

Checklist of the littoral gastropods (Mollusca Gastropoda) from the Archipelago of the Azores (NE Atlantic)

Ricardo Cordeiro^{1,2,*}, José P. Borges³, António M.F. Martins^{1,2} & Sérgio P. Ávila^{1,2}

¹CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, InBIO Laboratório Associado, Pólo dos Açores, Universidade dos Açores, Campus de Ponta Delgada, Apartado 1422, 9501-801 Ponta Delgada, Açores, Portugal

²Departamento de Biologia, Universidade dos Açores, Campus de Ponta Delgada, Apartado 1422, 9501-801 Ponta Delgada, Açores, Portugal

³IPM - Instituto Português de Malacologia, ZooMarine E.N. 125, km 65 Guia, 8201-864 Albufeira, Portugal

*Corresponding author, e-mail: rjpcordeiro@gmail.com

ABSTRACT

The littoral gastropods (Mollusca Gastropoda) are probably the best known marine invertebrates in the Azores. Recently, this fauna has been studied by several authors, resulting in a regular increase of the knowledge of its biodiversity. However, the data are scattered by numerous publications, making it clear the need of an updated checklist of the littoral gastropods from the Azores. Our study presents a checklist of the littoral gastropods from the Azores, based on data from the literature and from new material examined. The occurrence of *Caecum gofasi*, *Cerithiopsis* cf. *nana*, *Curveulima dautzenbergi*, *Liostomia mamoi*, *Mangelia scabrida*, and *Rissoella contrerasi* is reported for the first time. Our findings expand the known regional biodiversity of littoral gastropods to 281 species. A list of dubious records and misidentifications is also presented, as well as the reasons for the exclusion of these species from the checklist.

KEY WORDS

Azores; Gastropoda; littoral; Mollusca; NE Atlantic.

Received 24.11.2015; accepted 12.12.2015; printed 30.12.2015

INTRODUCTION

The marine molluscs (Mollusca Gastropoda) of the Archipelago of the Azores (located in the North-east Atlantic Ocean, see Fig. 1) have received greater attention from the second half of the 19th century on, as a result of major scientific expeditions (see MacAndrew, 1857; Drouët, 1858; Watson, 1886; Simroth, 1888; Dautzenberg, 1889). During the 20th century a number of publications have also addressed this subject (see Ávila, 2000a, 2000b, 2005 and references therein). Ávila (2005; PhD thesis not published) summarized the knowledge about the marine molluscs of the Azores until

that moment, counting 227 littoral gastropod species. The Azorean littoral gastropods have been addressed by several authors in the last years, with a regular increase of the knowledge of its biodiversity, as a result of new records and description of new species (Chan & Gosliner, 2007; Aartsen, 2008; Nolt, 2008; Malaquias et al., 2009; Martins et al., 2009; Ávila et al., 2011; Malaquias et al., 2011; Pedro et al., 2011; Cordeiro et al., 2013; Hart & Wirtz, 2013; Jensen, 2014; Malaquias et al., 2014). More recently, Cordeiro & Ávila (2015) described four new rissoid species, Rubio et al. (2015) described a new *Parviturbo* species and Ávila et al. (2015) reported the occurrence of a

newly-established trochid in Santa Maria Island. Consequently, the littoral gastropods are probably the best known marine invertebrates in the Azores. However, as evidenced above, the data are scattered by numerous publications, making it clear the need of an updated checklist of the littoral gastropods from the Azores.

Up-to-date lists of species from a given geographic area are of primary importance for any study related with biodiversity, ecology, biogeography, and conservation management.

MATERIAL AND METHODS

The compilation of the checklist of the littoral gastropods from the Azores (here defined as the benthic gastropod species living from the intertidal down to 50 m depth) was carried out through a careful literature review. The references published since the first report on the Azorean marine molluscs written by MacAndrew (1857) were reviewed by Ávila et al. (1998), Ávila (2000b), Ávila et al.

(2000a), Ávila et al. (2000b) and Ávila et al. (2004), and a preliminary checklist was assembled by Ávila (2005). This checklist was analysed and complemented with the following reports from 2006 on: Oliverio & Gofas (2006), Chan & Gosliner (2007), Aartsen (2008), Nolt (2008), Malaquias et al. (2009), Martins et al. (2009), Segers et al. (2009), Malaquias et al. (2011), Moreno (2011), Pedro et al. (2011), Geiger (2012), Cordeiro et al. (2013), Hart & Wirtz (2013), Jensen (2014), Malaquias et al. (2014), Cordeiro & Ávila (2015), and Rubio et al. (2015). An analysis of the marine mollusc collection held by the Department of Biology of the University of the Azores (DBUA) was also performed and a total of 1142 lots containing thousands of specimens were examined. DBUA specimens analysed in the present study were obtained from samples collected by about 850 dives and dredges in all islands and main seamounts of the Azores, between the years 1967 and 2015, from the intertidal down to 50 m depth. Additionally, the Natural History Museum of Rotterdam mollusc

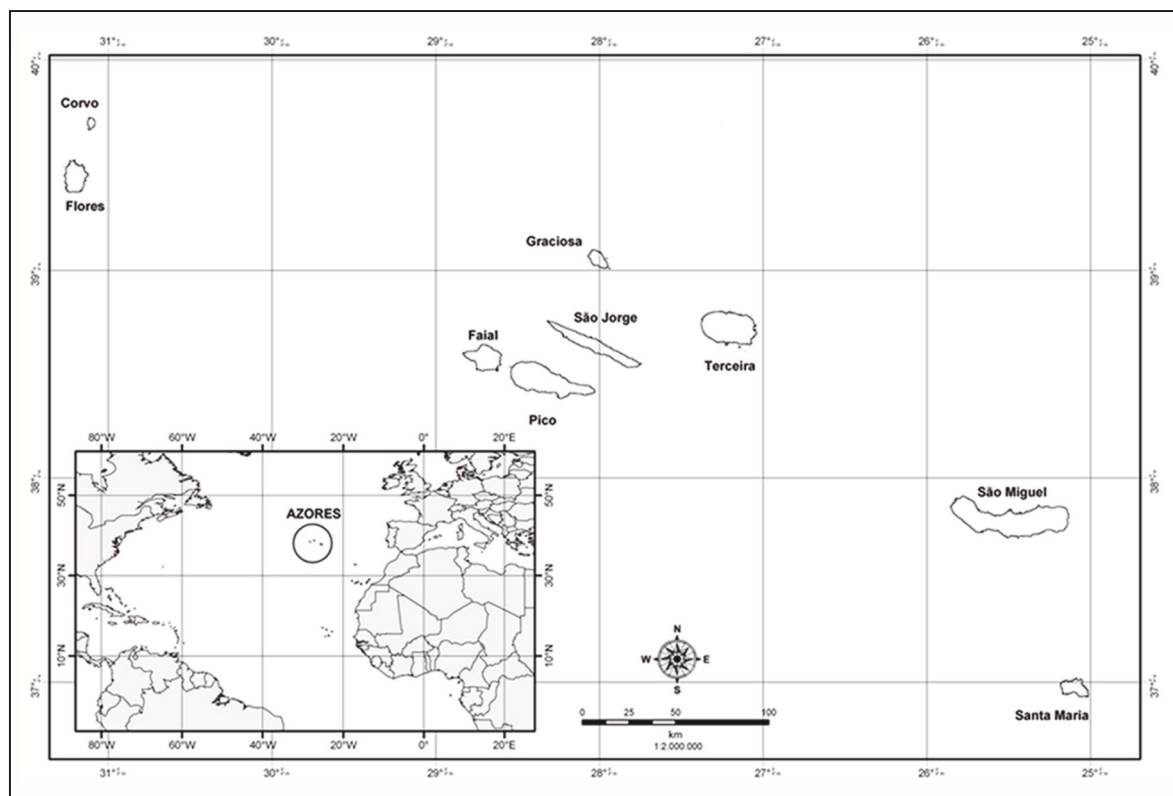


Figure 1. Archipelago of the Azores, located in the Northeast Atlantic Ocean.

collection (NMR) was consulted through its dedicated website at URL: www.nmr-pics.nl.

