, São Paulo, Brazil, 216 pp.
- Attolini, F.S. (2002) *Padrões de distribuição de poliquetos macrobentônicos na região de plataforma externa e talude superior entre Cabo Frio (RJ) e Cabo de Santa Marta (SC), costa sudeste do Brasil*. PhD Thesis, Universidade de São Paulo, Brazil, 115 pp.
- Balech, E. & Ehrlich, M.D. (2008) Esquema biogeográfico del mar Argentino. *Revista de Investigación y Desarrollo Pesquero*, 19, 45–75.
- Becker, F. (2009) *Varição espaço-temporal da macrofauna bentônica em dois perfis na Baía da Babitonga (Santa Catarina, Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 63 pp.
- Biz, D.M. (2008) *Influência de marismas sobre a estrutura da fauna bêntica da Lagoa Santo Antônio, Sistema Estuarino de Laguna, SC*. Undergraduate Thesis, Universidade do Sul de Santa Catarina, Brazil, 61 pp.
- Blake J.A. (2009) Redescription of *Capitella capitata* (Fabricius) from West Greenland and designation of a neotype (Polychaeta, Capitellidae). *Zoosymposia*, 2, 55–58.
- Blankensteyn, A. (1988) *Terebellidae e Trichobranchidae (Annelida: Polychaeta) da costa sudeste do Brasil (24-27S)*. Masters Thesis, Universidade Federal do Paraná, Brazil, 129 pp.
- Blankensteyn, A., Almeida, F.S., Guimarães, C.F., Bouzon, J.B., Weiss, L.J., Camargo, L.M., Telles, S. & Freire, A.S. (2003) A macrofauna bentônica do banco de algas calcárias da Reserva Biológica Marinha do Arvoredo, SC, Brasil. 2º *Simpósio de Áreas Protegidas Conservação no Âmbito do Cone Sul*.
- Blankensteyn, A. & Moreno, T.R. (1999) Nova ocorrência de *Nicolea venustula* (Montagu) (Polychaeta, Terebellidae) na costa sul do Brasil. *Revista Brasileira de Zoologia*, 16, 319–322.
- Boehs, G., Blankensteyn, A., Alves, R., Sabry, R.C., Carvalho, F.G., Domingos, J.A.S. & Carvalho Filho, J.W. (2003) Macrofauna bêntica de uma planície de maré da Enseada de Ratoles, Ilha de Santa Catarina, Brasil. *Biotemas*, 16, 45–65.
- Bolivar, G.A. (1990) *Orbiniidae, Paraonidae, Heterospionidae, Cirratulidae, Capitellidae, Maldanidae, Scalibregmidiae e Flabelligeridae (Annelida: Polychaeta) da Costa Sudeste do Brasil (22°57'S–27°20'S)*. PhD Thesis, Universidade Federal do Paraná, Brazil, 191 pp.
- Bolivar, G.A. & Lana, P.C. (1988) Padrões de distribuição de Spionidae e Magelonidae (Annelida: Polychaeta) do litoral do Estado do Paraná. *Anais do Seminário Regional de Ecologia*, 6, 247–267.
- Brasil, A.C.S. (2003) *Filogenia de Magelonidae Cunningham & Ramage, 1888 (Annelida – Polychaeta) com base na morfologia externa*. PhD Thesis, Universidade Federal do Paraná, Brazil, 105 pp.

- Broocke, N.B.V.D. (2008) *Variação espacial e temporal da macrofauna bentônica na Praia do Molhe, São Francisco do Sul, Santa Catarina (Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 57 pp.
- Camargo, M.G. & Lana, P.C. (1994) Lumbrineridae (Annelida: Polychaeta) da costa sul e sudeste do Brasil. III. Padrões regionais e zoogeográficos de distribuição. *Nerítica*, 8, 21–30.
- Camargo, M.G. & Lana, P.C. (1995a) Lumbrineridae (Polychaeta: Eunicomorpha) da costa sul e sudeste do Brasil. I. Lysarete, Arabelloneris, Lumbrineriopsis, Lumbrinerides, Paraninoe e Ninoo. *Iheringia, Série Zoologia*, 79, 77–91.
- Camargo, M.G. & Lana, P.C. (1995b) Lumbrineridae (Polychaeta: Eunicomorpha) da costa sul e sudeste do Brasil. II. Lumbrineris. *Iheringia, Série Zoologia*, 79, 93–120.
- Campos, E.J.D., Ikeda, Y., Castro, B.M., Gaeta, S.A., Lorenzetti, J.A. & Stevenson, M.R. (1996) Experiment studies circulation in the Western South Atlantic. *Eos, Transactions, American Geophysical Union*, 77, 253–259.
- Coelho, C.A. (1992) *Levantamento preliminar e distribuição de anelídeos poliquetos do mesolitoral do Pontal da Daniela, Ilha de Santa Catarina, SC*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 41 pp.
- Coelho, P.A. & Ramos, M.A. (1972) A contribuição e a distribuição da fauna de decápodos do litoral leste da América do Sul entre as latitudes 5°N e 39°S. *Trabalhos Oceanográficos da Universidade Federal de Pernambuco*, 12, 133–236.
- Colwell, R.K. (2009) EstimateS, Version 8.2: Statistical Estimation of Species Richness and Shared Species from Samples (Software and User's Guide). Available from <http://purl.oclc.org/estimates> (accessed 20 December 2011).
- Corte Real, M. & Aguiar, W. (1971) Diatomáceas da Ilha de Santa Catarina e regiões vizinhas. 1 - Baías Norte e Palhoça. *Iheringia, Série Botânica*, 15, 53–73.
- Costa, E.O. (2007) *Distribuição espacial e temporal da macrofauna bentônica na Praia Grande (SC – Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 61 pp.
- Dana, J.D. (1853) On an isothermal oceanic chart, illustrating the geographical distribution of marine animals. *American Journal of Science and Arts*, ser. 2, 16, 153–167.
- de Leon Gonzalez, J.A. (1988) Redescrición y designación del neotipo de *Glycinde multidentis* Müller, 1858. *Revista de Biología Tropical*, 36, 413–416.
- Domingos, A.M. (2010) *A macrofauna benthica como indicadora ambiental: uma análise ecológica do sistema estuarino de Laguna (Santa Catarina, Brasil)*. Undergraduate Thesis, Universidade do Sul de Santa Catarina, Brazil, 73 pp.
- Egres, A.G. (2008) *Variação espaço-temporal da macroinfauna bentônica na praia estuarina do Forte – Santa Catarina*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 57 pp.
- Elias, R., Bremec, C.S., Lana, P.C. & Orensanz, J.M. (2003) Opheliidae (Polychaeta) from the Southwestern Atlantic ocean, with the description of *Travisia amadoi* n.sp., *Ophelina gaucha* n.sp., and *Ophelina alata* n. sp. *Hydrobiologia*, 496, 75–85.
- Fonseca, G. & Netto, S.A. (2006) Shallow sublittoral benthic communities of the Laguna estuarine system, South Brazil. *Brazilian Journal of Oceanography*, 54, 41–54.
- Francisco, A.S. (2008) *Relações entre metais pesados do sedimento e as comunidades benthicas no Complexo Lagunas Sul Catarinense*. Undergraduate Thesis, Universidade do Sul de Santa Catarina, 51 pp.
- Galluci, F. & Netto, S.A. (2004) Effects of the passage of cold fronts over a coastal site: an ecosystem approach. *Marine Ecology Progress Series*, 281, 79–92.
- García-Garza, M.E., Harris, L.H. & de León-González, J.A. (2012) Redescription of *Notomastus hemipodus* Hartman, 1945 and *N. tenuis* Moore, 1909 (Polychaeta: Capitellidae). *Proceedings of the Biological Society of Washington*, 125, 1–11.
- Glasby, C.J. (1999) The Namanereidinae (Polychaeta: Nereididae). Part 1, Taxonomy and phylogeny. *Records of the Australian Museum*, Suppl. 25, 1–129.
- Goetsch, G.P. (2005) *Variação espacial e temporal da macrofauna bentônica em bancos lodosos de Mytella charruana na Baía da Babitonga (Santa Catarina)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 66 pp.
- Gotelli, N.J. & Colwell, R.K. (2001) Quantifying biodiversity: procedures and pitfalls in the measurement and comparison of species richness. *Ecology Letters*, 4, 379–391.
- Gruet, Y. & Lana, P.C. (1988) Remarks on the opercular paleae of *Sabellaria bella* Grube, 1870 and *Sabellaria bellis* Hansen, 1882 (Sabellariidae: Polychaeta) from the southeast coast of Brazil. *Nerítica*, 3, 31–36.
- Horta, P.A., Salles, J.P., Bouzon, J., Scherner, F., Cabral, D., Bouzon, Z.L., Zanetti, G. & Alencar, J.R. (2008) Composição e estrutura do fitobentos do infralitoral da Reserva Biológica Marinha do Arvoredo, Santa Catarina, Brasil: implicações para a conservação. *Oecologia Brasiliensis*, 12, 51–57.
- Jesus, L.W. (2007) *Distribuição espacial da macrofauna benthica da Lagoinha do Leste, Ilha de Santa Catarina, SC, Brasil*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 34 pp.
- Kirtley, D.W. (1994) *A review and taxonomic revision of the family Sabellariidae Johnston, 1865 (Annelida; Polychaeta)*. Volume Science Series number 1. Sabecon Press, USA, pp. 1–223.
- Knight-Jones, P. & Knight-Jones, E.W. (1991) Ecology and distribution of Serpuloidea (Polychaeta) round South America. *Ophelia*, Suppl. 5, 579–586.
- Lana, P.C. (1984) *Anelídeos poliquetas errantes do Estado do Paraná*. PhD Thesis, Universidade de São Paulo, Brazil, 110 pp.
- Lana, P.C. (1986) Nephthyidae (Annelida; Polychaeta) do litoral do Estado do Paraná (Brasil). *Nerítica*, 1, 135–154.
- Lana, P.C. (1987) Padrões de distribuição geográfica dos poliquetas errantes (Annelida; Polychaeta) do estado do Paraná. *Ciência e Cultura*, 39, 1060–1063.
- Lana, P.C. (1991a) Sigalionidae (Polychaeta) from the Coast of Paraná (SE Brazil) and adjacent areas. *Ophelia*, Suppl. 5, 121–132.

- Lana, P.C. (1991b) Onuphidae (Annelida: Polychaeta) from southeastern Brazil. *Bulletin of Marine Science*, 48, 280–295.
- Lana, P.C., Amaral, A.C.Z., Souza, J.R.B., Ruta, C., Paiva, P.C., Brasil, A.C.S., Santos, C.S.G. & Garraffoni, A.R.S. (2009) Polychaeta. In: Rocha, R.M. & Boeger, W.A. (Orgs.), *Estado da arte e perspectivas para a zoologia no Brasil*. Editora da UFPR, Curitiba, pp. 91–100.
- Lana, P.C. & Bremec, C. (1994) Sabellariidae (Annelida: Polychaeta) from South America. *Memoires du Museum National d'Histoire Naturelle*, 162, 211–222.
- Lana, P.C., Santos, C.S.G., Garraffoni, A.R.S., Oliveira, V.M. & Radashevsky, V. (2006) Checklist of polychaete species from Paraná State (Southern Brazil). *Check List*, 2, 30–63.
- Lana, P.C. & Sovierzoski, H.H. (1987) *Neanthes bruaca* sp. n. e *Nereis broa* sp. n. (Nereidae: Polychaeta) da costa sudeste do Brasil. *Arquivos de Biologia e Tecnologia*, 30(4), 677–688.
- Marenzi, A.W.C. (2002) *Influência do Cultivo de Mexilhões sobre o Habitat Bentônico na Enseada da Armação do Itapocoroy, Penha, SC*. Undergraduate Thesis, Universidade Federal de São Carlos, Brazil, 120 pp.
- Meurer, A.Z. & Netto, S.A. (2007) Seasonal dynamics of benthic communities in a shallow sublittoral site of Laguna Estuarine System (South, Brazil). *Brazilian Journal of Aquatic Science and Technology*, 11, 53–62.
- Möller Jr, O.O., Piola, A.R., Freitas, A.C. & Campos, E.D.J. (2008) The effects of river discharge and seasonal winds on the shelf off southeastern South America. *Continental Shelf Research*, 28, 1607–1624.
- Moraes, B.M. (1987) Ocorrência de poríferos na zona de maré da Ilha João da Cunha, Porto Belo, SC, Brasil (Porífera, Demospongiae) I. *Iheringia, Série Zoologia*, 66, 129–139.
- Müller, F. (1858) Einiges über die Anneliden Fauna der Insel Sta. Catarina an der Brasilianischen Küste. *Archiv Für Naturgeschichte*, 24, 211–220.
- Netto, S.A., Domingos, A.M. & Kurtz, M.N. (2012) Effects of artificial breaching of a temporarily open/closed estuary on benthic macroinvertebrates (Camacho Lagoon, Southern Brazil). *Estuaries and Coasts*, 35, 1069–1081.
- Netto, S.A. & Galluci, F. (2003) Meiofauna and macrofauna communities in a mangrove from the Island of Santa Catarina, South Brazil. *Hydrobiologia*, 505, 159–170.
- Netto, S.A., Pagliosa, P.R., Fonseca, A., Galluci, F., Fonseca, G.F.C. & Souza, R.S. (2007) Interações entre o microfitobentos, meiofauna e macrofauna (Praia Comprida, Santa Catarina). *Brazilian Journal of Ecology*, 11, 78–82.
- Netto, S.A. & Pereira, T.J. (2008) Benthic community response to a passive fishing gear in a coastal lagoon (South Brazil). *Aquatic Ecology*, 43, 521–538.
- Nogueira, J.M.M., Harris, L., Hutchings, P. & Fukuda, M.V. (2011) Four terebellines (Polychaeta, Terebellidae) with problematic taxonomic histories. *Zootaxa*, 2995, 1–26.
- Nonato, E.F. (1963) *Poecilochaetus australis* sp. nova. (Annelida, Polychaeta). *Neotropica*, 9, 17–26.
- Nonato, E.F. (1981) *Contribuição ao conhecimento dos anelídeos poliquetas bentônicos da Plataforma Continental Brasileira, entre Cabo Frio e o Arroio Chuí*. Universidade de São Paulo, Brazil, 246 pp.
- Oortman, M.S. (2010) *A macrofauna bentônica de fundos inconsolidados adjacentes a uma maricultura na Baía da Babitonga, Santa Catarina (Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 66 pp.
- Orensanz, J.M. & Gianuca, N.M. (1974) Contribuição ao conhecimento dos anelídeos poliquetas do Rio Grande do Sul, Brasil. I. Lista sistemática preliminar e descrição de três novas espécies. *Comunicações do Museu de Ciências e Tecnologia da PUCRS*, 4, 1–37.
- Otegui, M.B.P., Blankensteyn, A. & Pagliosa, P.R. (2012) Population structure, growth and production of *Thoracophelia furcifera* (Polychaeta: Opheliidae) on a sandy beach in southern Brazil. *Helgoland Marine Research*. In press.
- Owczarzak, I.A. (2009) *Ocorrência e uso do Hemipodia californiensis (Hartman 1938) (Polychaeta Glyceridae) em praias arenosas de três localidades da Ilha de Santa Catarina, Brasil*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 28 pp.
- Ozorio, C.P. & Poli, C.R. (1986) Observações comparativas preliminares sobre a fauna bêntica do Rio Itacorubi e viveiros de cultivo adjacentes. *Anais do 1º Seminário sobre ciências do mar da UFSC*. pp. 77–83.
- Pagliosa, P.R. (2005) Another diet of worms: the applicability of polychaete feeding guilds as a useful conceptual framework and biological variable. *Marine Ecology*, 26, 246–254.
- Pagliosa, P.R. (2006) Distribuição da macrofauna bêntica do entremarés ao sublittoral em uma praia estuarina da Baía da Babitonga, Sul do Brasil. *Biotemas*, 19, 25–33.
- Pagliosa, P.R. & Barbosa, F.A.R. (2006) Assessing the environment–benthic fauna coupling in protected and urban areas of southern Brazil. *Biological Conservation*, 129, 408–417.
- Pagliosa, P.R., Cantor, M., Scherner, F., Otegui, M.B.P., Lemes-Silva, A.L., Martins, C.D.L, Alves, J.F., Fonseca, A. & Horta Jr, P.A. (2012) Influence of piers on functional groups of benthic primary producers and consumers in the channel of a subtropical coastal lagoon. *Brazilian Journal of Oceanography*, 60, 65–73.
- Palacio, F.J. (1982) Revisión zoogeográfica marina del sur del Brasil. *Boletim do Instituto Oceanográfico*, 31, 69–92.
- Perkins, T.H. (1980) Review of species referred to *Ceratonereis mirabilis*, and descriptions of new species of *Ceratonereis*, *Nephtys*, and *Goniada* (Polychaeta). *Proceedings of the Biological Society of Washington*, 93, 1–49.
- Piola, A.R., Möller Jr, O.O., Guerrero, R.A. & Campos, E.J.D. (2008) Variability of the subtropical shelf front off eastern South America: winter 2003 and summer 2004. *Continental Shelf Research*, 28, 1639–1648.
- Pontinha, V.A. (2009) *Diagnóstico da saúde da ostra Crassostrea gigas (Thunberg, 1793) cultivada em Florianópolis/SC*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 53 pp.