For confirmation of the identifications, and whenever possible, the shells of specimens believed to be new species' records were sonicated, coated with Au-Pd in a vacuum evaporator JEOL JEE 400, and then photographed with a JEOL JFM-5410 Scanning Electron Microscope (SEM) at the Department of Biology of the University of the Azores. Alternatively, they were photographed using a Nikon SMZ1000 stereomicroscope with a Nikon D200 digital camera attached.

The systematic position of the families presented in the checklist follows Bouchet & Rocroi (2005). The taxonomy and nomenclature used follows World Register of Marine Species (WoRMS Editorial Board, 2015).

ABREVIATION AND ACRONYMS. Geographic range within the North-Atlantic Ocean and the Mediterranean Sea: GRE: Greenland; SCA: Scandinavia; BRI: British Isles; POR: mainland Portugal; MED: Mediterranean Sea; AZO: Archipelago of the Azores; MAD: Archipelago of Madeira; CAN: Canary Islands; CAP: Cape Verde; NWA: Northwest Africa; NSC: New Scotia, Canada; VIR: Virginia, USA; CRL: North and South Carolina, USA; GME: Gulf of Mexico; CAR: Caribbean Sea. Record type: LIT: Literature; VOU: Collection voucher.

RESULTS

A checklist of the littoral gastropods from the Azores is herein presented, based on data from the literature and from material examined (Table 1).

Our work documents for the first time the occurrence of six littoral gastropods in the Azores (Figs. 2–11):

i) *Caecum gofasi* Pizzini et Nofroni, 2001: DBUA 355/13 - Formigas Islets, 15 m depth, 03/07/1991; DBUA 662/19 - Lajes, Pico Island, 3 m depth, 07/08/1995; and DBUA 1096 - Angra do Heroísmo, Terceira Island, intertidal, 07/1967.

ii) *Cerithiopsis* cf. *nana* Jeffreys, 1867: DBUA 560/9 - Baixa do Porto, Flores Island, 10 m depth, 27/10/1990; DBUA 707/1 - Capelas, São Miguel Island, 3.5 m depth, 19/07/1996; and DBUA 748/12 - Capelas, São Miguel Island, 14 m depth, 07/10/1996.

iii) *Curveulima dautzenbergi* (Pallary, 1900): NMR 32213 - Lajes, Pico Island, intertidal, 07/2001.

iv) *Liostomia mamoi* Mifsud, 1993: DBUA 499/1 - Lajes, Pico Island, 1 m depth, 27/06/1991.

v) *Mangelia scabrida* Monterosato, 1890: NMR 34350 - Vila Franca do Campo Islet, São Miguel Island, 2 m depth, 08/2002.

vi) *Rissoella contrerasi* Rolán et Hernández, 2004: DBUA 48/2 - Baía da Folga, Graciosa Island, 5 m depth, 06/1988; DBUA 195/8 - Santa Cruz, Flores Island, intertidal, 09/07/1989; DBUA 352/9 - Formigas Islets, intertidal, 05/06/1990; DBUA 730/18 - Baía de Belém, São Miguel Island, 8.6 m depth, 04/07/1990; DBUA 898/2 - Atalhada, São Miguel Island, 11.2 m depth, 10/10/1996; and DBUA 1018/4 - Vila do Porto Islet, Santa Maria Island, 17 m depth, 26/08/2004.

A thorough review of the literature allowed excluding from the checklist a total of 53 dubious records or misidentifications (Table 2).

CHECK LIST

Family PATELLIDAE Rafinesque, 1815

Patella aspera Röding, 1798

Geographic range. AZO, MAD, CAN, NWA.

Depth range. 0–15 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Patella nigrosquamosa* Dunker (Variet. *minor*).

Patella candei d'Orbigny, 1840

Geographic range. AZO, MAD, CAN.

Depth range. 0–5 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Patella vulgata* Linnaeus.

Family LOTTIIDAE Gray, 1840

Tectura virginea (O.F. Müller, 1776)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–100 m.

Record type. LIT/VOU.

First record. Jeffreys (1882)

Family LEPETIDAE Gray, 1850

Propilidium exiguum (W. Thompson, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 7–600 m.

Record type. LIT/VOU.

First record. Dautzenberg & Fischer (1896) as *Propilidium bavayi* Dautzenberg et H. Fischer.

Family HALIOTIDAE Rafinesque, 1815

Haliotis tuberculata Linnaeus, 1758

Geographic range. BRI, POR, MED, AZO, CAN, NWA.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. MacAndrew (1857).

Family SCISSURELLIDAE Gray, 1847

Scissurella azorensis Nolt, 2008

Geographic range. MED, AZO.

Depth range. 0–145 m.

Record type. LIT.

First record. Nolt (2008).

Scissurella lobini (Burnay et Rolán, 1990)

Geographic range. AZO, CAN, CAP.

Depth range. 32–785 m.

Record type. LIT.

First record. Geiger (2012).

Sinezona cingulata (O.G. Costa, 1861)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–60 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Schismope fayalensis* nov. sp.

Family ANATOMIDAE McLean, 1989

Anatoma aspera (Philippi, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA, CAR.

Depth range. 10–720 m.

Record type. LIT.

First record. Segers et al. (2009) as *Anatoma crispata* (Fleming, 1828).

Anatoma crispata (Fleming, 1828)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, NWA, NSC.

Depth range. 100–3000 m.

Record type. LIT.

First record. Jeffreys (1883) as *Scissurella crispata* Fleming.

Anatoma janusa Geiger, 2012

Geographic range. AZO, NWA.

Depth range. 0–1 m.

Record type. LIT.

First record. Geiger (2012).

Family TROCHIDAE Rafinesque, 1815

Clelandella azorica Gofas, 2005

Geographic range. Endemic AZO

Depth range. 30–360 m.

Record type. LIT.

First record. Dautzenberg (1927) as *Trochus miliaris* Brocchi.

Remarks. Described by Gofas (2005).

Gibbula delgadensis Nordsieck, 1982

Geographic range. Endemic AZO.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. Nordsieck (1982).

Gibbula magus (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 5–70 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Trochus magus* Linnaeus.

Jujubinus pseudogravinae Nordsieck, 1973

Geographic range. Endemic AZO.

Depth range. 0–80 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Trochus striatus* Linnaeus.

Remarks. Described by Nordsieck (1973).

Phorcus sauciatus (Koch, 1845)

Geographic range. Cryptogenic. POR, AZO, MAD, CAN.

Depth range. 0–1 m.

Record type. LIT/VOU.

First record. Ávila et al. (2015).

Family CALLIOSTOMATIDAE Thiele, 1924 (1847)

Calliostoma lividum (Dautzenberg, 1927)

Geographic range. Endemic AZO.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Trochus zizyphinus* Linnaeus.

Remarks. Described by Dautzenberg (1927), as *Calliostoma conulus* var. *livida*.

Family SKENEIDAE Clark W., 1851

Parviturbo azoricus Rubio, Rolán et Segers, 2015

Geographic range. Endemic AZO.

Depth range. 0–35 m.

Record type. LIT/VOU.

First record. Segers (2002) as *Parviturbo* cf. *rolani* Engl, 2001.

Remarks. Described by Rubio et al. (2015).

Family PHASIANELLIDAE Swainson, 1840

Tricolia pullus azorica (Dautzenberg, 1889)

Geographic range. Endemic AZO.

Depth range. 0–35 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Phasianella pullus* Linnaeus.

Remarks. Described by Dautzenberg (1889).

Family CERITHIIDAE Fleming, 1822

Bittium nanum (Mayer, 1864)

Geographic range. Endemic AZO.

Depth range. 0–50 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Cerithium reticulatum* Costa.

Remarks. Described by Mayer (1864) as *Cerith-*

iopsis nana (fossil). Restored as valid species and redescribed by Moreno (2011).

Family LITIOPIDAE Gray, 1847

Litiopa melanostoma Rang, 1829

Geographic range. AZO, CRL, GME, CAR.

Depth range. 0–32 m.

First record. Drouët (1858) as *Litiopa grate-loupeana* nov. sp.

Family PLANAXIDAE Gray, 1850

Fossarus ambiguus (Linnaeus, 1758)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, CAR.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Fossarus adan-soni* Philippi.

Family CYPRAEIDAE Rafinesque, 1815

Luria lurida (Linnaeus, 1758)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–60 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Cypraea lurida* Linnaeus.

Family LITTORINIDAE Children, 1834

Littorina saxatilis (Olivi, 1792)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, MAD, CAN, NWA, NSC, VIR.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Reid (1996) as *Littorina (Neritrema) saxatilis* (Olivi, 1792).

Melarhaphe neritoides (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Littorina caerule-cens* Lamarck.

Tectarius striatus (King, 1832)

Geographic range. AZO, MAD, CAN, CAP.

Depth range. 0 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Littorina striata*.

Family SKENEOPSIDAE Iredale, 1915

Skeneopsis planorbis (O. Fabricius, 1780)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, MAD, CAN, NWA, NSC, VIR, CRL.

Depth range. 0–70 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Skeneia planorbis* O. Fabricius.

Family NATICIDAE Guilding, 1834

Natica prietoi Hidalgo, 1873

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–200 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Natica variabilis* Recluz.

Family RISSOIDAE Gray, 1847

Alvania abstersa van der Linden et van Aartsen, 1994

Geographic range. Endemic AZO.

Depth range. 5–35 m.

Record type. LIT/VOU.

First record. Linden (1993) as *Alvania obsoleta*.

Remarks. Redescribed by Linden & Aartsen (1994).

Alvania angioyi van Aartsen, 1982

Geographic range. Endemic AZO.

Depth range. 5–22 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Alvania (Alvinia) watsoni* Schwartz.

Remarks. Described by Aartsen (1982).

Alvania cancellata (da Costa, 1778)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 3–50 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Rissoa crenulata* Michaud, 1830.

Alvania formicarum Gofas, 1989

Geographic range. Endemic AZO.

Depth range. 0–142 m.

Record type. LIT/VOU.

First record. Gofas (1989a).

Alvania internodula Hoenselaar et Goud, 1998

Geographic range. Endemic AZO.

Depth range. 0–300 m.

Record type. LIT/VOU.

First record. Hoenselaar & Goud (1998)

Alvania mediolittoralis Gofas, 1989

Geographic range. Endemic AZO.

Depth range. 0–24 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Alvania mariae* d'Orbigny.

Remarks. Described by Gofas (1989b) and re-described by Gofas (1990).

Alvania poucheti Dautzenberg, 1889

Geographic range. Endemic AZO.

Depth range. 1–20 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889).

Alvania sleursi (Amati, 1987)

Geographic range. AZO, MAD.

Depth range. 0–45 m.

Record type. LIT/VOU.

First record. Watson (1886) as *Rissoa (Alvania) hispidula* (Monterosato).

Remarks. Described by Amati (1987) as *Manzonina (Alvinia) sleursi* and redescribed by Gofas (1990).

Alvania tarsodes (Watson, 1886)

Geographic range. Endemic AZO.

Depth range. 8–57 m.

Record type. LIT/VOU.

First record. Watson (1886) as *Rissoa (Alvania) tarsodes*.

Botryphallus ovummuscae (Gofas, 1990)

Geographic range. Endemic AZO.

Depth range. 0–20 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Peringiella nitida* Brusina.

Remarks. Described by Gofas (1990) as *Peringiella ovummuscae*.

Cingula trifasciata (J. Adams, 1800)

Geographic range. SCA, BRI, POR, MED, AZO.

Depth range. 0–2 m.

Record type. LIT/VOU.

First record. MacAndrew (1857), as *Rissoa cingillus* Montagu.

Crisilla iunoniae (Palazzi, 1988)

Geographic range. AZO, MAD, CAN.

Depth range. 0–60 m.

Record type. LIT.

First record. Ávila (2005; Hoenselaar & Goud, in litt.).

Crisilla postrema (Gofas, 1990)

Geographic range. AZO, MAD.

Depth range. 0–29 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Setia abjecta* Watson.

Remarks. Described by Gofas (1990) as *Alvania (Crisilla) postrema*.

Manzonina martinsi Ávila et Cordeiro, 2015

Geographic range. Endemic AZO.

Depth range. 1–5 m.

Record type. LIT/VOU.

First record. Cordeiro & Ávila (2015)

Manzonina unifasciata Dautzenberg, 1889

Geographic range. Endemic AZO.

Depth range. 0–20 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Manzonina costata* J. Adams, var. ex colore *unifasciata* nov. var., *Manzonina costata* J. Adams, var. ex colore *bifasciata* nov. var., *Manzonina costata* J. Adams,

var. ex colore *luteola* nov. var., and *Manzonina auranziaca* Watson.

Remarks. Raised to species status by Moolenbeek & Faber (1987). Redescribed by Gofas (1990).

Obtusella intersecta (S. Wood, 1857)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 15–620 m.

Record type. LIT.

First record. Ávila (2005; Hoenselaar & Goud, in litt.).

Onoba moreleti Dautzenberg, 1889

Geographic range. Endemic AZO.

Depth range. 14–234 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889)

Pusillina inconspicua (Alder, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 0–100 m.

Record type. LIT.

First record. Martins (2004).

Rissoa guernei Dautzenberg, 1889

Geographic range. Endemic AZO.

Depth range. 14–30 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Rissoia guernei* nov. sp. and *Rissoia obesula* nov. sp.

Remarks. Redescribed by Gofas (1990).

Rissoa mirabilis Manzoni, 1868

Geographic range. AZO, MAD, CAN.

Depth range. 35–55 m.

Record type. LIT.

First record. Ávila (2005; Hoenselaar & Goud, in litt.)