- Radashevsky, V.I. & Lana, P.C. (2009) *Laonice* (Annelida: Spionidae) from South and Central America. *Zoosymposia*, 2, 265–295.
- Read, G. & Fauchald, K. (2011). *World Polychaeta Database*. Available from <http://www.marinespecies.org/polychaeta/> (accessed on 7 December 2011).
- Rohr, T.E. & Almeida, T.C.M. (2006) Anelídeos poliquetas da plataforma continental externa ao largo do estado de Santa Catarina – Brasil: situação de verão e inverno. *Brazilian Journal of Aquatic Science and Technology*, 10, 41–50.
- Ruhland, J. & Saalfeld, K. (1987) Ocorrência e distribuição de algumas espécies de moluscos marinhos da Ilha de Santa Catarina, SC, Brasil. *Iheringia, Série Zoologia*, 66, 83–94.
- Rullier, F. & Amoureux, L. (1979) Annélides Polychaètes. *Annales de l'Institut Océanographique*, 55, 145–206.
- Sabry, R.C. & Magalhães, A.R.M. (2005) Parasitas em ostras de cultivo (*Crassostrea rhizophorae* e *Crassostrea gigas*) da Ponta do Sambaqui, Florianópolis, SC. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia*, 57 (Suppl. 2), 194–203.
- Salazar-Vallejo, S.I. (1990) Redescription of *Sigambra grubii* Müller, 1858 and *Hermundura tricuspis* Müller, 1858 from Brazil and designation of neotypes (Polychaeta: Pilargidae). *Journal of Natural History*, 24, 507–517.
- Sanders, H. (1968) Marine benthic diversity: a comparative study. *The American Naturalist*, 102, 243–282.
- Santos, C.S.G. (2001) *Revisão e análise cladística da subfamília Gymnonereidinae Banse, 1977 (Nereididae Polychaeta)*. Phd Thesis, Universidade Federal do Paraná, Brazil, 139 pp.
- Santos, C.S.G. & Lana, P.C. (2000) Nereididae (Annelida, Polychaeta) da costa Nordeste do Brasil. I. Padrões regionais e zoogeográficos de distribuição. *Iheringia. Série Zoologia*, 88, 181–188.
- Santos, M.F.L. (2000) Estrutura e dinâmica da comunidade da macrofauna bêntica da enseada de Ratonés. In: Soriano-Sierra, E.J. (Coord.), *Conhecimento e Gerenciamento da Microbacia do Rio Ratonés e seu Manguezal. Relatório Final: Volume I*. Núcleo de Estudos do Mar - Universidade Federal de Santa Catarina. Florianópolis, Brazil, pp. 1–43.
- Schaeffer-Novelli, Y., Cintrón-Molero, G., Soares, M.L.G. & De-Rosa, T. (2000) Brazilian mangroves. *Aquatic Ecosystem Health and Management*, 2, 561–570.
- Silva, J.Z.P. (2002) *Análise filogenética de espécies selecionadas do gênero Eunice (Eunicidae, Polychaeta)*. Masters Thesis, Universidade Federal do Rio de Janeiro, Brazil, 52 pp.
- Silva, P.S.R. (2004) *Influência de diferentes escalas de perturbação física no sedimento sobre a macrofauna bêntica da Lagoa da Conceição, Ilha de Santa Catarina – SC*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 52 pp.
- Souza, R.S. (2004) *Variação Espaço-Temporal das Associações Bênticas Macrofaunais da Lagoa da Conceição, Florianópolis, SC*. Undergraduate Thesis, Universidade Federal de Santa Catarina, Brazil, 65 pp.
- Souza, R.S. (2008) *Efeitos dos cultivos de bivalves (Mollusca, Bivalvia) sobre as associações bênticas macrofaunais na Baía da Ilha de Santa Catarina (SC), Brasil*. Masters Thesis, Universidade Federal do Paraná, Brazil, 114 pp.
- Steiner, T.M. (2005) *Estudo taxonômico da Família Onuphidae (Annelida, Polychaeta) das Regiões Sudeste e Sul do Brasil*. PhD Thesis, Universidade de São Paulo, Brazil, 210 pp.
- Tártari, F.T. (2006) *Influência da ocupação urbana na estrutura da macrofauna bêntica de praias arenosas de Laguna, SC*. Undergraduate Thesis, Universidade do Sul de Santa Catarina, Brazil, 58 pp.
- Temperini, M.T. (1981) *Sistemática e distribuição dos poliquetos errantes da Plataforma Continental brasileira entre as latitudes de 23°05'S e 30°00'S*. PhD Thesis, Universidade de São Paulo, Brazil, 89 pp.
- Tommasi, L.R., Ieno, A. & Boschini-Filho, J. (1972) Sobre a distribuição de *Aphrodita magna* Treadwell, 1925 (Polychaeta, Aphroditae). *Revista Brasileira de Biologia*, 32, 47–51.
- Vieira, J.V. (2007) *Variação espacial da macrofauna bêntica no sublitoral consolidado da Baía da Babitonga (Santa Catarina, Brasil)*. Undergraduate Thesis, Universidade da Região de Joinville, Brazil, 47 pp.
- Vivan, J.M., Di Domenico, M. & Almeida, T.C.M. (2009) Effects of dredged material disposal on benthic macrofauna near Itajaí Harbour (Santa Catarina, South Brazil). *Ecological Engineering*, 35, 1435–1443.
- Zibrowius, H. (1970) Contribution à l'étude des Serpulidae (Polychaeta Sedentaria) du Brésil. *Boletim do Instituto Oceanográfico*, 19, 1–32.

APPENDIX 1. Polychaetes recorded from the coast of Santa Catarina, southern Brazil (25°57'S–29°23'S).

Family: Acoetidae

| | |
|--------------|-------------------------------------|
| Species: | <i>Panthalis bicolor</i> Grube 1877 |
| References: | Rullier & Amoureux (1979) |
| Environment: | Outer continental shelf |
| Depth: | 100 m |
| Coordinates: | 26°34'S/47°22'W |

| | |
|--------------|---|
| Species: | <i>Panthalis oerstedii</i> Kinberg 1855 |
| References: | Temperini (1981), Lana (1984) |
| Environment: | Outer continental shelf |
| Depth: | 80–107 m |
| Coordinates: | 29°12'S/48°29'W, 27°03'5"S/47°54'8"W |

Family: Ampharetidae

| | |
|--------------|--|
| Species: | <i>Isolda pulchella</i> Müller 1858 |
| References: | Müller (1858), Amaral & Morgado (1998), Boehs <i>et al.</i> (2003), Pagliosa & Barbosa (2006), Goetsch (2005), Almeida (2007), Netto <i>et al.</i> (2007), Biz (2008), Vieira (2007), Oortman (2010), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, mangrove, salt marsh, creek, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 27°28'51.42"S/48°29'4.63"W, 28°29'15"S/48°47'26"W, 27°28'2.33"S/48°30'47.95"W, 27°28'25.45"S/48°29'53.23"W/ 27°22'S/40°32'W, 27°22'S/40°32'W, 26°21'16"S/48°42'27"W, 27°22'S/40°32'W, 26°15'01"S/48°42'18"W, 26°18'22"S/48°43'22"W, 26°13'29"S/48°37'13"W, 26°14'35"S/48°45'09"W, 26°12'16"S/48°45'45"W, 26°12'50"S/48°39'24"W, 26°09'25"S/48°46'33"W, 26°10'30"S/48°45'47"W, Between 26°18'-27°18'S |
| Museum: | IBUFRJ-1111 |

| | |
|--------------|--|
| Species: | <i>Melina cf. cristata</i> (Sars 1851) |
| References: | Attolini (2002) |
| Environment: | Continental slope |
| Depth: | 175–327 m |
| Coordinates: | 28°24'54"S/47°21'6"W, 28°51'36"S/47°42'W, 26°22'30"S/46°38'30"W, 27°48'S/47°24'6"W |
| Note: | This material needs to be revised, since <i>M. cristata</i> is most probably a species complex |

Family: Amphinomidae

| | |
|--------------|---|
| Species: | <i>Paramphinome besnardii</i> Temperini 1981 |
| References: | Temperini (1981), Lana (1984), Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 100–195 m |
| Coordinates: | 28°35'S/48°15'W, 27°48'S/47°24'6"W, 28°24'54"S/47°21'6"W, 27°03'S/47°42'54"W, 27°10'18"S/47°27'30"W, 27°00'S/47°04'W, 26°15'S/46°53'W, 6°22'30"S/46°38'30"W |
| Note: | <i>Paramphinome besnardii</i> is not considered a valid name, since it was recorded in an unpublished thesis. |

| | |
|--------------|---|
| Species: | <i>Linopherus ambigua</i> (Monro 1933) |
| References: | Pagliosa (2005), Rohr & Almeida (2006), Almeida & Vivian (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, continental slope |
| Depth: | 5–150 m |
| Coordinates: | 27°29'S/48°30'W, 27°14'58"S/48°35'18"W, 27°18'12"S/48°33'21"W, 26°38'S/46°52'W, 27°11'58"S/48°32'32"W |
| Museum: | IBUFRJ-1110 |

Family Aphroditidae

| | |
|--------------|---|
| Species: | <i>Aphrodita longicornis</i> Kinberg 1855 |
| References: | Tommasi <i>et al.</i> (1972), Nonato (1981) Amaral & Nonato (1982) as <i>Aphrodita magna</i> . |
| Environment: | Outer continental shelf |
| Depth: | 78 m |
| Coordinates: | 29°20'S/48°57'W |

| | |
|--------------|---|
| Species: | <i>Aphroditella alta</i> (Kinberg 1855) |
| References: | Amaral & Nonato (1982) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |

Family Capitellidae

| | |
|--------------|---|
| Species: | <i>Capitella capitata</i> (Fabricius 1780) |
| References: | Amaral & Morgado (1998), Silva (2004), Souza (2004), Pagliosa (2005), Alves (2007), Jesus (2007), Netto <i>et al.</i> (2007), Vieira (2007), Biz (2008), Souza (2008), Becker (2009), Vivan <i>et al.</i> (2009), De Domingos (2010), Oortman (2010), Almeida <i>et al.</i> (2012), Netto <i>et al.</i> (2012) |
| Environment: | Bay, coastal lagoon, creek, salt marsh, mangrove, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 28°29'15"S/48°47'27"W, 28°35'S/48°55'W, 27°46'31"S/48°29'26"W, 27°29'S/48°30'W, 27°46'25"S/48°29'19"W, 27°46'26"S/48°29'28"W, 27°46'17"S/48°29'17"W, 27°46'18"S/48°29'27"W, 27°38'33"S/48°31'41"W, 27°46'14"S/48°29'13"W, 27°37'54"S/48°31'51"W, 27°38'16"S/48°32'37"W, 27°36'57"S/48°32'33"W, 27°36'59"S/48°33'43"W, 26°53'36.6"S/48°37'00.0"W, 26°13'29"S/48°37'13"W, 26°20'45"S/48°41'10"W, 26°10'04"S/48°45'55"W, 27°34'S/48°27'W, 27°35'S/48°35'W, 27°34'S/48°36'W |
| Museum: | IBUFRJ-1112 |
| Note: | <i>Capitella capitata</i> is a species complex which needs to be reviewed. As such, all these records are doubtful, as suggested by Blake (2009), who indicated that <i>C. capitata</i> is probably only distributed in Arctic and subarctic areas. |

| | |
|--------------|--|
| Species: | <i>Dasybranchus</i> sp. A |
| References: | Bolivar 1990 |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 26°23'S/48°07'W |
| Museum: | MCBM-BPO-585 |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Heteromastus similis</i> Southern 1921 |
| References: | Ozorio & Poli (1986), Amaral & Morgado (1998), Netto & Galluci (2003), Pagliosa & Barbosa (2006), Souza (2004), Pagliosa (2005), Fonseca & Netto (2006), Jesus (2007), Meurer & Netto (2007), Netto <i>et al.</i> (2007), Biz (2008), Francisco (2008), Netto & Pereira (2008), Becker (2009), Vivan <i>et al.</i> (2009), Domingos (2010), Almeida <i>et al.</i> (2012), Netto <i>et al.</i> (2012) |
| Environment: | Bay, estuarine beach, coastal lagoon, mangrove, salt marsh, creek, tidal flat, inner continental shelf |
| Depth: | Intertidal–10.5 m |
| Coordinates: | 28°24'34"S/48°52'45"W, 28°35'S/48°55"W, 28°29'15"S/48°47'27"W, 28°12'S/48°38"W, 27°41'9.63"S/48°38'26.87"W, 27°41'9.73"S/48°39'11.19"W, 27°40'51.44"S/48°40'4.17"W, 27°40'7.09"S/48°31'10.49"W, 27°39'55.41"S/48°50'55.62"W, 27°39'8.54"S/48°31'21.68"W, 27°35'2.51"S/48°30'33.98"W, 27°36'53.28"S/48°39'32.38"W, 27°29'S/48°30'W, 27°29'S/48°30'W, 27°28'25.31"S/48°30'58.4"W, 27°28'6.17"S/48°31'19.98"W, 27°28'2.33"S/48°30'47.95"W, 27°28'20.08"S/48°31'11.02"W, 27°46'26"S/48°29'28"W, 27°46'31"S/48°29'26"W, 27°46'25"S/48°29'19"W, 27°46'26"S/48°29'28"W, 27°46'17"S/48°29'17"W, 27°46'18"S/48°29'27"W, 27°46'14"S/48°29'13"W, 27°46'14"S/48°29'27"W, 26°53'36.6"S/48°37'00.0"W, 26°53'36.6"S/48°37'00.0"W, 26°11'27"S/48°37'50"W, 26°11'59"S/48°37'41"W, 26°10'04"S/48°45'55"W |
| Museum: | IBUFRJ-1113 |
| Species: | <i>Mediomastus californiensis</i> Hartman 1947 |
| References: | Amaral & Morgado (1998), Souza (2004), Pagliosa (2005), Pagliosa & Barbosa (2006), Alves (2007), Jesus (2007), Netto <i>et al.</i> (2007), Souza (2008), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Alves (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, coastal lagoon, creek, mangrove, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 27°29'S/48°30'W, 27°34'22.76"S/48°35'57.95"W, 27°41'S/48°38"W, 27°31'S/48°31'W, 27°25'S/48°37'W, 27°40'51.44"S/48°40'4.17"W, 27°28'51.42"S/28°29'4.63"W, 27°12'53"S/48°32'24"W, 27°28'20.08"S/48°31'11.02"W, 27°46'26"S/48°29'28"W, 27°46'31"S/48°29'26"W, 27°46'25"S/48°29'19"W, 27°46'26"S/48°29'28"W, 27°46'17"S/48°29'17"W, 27°46'18"S/48°29'27"W, 27°46'14"S/48°29'13"W, 27°18'27"S/48°34'25"W, 27°36'57"S/48°32'33"W, 27°17'17"S/48°33'46"W, 27°18'12"S/48°33'21"W, 27°14'52"S/48°32'02"W, 27°17'13"S/48°35'09"W, 27°13'52"S/48°35'W, 27°14'50"S/48°33'44"W, 27°12'30"S/48°31'20"W, 27°13'08"S/48°33'25"W, 27°11'57"S/48°30'33"W, 27°11'58"S/48°32'32"W, 26°53'36.6"S/48°37'00.0"W, 27°11'04"S/48°31'53"W, 26°59'43"S/48°36'43"W, 27°34'S/48°36'W |
| Museum: | IBUFRJ-1114 |
| Note: | This material needs to be revised, since the species was originally described from the northern Pacific. |
| Species: | <i>Nonatus longilineus</i> Amaral 1980 |
| References: | Amaral (1980) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Species: | <i>Notomastus hemipodus</i> Hartman 1947 |
| References: | Bolivar (1990), Rohr & Almeida (2006), Vivan <i>et al.</i> (2009) |
| Environment: | Inner continental shelf, continental slope |
| Depth: | 8.5–150 m |
| Coordinates: | 26°53'36.6"S/48°37'00.0"W, 26°38'S/46°52'W, 26°38'S/47°38'W |
| Museum: | MCBM-BPO-584 |
| Note: | García-Garza <i>et al.</i> (2012) redescribed <i>N. hemipodus</i> , identified specimens from the east coast of the United States, the Gulf of México, and western México northward to British Columbia, and stated that records for other parts of the world require confirmation. |