Setia alexandrae Ávila et Cordeiro, 2015

Geographic range. Endemic AZO.

Depth range. 0–20 m.

Record type. LIT/VOU.

First record. Ávila et al. (1998) as *Setia* sp.

Remarks. Described by Cordeiro & Ávila (2015).

Setia ambigua (Brugnone, 1873)

Geographic range. MED, AZO, CAN.

Depth range. 0–12 m.

Record type. LIT.

First record. Ávila (2005; Hoenselaar & Goud, in litt.)

Setia ermelindoi Ávila et Cordeiro, 2015

Geographic range. Endemic AZO.

Depth range. 0–25 m.

Record type. LIT/VOU.

First record. Segers (2002) as *Setia* cf. *lacourti* (Verduin, 1984).

Remarks. Described by Cordeiro & Ávila (2015).

Setia netoae Ávila et Cordeiro, 2015

Geographic range. Endemic AZO.

Depth range. 0–10 m.

Record type. LIT/VOU.

First record. Cordeiro & Ávila (2015)

Setia quisquiliarum (Watson, 1886)

Geographic range. AZO, CAN.

Depth range. 15–914 m.

Record type. LIT.

First record. Watson (1886) as *Rissoa* (*Setia*) *quisquiliarum*.

Setia subvaricosa Gofas, 1990

Geographic range. Endemic AZO.

Depth range. 0–22 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Setia abjecta* Watson.

Remarks. Described by Gofas (1990).

Family ANABATHRIDAE Keen, 1971

Pisinna glabrata (Megerle von Mühlfeld, 1824)

Geographic range. MED, AZO, MAD, CAN, NWA.

Depth range. 0–1 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Pisinna punctulum* Philippi.

Family ASSIMINEIDAE H. Adams et A. Adams, 1856

Assimineea avilai van Aartsen, 2008

Geographic range. Endemic AZO.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Aartsen (2008).

Paludinella globularis (Hanley in Thorpe, 1844)

Geographic range. MED, AZO, MAD, CAN, NWA.

Depth range. 0–15 m.

Record type. LIT/VOU.

First record. Morton et al. (1998) as *Paludinella littorina*.

Family CAECIDAE Gray, 1850

Caecum armoricum de Folin, 1869

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 6–50 m.

Record type. LIT.

First record. Hoeksema & Segers (1993)

Caecum clarkii Carpenter, 1859

Geographic range. BRI, POR, MED, AZO, MAD, CAN.

Depth range. 10–30 m.

Record type. LIT.

First record. Aartsen & Fehr-de-Wal (1975).

Caecum gofasi Pizzini et Nofroni, 2001

Geographic range. AZO.

Depth range. 3–280 m.

Record type. VOU.

First record. This work.

Caecum wayae Pizzini et Nofroni, 2001

Geographic range. Endemic AZO.

Depth range. 2–6 m.

Record type. LIT/VOU.

First record. Pizzini & Nofroni (2001)

Family ELACHISINIDAE Ponder, 1985

Elachisina azoreana Rolán et Gofas, 2003

Geographic range. Endemic AZO.

Depth range. 6–9 m.

Record type. LIT.

First record. Rolán & Gofas (2003).

Family TORNIDAE Sacco, 1896 (1884)

Teinostoma azoricum (Dautzenberg et H. Fischer, 1896)

Geographic range. Endemic AZO.

Depth range. 5–1000 m.

Record type. LIT.

First record. Dautzenberg & Fischer (1896) as *Tinostoma azorica* nov. sp.

Family TRUNCATELLIDAE Gray, 1840

Truncatella subcylindrica (Linnaeus, 1767)

Geographic range. Introduced. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 1–5 m.

Record type. LIT/VOU.

First record. Martins (1980) as *Truncatella (Truncatella) subcylindrica* (Linnaeus).

Family TONNIDAE Suter, 1913 (1825)

Eudolium bairdii (Verrill et S. Smith, 1881)

Geographic range. POR, MED, AZO, CAN, NWA, GME, CAR.

Depth range. 17–823 m.

Record type. LIT.

First record. Poppe & Goto (1991) as *Eudolium crosseanum* (Monterosato 1869).

Tonna galea (Linnaeus, 1758)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, CRL, GME, CAR.

Depth range. 9–30 m.

Record type. LIT.

First record. Ávila (2005).

Family BURSIDAE Thiele, 1925

Bursa scrobilator (Linnaeus, 1758)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 5–1000 m.

Record type. LIT/VOU.

First record. MacAndrew (1857), as *Triton scrobiculatus* Lamark.

Family CASSIDAE Latreille, 1825

Galeodea rugosa (Linnaeus, 1771)

Geographic range. BRI, POR, MED, AZO, NWA.

Depth range. 40–350 m.

Record type. LIT.

First record. Ávila (2005).

Semicassis granulata undulata (Gmelin, 1791)

Geographic range. Introduced. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 8–80 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Cassis sulcosa* Lamarck.

Family RANELIDAE Gray, 1854

Charonia lampas (Linnaeus, 1758)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 5–50 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Triton nodiferus* Lamark.

Charonia variegata (Lamarck, 1816)

Geographic range. MED, AZO, MAD, CAN, CAP, NWA, CRL, GME, CAR.

Depth range. 0–110 m.

Record type. LIT/VOU.

First record. Ávila (2005).

Monoplex corrugatus (Lamarck, 1816)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 10–200 m.

Record type. LIT/VOU.

First record. Simroth (1888) as *Tritonium corrugatum* Lamark.

Monoplex krebsii (Mörch, 1877)

Geographic range. AZO, CAN, CRL, GME, CAR.

Depth range. 2–150 m.

Record type. LIT.

First record. Gofas & Beu (2002) as *Cymatium krebsii* (Mörch, 1877).

Monoplex parthenopeus (Salis Marschlins, 1793)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, CRL, GME, CAR.

Depth range. 0–75 m.

Record type. LIT/VOU.

First record. Nobre (1924) as *Triton partenopeum* von Salis.

Ranella olearium (Linnaeus, 1758)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA, CAR.

Depth range. 20–400 m.

Record type. LIT/VOU.

First record. Ávila (2000a) as *Ranella olearia* (Linnaeus, 1758).

Family VELUTINIDAE Gray, 1840

Lamellaria latens (O.F. Müller, 1776)

Geographic range. SCA, BRI, POR, MED, AZO, CAP.

Depth range. 10–1200 m.

Record type. LIT/VOU.

First record. Ávila (2000a).

Lamellaria perspicua (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA, GME, CAR.

Depth range. 0–200 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Lamellaria perspicua* Linnaeus, var. *lata* Jeffreys.

Family TRIVIIDAE Troschel, 1863

Trivia candidula (Gaskoin, 1836)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, CRL, GME, CAR.

Depth range. 3–780 m.

Record type. LIT/VOU.

First record. Watson (1886) as *Cypraea (Trivia) candidula* Gaskoin.

Trivia mediterranea (Risso, 1826)

Geographic range. POR, MED, AZO, CAN.

Depth range. 5–30 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Cypraea pulex* Solander.

Family VERMETIDAE Rafinesque, 1815

Thylaeodus cf. rugulosus (Monterosato, 1878)

Geographic range. POR, MED, AZO, MAD, CAN.

Depth range. 1–10 m.

Record type. LIT/VOU.

First record. Bieler (1995).