| | |
|--------------|---|
| Species: | <i>Notomastus latericeus</i> Sars, 1851 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 100–350 m |
| Coordinates: | 27°9'54"S/46°52'49.8"W, 26°50'18"S/46°56'50.4"W |
| Species: | <i>Rashgua lobatus</i> (Hartman 1947) |
| References: | Bolivar (1990), Santos (2000), Attolini (2002), Amaral & Rossi-Wongtschowski (2004), Rohr & Almeida (2006), Souza (2008), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) as <i>Notomastus lobatus</i> |
| Environment: | Bay, inner continental shelf, middle continental shelf, outer continental shelf, continental slope |
| Depth: | 1–490 m |
| Coordinates: | 28°35'S/48°15'W, 27°28'17"S/48°31'90"W, 28°00'12"S/46°55'6"W, 27°04'S/47°54'W, 27°19'12.6"S/47°09'W, 27°12'53"S/48°32'24"W, 27°18'12"S/48°33'21"W, 27°14'52"S/48°32'02"W, 27°17'13"S/48°35'09"W, 27°12'30"S/48°31'20"W, 27°14'50"S/48°33'44"W, 27°11'57"S/48°30'33"W, 27°11'58"S/48°32'32"W, 27°11'04"S/48°31'53"W, 26°44'S/48°26'W, 26°38'S/46°52'W, 26°38'S/47°38'W, 26°31'S/46°15'W, 26°22'30"S/46°38'30"W, 26°23'S/48°07'W, 26°15'S/48°19'W, 25°57'S/47°49'W, 26°53'36.6"S/48°37'00.0"W, 26°31'16.14"S/46°34'22.2"W |
| Museum: | MCBM-BPO-556, 558, 562, 565, 566, 569, 570, 575, 578, IBUFRJ-1115 |

Family Chaetopteridae

| | |
|--------------|---|
| Species: | <i>Spiochaetopterus costarum</i> (Claparède 1869) |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This material needs to be revised. It is probably <i>S. nonatoi</i> Bhaud & Petti 2001. |

Family Chrysopetalidae

| | |
|--------------|---|
| Species: | <i>Bhawania obscura</i> (Grube 1868) |
| References: | Müller (1858) as <i>Palmyra obscura</i> . Amaral & Nonato (1994) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |

Family Cirratulidae

| | |
|--------------|--|
| Species: | <i>Tharyx dorsobranchialis</i> Kirkegaard 1959 |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 38–49 m |
| Coordinates: | 26°44'S/48°26'W, 26°49'S/48°15'W |
| Museum: | MCBM-BPO-525 |

| | |
|--------------|--|
| Species: | <i>Tharyx</i> sp. C |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 25°57'S/47°49'W |
| Museum: | MCBM-BPO-520 |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Timarete</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 25°57'S/47°49'W |
| Museum: | MCBM-BPO-540 |
| Note: | This material needs to be revised. It is probably a new species. |

Family Cossuridae

| | |
|--------------|-------------------------------------|
| Species: | <i>Cossura candida</i> Hartman 1955 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |

Family Dorvilleidae

| | |
|--------------|--|
| Species: | <i>Schistomeringos rudolphii</i> (delle Chiaje 1828) |
| References: | Rohr & Almeida (2006), Almeida & Vivian (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, continental slope |
| Depth: | 3–150 m |
| Coordinates: | 27°12'30"S/48°31'20"W, 27°13'08"S/48°33'25"W, 26°38'S/46°52'W, 27°11'57"S/48°30'33"W |
| Museum: | IBUFRJ-1116 |

Family Eunicidae

| | |
|--------------|---|
| Species: | <i>Eunice binominata</i> Quatrefages 1865 |
| References: | Rullier & Amoureux (1979) |
| Environment: | Inner continental shelf |
| Depth: | 6 m |
| Coordinates: | unknown |
| Species: | <i>Eunice insularis</i> Nogueira, Steiner & Amaral 2001 |
| References: | Silva (2002) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |

| | |
|--------------|--|
| Species: | <i>Eunice rubra</i> Grube 1856 |
| References: | Blankensteyn <i>et al.</i> (2003) |
| Environment: | Inner continental shelf |
| Depth: | 7–25 m |
| Coordinates: | 27°15'S/48°25'W |
| Species: | <i>Eunice stigmatura</i> (Verrill 1900) |
| References: | Silva (2002) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Species: | <i>Eunice unifrons</i> (Verrill 1900) |
| References: | Attolini (2002) |
| Environment: | Continental slope |
| Depth: | 129–175 m |
| Coordinates: | 27°48'S/47°24'6"W, 26°22'30"S/46°38'30"W, 27°10'18"S/47°27'30"W |
| Species: | <i>Eunice vittata</i> (delle Chiaje 1828) |
| References: | Temperini (1981), Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 145–183 m |
| Coordinates: | 29°03'S/48°00'W, 26°38'S/46°52'W |
| Species: | <i>Marphysa sebastiana</i> Steiner & Amaral 2001 |
| References: | Present work |
| Environment: | Estuarine beach, tidal flat |
| Depth: | Intertidal–0.5 m |
| Coordinates: | 27°41'S/48°33'W |
| Museum: | ZUEC 10672 |
| Species: | <i>Marphysa kinbergi</i> McIntosh 1910 |
| References: | Temperini (1981), Lana (1984), Attolini (2002), Rohr & Almeida (2006) |
| Environment: | Middle continental shelf, outer continental shelf, continental slope |
| Depth: | 50–228 m |
| Coordinates: | 26°34'S/48°10'W, 26°38'0"S/47°33'0"W, 26°38'S/46°52'W, 27°00'S/47°04'W, 27°19'12"S/47°09'W, 28°35'S/48°15'W, 27°29'S/48°30'W |
| Species: | <i>Marphysa sanguinea</i> (Montagu 1815) |
| References: | Coelho (1992), Becker (2009) |
| Environment: | Bay, tidal flat, estuarine beach |
| Depth: | Intertidal–6 m |
| Coordinates: | 26°11'59"S/48°37'41"W, 26°12'49"S/48°36'51"W, 27°27'S/48°37'W |
| Species: | <i>Nematonereis</i> cf. <i>schmardae</i> McIntosh 1885 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This material needs to be revised, since <i>N. schmardae</i> is most probably a species complex. |

Family Fauveliopsidae

| | |
|--------------|---|
| Species: | <i>Fauveliopsis fauchaldi</i> Katzmann & Laubier 1974 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 430–433 m |
| Coordinates: | 26°19'S/46°14'42"W, 26°8'S/45°56'W |

Family Flabelligeridae

| | |
|--------------|--|
| Species: | <i>Pherusa</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 25°57'S/47°49'W |
| Museum: | MCBM-BPO-724 |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Therochaeta</i> sp. |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 25°57'S/47°49'W |
| Museum: | MCBM-BPO-720 |
| Note: | This material needs to be revised. It is probably a new species. |

Family Glyceridae

| | |
|--------------|---|
| Species: | <i>Glycera americana</i> Leidy 1855 |
| References: | Temperini (1981), Coelho (1992), Marenzi (2002), Almeida (2007), Biz (2008), Francisco (2008), Netto & Pereira (2008), Becker (2009), Domingos (2010), Oortman (2010) |
| Environment: | Bay, coastal lagoon, estuarine beach, salt marsh, tidal flat, outer continental shelf |
| Depth: | Intertidal–94 m |
| Coordinates: | 28°05'S/48°07'W, 27°27'S/48°37'W, 28°29'15"S/48°47'27"W, 26°46'10"S/48°47'45"W, 26°12'59"S/48°36'39"W, 26°13'29"S/48°37'13"W, 26°12'49"S/48°36'51"W, 26°12'50"S/48°39'24"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°10'59"S/48°36'19"W, 26°11'27"S/48°37'50"W, 26°10'21"S/48°46'26"W, 26°10'24"S/48°46'38"W, 26°10'04"S/48°45'55"W |

| | |
|--------------|---|
| Species: | <i>Glycera lapidum</i> Quatrefages 1865 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 165 m |
| Coordinates: | 26°27'45"S/44°30'21"W |

| | |
|--------------|--|
| Species: | <i>Glycera oxycephala</i> Ehlers 1887 |
| References: | Attolini (2002), Amaral & Rossi-Wongtschowski (2004), Pagliosa (2006) |
| Environment: | Estuarine beach, bay, continental slope |
| Depth: | intertidal–228 m |
| Coordinates: | 26°22'30"S/46°38'30"W, 27°19'12"S/47°09'W, 26°12'S/48°36'W, 27°48'S/47°24'6"W, 26°27'45"S/44°30'21"W |

| | |
|--------------|--|
| Species: | <i>Hemipodia californiensis</i> (Hartman 1938) |
| References: | Coelho (1992), Amaral & Morgado (1998), Alves (2004), Costa (2007), Broocke (2008), Egres (2008) as <i>Hemipodus olivieri</i> . Owczarzak (2009) |
| Environment: | Sand beach, estuarine beach, tidal flat |
| Depth: | Intertidal |
| Coordinates: | 27°27'S/48°37'W, 27°00'14"S/48°34'52"W, 26°10'28.2"S/48°32'7.44"W, 26°13'5.22"S/48°30'53.76"W, 26°56'45"S/48°37'37"W, 26°14'29"/48°30'24"W, 26°52'12"S/48°38'06"W, 27°38'33"S/48°31'41"W, 27°37'54"S/48°31'51"W, 27°38'16"S/48°32'37"W, 27°36'58"S/48°33'10"W, 27°36'59"S/48°33'43"W, 26°19'30"S/48°32'49"W, 27°36'57"S/48°32'33"W |

| | |
|--------------|--|
| Species: | <i>Hemipodia simplex</i> (Grube 1857) |
| References: | Souza (2008), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 1–12 m |
| Coordinates: | 27°35'S/48°35'W |
| Museum: | IBUFRJ-1117 |

Family Goniadidae

| | |
|--------------|--|
| Species: | <i>Bathyglycinde profunda</i> (Hartman & Fauchald 1971) |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 350–506 m |
| Coordinates: | 27°9'54"S/46°52'49.8"W, 29°14'10.03"S/47°50'40.128"W, 27°8'54"S/46°37'42"W |

| | |
|--------------|---|
| Species: | <i>Glycinde multidentis</i> Müller 1858 |
| References: | Müller (1858), Lana (1984), León-González (1988), Coelho (1992), Amaral & Morgado (1998), Boehs <i>et al.</i> (2003), Silva (2004), Souza (2004), Fonseca & Netto (2006), Pagliosa & Barbosa (2006), Netto <i>et al.</i> (2007), Netto & Pereira (2008), Souza (2008), Oortman (2010), Pagliosa <i>et al.</i> (2012) |
| Environment: | Bay, coastal lagoon, mangrove, creek, tidal flat, middle continental shelf |
| Depth: | Intertidal–48 m |
| Coordinates: | 26°22'1"S/48°19'8"W, 27°27'S/48°37'W, 27°40'51.44"S/48°40'4.17"W, 27°40'7.09"S/48°31'10.49"W, 27°30'36"S/48°32'12"W, 27°35'2.51"S/48°30'33.98"W, 27°28'51.42"S/48°29'4.63"W, 27°30'24"S/48°31'06"W, 27°28'25.31"S/48°30'58.4"W, 27°28'25.45"S/48°29'53.23"W, 27°28'20.08"S/48°31'11.02"W, 27°22'S/40°32'W, 27°36'59"S/48°33'43"W, 26°13'29"S/48°37'13"W, 27°35'S/48°35'W, 27°34'S/48°27'W |
| Museum: | USNM 103018, 103020, 103019, 103021, JAL-GONI 2 |

| | |
|--------------|---|
| Species: | <i>Goniada echinulata</i> Grube 1870 |
| References: | Amaral & Rossi-Wongtschowski (2004), Silva (2004), Rohr & Almeida (2006), Souza (2008), Vivan <i>et al.</i> (2009), Almeida <i>et al.</i> (2012) as <i>Goniada littorea</i> |
| Environment: | Bay, coastal lagoon, inner continental shelf, continental slope |
| Depth: | 0.2–150 m |
| Coordinates: | 27°35'S/48°35'W, 26°38'S/46°52'W, 26°53'36.6"S/48°37'00.0"W, 27°46'29.39"S/47°40'26.97"W, 27°34'S/48°27'S |
| Museum: | IBUFRJ-1119 |

| | |
|--------------|--|
| Species: | <i>Goniada maculata</i> Oersted 1843 |
| References: | Temperini (1981), Amaral & Rossi-Wongtschowski (2004), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, continental slope |
| Depth: | 3–433 m |
| Coordinates: | 27°00'S/47°04'W, 26°8'S/45°56'W, 26°53'36.6"S/48°37'00.0"W, 25°59'43.8"S/45°37'19.2"W, 27°18'27"S/48°34'25"W, 27°17'13"S/48°35'09"W, 27°17'17"S/48°33'46"W, 27°14'52"S/48°32'02"W, 27°17'10"S/48°32'51"W, 27°13'08"S/48°33'25"W, 27°14'50"S/48°33'44"W, 27°12'53"S/48°32'24"W, 26°59'16"S/48°35'35"W |
| Museum: | IBUFRJ-1118 |
| Species: | <i>Goniadella revizee</i> Rizzo & Amaral 2004 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 190–195 m |
| Coordinates: | 28°8'9"S/47°22'36.6"W, 27°9'30.6"S/47°4'51"W |
| Species: | <i>Goniadides carolinae</i> Day 1973 |
| References: | Pagliosa (2005), Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W, 27°29'S/48°30'W |
| Species: | <i>Progoniada regularis</i> Hartman 1965 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 165–358 m |
| Coordinates: | 28°34'9.59"S/47°40'22.8"W, 28°8'8.99"S/47°22'36.6"W, 27°9'30.6"S/47°4'50.99"W, 27°9'54"S/46°52'49.8"W, 27°0'52.8"S/46°40'12.6"W, 27°48'46.8"S/47°10'37.8"W, 26°27'45"S/44°30'21"W |