Vermetus triquetrus Bivona Ant., 1832

Geographic range. POR, MED, AZO, CAN, NWA.

Depth range. 1–20 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Vermetus (Dofania) triqueter* Bivona.

Family EPITONIIDAE Berry, 1910 (1812)

Acirsa subdecussata (Cantraine, 1835)

Geographic range. POR, MED, AZO, MAD, CAN.

Depth range. 12–500 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Cirsotrema cochlea (G.B. Sowerby II, 1844)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–60 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000b).

Epitonium algerianum (Weinkauff, 1866)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 40–500 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Scalaria algeriana* Weinkauff.

Epitonium celesti (Aradas, 1854)

Geographic range. POR, MED, AZO, MAD, CAN,

CAP, CRL, GME, CAR.

Depth range. 30–640 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Epitonium clathratulum (Kanmacher, 1798)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 30–100 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Scalaria clathratula* Montagu.

Epitonium clathrus (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 5–70 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Epitonium jani Segers, Swinnen et de Prins, 2009

Geographic range. AZO, MAD, CAN.

Depth range. 0–10 m.

Record type. LIT.

First record. Segers et al. (2009).

Epitonium pulchellum (Bivona, 1832)

Geographic range. POR, MED, AZO, CAN, CAP.

Depth range. 20–40 m.

Record type. LIT/VOU.

First record. Martins et al. (2009)

Epitonium turtonis (Turton, 1819)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 5–70 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Gyroscala lamellosa (Lamarck, 1822)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA, CRL, GME, CAR.

Depth range. 0–60 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Scalaria pseudoscalaris* Risso.

Opalia coronata (Philippi et Scacchi, 1840)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 20–80 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000b) as *Opalia hellenica* (Forbes, 1844).

Opalia crenata (Linnaeus, 1758)

Geographic range. POR, MED, AZO, CAN, CAP, NWA, GME, CAR.

Depth range. 0–82 m.

Record type. LIT.

First record. Nobre (1924) as *Scalaria crenata* Linnaeus.

Family EULIMIDAE Philippi, 1853

Crinophtheiros collinsi (Sykes, 1903)

Geographic range. BRI, AZO, MAD, CAN.

Depth range. 5–200 m.

Record type. LIT/VOU.

First record. Segers (2002)

Curveulima dautzenbergi (Pallary, 1900)

Geographic range. BRI, MED, AZO, MAD, CAN.

Depth range. 15–80 m.

Record type. VOU.

First record. This work.

Melanella boscii (Payraudeau, 1826)

Geographic range. MED, AZO.

Depth range. 0–150 m.

Record type. LIT/VOU.

First record.

Melanella* cf. *trunca (Watson, 1897)

Geographic range. AZO, MAD, CAN.

Depth range. 50–40 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Parvioris ibizenca (Nordsieck, 1968)

Geographic range. MED, AZO, MAD, CAN, CAP.

Depth range. 3–50 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889), as *Eulima microstoma* Brusina.

Remarks. Described by Nordsieck (1968) as *Eulima microstoma ibizenca*.

Vitreolina curva (Monterosato, 1874)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 5–70 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000a).

Vitreolina incurva (Bucquoy, Dautzenberg et Dollfus, 1883)

Geographic range. POR, MED, AZO, CAN, NWA.

Depth range. 3–52 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Eulima incurva* Renieri.

Vitreolina philippi (de Rayneval et Ponzi, 1854)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 10–30 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Eulima incurva* Renieri.

Family TRIPHORIDAE Gray, 1847

Cheirodonta pallescens (Jeffreys, 1867)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP.

Depth range. 1–100 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1997).

Marshallora adversa (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–100 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Triforis perversa* Montagu.

Metaxia abrupta (Watson, 1880)

Geographic range. Endemic AZO.

Depth range. 20–200 m.

Record type. LIT/VOU.

First record. Ávila (2000a).

Monophorus erythrosoma (Bouchet et Guillemot, 1978)

Geographic range. MED, AZO, MAD, CAN, CAP.

Depth range. 1–50 m.

Record type. LIT/VOU.

First record. Ávila (2000a).

Monophorus thiriota Bouchet, 1985

Geographic range. MED, AZO, MAD, CAN, CAP.

Depth range. 20–400 m.

Record type. LIT/VOU.

First record. Bouchet (1985).

Pogonodon pseudocanaricus (Bouchet, 1985)

Geographic range. MED, AZO, CAN, CAP.

Depth range. 25–100 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Similiphora similior (Bouchet et Guillemot, 1978)

Geographic range. SCA, BRI, POR, MED, AZO, CAP.

Depth range. 0–70 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000b).

Similiphora* cf. *tricolotae Bouchet, 1997

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 35–60 m.

Record type. LIT.

First record. Segers et al. (2009) as *Similiphora* cf. *tricolothae* Bouchet, 1996.

Family CERITHIOPSIDAE H. Adams et A. Adams, 1853

Cerithiopsis barleei Jeffreys, 1867

Geographic range. SCA, BRI, POR, MED, AZO, CAN, CAP.

Depth range. 5–30 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1997).

Cerithiopsis diadema Monterosato, 1874

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 10–125 m.

Record type. LIT.

First record. Macedo et al. (1999).

Cerithiopsis fayalensis Watson, 1880

Geographic range. POR, MED, AZO, MAD.

Depth range. 20–120 m.

Record type. LIT/VOU.

First record. Watson (1880).

Cerithiopsis jeffreysi Watson, 1885

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CRL, CAR.

Depth range. 1–200 m.

Record type. LIT/VOU.

First record. Azevedo & Gofas (1990) as *Cerithiopsis pulchella* (Jeffreys, 1858).

Cerithiopsis minima (Brusina, 1865)

Geographic range. POR, MED, AZO, CAN, CAP, NWA.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889).

Cerithiopsis* cf. *nana Jeffreys, 1867

Geographic range. MED, AZO.

Depth range. 5–50 m.

Record type. LIT/VOU.

First record. This work.

Cerithiopsis scalaris Locard, 1892

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 10–200 m.

Record type. LIT/VOU.

First record. Segers (2002).

Cerithiopsis tubercularis (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP.

Depth range. 0–100 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Cerithium tuberculare* Montagu.

Family BUCCINIDAE Rafinesque, 1815

Pollia dorbignyi (Payraudeau, 1826)

Geographic range. Introduced. POR, MED, AZO, NWA.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Morton et al. (1998) as *Engina turbinella*.

Family COLUMBELLIDAE Swainson, 1840

Anachis avaroides Nordsieck, 1975

Geographic range. POR, AZO, MAD, CAN.

Depth range. 0–60 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1997) as *Raphitoma carnosula* (Jeffreys, 1869).

Columbella adansonii Menke, 1853

Geographic range. AZO, MAD, CAN, CAP.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Columbella rustica* Linnaeus.

Family NASSARIIDAE Iredale, 1916 (1835)

Nassarius corniculum (Olivi, 1792)

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–50 m.

Record type. LIT/VOU.

First record. Nobre (1924) as *Nassa corniculum* (Olivi, 1792).

Nassarius cuvierii (Payraudeau, 1826)

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Nobre (1924) as *Nassa costulata* Brocchi.

Nassarius incrassatus (Strøm, 1768)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–200 m.
Record type. LIT/VOU.
First record. MacAndrew (1857) as *Nassa incrassata* Müller.