Family Hesionidae

| | |
|--------------|--|
| Species: | <i>Hesione picta</i> Müller 1858 |
| References: | Müller (1858) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. |
| Species: | <i>Podarke pugettensis</i> Johnson 1901 |
| References: | Silva (2004), Souza (2004), Souza (2008) |
| Environment: | Bay, coastal lagoon |
| Depth: | 0.2–4 m |
| Coordinates: | 27°34'S/48°27'W, 27°35'S/48°35'W |
| Note: | This taxon seems to be endemic to the studied area. |

Family Lumbrineridae

| | |
|--------------|---|
| Species: | <i>Arabelloneris janeirensis</i> (Augener 1934) |
| References: | Lana (1984) as <i>Lumbrineris janeirensis</i> Camargo & Lana (1995a) |
| Environment: | Inner Continental shelf |
| Depth: | 30 m |
| Coordinates: | 26°14'8"S/48°19'8"W, 26°14'S/48°19'W |
| Museum: | MCBM-873 |
| Species: | <i>Lumbricalus januarii</i> (Grube 1878) |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'S-27°18'S |
| Museum: | IBUFRJ-1120 |
| Species: | <i>Lumbrineriopsis mucronata</i> (Ehlers 1908) |
| References: | Camargo & Lana (1994, 1995a) |
| Environment: | Middle continental shelf |
| Depth: | 49–51 m |
| Coordinates: | 26°22'01"S/48°19'08"W |
| Museum: | MCBM-849 |
| Species: | <i>Lumbrineris atlantica</i> (Kinberg 1865) |
| References: | Camargo & Lana (1994, 1995b), Pagliosa (2006), Netto <i>et al.</i> (2007), Vivan <i>et al.</i> (2009), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, estuarine beach, inner continental shelf, continental slope |
| Depth: | 2–133 m |
| Coordinates: | 26°12'S/48°36'W, 26°53'36.6"S/48°37'00.0"W, 27°20'9"S/47°25'7"W |
| Museum: | MCBM-866, IBUFRJ-1121 |
| Species: | <i>Lumbrineris</i> cf. <i>coccinea</i> (Renier 1804) |
| References: | Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–490 m |
| Coordinates: | 28°35'S/48°15'W, 28°0'12"S/46°55'6"W, 26°22'30"S/46°38'30"W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Lumbrineris cingulata</i> (Ehlers 1897) |
| References: | Lana (1984), Camargo & Lana (1994, 1995b) |
| Environment: | Middle continental shelf |
| Depth: | 48 m |
| Coordinates: | 26°22'1"S/48°19'8"W, 26°22'S/48°19'W |
| Museum: | MCBM-871, 869 |

| | |
|--------------|--|
| Species: | <i>Lumbrineris curtolobata</i> Camargo & Lana 1995 |
| References: | Alves (2007) |
| Environment: | Bay |
| Depth: | 2 m |
| Coordinates: | 27°34'S/48°36'W |
| Species: | <i>Lumbrineris lateilli</i> Audouin & Milne Edwards 1834 |
| References: | Temperini (1981) |
| Environment: | Inner continental shelf, middle continental shelf, continental slope |
| Depth: | 25–160 m |
| Coordinates: | 29°10'S/49°29'W, 26°34'S/48°10'W, 27°00'S/47°04'W |
| Species: | <i>Lumbrineris magalhaensis</i> Kinberg 1865 |
| References: | Camargo & Lana (1994, 1995b) |
| Environment: | Middle continental shelf |
| Depth: | 37–51 m |
| Coordinates: | 26°22'01"S/48°19'08"W, 26°44'0"S/48°25'08"W |
| Museum: | MCBM-850, 858 |
| Species: | <i>Lumbrineris mainae</i> Camargo & Lana 1995 |
| References: | Camargo & Lana (1994, 1995b) |
| Environment: | Estuarine beach |
| Depth: | intertidal |
| Coordinates: | 27°28'S/48°24'W |
| Museum: | MCBM-759-765 |
| Species: | <i>Ninoe brasiliensis</i> Kinberg 1864 |
| References: | Temperini (1981), Camargo & Lana (1994, 1995a), Souza (2008), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, middle continental shelf |
| Depth: | 1–52 m |
| Coordinates: | 26°44'00"S/48°25'08"W, 26°49'S/48°35'W, 26°53'36.6"S/48°37'00.0"W, 27°10'S/48°16'W, 27°35'S/48°35'W, 27°12'53"S/48°32'24"W, 27°18'27"S/48°34'25"W, 27°17'17"S/48°33'46"W, 27°18'12"S/48°33'21"W, 27°14'58"S/48°35'18"W, 27°17'10"S/48°32'51"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 27°13'08"S/48°33'25"W, 27°13'52"S/48°35'W, 27°11'58"S/48°32'32"W, 27°12'30"S/48°31'20"W, 27°11'04"S/48°31'53"W, 27°11'57"S/48°30'33"W |
| Museum: | MCBM-861, IBUFRJ-1122 |
| Species: | <i>Scoletoma tetraura</i> (Schmarda 1861) |
| References: | Silva (2004), Souza (2004, 2008), Pagliosa <i>et al.</i> (2012) |
| Environment: | Bay, coastal lagoon |
| Depth: | 0.2–4 m |
| Coordinates: | 27°35'S/48°35'W, 27°34'S/48°27'W |

Family Magelonidae

| | |
|--------------|--|
| Species: | <i>Magelona crenulata</i> Bolivar & Lana 1986 |
| References: | Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 6–12 m |
| Coordinates: | 27°14'58"S/48°35'18"W |
| Museum: | IBUFRJ-1123 |
| Species: | <i>Magelona papillicornis</i> Müller 1858 |
| References: | Müller (1858), Coelho (1992), Santos (2000), Brasil (2003), Silva (2004), Souza (2004), Pagliosa (2005), Pagliosa & Barbosa (2006), Almeida (2007), Netto <i>et al.</i> (2007), Souza (2008), Becker (2009), Vivan <i>et al.</i> (2009), Oortman (2010), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012), Pagliosa <i>et al.</i> (2012) |
| Environment: | Bay, coastal lagoon, estuarine beach, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 27°29'S/48°30'W, 27°27'S/48°37'W, 27°28'51.42"S/48°29'4.63"W, 27°27'46.2"S/48°31'18.6"W, 27°27'50.4"S/48°31'34.2"W, 26°53'36.6"S/48°37'00.0"W, 27°34'S/48°27'W, 27°35'S/48°35'W, 27°27'36"S/48°31'39.6"W, 27°17'17"S/48°33'46"W, 27°17'10"S/48°32'51"W, 27°17'13"S/48°35'09"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 27°13'08"S/48°33'25"W, 27°13'52"S/48°35'W, 27°11'04"S/48°31'53"W, 27°11'58"S/48°32'32"W, 26°12'59"S/48°36'39"W, 26°13'29"S/48°37'13"W, 26°12'49"S/48°36'51"W, 26°12'50"S/48°39'24"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°10'59"S/48°36'19"W, 26°11'27"S/48°37'50"W |
| Museum: | MCBM-BPO-99-101, IBUFRJ-1124 |
| Species: | <i>Magelona posterelongata</i> Bolivar & Lana 1986 |
| References: | Souza (2008), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 1–12 m |
| Coordinates: | 27°35'S/48°35'W, 27°38'16"S/48°32'37"W, 27°17'17"S/48°33'46"W, 27°18'27"S/48°34'25"W, 27°14'52"S/48°32'02"W, 27°17'10"S/48°32'51"W, 27°13'52"S/48°35'W, 27°14'50"S/48°33'44"W, 27°12'30"S/48°31'20"W, 27°13'08"S/48°33'25"W, 27°11'57"S/48°30'33"W, 27°11'58"S/48°32'32"W, 26°53'36.6"S/48°37'00.0"W |
| Museum: | IBUFRJ-1125 |
| Species: | <i>Magelona riojai</i> Jones, 1963 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'-27°18' |
| Museum: | IBUFRJ-1127 |
| Species: | <i>Magelona</i> sp. 2 |
| References: | Brasil (2003) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Magelona</i> sp. 3 |
| References: | Brasil (2003) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|---|
| Species: | <i>Magelona variolamellata</i> Bolivar & Lana 1986 |
| References: | Bolivar & Lana (1988), Marenzi (2002), Brasil (2003), Souza (2008), Vivan <i>et al.</i> (2009), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 1–12 m |
| Coordinates: | 27°35'S/48°35'W, 26°53'36.6"S/48°37'00.0"W, 26°46'10"S/48°47'45"W, 27°18'12"S/48°33'21"W, 27°18'27"S/48°34'25"W, 27°17'13"S/48°35'09"W, 27°17'17"S/48°33'46"W, 27°14'58"S/48°35'18"W, 27°17'10"S/48°32'51"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 27°11'58"S/48°32'32"W, 27°13'08"S/48°33'25"W |
| Museum: | IBUFRJ-1126 |

Family Maldanidae

| | |
|--------------|--|
| Species: | <i>Axiothella brasiliensis</i> Mangum 1966 |
| References: | Bolivar (1990), Netto <i>et al.</i> (2007), Souza (2008) Pagliosa (2005), Pagliosa (2006) as <i>Clymenella brasiliensis</i> |
| Environment: | Bay, estuarine beach, inner continental shelf, middle continental shelf |
| Depth: | 0.5–50 m |
| Coordinates: | 25°57'S/47°49'W, 26°12'S/48°36'W, 26°23'S/48°07'W, 26°29'S/48°21'W, 26°44'S/48°26'W, 27°29'S/48°30'W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO-600, 601, 604, 602, 605, 608, 610 |

| | |
|--------------|--|
| Species: | <i>Chirimia amoena</i> (Kinberg 1867) |
| References: | Bolivar (1990), Attolini (2002) |
| Environment: | Middle continental shelf, outer continental shelf, continental slope |
| Depth: | 38–175 m |
| Coordinates: | 25°57'S/47°49'W, 26°22'30"S/46°38'30"W, 26°23'S/48°07'W, 26°44'S/48°26'W, 28°35'S/48°15'W, 26°38'S/47°38'W |
| Museum: | MCBM-BPO-699, 704, 708, 710 |

| | |
|--------------|--|
| Species: | <i>Clymenella dalesi</i> Mangum 1966 |
| References: | Bolivar (1990), Souza (2008) |
| Environment: | Bay, Middle continental shelf |
| Depth: | 1–50 m |
| Coordinates: | 25°57'S/47°49'W, 26°23'S/48°07'W, 26°29'S/48°21'W, 26°44'S/48°26'W, 26°49'S/48°15'W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO99-101 |

| | |
|--------------|---|
| Species: | <i>Maldane glebifex</i> Grube 1860 |
| References: | Rullier & Amoureux (1979) |
| Environment: | Outer continental shelf |
| Depth: | 78–80 m |
| Coordinates: | 26°08'S/47°18'W |
| Note: | This record needs to be revised, since <i>M. glebifex</i> is a Mediterranean species. |
| Species: | <i>Maldane</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 49 m |
| Coordinates: | 26°49'S/48°15'W |
| Museum: | MCMB-BPO-673 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Metasychis</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 25°57'S/47°49'W, 26°23'S/48°07'W, 26°44'S/48°26'W |
| Museum: | MCMB-BPO-690, 692, 696 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Petaloproctus</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 26°23'S/48°07'W, 26°44'S/48°26'W |
| Museum: | MCMB-BPO-660, 662, 663, 666 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Rhodine loveni</i> Malmgren 1865 |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 25°57'S/47°49'W, 26°44'S/48°26'W |
| Museum: | MCMB-BPO-656, 657 |

Family Nephtyidae

| | |
|--------------|--|
| Species: | <i>Aglaophamus juvenalis</i> (Kinberg 1866) |
| References: | Temperini (1981) as <i>Aglaophamus dibranchis</i> . Lana (1986), Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf, middle continental shelf, continental slope |
| Depth: | 10–160 m |
| Coordinates: | 25°57'0"S/47°49'0"W, 27°00'S/47°04'W, Between 26°18'-27°18'S |
| Museum: | MCMB-BPO-28, 31, IBUFRJ-1131 |

| | |
|--------------|--|
| Species: | <i>Aglaophamus uruguayi</i> Hartman 1953 |
| References: | Lana (1984, 1986), Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 85–195 m |
| Coordinates: | 28°35'S/48°15'W, 28°24'54"S/47°21'6"W, 26°15'S/46°53'W, 28°09'42"S/47°54'42"W, 26°42'S/47°14'W, 26°38'0"S/47°35'0"W |
| Museum: | MCBM-BPO-33 |
| Species: | <i>Inermonephtys brasiliensis</i> Martin, Gil & Lana 2009 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'–27°18'S |
| Species: | <i>Inermonephtys palpata</i> Paxton 1974 |
| References: | Vivan <i>et al.</i> (2009) |
| Environment: | Inner continental shelf |
| Depth: | 8.5–10.5 m |
| Coordinates: | 26°53'36.6"S/48°37'00.0"W, 26°20'14"S/48°33'02"W, 26°19'52"S/48°32'35"W |
| Species: | <i>Nephtys fluviatilis</i> Monro 1937 |
| References: | Ozorio & Poli (1986), Souza (2004), Pagliosa (2005), Fonseca & Netto (2006), Pagliosa & Barbosa (2006), Jesus (2007), Meurer & Netto (2007), Biz (2008), Francisco (2008), Netto & Pereira (2008), Domingos (2010), Netto <i>et al.</i> (2012) |
| Environment: | Coastal lagoon, salt marsh, mangrove, creek, tidal flat |
| Depth: | Intertidal–2.65 m |
| Coordinates: | 28°24'34"S/48°52'45"W, 28°35'S/48°55'W, 28°12'S/48°38'W, 27°34'S/48°27'W, 27°41'9.63"S/48°38'26.87"W, 27°41'9.73"S/48°39'11.19"W, 27°40'51.44"S/48°40'4.17"W, 27°40'7.09"S/48°31'10.49"W, 27°39'55.41"S/48°50'55.62"W, 27°39'8.54"S/48°31'21.68"W, 27°28'6.17"S/48°31'19.98"W, 27°29'S/48°30'W, 27°28'25.45"S/48°29'53.23"W, 27°28'51.42"S/48°29'4.63"W, 27°28'20.08"S/48°31'11.02"W, 27°28'25.31"S/48°30'58.4"W, 27°28'2.33"S/48°30'47.95"W, 28°29'15"S/48°47'27"W, 27°46'31"S/48°29'26"W, 27°46'26"S/48°29'28"W, 27°46'26"S/48°29'28"W, 27°46'18"S/48°29'27"W, 27°46'25"S/48°29'19"W, 27°46'14"S/48°29'27"W, 27°46'17"S/48°29'17"W, 27°46'14"S/48°29'05"W, 27°46'14"S/48°29'13"W |
| Species: | <i>Nephtys simoni</i> Perkins 1980 |
| References: | Gallucci & Netto (2004), Vieira (2007) |
| Environment: | Bay, sand beach |
| Depth: | 6 m |
| Coordinates: | 26°11'28"S/48°35'27"W, 26°12'19"S/48°38'16"W, 26°10'51"S/48°34'06"W |
| Species: | <i>Nephtys squamosa</i> Ehlers 1887 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'–27°18'S |
| Museum: | IBUFRJ-1133 |

Family Nereididae

| | |
|--------------|--|
| Species: | <i>Alitta succinea</i> (Frey et Leuckart 1847) |
| References: | Rullier & Amoureux (1979) as <i>Nereis</i> (<i>Neanthes</i>) <i>succinea</i> . Silva (2004), Souza (2004), Meurer & Netto (2007), Biz (2008), Francisco (2008), Domingos (2010), Almeida <i>et al.</i> (2012), Netto <i>et al.</i> (2012) as <i>Neanthes succinea</i> . Pagliosa <i>et al.</i> (2012) |
| Environment: | Coastal lagoon, salt marsh, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 28°24'34"S/48°52'45"W, 28°35'S/48°55'W, 28°29'15"S/48°47'27"W, 27°34'S/48°27'W |
| Museum: | IBUFRJ-1130 |
| Species: | <i>Ceratocephale oculata</i> Banse 1977 |
| References: | Santos (2001) as <i>Ceratocephale crosslandi</i> . Souza (2004, 2008) |
| Environment: | Bay, coastal lagoon |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W, 27°34'S/48°27'W |
| Species: | <i>Ceratonereis excisa</i> (Grube 1874) |
| References: | Perkins (1980), Silva (2004), Souza (2004) |
| Environment: | Coastal lagoon |
| Depth: | 0.2 m |
| Coordinates: | 27°34'S/48°27'W |
| Museum: | ZMB Q 3504 |
| Species: | <i>Gymmonereis crosslandi</i> (Monro 1933) |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 |
| Coordinates: | Between 26°18'–27°18'S |
| Museum: | IBUFRJ-1128 |
| Species: | <i>Laeonereis acuta</i> (Treadwell 1923) |
| References: | Ozorio & Poli (1986), Coelho (1992), Amaral & Morgado (1998), Boehs <i>et al.</i> (2003), Netto & Gallucci (2003), Pagliosa (2005), Pagliosa & Barbosa (2006) Fonseca & Netto (2006), Meurer & Netto (2007), Biz (2008), Francisco (2008), Netto & Pereira (2008), Domingos (2010), Netto <i>et al.</i> (2012) as <i>Laeonereis culveri</i> . |
| Environment: | Estuarine beach, coastal lagoon, mangrove, salt marsh, creek, tidal flat |
| Depth: | Intertidal–1.8 m |
| Coordinates: | 28°35'S/48°55'W, 28°12'S/48°38'W, 28°24'34"S/48°52'45"W, 27°41'9.73"S/48°39'11.19"W, 28°29'15"S/48°47'27"W, 27°34'31.05"S/48°31'8.74"W, 27°36'53.28"S/48°39'32.38"W, 27°29'S/ 48°30'W, 27°27'S/48°37'W, 27°28'6.17"S/48°31'19.98"W, 27°22'S/40°32'W |
| Species: | <i>Micronereides capensis</i> Day 1963 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 138–510 m |

Coordinates: 28°9'13.79"S/47°9'2.99"W, 29°12'31.79"S/47°55'31.67"W, 27°49'17.4"S/47°4'29.39"W,
28°40'32.37"S/47°25'12"W, 27°46'29.39"S/47°40'26.97"W, 27°48'11.99"S/47°18'10.19"W,
27°10'10.77"S/46°46'48"W, 27°29'2.97"S/47°7'40.8"W, 26°50'48.59"S/46°33'56.99"W, 27°9'54"S/
46°48'18"W, 26°49'53.97"S/46°47'47.4"W

Species: *Namalycastis abiuma* (Grube 1872)

References: Glasby (1999), Domingos (2010)

Environment: Coastal lagoon

Depth: 1.7 m

Coordinates: 27°35'S/48°31'W

Museum: ZMB Q 3436

Species: *Namanereis littoralis* (Grube 1872)

References: Glasby (1999)

Environment: unknown

Depth: unknown

Coordinates: 27°35'S/48°31'W

Museum: ZMB Q4006, ZMB 11075, MPW 538, HZM V-7061

Species: *Neanthes bruaca* Lana & Sovierzoski 1987

References: Lana (1984), Lana & Sovierzoski (1987), Santos (2000), Blankensteyn *et al.* (2003), Souza (2008),
Vivan *et al.* (2009), Almeida & Vivan (2011), Almeida *et al.* (2012)

Environment: Bay, inner continental shelf, middle continental shelf

Depth: 1–50 m

Coordinates: 27°28'17"S/48°31'90"W, 27°15'S/48°25'W, 27°18'12"S/48°33'21"W, 27°17'13"S/48°35'09"W,
27°17'17"S/48°33'46"W, 27°14'58"S/48°35'18"W, 27°17'10"S/48°32'51"W, 27°14'50"S/48°33'44"W,
27°14'52"S/48°32'02"W, 27°13'08"S/48°33'25"W, 27°13'52"S/48°35'W, 27°11'58"S/48°32'32"W,
27°12'30"S/48°31'20"W, 26°53'36.6"S/48°37'00.0"W, 26°51'0"S/48°13'1"W, 27°35'S/48°35'W

Museum: MCBM-BPO 237, IBUFRJ-1129

Species: *Nereis oligohalina* (Rioja 1946)

References: Boehs *et al.* (2003)

Environment: Tidal flat

Depth: Intertidal

Coordinates: 27°22'S/40°32'W

Note: This record needs to be reviewed, since the species was originally described from the northern hemisphere.

Species: *Nicon moniloceras* (Hartman 1940)

References: Temperini (1981)

Environment: Continental slope

Depth: 183 m

Coordinates: 29°03'S/48°00'W

Species: *Perinereis cultrifera* (Grube 1840)

References: Nonato (1981)

Environment: unknown

Depth: intertidal

Coordinates: unknown

Family Onuphidae

| | |
|--------------|--|
| Species: | <i>Australonuphis casamiquelorum</i> Orensanz 1974 |
| References: | Present work |
| Environment: | Tidal flat, estuarine beach |
| Depth: | Intertidal |
| Coordinates: | 29°09'S/49°34'W |
| Museum: | ZUEC 10690 |
| Species: | <i>Brevibrachium hannelorae</i> Lana 1991 |
| References: | Lana (1984) as <i>Rhamphobrachium</i> cf. <i>agassizii</i> . Lana (1991b) |
| Environment: | Continental slope |
| Depth: | 137 m |
| Coordinates: | 26°49'4"S/47°9'8"W, 26°51'8"S/47°06'9"W |
| Museum: | MCBM-BPO-367 |
| Species: | <i>Diopatra aciculata</i> Knox & Cameron 1971 |
| References: | Present work |
| Environment: | Estuarine beach, tidal flat |
| Depth: | Intertidal |
| Coordinates: | 27°41'S/48°33'W |
| Museum: | ZUEC 10689, ZUEC 10692 |
| Species: | <i>Diopatra cuprea</i> (Bosc 1802) |
| References: | Amaral & Morgado (1998), Netto <i>et al.</i> (2007), Souza (2008) |
| Environment: | Bay, estuarine beach, tidal flat |
| Depth: | Intertidal–2 m |
| Coordinates: | 27°35'S/48°35'W |
| Species: | <i>Diopatra</i> sp. 2 |
| References: | Present work |
| Environment: | Estuarine beach, tidal flat |
| Depth: | Intertidal |
| Coordinates: | 27°31'S/48°31'W, 27°41'S/48°38'W |
| Museum: | ZUEC 10616, ZUEC 10733 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Diopatra</i> sp. 5 |
| References: | Coelho (1992), Amaral & Morgado (1998), Vieira (2007), Becker (2009), Oortman (2010) as <i>Diopatra viridis</i> . Present work |
| Environment: | Bay, estuarine beach, tidal flat |
| Depth: | Intertidal–11 m |
| Coordinates: | 27°27'S/48°37'W, 26°13'16"S/48°45'33"W, 26°13'29"S/48°37'13"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 27°29'S/48°38'W, 27°31'S/48°31'W |
| Museum: | ZUEC 10688, ZUEC 10732 |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Diopatra tridentata</i> Hartman 1944 |
| References: | Temperini (1981), Lana (1991b), Amaral & Rossi-Wongtschowski (2004), Steiner (2005) |
| Environment: | Middle continental shelf, outer continental shelf, continental slope |
| Depth: | 37–270 m |
| Coordinates: | 28°36'S/47°39'W, 26°34'S/48°10'W, 28°58'00"S/48°29'40"W, 28°05'00"S/48°06'00"W, 26°44'0"S/48°25'8"W, 27°45'20"S/48°03'00"W, 26°44'0"S/48°25'0"W, 26°22'01"S/48°19'08"W, 26°33'0"S/47°40'2"W, 27°45'12"S/48°3'W, 26°31'16.14"S/46°34'22.2"W |
| Museum: | MCBM-BPO-383, 392, 381, MHN-BPO-ST-1037, 1041, 1044 |
| Species: | <i>Hyalinoecia juvenalis</i> Moore 1911 |
| References: | Lana (1981b, 1984) |
| Environment: | Continental slope |
| Depth: | 133–136 m |
| Coordinates: | 27°22'9"S/47°25'7"W, 27°20'9"S/47°24'0"W |
| Museum: | MCBM-BPO-369 |
| Species: | <i>Kinbergonuphis atlantisa</i> (Hartman 1965) |
| References: | Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–228 m |
| Coordinates: | 28°35'S/48°15'W, 26°22'30"S/46°38'30"W, 27°48'S/47°24'6"W, 28°24'54"S/47°21'6"W, 27°19'12"S/47°09'W |
| Species: | <i>Kinbergonuphis</i> cf. <i>mixta</i> (Fauchald & Hancock 1981) |
| References: | Attolini (2002) |
| Environment: | Continental slope |
| Depth: | 129–490 m |
| Coordinates: | 26°22'30"S/46°38'30"W, 27°19'12"S/47°09'W, 27°10'18"S/47°27'30"W, 28°00'12"S/46°55'6"W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Kinbergonuphis difficilis</i> (Fauchald 1982) |
| References: | Netto <i>et al.</i> (2007), Vivan <i>et al.</i> (2009), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 0.5–12 m |
| Coordinates: | 26°53'36.6"S/48°37'00.0"W |
| Museum: | IBUFRJ-1134 |
| Species: | <i>Kinbergonuphis fauchaldi</i> Lana 1991 |
| References: | Lana (1984, 1991b) |
| Environment: | Middle continental shelf |
| Depth: | 50–51 m |
| Coordinates: | 26°22'01"S/48°19'08"W |
| Museum: | MCBM-BPO-413, 414 |
| Species: | <i>Kinbergonuphis nonatoi</i> Lana 1991 |
| References: | Lana (1984), Lana (1991b), Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf, Outer continental shelf |

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|--------------|--|
| Depth: | 10–84 m |
| Coordinates: | 27°3'5"S/47°54'8"W, 27°03'5"S/47°54'8"W |
| Museum: | MCBM-BPO-411, IBUFRJ-1135 |
| Species: | <i>Kinbergonuphis orensanzi</i> (Fauchald 1982) |
| References: | Attolini (2002), Steiner (2005), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, outer continental shelf, continental slope |
| Depth: | 3–510 m |
| Coordinates: | 29°14'40.2"S/47°50'39.6"W, 29°15'00"S/48°41'48"W, 28°53'37"S/47°48'50"W, 28°58'00"S/48°29'49"W, 28°40'54"S/47°25'20"W, 28°41'20"S/48°18'50"W, 28°34'16"S/47°40'38"W, 28°35'S/48°15'W, 28°09'42"S/47°54'42"W, 28°22'20"S/48°09'00"W, 28°00'12"S/46°55'6"W, 28°05'00"S/48°06'00"W, 27°48'S/47°24'6"W, 27°49'29"S/47°04'49"W, 27°28'42"S/47°09'39.6"W, 27°46'49"S/47°40'45"W, 27°26'00"S/47°52'00"W, 27°27'00"S/47°44'2"W, 27°10'18"S/47°27'30"W, 27°10'18"S/46°46'48"W, 27°09'30.6"S/47°04'51"W, 27°09'54"S/46°52'49.8"W, 27°00'52.8"S/46°40'12.6"W, 26°51'45.6"S/46°18'28.2"W, 26°47'19.2"S/47°74'43.2"W, 26°49'54"S/46°47'47.4"W, 26°31'S/46°15'W, 26°41'27"S/46°27'50"W, 26°27'5.4"S/47°00'37.2"W, 26°31'26"S/46°34'37"W, 26°19'00"S/46°14'7"W, 26°22'30"S/46°38'30"W, 26°08'00"S/47°12'00"W, 26°15'S/46°53'W, 25°59'43.8"S/45°37'19.2"W, 26°06'54"S/47°12'30"W, 27°18'12"S/48°33'21"W, 27°18'27"S/48°34'25"W, 27°17'13"S/48°35'09"W, 27°17'17"S/48°33'46"W, 27°14'58"S/48°35'18"W, 27°17'10"S/48°32'51"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 27°13'08"S/48°33'25"W, 27°13'52"S/48°35'W, 27°11'57"S/48°30'33"W |
| Museum: | MHN-BPO-ST 1088-1092, 1094, 1098, 1100-1102, 1104-1120, IBUFRJ-1136 |
| Species: | <i>Mooreonuphis intermedia</i> (Kinberg 1865) |
| References: | Temperini (1981) as <i>Nothria stigmatis</i> . Lana (1984, 1991b) |
| Environment: | Middle continental shelf |
| Depth: | 39–51 m |
| Coordinates: | 26°44'0"S/48°25'8"W, 26°22'1"S/48°19'8"W, 26°34'S/48°10'W |
| Museum: | MCBM-BPO-404, 402 |
| Species: | <i>Mooreonuphis lineata</i> Lana 1991 |
| References: | Lana (1984), Lana (1991b), Marenzi (2002) |
| Environment: | Inner continental shelf, middle continental shelf |
| Depth: | 6–33 m |
| Coordinates: | 26°46'10"S/48°47'45"W, 26°46'10"S/48°49'10"W, 26°29'5"S/48°21'4"W, 26°46'10"S/48°38'45"W |
| Museum: | MCBM-BPO-400 |
| Species: | <i>Mooreonuphis</i> sp. n. |
| References: | Steiner (2005) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–510 m |
| Coordinates: | 29°33'48"S/48°51'00"W, 29°36'36"S/47°50'48"W, 29°14'40.2"S/47°50'39.6"W, 29°33'15"S/47°58'37.8"W, 28°53'37"S/47°48'50"W, 29°11'35.4"S/47°57'40.2"W, 28°09'23"S/47°09'05"W, 28°34'16"S/47°40'38"W, 27°48'46.8"S/47°10'37.8"W, 27°49'29"S/47°04'49"W, 27°29'03"S/47°07'40.8"W, 27°46'49"S/47°40'45"W, 27°10'10.8"S/46°46'48"W, 27°27'49.8"S/47°24'13.2"W, 27°00'52.8"S/46°40'12.6"W, 27°07'00"S/47°44'2"W, 26°49'54"S/46°47'47.4"W, 26°50'48.6"S/46°33'57"W, 26°19'00"S/46°14'7"W, 26°27'45"S/44°30'21"W, 26°01'26"S/46°25'26"W, 26°10'52.2"S/46°20'01"W |
| Museum: | MHN-BPO-ST 1151, 1165, 1135, 1142-1145, 1152-1164, 1166, 1167 |
| Note: | This is a new species, yet to be described. |

| | |
|--------------|---|
| Species: | <i>Nothria anoculata</i> (Orensanz 1974) |
| References: | Steiner (2005) |
| Environment: | Continental slope |
| Depth: | 151–510 m |
| Coordinates: | 29°14'40.2"S/47°50'39.6"W, 29°36'36"S/47°50'48"W, 27°28'42"S/47°09'39.6"W, 27°29'03"S/47°07'40.8"W, 26°41'27"S/46°27'50"W, 27°27'49.8"S/47°24'13.2"W |
| Museum: | MHN-BPO-ST 286, 290, 314, 318, 302, 263 |
| Species: | <i>Nothria benthophyla</i> Lana 1991 |
| References: | Temperini (1981), Lana (1984), Lana (1991b), Souza (2008), Steiner (2005) |
| Environment: | Bay, Continental slope |
| Depth: | 1–183 m |
| Coordinates: | 29°03'S/48°00'W, 26°27'45"S/44°30'21"W, 27°35'S/48°35'W |
| Museum: | MHN-BPO-ST 17, MCBM-BPO-394 |
| Species: | <i>Nothria paxtonae</i> (Imajima 1999) |
| References: | Steiner (2005) |
| Environment: | Continental slope |
| Depth: | 165 m |
| Coordinates: | 26°27'45"S/44°30'21"W |
| Museum: | MHN-BPO-ST 244 |
| Species: | <i>Onuphis eremita oculata</i> Hartman 1951 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'–27°18'S |
| Museum: | IBUFRJ-1137 |
| Species: | <i>Onuphis tenuis</i> Hansen 1882 |
| References: | Rullier & Amoureux (1979) |
| Environment: | Outer continental shelf |
| Depth: | 78–100 m |
| Coordinates: | 26°34'S/47°22'W, 26°08'S/47°18'W |
| Species: | <i>Paradiopatra hartmanae</i> (Kirkegaard 1980) |
| References: | Steiner (2005), Rohr & Almeida (2006) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–270 m |
| Coordinates: | 29°49'29.4"S/48°12'45.6"W, 28°34'16"S/47°40'38"W, 29°28'45"S/48°09'21"W, 27°46'49"S/47°40'45"W, 27°48'20"S/47°18'17"W, 27°09'30.6"S/47°04'51"W, 27°27'49.8"S/47°24'13.2"W, 26°49'54"S/46°47'47.4"W, 27°07'00"S/47°44'2"W, 26°38'S/46°52'W, 26°27'45"S/44°30'21"W, 26°31'26"S/46°34'37"W, 26°10'52.2"S/46°20'0.6"W, 26°17'51"S/46°41'23"W, 26°01'26"S/46°25'26"W |
| Museum: | MHN-BPO-ST 986, 992–995, 1000–1007 |

| | |
|--------------|--|
| Species: | <i>Paradiopatra</i> sp. n. |
| References: | Steiner (2005) |
| Environment: | Continental slope |
| Depth: | 430 m |
| Coordinates: | 26°41'27"S/46°27'50"W |
| Museum: | MHN-BPO 95/0, 95/1 |
| Note: | This is a new species, yet to be described |

| | |
|--------------|--|
| Species: | <i>Ramphobrachium (Spinigerium) verngreni</i> (Kinberg 1865) |
| References: | Rohr & Almeida (2006) as <i>Ramphobrachium verngreni</i> . |
| Environment: | Continental slope |
| Depth: | 150 m |
| Coordinates: | 26°38'S/46°52'W |