Family MURICIDAE Rafinesque, 1815

Coralliophila guancha Smriglio, Mariottini et Engl, 2003

Geographic range. AZO, MAD, CAN.
Depth range. 18–50 m.
Record type. LIT.
First record. Oliverio & Gofas (2006).

Coralliophila meyendorffii (Calcara, 1845)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.
Depth range. 0–30 m.
Record type. LIT/VOU.
First record. Drouët (1858) as *Murex imbricatus* Brocchi.

Hexaplex trunculus (Linnaeus, 1758)

Geographic range. Introduced. POR, MED, AZO, MAD, CAN.
Depth range. 1–100 m.
Record type. LIT/VOU.
First record. Nobre (1924) as *Murex trunculus* Linnaeus.

Ocenebra chavesi Houart, 1996

Geographic range. Endemic AZO.
Depth range. 0–20 m.
Record type. LIT/VOU.
First record. Houart (1996) as *Ocenebra (Ocenebra) chavesi* nov. sp.

Ocenebra erinaceus (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.
Depth range. 0–150 m.
Record type. LIT/VOU.
First record. Drouët (1858) as *Murex erinaceus* Linnaeus.

Ocenebrina aciculata (Lamarck, 1822)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–100 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Murex corallinus* Scacchi.

Orania fusulus (Brocchi, 1814)

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 30–150 m.

Record type. LIT/VOU.

First record. Poppe & Goto (1991)

Stramonita haemastoma (Linnaeus, 1767)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, VIR, CRL, GME, CAR.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Purpura haemastoma* Linnaeus.

Trophonopsis barvicensis (Johnston, 1825)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, NWA.

Depth range. 32–100 m.

Record type. LIT/VOU.

First record. Martins et al. (2009).

Family CYSTISCIDAE Stimpson, 1865

Gibberula lazaroï Contreras, 1992

Geographic range. Endemic AZO.

Depth range. 0–1 m.

Record type. LIT.

First record. Contreras (1992).

Family MARGINELLIDAE Fleming, 1828

Volvarina oceanica Gofas, 1989

Geographic range. Endemic AZO.

Depth range. 12–90 m.

Record type. LIT/VOU.

First record. Gofas (1989b).

Family MITRIDAE Swainson, 1831

Mitra cornea Lamarck, 1811

Geographic range. MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Mitra fusca* Swainson.

Mitra zonata Marryat, 1819

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 30–150 m.

Record type. LIT/VOU.

First record. Burnay & Martins (1988).

Family MITROMORPHIDAE Casey, 1904

Mitromorpha azorensis Mifsud, 2001

Geographic range. Endemic AZO.

Depth range. 30–200 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Mitrolumna olivoidea* Cantraine.

Remarks. Described by Mifsud (2001) as *Mitromorpha* (*Mitrolumna*) *azorensis*.

Mitromorpha crenipicta (Dautzenberg, 1889)

Geographic range. AZO, CAN.

Depth range. 10–145 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889), as *Mitrolumna olivoidea* Cantraine, var. *crenipicta* nov. var.

Family MANGELIIDAE P. Fischer, 1883

Bela nebula (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 10–30 m.

Record type. LIT/VOU.

First record. Simroth (1888) as *Mangelia nebula* Montagu.

Mangelia costata (Pennant, 1777)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 1–40 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000a) as *Mangelia coarctata* (Forbes, 1840).

Mangelia scabrida Monterosato, 1890

Geographic range. POR, MED, AZO.

Depth range. 1–80 m.

Record type. VOU.

First record. This work.

Family RAPHITOMIDAE Bellardi, 1875

Raphitoma aequalis (Jeffreys, 1867)

Geographic range. BRI, POR, MED, AZO.

Depth range. 0–200 m.

Record type. LIT/VOU.

First record. Martins et al. (2009) as *Raphitoma* cf. *aequalis* (Jeffreys, 1867).

Raphitoma leufroyi (Michaud, 1828)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 5–150 m.

Record type. LIT/VOU.

First record. Ávila et al. (2000b).

Raphitoma linearis (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–60 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Clathurella linearis* Montagu.

Raphitoma purpurea (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–100 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Clathurella purpurea* Montagu.

Teretia teres (Reeve, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 30–900 m.

Record type. LIT/VOU.

First record. Dautzenberg & Fischer (1896) as *Pleurotoma anceps* Eichwald.

Family DRILLIIDAE Olsson, 1964

Crassopleura maravignae (Bivona Ant. in Bivona And., 1838)

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 15–250 m.

Record type. LIT/VOU.

First record. Ávila (2000a) as *Crassopleura incrassata* (Dujardin, 1837).

Family HORAICLAVIDAE Bouchet, Kantor, Sysoev et Puillandre, 2011

Haedropleura septangularis (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 7–251 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Bela septangularis* Montagu.

Family CANCELLARIIDAE Forbes et Hanley, 1851

Brocchinia clenchi Petit, 1986

Geographic range. POR, AZO, CAN, NWA.

Depth range. 15–80 m.

Record type. LIT/VOU.

First record. Ávila (2000a) as *Odostomia conoidea* (Brocchi, 1814).

Family CIMIDAE Warén, 1993

Cima cylindrica (Jeffreys, 1856)

Geographic range. MED, AZO, CAN.

Depth range. 5–60 m.

Record type. LIT/VOU.

First record. Segers (2002).

Cima* cf. *minima (Jeffreys, 1858)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. Ávila (2000a)

Family APLUSTRIDAE Gray, 1847

Hydatina physis (Linnaeus, 1758)

Geographic range. POR, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–5 m.

Record type. LIT.

First record. Wirtz (1999).

Micromelo undatus (Bruguère, 1792)

Geographic range. AZO, CAN, CAP, NWA, GME, CAR.

Depth range. 1–5 m.

Record type. LIT.

First record. Nordsieck (1972).

Family ARCHITECTONICIDAE Gray, 1850

Philippia hybrida (Linnaeus, 1758)

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 1–100 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Solarium luteum* Lamarck.

Pseudotorinia architae (O.G. Costa, 1841)

Geographic range. POR, MED, AZO, MAD, CAN, CRL, GME, CAR.

Depth range. 30–180 m.

Record type. LIT/VOU.

First record. Ávila (2000a) as *Heliacus architae* (O. G. Costa, 1841).

Family TOFANELLIDAE Bandel, 1995

Graphis albida (Kanmacher, 1798)

Geographic range. SCA, BRI, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–30 m.

Record type. LIT/VOU.

First record. Segers (2002) as *Graphis albidus* (Kanmacher, 1798).

Family OMALOGYRIDAE G.O. Sars, 1878

Ammonicera fischeriana (Monterosato, 1869)

Geographic range. MED, AZO, CAN, NWA.

Depth range. 0–25 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1996).

Ammonicera rota (Forbes et Hanley, 1850)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 0–25 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1996).

Omalogyra atomus (Philippi, 1841)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, CAN, CAP, NWA, NSC, VIR.

Depth range. 0–20 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Homalogyra atomus* Philippi.

Family PYRAMIDELLIDAE Gray, 1840

Brachystomia eulimoides (Hanley, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, CAN, NWA.

Depth range. 10–120 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998) as *Odostomia (Odostomia) eulimoides* Hanley, 1844.

Brachystomia scalaris (MacGillivray, 1843)

Geographic range. SCA, BRI, POR, MED, AZO, CAN, NWA.