Family Opheliidae

| | |
|--------------|---|
| Species: | <i>Armandia hossfeldi</i> Hartman-Schröder 1956 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'-27°18'S |
| Museum: | IBUFRJ-1138 |

| | |
|--------------|--|
| Species: | <i>Armandia maculata</i> (Webster 1884) |
| References: | Blankensteyn <i>et al.</i> (2003), Boehs <i>et al.</i> (2003), Rohr & Almeida (2006) |
| Environment: | Tidal flat, inner continental shelf, continental slope |
| Depth: | Intertidal–150 m |
| Coordinates: | 27°15'S/48°25'W, 27°22'S/40°32'W, 26°38'S/46°52'W |

| | |
|--------------|--|
| Species: | <i>Ophelia syringopyge</i> (Ehlers 1901) |
| References: | Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 150 m |
| Coordinates: | 26°38'S/46°52'W |

| | |
|--------------|--|
| Species: | <i>Ophelina acuminata</i> Oersted 1843 |
| References: | Elías <i>et al.</i> (2003) |
| Environment: | Middle continental shelf |
| Depth: | 37–50 m |
| Coordinates: | 26°22'1"S/48°19'8"W, 26°29'5"S/48°21'4"W |
| Museum: | MCEM-BPO 1592-1606, 1612 |

| | |
|--------------|---|
| Species: | <i>Ophelina alata</i> Elías, Bremec, Lana & Orensanz 2003 |
| References: | Elías <i>et al.</i> (2003) |
| Environment: | Inner continental shelf |
| Depth: | 25–30 m |
| Coordinates: | 26°03'0"S/48°16'0"W, 26°14'8"S/48°19'08"W |
| Museum: | MCEM-BPO 1607-1609, 1613-1616. |

| | |
|--------------|--|
| Species: | <i>Ophelina cylindricaudata</i> (Hansen 1878) |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 200 m |
| Coordinates: | 26°49'53.97"S/46°47'47.4"W |
| Species: | <i>Thoracophelia furcifera</i> (Ehlers 1897) |
| References: | Amaral & Morgado (1998), Alves (2004), Tártari (2006), Almeida (2007), Egres (2008), as <i>Euzonus furciferus</i> . Otegui <i>et al.</i> (2012) |
| Environment: | Sand beach, estuarine beach |
| Depth: | Intertidal |
| Coordinates: | 28°24'51.18"S/48°44'49.44"W, 28°28'57.72"S/48°45'59.76"W, 26°10'28.2"S/48°32'7.44"W, 27°34'25.26"S/48°25'22.62"W, 26°56'45"S/48°37'37"W, 26°10'59"S/48°36'19"W, 26°52'12"S/ 48°38'06"W |
| Note: | <i>Thoracophelia furcifera</i> was originally described from Patagonia. All the records from the warmer sector of the SW Atlantic need to be reviewed. |

Family Orbinidae

| | |
|--------------|--|
| Species: | <i>Leitoscoloplos kerguelensis</i> (McIntosh 1885) |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 49 m |
| Coordinates: | 26°49'S/48°15'W |
| Museum: | MCBM-BPO 488 |
| Species: | <i>Naineris aurantiaca</i> (Müller 1858) |
| References: | Müller (1858) as <i>Theodisca aurantiaca</i> . |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. |
| Species: | <i>Naineris setosa</i> (Verrill 1900) |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Species: | <i>Orbinia cf. latreillii</i> (Audouin & Milne-Edwards 1833) |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This material needs to be revised, since <i>O. latreilli</i> is most probably a species complex. |

| | |
|--------------|--|
| Species: | <i>Phylo felix</i> Kinberg 1866 |
| References: | Bolivar (1990), Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf, middle continental shelf |
| Depth: | 10–38 m |
| Coordinates: | 26°44'S/48°26'W |
| Museum: | MCBM-BPO-436, IBUFRJ-1139 |
| Species: | <i>Protoaricia</i> sp. A |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 49 m |
| Coordinates: | 26°49'S/48°15'W |
| Museum: | MCBM-BPO 483 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Scoloplos (Leodamas) ohlini</i> Ehlers (1901) |
| References: | Bolivar (1990) Oortman (2010) as <i>Scoloplos ohlini</i> |
| Environment: | Bay, inner continental shelf, middle continental shelf |
| Depth: | 28–50 m |
| Coordinates: | 26°03'S/48°16'W, 26°15'S/48°19'W, 25°57'S/47°49'W, 26°13'29"S/48°37'13"W |
| Museum: | MCBM-BPO-445, 447, 457 |
| Species: | <i>Scoloplos (Leodamas) verax</i> Kinberg 1866 |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 26°44'S/48°26'W, 25°57'S/47°49'W, 26°23'S/48°07'W |
| Museum: | MCBM-BPO- 462, 463, 464, 468, 469 |
| Species: | <i>Scoloplos capensis</i> Day |
| References: | Souza (2008) as <i>Scoloplos (Scoloplos) capensis</i> . |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Species: | <i>Scoloplos robustus</i> Rullier 1964 |
| References: | Souza (2008) as <i>Leitoscoloplos robustus</i> . |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Species: | <i>Scoloplos rubra</i> (Webster 1879) |
| References: | Coelho (1992) as <i>Scoloplos (Leodamas) rubra</i> . |
| Environment: | Tidal flat, estuarine beach |
| Depth: | Intertidal |
| Coordinates: | 27°27'S/48°37'W |

| | |
|--------------|--|
| Species: | <i>Scoloplos treadwelli</i> Eisig 1914 |
| References: | Attolini (2002) as <i>Scoloplos (Scoloplos) treadwelli</i> . |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–490 m |
| Coordinates: | 28°35'S/48°15'W, 26°22'30"S/46°38'30"W, 28°24'54"S/47°21'6"W, 27°10'18"S/47°27'30"W, 28°00'12"S/46°55'18"W |

Family: Oweniidae

| | |
|--------------|--|
| Species: | <i>Galathowenia oculata</i> (Zachs 1923) |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |

| | |
|--------------|--|
| Species: | <i>Owenia fusiformis</i> delle Chiaje 1844 |
| References: | Amaral & Morgado (1998), Marenzi (2002), Pagliosa (2005), Souza (2008), Becker (2009), Oortman (2010), Almeida & Vivan (2011) |
| Environment: | Bay, inner continental shelf |
| Depth: | 1–11 m |
| Coordinates: | 27°35'S/48°35'W, 27°38'33"S/48°31'41"W, 27°29'S/48°30'W, 27°17'17"S/48°33'46"W, 27°14'58"S/48°35'18"W, 27°17'13"S/48°35'09"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 26°46'10"S/48°49'10"W, 27°13'08"S/48°33'25"W, 26°46'10"S/48°38'45"W, 26°46'10"S/48°47'45"W, 26°12'49"S/48°36'51"W, 26°13'29"S/48°37'13"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°10'21"S/48°46'26"W, 26°11'27"S/48°37'50"W |
| Note: | <i>Owenia fusiformis</i> is clearly a species complex. Local records of <i>O. fusiformis</i> probably correspond to <i>Ammochares brasiliensis</i> Hansen 1882 or <i>Ammochares tegula</i> Kinberg, 1866 or to a new species, yet to be described. |

Family Paralacydoniidae

| | |
|--------------|---|
| Species: | <i>Paralacydonia paradoxa</i> Fauvel 1913 |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 280 m |
| Coordinates: | 27°0'52.8"S/46°40'12.6"W |

Family Paraonidae

| | |
|--------------|--|
| Species: | <i>Aricidea (Acmira)</i> sp. B |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 49 m |
| Coordinates: | 26°49'S/48°15'W |
| Museum: | MCBM-BPO 497 |
| Note: | This material needs to be revised. It is probably a new species. |

| | |
|--------------|--|
| Species: | <i>Aricidea (Allia) belgicae</i> (Fauvel 1936) |
| References: | Alves (2007) as <i>Aricidea belgicae</i> . |
| Environment: | Bay |
| Depth: | 2 m |
| Coordinates: | 27°34'S/48°36'W |
| Species: | <i>Aricidea albatrossae</i> Pettibone 1957 |
| References: | Attolini (2002) as <i>Aricidea (Allia) albatrossae</i> . Vieira (2007), Becker (2009), Oortman (2010) |
| Environment: | Bay, continental slope |
| Depth: | 2–474 m |
| Coordinates: | 27°19'12.6"S/47°09'W, 28°51'36"S/47°42'W, 27°10'18"S/47°27'30"W, 26°21'15"S/48°42'26"W, 26°31'S/46°15'W, 26°20'18"S/48°43'13"W, 26°20'45"S/48°41'10"W, 26°15'01"S/48°42'18"W, 26°17'23"S/48°44'31"W, 26°14'35"S/48°45'09"W, 26°14'44"S/48°41'28"W, 26°13'29"S/48°37'13"W, 26°14'24"S/48°43'59"W, 26°12'59"S/48°36'39"W, 26°13'16"S/48°45'33"W, 26°12'16"S/48°45'45"W, 26°12'49"S/48°36'51"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°11'27"S/48°37'50"W, 26°11'28"S/48°35'27"W, 26°10'30"S/48°45'47"W, 26°11'04"S/48°36'22"W |
| Species: | <i>Aricidea simplex</i> (Day 1963) |
| References: | Attolini (2002) as <i>Aricidea (Acmira) simplex</i> . Rohr & Almeida (2006) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 102–390 m |
| Coordinates: | 28°35'S/48°15'W, 27°48'S/47°24'6"W, 28°32'12"S/47°04'12"W, 26°38'S/46°52'W, 27°19'12.6"S/ 47°09'W, 26°22'30"S/46°38'30"W |
| Species: | <i>Cirrophorus americanus</i> Strelzov 1973 |
| References: | Bolivar (1990) |
| Environment: | Middle continental shelf |
| Depth: | 49 m |
| Coordinates: | 26°49'S/48°15'W |
| Museum: | MCBM-BPO-510 |
| Species: | <i>Cirrophorus branchiatus</i> Ehlers 1908 |
| References: | Bolivar (1990), Rohr & Almeida (2006), Souza (2008), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, outer continental shelf, continental slope |
| Depth: | 1–150 m |
| Coordinates: | 27°11'57"S/48°30'33"W, 26°38'S/46°52'W, 27°11'04"S/48°31'53"W, 26°12'S/47°25'W, 27°35'S/ 48°35'W |
| Museum: | MCBM-BPO 509, IBUFRJ-1140 |

Family Pholoididae

| | |
|--------------|---|
| Species: | <i>Pholoe minuta</i> (Fabricius 1780) |
| References: | Lana (1984), Netto <i>et al.</i> (2007), Souza (2008) |
| Environment: | Bay, estuarine beach, middle continental shelf |
| Depth: | 0.5–37 m |
| Coordinates: | 26°44'0"S/48°25'0"W, 27°35'S/48°35'W |
| Note: | These records are doubtful. It is probably a new species of <i>Pholoe</i> . |

Family Phyllococidae

| | |
|--------------|---|
| Species: | <i>Anaitides tamoya</i> Nonato 1981 <i>nomen nudum</i> |
| References: | Temperini (1981) |
| Environment: | Middle continental shelf |
| Depth: | 50 m |
| Coordinates: | 26°34'S/48°10'W |
| Note: | This species was described in an unpublished thesis, therefore Temperini's (1981) use of the name constitutes a <i>nomen nudum</i> . |
| Species: | <i>Phyllococe mucosa</i> Oersted 1843 |
| References: | Attolini (2002) as <i>Phyllococe (Anaitides) mucosa</i> Vieira (2007), Becker (2009) |
| Environment: | Bay, outer continental shelf, continental slope |
| Depth: | 2–175 m |
| Coordinates: | 26°22'30"S/46°38'30"W, 27°48'S/47°24'6"W, 26°15'01"S/48°42'18"W, 26°06'54"S/47°12'30"W, 26°12'49"S/48°36'51"W, 26°14'44"S/48°41'28"W, 26°10'30"S/48°45'47"W, 26°12'08"S/48°37'32"W, 26°10'04"S/48°45'55"W |