Depth range. 3–20 m.

Record type. LIT.

First record. Dautzenberg (1889) as *Odostomia rissoides* Hanley, var. *alba* Jeffreys.

Chrysallida stefanisi (Jeffreys, 1869)

Geographic range. MED, AZO, CAN, NWA.

Depth range. 30–1000 m.

Record type. LIT.

First record. Linden & Eikenboom (1992).

Liostomia mamoi Mifsud, 1993

Geographic range. MED, AZO, MAD, CAN.

Depth range. 2–75 m.

Record type. VOU.

First record. This work.

Odostomella doliolum (Philippi, 1844)

Geographic range. MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 10–800 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889), as *Odostomia (Odostomia) doliolum* Philippi.

Odostomia acuta Jeffreys, 1848

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 10–100 m.

Record type. LIT.

First record. Nordsieck & Talavera (1979).

Odostomia bernardi van Aartsen, Gittenberger et Goud, 1998

Geographic range. Endemic AZO.

Depth range. 0–300 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998).

Odostomia duureni van Aartsen, Gittenberger et Goud, 1998

Geographic range. Endemic AZO.

Depth range. 0–125 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998).

Odostomia kuiperi van Aartsen, Gittenberger et Goud, 1998

Geographic range. AZO, CAN.

Depth range. 0–150 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998).

Odostomia lukisii Jeffreys, 1859

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–150 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998) as *Odostomia (Odostomia) lukisii* Jeffreys, 1859.

Odostomia striolata Forbes et Hanley, 1850

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–400 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998) as *Odostomia* (*Odostomia*) *striolata* Forbes et Hanley, 1850.

Odostomia turrita Hanley, 1844

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–250 m.

Record type. LIT/VOU.

First record. Aartsen et al. (1998) as *Odostomia* (*Odostomia*) *turrita* Hanley, 1844.

Odostomia unidentata (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA, CRL.

Depth range. 0–200 m.

Record type. LIT.

First record. Dautzenberg (1889).

Ondina diaphana (Jeffreys, 1848)

Geographic range. SCA, BRI, POR, MED, AZO, CAN, NWA.

Depth range. 9–54 m.

Record type. LIT/VOU.

First record. Ávila (2000a).

Pyrgiscus rufus (Philippi, 1836)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 15–3500 m.

Record type. LIT/VOU.

First record. Martins et al. (2009) as *Turbonilla rufa* (Philippi, 1836).

Turbonilla lactea (Linnaeus, 1758)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 5–95 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Chemnitzia elegantissima* Montagu, 1803.

Family MURCHISONELLIDAE Casey, 1904

Ebala nitidissima (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 15–150 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Aclis nitidissima* Montagu.

Family RISSOELLIDAE Gray, 1850

Rissoella contrerasi Rolán et Hernández, 2004

Geographic range. AZO, MAD, CAN.

Depth range. 0–50 m.

Record type. VOU.

First record. This work.

Rissoella diaphana (Alder, 1848)

Geographic range. SCA, BRI, MED, AZO, MAD, CAN.

Depth range. 1–150 m.

Record type. LIT/VOU.

First record. Ávila & Azevedo (1996).

Family DIAPHANIDAE Odhner, 1914 (1857)

Diaphana globosa (Lovén, 1846)

Geographic range. SCA, BRI, POR, AZO.

Depth range. 25–2644 m.

Record type. LIT/VOU.

First record. Cordeiro et al. (2013).

Family HAMINOEIDAE Pilsbry, 1895

Atys macandrewii E.A. Smith, 1872

Geographic range. MED, AZO, MAD, CAN, CAP, GME, CAR.

Depth range. 0–75 m.

Record type. LIT/VOU.

First record. Nordsieck (1972) as *Atys* (*Limulatys*) *macandrewi* Smith, 1872.

Haminoea orteai Talavera, Murillo et Templado, 1987

Geographic range. MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–30 m.

Record type. LIT/VOU.

First record. Mikkelsen (1995).

Family PHILINIDAE Gray, 1850 (1815)

Philine intricata Monterosato, 1884

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP.

Depth range. 10–620 m.

Record type. LIT.

First record. Linden (1994).

Philine lima (Brown, 1827)

Geographic range. GRE, SCA, BRI, MED, AZO, NSC.

Depth range. 20–150 m.

Record type. LIT.

First record. Dautzenberg (1889).

Family AGLAJIDAE Pilsbry, 1895 (1847)

Chelidonura africana Pruvot-Fol, 1953

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 2–8 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Odontoglaia sabadiega (Ortea, Moro et Espinosa, 1997)

Geographic range. AZO, MAD, CAN.

Depth range. 2–8 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Family CYLICHNIDAE H. Adams et A. Adams, 1854

Cylichna alba (Brown, 1827)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, NSC, VIR.

Depth range. 6–2700 m.

Record type. LIT.

First record. Watson (1886).

Family SCAPHANDRIDAE G.O. Sars, 1878

Scaphander punctostriatus (Mighels et Adams, 1842)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, CAN, NSC, GME, CAR.

Depth range. 20–2700 m.

Record type. LIT.

First record. Watson (1886).

Family RETUSIDAE Thiele, 1925

Pyrunculus hoernesii (Weinkauff, 1866)

Geographic range. MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 7–300 m.

Record type. LIT.

First record. Segers (2002).

Retusa multiquadrata Oberling, 1970

Geographic range. MED, AZO, MAD.

Depth range. 1–14 m.

Record type. LIT/VOU.

First record. Mikkelsen (1995).

Retusa truncatula (Bruguière, 1792)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–200 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Tornatina truncatula* Bruguière and *Tornatina mariei* nov. sp.

Family RUNCINIDAE H. Adams et A. Adams, 1854

Runcina adriatica T. Thompson, 1980

Geographic range. AZO, CAN.

Depth range. 0–18 m.

Record type. LIT/VOU.

First record. Gosliner (1990).

Runcina coronata (de Quatrefages, 1844)

Geographic range. SCA, BRI, POR, AZO.

Depth range. 1–6 m.

Record type. LIT.

First record. Gosliner (1990) as *Runcina aurata* García-Gómez, Lopez, Luque et Cervera, 1986.

Runcina hidalgoensis Ortea et Moro, 1999

Geographic range. SCA, BRI, POR, AZO.

Depth range. 1–12 m.

Record type. LIT.

First record. Ortea & Moro (1999).

Runcina ornata (de Quatrefages, 1844)

Geographic range. MED, AZO, MAD.

Depth range 1–5 m.

Record type. LIT.

First record. Malaquias et al. (2014)

Family APLYSIIDAE Lamarck, 1809

Aplysia depilans Gmelin, 1791

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–40 m.

Record type. LIT/VOU.

First record. Wirtz (1995).

Aplysia fasciata Poiret, 1789

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA, NSC, VIR, GME, CAR.

Depth range. 0–15 m.

Record type. LIT/VOU.

First record. Wirtz & Martins (1993).

Aplysia juliana Quoy et Gaimard, 1832

Geographic range. AZO, CAN, GME, CAR.

Depth range. 0–10 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Aplysia parvula Mörch, 1863

Geographic range. BRI, POR, MED, AZO, MAD, CAN, NWA, GME, CAR.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Eales (1960).

Aplysia punctata (Cuvier, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–30 m.