Family Pilargidae

| | |
|--------------|---|
| Species: | <i>Ancistrostylis jonesi</i> (Pettibone 1966) |
| References: | Vivan <i>et al.</i> (2009), Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 8.5–12 m |
| Coordinates: | 26°53'36.6"S/48°37'00.0"W |
| Museum: | IBUFRJ-1141 |
| Species: | <i>Hermundura cf. fauveli</i> (Berkeley & Berkeley 1941) |
| References: | Temperini (1981) as <i>Loandalia americana minuta</i> Lana (1984) as <i>Parandalia americana</i> |
| Environment: | Middle continental shelf |
| Depth: | 48–50 m |
| Coordinates: | 26°34'S/48°10'W, 26°51'0"S/48°13'1"W |
| Note: | This material needs to be revised, since <i>H. fauveli</i> was originally described from the northern hemisphere. |
| Species: | <i>Hermundura tricuspis</i> Müller 1858 |
| References: | Müller (1858) Salazar-Vallejo (1990), Coelho (1992), Marenzi (2002), Souza (2008), Becker (2009), Oortman (2010), Almeida & Vivan (2011) as <i>Parandalia tricuspis</i> Almeida <i>et al.</i> (2012) as <i>Loandalia tricuspis</i> |
| Environment: | Bay, sand beach, estuarine beach, tidal flat, inner continental shelf |
| Depth: | Intertidal–12 m |
| Coordinates: | 27°35'S/48°35'W, 27°27'S/48°37'W, 27°30'24"S/48°31'06"W, 27°18'27"S/48°34'25"W, 27°12'53"S/ 48°32'24"W, 27°17'17"S/48°33'46"W, 27°18'12"S/48°33'21"W, 27°17'10"S/48°32'51"W, 27°17'13"S/ 48°35'09"W, 27°14'52"S/48°32'02"W, 27°14'58"S/48°35'18"W, 27°13'52"S/48°35'W, 27°14'50"S/ 48°33'44"W, 27°12'30"S/48°31'20"W, 27°13'08"S/48°33'25"W, 27°11'57"S/48°30'33"W, 26°46'10"S/ 48°38'45"W, 26°46'10"S/48°47'45"W, 26°13'29"S/48°37'13"W, 26°12'49"S/48°36'51"W, 26°12'59"S/ 48°36'39"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°10'24"S/48°46'38"W, 26°11'27"S/ 48°37'50"W, 26°10'04"S/48°45'55"W |
| Museum: | USNM 264059, 123092, IBUFRJ-1143 |

| | |
|--------------|---|
| Species: | <i>Hermundura ocularis</i> (Emerson & Fauchald, 1971) |
| References: | Almeida <i>et al.</i> (2012) as <i>Loandalia ocularis</i> |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'–27°18'S |
| Museum: | IBUFRJ-1142 |
| Note: | This taxon seems to be endemic to the studied area. |
| Species: | <i>Litocorsa stremma</i> Pearson 1970 |
| References: | Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 145–150 m |
| Coordinates: | 26°38'S/46°52'W |
| Species: | <i>Sigambra grubii</i> Müller 1858 |
| References: | Müller (1858), Temperini (1981), Salazar-Vallejo (1990), Santos (2000), Amaral & Morgado (1998), Attolini (2002), Boehs <i>et al.</i> (2003), Netto & Gallucci (2003), Silva (2004), Souza (2004), Fonseca & Netto (2006), Pagliosa & Barbosa (2006), Rohr & Almeida (2006), Jesus (2007), Meurer & Netto (2007), Vieira (2007), Francisco (2008), Netto & Pereira (2008), Becker (2009), Domingos (2010), Oortman (2010), Almeida & Vivian (2011), Netto <i>et al.</i> (2012), Pagliosa <i>et al.</i> (2012) |
| Environment: | Bay, estuarine beach, coastal lagoon, mangrove, tidal flat, salt marsh, inner continental shelf, outer continental shelf, continental slope |
| Depth: | intertidal–390 m |
| Coordinates: | 28°32'12"S/47°04'12"W, 28°35'S/48°55'W, 28°24'54"S/47°21'6"W, 28°24'34"S/48°52'45"W, 27°40'51.44"S/48°40'4.17"W, 27°48'S/47°24'6"W, 27°36'24"S/48°27'42"W, 27°36'30"S/48°26'30"W, 27°29'S/48°30'W, 27°36'24"S/48°27'36"W, 27°28'10.2"S/48°31'54"W, 27°28'20.08"S/48°31'11.02"W, 27°27'36"S/48°31'39.6"W, 27°27'50.4"S/48°31'34.2"W, 27°10'18"S/47°27'30"W, 27°22'S/40°32'W, 27°00'S/47°04'W, 27°03'S/47°42'54"W, 27°46'31"S/48°29'26"W, 27°12'53"S/48°32'24"W, 27°46'26"S/48°29'28"W, 27°46'18"S/48°29'27"W, 27°46'25"S/48°29'19"W, 27°18'12"S/48°33'21"W, 27°18'27"S/48°34'25"W, 27°17'13"S/48°35'09"W, 27°17'17"S/48°33'46"W, 27°14'52"S/48°32'02"W, 27°14'58"S/48°35'18"W, 27°13'52"S/48°35'W, 27°14'50"S/48°33'44"W, 27°12'30"S/48°31'20"W, 27°13'08"S/48°33'25"W, 27°11'04"S/48°31'53"W, 27°11'57"S/48°30'33"W, 26°42'S/47°14'W, 26°49'S/48°35'W, 26°38'S/46°52'W, 26°38'S/46°52'W, 26°15'S/46°53'W, 26°22'30"S/46°38'30"W, 26°20'18"S/48°43'13"W, 26°20'45"S/48°41'10"W, 26°16'24"S/48°41'47"W, 26°18'57"S/48°43'49"W, 26°14'24"S/48°43'59"W, 26°14'44"S/48°41'28"W, 26°12'49"S/48°36'51"W, 26°13'29"S/48°37'13"W, 26°12'16"S/48°45'45"W, 26°12'19"S/48°38'16"W, 26°11'27"S/48°37'50"W, 26°12'08"S/48°37'32"W, 26°10'30"S/48°45'47"W, 26°11'04"S/48°36'22"W, 26°10'21"/48°46'26"W, 26°10'24"S/48°46'38"W, 26°08'53"S/48°47'12"W, 26°10'04"S/48°45'55"W, 27°34'S/48°27'W |
| Museum: | USNM 103016, 103014, 123091, 103013, 103015 |
| Species: | <i>Sigambra pettiboneae</i> Hartmann-Schröder 1979 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'–27°18'S |
| Museum: | USNM 103016, 103014, 123091, 103013, 103015, IBUFRJ-1144 |

| | |
|--------------|---|
| Species: | <i>Sigambra setosa</i> Fauchald 1972 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This taxon seems to be endemic to the studied area. |

| | |
|--------------|---|
| Species: | <i>Sigambra</i> sp. n. |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'-27°18'S |
| Museum: | IBUFRJ-1145 |
| Note: | This is a new species, yet to be described. |

Family Pisionidae

| | |
|--------------|---|
| Species: | <i>Pisionidens indica</i> (Aiyar & Alikuhni 1940) |
| References: | Costa (2007) |
| Environment: | Sand beach |
| Depth: | Intertidal |
| Coordinates: | 26°14'29"S/48°30'24"W |

Family Poecilochaetidae

| | |
|--------------|--|
| Species: | <i>Poecilochaetus australis</i> Nonato 1963 |
| References: | Nonato (1963), Rohr & Almeida (2006), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, continental slope |
| Depth: | 10–150 m |
| Coordinates: | 26°38'S/46°52'W, 27°12'30"S/48°31'20"W |
| Museum: | IBUFRJ-1146 |

| | |
|--------------|---|
| Species: | <i>Poecilochaetus johnsoni</i> Hartman 1939 |
| References: | Becker (2009), Oortman (2010) |
| Environment: | Bay |
| Depth: | 2–11 m |
| Coordinates: | 26°13'29"S/48°37'13"W, 26°12'49"S/48°36'51"W, 26°12'59"S/48°36'39"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°10'04"S/48°45'55"W, 26°11'27"S/48°37'50"W |
| Note: | This taxon seems to be endemic to the studied area. |

| | |
|--------------|--|
| Species: | <i>Poecilochaetus polycirratu</i> s Santos & Mackie 2008 |
| References: | Almeida <i>et al.</i> (2012) |
| Environment: | Inner continental shelf |
| Depth: | 10–12 m |
| Coordinates: | Between 26°18'-27°18'S |
| Museum: | IBUFRJ-1147 |

Family: Polygordiidae

| | |
|--------------|---|
| Species: | <i>Polygordius eschaturus</i> Marcus 1948 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This taxon seems to be endemic to the studied area. |

Family: Polynoidae

| | |
|--------------|---|
| Species: | <i>Eunoe papillosa</i> Amaral & Nonato 1985 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |

| | |
|--------------|--|
| Species: | <i>Eunoe serrata</i> Amaral & Nonato 1982 |
| References: | Souza (2008), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf |
| Depth: | 1–12 m |
| Coordinates: | 27°35'S/48°35'W |
| Museum: | IBUFRJ-1148 |

| | |
|--------------|---|
| Species: | <i>Halosydnella brasiliensis</i> (Kinberg 1858) |
| References: | Amaral & Nonato (1982) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |

| | |
|--------------|--|
| Species: | <i>Halosydnella fusca</i> (Müller 1858) |
| References: | Müller (1858) as <i>Polynoe fusca</i> |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. |

| | |
|--------------|--|
| Species: | <i>Polynoe lunifera</i> Müller 1858 |
| References: | Müller (1858) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. |

| | |
|--------------|--|
| Species: | <i>Polynoe pallida</i> Müller 1858 |
| References: | Müller (1858) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. |

Family: Sabellariidae

| | |
|--------------|--|
| Species: | <i>Phragmatopoma caudata</i> Kroeyer in Mörch 1863 |
| References: | Kirtley (1994), present work |
| Environment: | Rocky shore |
| Depth: | Intertidal |
| Coordinates: | 27°26'32.85"S/ 48°31'23.99"W, 27°26'35.43"S/ 48°22'11.26"W, 27°44'52.81"S/ 48°29'55.69"W |

| | |
|--------------|---|
| Species: | <i>Sabellaria bella</i> Grube 1870 |
| References: | Gruet & Lana (1988), Lana & Bremec (1994) |
| Environment: | Continental shelf |
| Depth: | unknown |
| Coordinates: | unknown |

| | |
|--------------|--|
| Species: | <i>Sabellaria bellis</i> Hansen 1882 |
| References: | Rullier & Amoureux (1979), Gruet & Lana (1988), Lana & Bremec (1994) |
| Environment: | Inner continental shelf |
| Depth: | 18 m |
| Coordinates: | 27°15'S/48°29'W |
| Museum: | MNHN AK 566 |

Family: Sabellidae

| | |
|--------------|---|
| Species: | <i>Potamilla reniformis</i> (Müller 1778) |
| References: | Rullier & Amoureux (1979) |
| Environment: | Inner continental shelf |
| Depth: | 18 m |
| Coordinates: | 27°15'S/48°29'W |

Family: Serpulidae

| | |
|--------------|--|
| Species: | <i>Filograna implexa</i> Berkeley 1835 |
| References: | Zibrowius (1970) |
| Environment: | Continental slope |
| Depth: | 250 m |
| Coordinates: | Between 27°–28°S |

| | |
|--------------|--|
| Species: | <i>Hydroides dirampha</i> Mörch 1863 |
| References: | Zibrowius (1970), Rullier & Amoureux (1979) |
| Environment: | Inner continental shelf, outer continental shelf |
| Depth: | 18–90 m |
| Coordinates: | Between 27°–28°S, 27°15'S/48°29'W |

| | |
|--------------|---|
| Species: | <i>Hydroides gairacensis</i> Augener 1934 |
| References: | Zibrowius (1970) |
| Environment: | Middle continental shelf |
| Depth: | 33 m |
| Coordinates: | Between 27°–28°S |

| | |
|--------------|---|
| Species: | <i>Hydroides plateni</i> (Kinberg 1867) |
| References: | Rullier & Amoureux (1979) |
| Environment: | Inner continental shelf |
| Depth: | 18 m |
| Coordinates: | 27°15'S/48°29'W |

| | |
|--------------|---|
| Species: | <i>Neodexiospira brasiliensis</i> (Grube 1872) |
| References: | Knight-Jones & Knight-Jones (1991) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | This taxon seems to be endemic to the studied area. |

| | |
|--------------|--|
| Species: | <i>Pseudovermilia occidentalis</i> (McIntosh 1885) |
| References: | Amaral & Rossi-Wongtschowski (2004) |
| Environment: | Continental slope |
| Depth: | 165 m |
| Coordinates: | 26°27'45"S/44°30'21"W |

Family Sigalionidae

| | |
|--------------|--|
| Species: | <i>Ehlersileanira incisa</i> (Grube 1878) |
| References: | Temperini (1981), Attolini (2002) |
| Environment: | Outer continental shelf |
| Depth: | 98–117 m |
| Coordinates: | 28°09'42"S/47°54'42"W, 29°12'S/48°29'W, 26°06'54"S/47°12'30"W, 27°03'S/47°42.9'W |

| | |
|--------------|--|
| Species: | <i>Frimbriosthenelais marianae</i> Lana 1991 |
| References: | Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 150 m |
| Coordinates: | 26°38'S/46°52'W |

| | |
|--------------|---|
| Species: | <i>Sigalion cirriferum</i> Orensanz & Gianuca 1974 |
| References: | Lana (1984) |
| Environment: | Inner continental shelf |
| Depth: | 28 m |
| Coordinates: | 26°03'4"S/48°13'5"W |
| Species: | <i>Sigalion taquari</i> Amaral & Nonato 1984 |
| References: | Lana (1991a) |
| Environment: | Inner continental shelf, outer continental shelf |
| Depth: | 26–91 m |
| Coordinates: | 26°39'02"S/47°33'00"W, 26°03'04"S/48°15'07"W, 26°14'S/48°19'08"W, 26°03'01"S/48°16'04"W |
| Museum: | MCBM-BPO-133, 134, 137, 138 |
| Species: | <i>Sthenelais limicola</i> (Ehlers 1864) |
| References: | Lana (1991a), Souza (2008), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, inner continental shelf, middle continental shelf |
| Depth: | 1–37 m |
| Coordinates: | 26°44'S/48°25'W, 26°03'01"S/48°16'04"W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO-153, 160, 161, IBUFRJ-1149 |
| Species: | <i>Sthenelais mülleri</i> Grube 1875 |
| References: | Amaral & Nonato (1984) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Species: | <i>Sthenelanella cf. peterseni</i> Lana 1991 |
| References: | Souza (2008) |
| Environment: | Bay |
| Depth: | 1–4 m |
| Coordinates: | 27°35'S/48°35'W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Sthenolepis grubei</i> (Treadwell 1901) |
| References: | Santos (2000) |
| Environment: | Bay |
| Depth: | 1.5–1.8 m |
| Coordinates: | 27°28'17"S/48°31'90"W, 27°27'60"S/48°31'66"W |
| Species: | <i>Sthenolepis oculata</i> Hartman (1942) |
| References: | Rullier & Amoureux (1979), Temperini (1981), Lana (1984, 1991a) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 78–174 m |
| Coordinates: | 29°12'S/48°30'W, 28°36'S/47°39'W, 29°12'S/48°29'W, 28°26'S/47°39'W, 28°36'1"S/47°39'W, 26°08'S/47°18'W, 26°34'S/47°22'W |

Family Spionidae

| | |
|--------------|---|
| Species: | <i>Apoprionospio dayi</i> Foster 1969 |
| References: | Souza (2004, 2008), Netto <i>et al.</i> (2007), Vivan <i>et al.</i> (2009), Domingos (2010), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) as <i>Prionospio dayi</i> . |
| Environment: | Bay, estuarine beach, coastal lagoon, inner continental shelf |
| Depth: | intertidal–12 m |
| Coordinates: | 27°14'58"S/48°35'18"W, 27°13'52"S/48°35'W, 27°14'50"S/48°33'44"W, 26°53'36.6"S/48°37'00.0"W, 27°12'53"S/48°32'24"W, 27°35'S/48°35'W, 27°34'S/48°27'W |
| Museum: | IBUFRJ-1154 |
| Species: | <i>Dipolydora socialis</i> (Schmarda 1861) |
| References: | Netto & Gallucci (2003) as <i>Polydora socialis</i> . |
| Environment: | Mangrove |
| Depth: | Intertidal |
| Coordinates: | 27°29'S/48°30'W |
| Species: | <i>Dispio remanei</i> Friedrich 1956 |
| References: | Amaral & Morgado (1998), Souza (2008), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, estuarine beach, inner continental shelf |
| Depth: | 1–12 m |
| Coordinates: | 27°35'S/48°35'W |
| Museum: | IBUFRJ-1150 |
| Species: | <i>Gisela heteracantha</i> Müller 1858 |
| References: | Müller (1858) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. This taxon seems to be endemic to the studied area. |
| Species: | <i>Laonice aperata</i> Radashevsky & Lana 2009 |
| References: | Radashevsky & Lana (2009) |
| Environment: | Middle continental shelf , continental slope |
| Depth: | 38–225 m |
| Coordinates: | 28°53'22.2"S/47°48'30"W, 26°22'1"S/48°19'08"W, 26°29'5"S/48°21'4"W. |
| Museum: | MCEM 42, 43, USNM 100447, ZUEC POL 735 |
| Species: | <i>Laonice branchiata</i> Nonato, Bolivar & Lana 1986 |
| References: | Bolivar & Lana (1988), Netto <i>et al.</i> (2007), Souza (2008), Radashevsky & Lana (2009), Almeida <i>et al.</i> (2012) |
| Environment: | Bay, estuarine beach, inner continental shelf, middle continental shelf |
| Depth: | intertidal–39 m |
| Coordinates: | 26°44'S/48°25'8"W, 26°44'S/48°26'W, 26°06'S/46°10'W, 27°35'S/48°35'W |
| Museum: | MCEM 40, 53, 54, USNM 100451, IBUFRJ-1151 |

| | |
|--------------|--|
| Species: | <i>Laonice parvabbranchiata</i> Radashevsky & Lana 2009 |
| References: | Radashevsky & Lana (2009) |
| Environment: | Continental slope |
| Depth: | 322 m |
| Coordinates: | 26°50'48.6"S/46°33'57"W, |
| Museum: | ZUEC POL 732, MCBM-BPO 53 |
| Species: | <i>Laonice</i> sp. 1 |
| References: | Bolivar & Lana (1988), Attolini (2002), Blankensteyn <i>et al.</i> (2003), Rohr & Almeida (2006), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) as <i>Laonice cirrata</i> . |
| Environment: | Bay, inner continental shelf, continental slope |
| Depth: | 3–228 m |
| Coordinates: | 28°24'54"S/47°21'6"W, 27°15'S/48°25'W, 27°19'12.6"S/47°09'W, 27°12'53"S/48°32'24"W, 27°11'58"S/48°32'32"W, 27°12'30"S/48°31'20"W, 26°49'S/48°15'W, 27°11'57"S/48°30'33"W, 26°38'S/46°52'W, 26°22'30"S/46°38'30"W, 26°29'S/48°21'W, 25°57'S/47°49'W, 28°09'42"S/47°54'42"W |
| Museum: | MCBM-BPO 40, 42, 49, 51, IBUFRJ-1152 |
| Note: | The material previously referred to <i>L. cirrata</i> is either <i>L. branchiata</i> or <i>L. petersenae</i> Radashevsky and Lana (2009). |
| Species: | <i>Laonice weddellia</i> Hartman 1978 |
| References: | Radashevsky & Lana (2009) |
| Environment: | Continental slope |
| Depth: | 195–228 m |
| Coordinates: | 27°9'30.6"S/47°4'51"W, 26°49'54"S/46°47'47.4"W, 27°48'12"S/47°18'10.2"W. |
| Museum: | ZUEC POL 702, 703, 704 |
| Species: | <i>Microspio pigmentata</i> (Reish 1959) |
| References: | Bolivar & Lana (1988), Souza (2008) |
| Environment: | Bay, middle continental shelf |
| Depth: | 1–50 m |
| Coordinates: | 25°57'S/47°49'W, 26°29'S/48°21'W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO 59, 60 |
| Species: | <i>Paraprionospio tamaii</i> Delgado-Blas 2004 |
| References: | Bolivar & Lana (1988), Blankensteyn <i>et al.</i> (2003), Pagliosa (2005), Biz (2008), Francisco (2008), Souza (2008), Vivan <i>et al.</i> (2009), Domingos (2010), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012), Netto <i>et al.</i> (2012) as <i>Paraprionospio pinnata</i> . |
| Environment: | Bay, coastal lagoon, tidal flat, salt marsh, inner continental shelf, middle continental shelf, outer continental shelf |
| Depth: | Intertidal–91 m |
| Coordinates: | 28°29'15"S/48°47'27"W, 28°35'S/48°55'W, 27°15'S/48°25'W, 27°29'S/48°30'W, 27°12'53"S/48°32'24"W, 27°04'S/47°54'W, 27°38'16"S/48°32'37"W, 27°18'12"S/48°33'21"W, 27°18'27"S/48°34'25"W, 27°17'13"S/48°35'09"W, 27°17'17"S/48°33'46"W, 27°14'58"S/48°35'18"W, 27°17'10"S/48°32'51"W, 27°14'50"S/48°33'44"W, 27°14'52"S/48°32'02"W, 27°13'08"S/48°33'25"W, 27°13'52"S/48°35'W, 27°11'58"S/48°32'32"W, 27°12'30"S/48°31'20"W, 27°11'04"S/48°31'53"W, 27°11'57"S/48°30'33"W, 26°53'36.6"S/48°37'00.0"W, 26°38'S/47°38'W, 26°44'S/48°26'W, 26°23'S/48°07'W, 25°57'S/47°49'W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO 78, 79, 80, 82, 83, IBUFRJ-1153 |

| | |
|--------------|---|
| Species: | <i>Polydora cf. haswelli</i> Blake & Kudenov 1978 |
| References: | Netto & Gallucci (2003), Silva (2004), Souza (2004), Goetsch (2005), Pagliosa (2005), Sabry & Magalhães (2005), Pagliosa & Barbosa (2006), Netto <i>et al.</i> (2007), Pontinha (2009), Becker (2009) as <i>Polydora websteri</i> . |
| Environment: | Bay, coastal lagoon, mangrove, creek, tidal flat |
| Depth: | Intertidal–11 m |
| Coordinates: | 27°29'18.8"S/48°32'12.9"W, 27°29'S/48°30'W, 26°18'22"S/48°43'22"W, 26°21'16"S/48°42'27"W, 26°12'49"S/48°36'51"W, 26°12'59"S/48°36'39"W, 26°11'59"S/48°37'41"W, 26°12'08"S/48°37'32"W, 26°09'25"S/48°46'33"W, 26°11'27"S/48°37'50"W, 27°34'S/48°27'W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Prionospio cf. cirrifera</i> Wirén 1883 |
| References: | Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 150 m |
| Coordinates: | 26°38'S/46°52'W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Prionospio ehlersi</i> Fauvel 1928 |
| References: | Silva (2004) |
| Environment: | Coastal Lagoon |
| Depth: | 0.2 m |
| Coordinates: | 27°34'S/48°27'W |
| Species: | <i>Prionospio heterobranchia</i> Moore 1907 |
| References: | Silva (2004), Pagliosa (2005), Souza (2008) |
| Environment: | Bay, coastal lagoon |
| Depth: | 0.2–4 m |
| Coordinates: | 27°29'S/48°30'W, 27°35'S/48°35'W, 27°34'S/48°27'W |
| Species: | <i>Prionospio</i> sp. |
| References: | Bolivar & Lana (1988), Blankensteyn <i>et al.</i> (2003), Silva (2004), Rohr & Almeida (2006), Almeida & Vivan (2011), Almeida <i>et al.</i> (2012) as <i>Prionospio steenstrupi</i> . |
| Environment: | Bay, coastal lagoon, inner continental shelf, middle continental shelf, continental slope |
| Depth: | 0.2–150 m |
| Coordinates: | 27°15'S/48°25'W, 27°37'54"S/48°31'51"W, 27°11'04"S/48°31'53"W, 27°11'57"S/48°30'33"W, 26°38'S/46°52'W, 26°21'13"S/48°33'18"W, 25°57'S/47°49'W, 27°34'S/48°27'S |
| Museum: | MCBM-BPO 91, IBUFRJ-1155 |
| Note: | This material needs to be revised. It is probably a new species. |
| Species: | <i>Scoelelepis goodbodyi</i> (Jones 1962) |
| References: | Amaral & Morgado (1998), Gallucci & Netto (2004), Alves (2004), Tártari (2006), Almeida (2007), Broocke (2008), Egres (2008), Souza (2008) |
| Environment: | Bay, sand beach, estuarine beach |
| Depth: | Intertidal–4 m |
| Coordinates: | 28°24'51.18"S/48°44'49.44"W, 28°28'57.72"S/48°45'59.76"W, 26°10'28.2"S/48°32'7.44"W, 26°13'5.22"S/48°30'53.76"W, 26°10'59"S/48°36'19"W, 26°12'50"S/48°39'24"W, 26°52'12"S/48°37'37"W, 26°56'45"S/48°37'37"W, 27°35'S/48°35'W |

| | |
|--------------|---|
| Species: | <i>Spio (Microspio) gaucha</i> Orensanz & Gianuca 1974 |
| References: | Amaral & Morgado (1998) |
| Environment: | Beach |
| Depth: | unknown |
| Coordinates: | unknown |
| Species: | <i>Spiophanes anoculata</i> Hartman 1960 |
| References: | Blankensteyn <i>et al.</i> (2003), Almeida <i>et al.</i> (2012) as <i>Spiophanes bombix</i> . |
| Environment: | Inner continental shelf |
| Depth: | 7–25 m |
| Coordinates: | 27°15'S/48°25'W |
| Museum: | IBUFRJ-1156 |
| Species: | <i>Spiophanes berkeleyorum</i> Pettibone 1962 |
| References: | Attolini (2002), Souza (2008) as <i>Spiophanes kroeyri</i> . |
| Environment: | Bay, outer continental shelf, continental slope |
| Depth: | 1–228 m |
| Coordinates: | 28°09'42"S/47°54'42"W, 28°24'54"S/47°21'6"W, 26°06'54"S/47°12'30"W, 27°19'12,6"S/47°09'W, 27°35'S/48°35'W |
| Note: | This material needs to be revised, due to some consistent differences with the original description. |
| Species: | <i>Spiophanes duplex</i> (Chamberlin 1919) |
| References: | Bolivar & Lana (1988), Blankensteyn <i>et al.</i> (2003) as <i>Spiophanes missionensis</i> . |
| Environment: | Inner continental shelf, middle continental shelf, outer continental shelf |
| Depth: | 7–79 m |
| Coordinates: | 27°04'S/47°54'W, 27°15'S/48°25'W, 26°44'S/48°26'W, 26°49'S/48°15'W, 26°23'S/48°07'W, 26°29'S/48°21'W, 25°57'S/47°49'W |
| Museum: | MCBM-BPO 63, 64, 66, 67, 70, 71 |

Family: Sternaspidae

| | |
|--------------|---|
| Species: | <i>Sternaspis capillata</i> Nonato 1966 |
| References: | Nonato (1981), Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 98–130 m |
| Coordinates: | 28°35'S/48°15'W, 27°03'S/47°42'54"W, 28°09'42"S/47°54'42"W, 26°15'S/46°53'W, 26°42'S/47°14'W, 26°06'54"S/47°12'30"W |

Family: Syllidae

| | |
|--------------|---|
| Species: | <i>Exogone arenosa</i> Perkins 1980 |
| References: | Attolini (2002), Pagliosa (2005), Rohr & Almeida (2006), Netto <i>et al.</i> (2007), Souza (2008) |
| Environment: | Bay, estuarine beach, continental slope |
| Depth: | Intertidal–327 m |
| Coordinates: | 28°35'S/48°15'W, 28°51'36"S/47°42'W, 27°10'18"S/47°27'30"W, 27°29'S/48°30'W, 26°38'S/46°52'W, 26°06'54"S/47°12'30"W, 26°22'30"S/46°38'30"W, 27°35'S/48°35'W |

| | |
|--------------|---|
| Species: | <i>Exogone dispar</i> (Webster, 1879) |
| References: | Temperini (1981) |
| Environment: | Middle continental shelf, outer continental shelf, continental slope |
| Depth: | 50–174 m |
| Coordinates: | 28°05'S/48°07'W, 28°36'S/47°39'W, 26°34'S/48°10'W, 27°00'S/47°04'W |
| Species: | <i>Odontosyllis heterofalchaeta</i> Temperini 1981 |
| References: | Temperini (1981), Lana (1984) |
| Environment: | Inner continental shelf |
| Depth: | 25 m |
| Coordinates: | 29°10'S/49°29'W |
| Species: | <i>Pionosyllis pectinata</i> Temperini 1981 |
| References: | Temperini (1981), Souza (2008) |
| Environment: | Bay, middle continental shelf, continental slope |
| Depth: | 1–160 m |
| Coordinates: | 26°34'S/48°10'W, 27°00'S/47°04'W, 27°35'S/48°35'W |
| Species: | <i>Salvatoria limbata</i> (Claparède, 1868) |
| References: | Silva (2004) as <i>Brania limbata</i> . |
| Environment: | Coastal lagoon |
| Depth: | 0.2 m |
| Coordinates: | 27°34'S/48°27'S |
| Species: | <i>Syllis hyalina</i> Grube 1863 |
| References: | Santos (2000) as <i>Tiposyllis hyalina</i> . |
| Environment: | Bay |
| Depth: | 1.5 m |
| Coordinates: | 27°27'60"S/48°31'66"W |
| Species: | <i>Typosyllis variegata</i> (Grube, 1860) |
| References: | Attolini (2002), Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 145–228 m |
| Coordinates: | 28°24'54"S/47°21'6"W, 27°19'12.6"S/47°09'W, 27°48'S/47°24'6"W, 26°38'S/46°52'W, 26°22'30"S/46°38'30"W |

Family: Terebellidae

| | |
|--------------|---------------------------------------|
| Species: | <i>Artacama benedeni</i> Kinberg 1866 |
| References: | Nonato (1981), Blankensteyn (1988) |
| Environment: | Outer continental shelf |
| Depth: | 81 m |
| Coordinates: | 27°3'S/47°54'8"W |
| Museum: | MCBM-BPO 252 |

| | |
|--------------|---|
| Species: | <i>Loimia grubei</i> Holthe 1986 |
| References: | Blankensteyn (1988) |
| Environment: | Outer continental shelf |
| Depth: | 71 m |
| Coordinates: | 26°51'5"S/47°6'2"W |
| Species: | <i>Nicolea uspiana</i> (Nogueira, 2003) |
| References: | Blankensteyn & Moreno (1999) as <i>Nicolea venustula</i> |
| Environment: | Sand beach |
| Depth: | unknown |
| Coordinates: | 26°04'S/48°36'W |
| Species: | <i>Pista nonatoi</i> Nogueira, Harris, Hutchings & Fukuda, 2011 |
| References: | Blankensteyn (1988) as <i>Pista corrientis</i> Nogueira <i>et al.</i> (2011) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 26°44'S/48°25'8"W, 26°22'1"S/48°19'8"W |
| Museum: | MCBM-BPO 269, 273, 272 |
| Species: | <i>Pista cristata</i> Müller 1776 |
| References: | Blankensteyn (1988) |
| Environment: | Middle continental shelf |
| Depth: | 38–50 m |
| Coordinates: | 26°44'S/48°25'8"W, 26°22'1"S/48°19'8"W, 26°29'5"S/48°21'4"W |
| Museum: | MCBM-BPO 264, 265, 266, 268 |
| Note: | This material needs to be revised, since <i>P. cristata</i> is most probably a species complex. |

Family: Trichobranchidae

| | |
|--------------|---|
| Species: | <i>Terebellides anguicomus</i> Müller 1858 |
| References: | Müller (1858), Blankensteyn (1988), Coelho (1992), Boehs <i>et al.</i> (2003), Souza (2008) |
| Environment: | Bay, tidal flat, middle continental shelf |
| Depth: | intertidal–38 m |
| Coordinates: | 27°22'S/40°32'W, 27°27'S/48°37'W, 26°29'5"S/48°21'4"W, 27°35'S/48°35'W |
| Museum: | MCBM-BPO 250 |
| Species: | <i>Terebellides lanai</i> Solis-Weiss <i>et al.</i> 1991 |
| References: | Attolini (2002) |
| Environment: | Outer continental shelf, continental slope |
| Depth: | 100–490 m |
| Coordinates: | 28°24'54"S/47°21'6"W, 27°48'S/47°24'6"W, 28°00'12"S/46°55'6"W, 26°22'30"S/46°38'30"W, 27°03'S/47°42'54"W |

| | |
|--------------|---|
| Species: | <i>Terebellides sepultura</i> Garrafoli & Lana 2003 |
| References: | Rohr & Almeida (2006) |
| Environment: | Continental slope |
| Depth: | 145–150 m |
| Coordinates: | 26°38'S/46°52'W |

Family: Trochochaetidae

| | |
|--------------|--|
| Species: | <i>Cherusca nitens</i> Müller 1858 |
| References: | Müller (1858) |
| Environment: | unknown |
| Depth: | unknown |
| Coordinates: | unknown |
| Note: | Specimens from the type locality are needed to elucidate the taxonomical position of this species. This species seems to be endemic to the studied area. |