Record type. LIT/VOU.

First record. Simroth (1888).

Stylocheilus striatus (Quoy et Gaimard, 1832)

Geographic range. AZO, MAD, CAN, CAP, CAR.

Depth range. 1–30 m.

Record type. LIT.

First record. Wirtz & Debelius (2003).

Family AKERIDAE Mazzarelli, 1891

Akera bullata O.F. Müller, 1776

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 1–370 m.

Record type. LIT.

First record. Nobre (1924) as *Acera bullata* Müller.

Family PLAKOBRANCHIDAE Gray, 1840

Elysia flava Verrill, 1901

Geographic range. MED, AZO, MAD, CAN, CAP, CAR.

Depth range. 1–30 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Elysia gordanae Thompson et Jaklin, 1988

Geographic range. POR, MED, AZO, CAN.

Depth range. 2–6 m.

Record type. LIT.

First record. Wirtz & Debelius (2003) as *Elysia margaritae* Fez, 1962.

Elysia ornata (Swainson, 1840)

Geographic range. AZO, MAD, CAN, GME, CAR.

Depth range. 1–45 m.

Record type. LIT/VOU.

First record. Wirtz (1995).

Elysia viridis (Montagu, 1804)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 1–10 m.

Record type. LIT/VOU.

First record. Azevedo (1991).

Thuridilla hopei (Vérany, 1853)

Geographic range. MED, AZO.

Depth range. 1–30 m.

Record type. LIT.

First record.

Thuridilla mazda Ortea et Espinosa, 2000

Geographic range. AZO, GME, CAR.

Depth range. 1–20 m.

Record type. LIT.

First record. Malaquias et al. (2009) as *Thuridilla picta* (Verrill, 1901).

Family LIMAPONTIIDAE Gray, 1847

Ercolania coerulea Trinchese, 1892

Geographic range. MED, AZO, MAD, GME, CAR.

Depth range. 0–1 m.

Record type. LIT.

First record. Wirtz & Debelius (2003).

Ercolania lozanoi Ortea, 1982

Geographic range. AZO, CAN, CAP.

Depth range. 0–2 m.

Record type. LIT.

First record. Jensen (2014) and Malaquias et al. (2014).

Placida cremoniana (Trinchese, 1892)

Geographic range. POR, MED, AZO, CAN.

Depth range. 2–28 m.

Record type. LIT.

First record. Ortea et al. (1998).

Placida verticilata Ortea, 1982

Geographic range. POR, MED, AZO, MAD, CAN, CAR.

Depth range. 1–5 m.

Record type. LIT.

First record. Ávila (2000a).

Family CALIPHYLLIDAE Tiberi, 1881

Caliphylla mediterranea A. Costa, 1867

Geographic range. MED, AZO, CAN, GME, CAR.

Depth range. 1–5 m.

Record type. LIT.

First record. Jensen (2014).

Cyerce antillensis Engel, 1927

Geographic range. AZO, MAD, GME, CAR.

Depth range. 1–5 m.

Record type. LIT.

First record. Wirtz & Debelius (2003).

Family HERMAEIDAE H. Adams et A. Adams, 1854

Aplysiopsis formosa Pruvot-Fol, 1953

Geographic range. AZO, CAN, NWA.

Depth range. 0–12 m.

Record type. LIT.

First record. Jensen (1995).

Hermaea variopicta (A. Costa, 1869)

Geographic range. BRI, POR, MED, AZO, CAN.

Depth range. 1–15 m.

Record type. LIT.

First record. Cordeiro et al. (2013) as *Hermaeopsis variopicta* A. Costa, 1869.

Family UMBRACULIDAE Dall, 1889 (1827)

Umbraculum umbraculum (Lightfoot, 1786)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, GME, CAR.

Depth range. 0–85 m.

Record type. LIT/VOU.

First record. Menezes (1991) as *Umbraculum mediterraneum* (Lamarck, 1819).

Family TYLODINIDAE Gray, 1847

Tyrodina perversa (Gmelin, 1791)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–15 m.

Record type. LIT/VOU.

First record. Dautzenberg (1889) as *Tyrodina citrina* de Joannis.

Family PLEUROBRANCHIDAE Gray, 1827

Berthella aurantiaca (Risso, 1818)

Geographic range. MED, AZO.

Depth range. 1–20 m.

Record type. LIT.

First record. Bergh (1892) as *Pleurobranchus aurantiacus* Risso.

Berthella plumula (Montagu, 1803)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 1–10 m.

Record type. LIT.

First record. Bergh (1892) as *Pleurobranchus plumula* Montagu.

Berthella stellata (Risso, 1826)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, CAR.

Depth range. 2–10 m.

Record type. LIT.

First record. Wirtz & Debelius (2003).

Berthellina edwardsii (Vayssi re, 1897)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 5–30 m.

Record type. LIT/VOU.

First record. Vayssi re (1896) as *Berthella edwardsii* nov. sp.

Pleurobranchus reticulatus Rang, 1832

Geographic range. AZO, MAD, CAN, CAP.

Depth range. 5–30 m.

Record type. LIT.

First record. Cervera et al. (2004) as *Pleurobranchus garciagomezi* Cervera, Cattaneo-Vietti et Edmunds, 1996.

Pleurobranchus testudinarius Cantraine, 1835

Geographic range. MED, AZO, MAD, CAN.

Depth range. 5–80 m.

Record type. LIT/VOU.

First record. Wirtz & Martins (1993).

Family PLEUROBRANCHAEIDAE Pilsbry, 1896

Pleurobranchaea meckeli (Blainville, 1825)

Geographic range. POR, MED, AZO, MAD, CAN, CAP.

Depth range. 8–100 m.

Record type. LIT.

First record. Bergh (1899).

Family DORIDIDAE Rafinesque, 1815

Doris bertheloti (d'Orbigny, 1839)

Geographic range. MED, AZO, MAD, CAN.

Depth range. 0–5 m.

Record type. LIT/VOU.

First record. Cordeiro et al. (2013).

Doris ocelligera (Bergh, 1881)

Geographic range. POR, MED, AZO.

Depth range. 3–12 m.

Record type. LIT/VOU.

First record. Azevedo & Gofas (1990).

Doris sticta (Iredale et O'Donoghue, 1923)

Geographic range. BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 3–6 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Family CADLINIDAE Bergh, 1891

Aldisa smaragdina Ortea, P rez et Llera, 1982

Geographic range. POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0–20 m.

Record type. LIT/VOU.

First record. Wirtz (1998).

Aldisa zetlandica (Alder et Hancock, 1854)

Geographic range. SCA, BRI, POR, AZO.

Depth range. 10–1900 m.

Record type. LIT.

First record. Bergh (1899).

Family CHROMODORIDIDAE Bergh, 1891

Felimare fontandraui (Pruvot-Fol, 1951)

Geographic range. POR, MED, AZO, CAN.

Depth range. 5–40 m.

Record type. LIT.

First record. Wirtz (1995) as *Hypselodoris fontandraui* (Pruvot-Fol, 1951).

Felimare picta (Schultz in Philippi, 1836)

Geographic range. POR, MED, AZO, MAD, CAN, NWA, GME.

Depth range. 0–55 m.

Record type. LIT/VOU.

First record. Bergh (1899) as *Chromodoris cantrainei* Bergh.

Felimare tricolor (Cantraine, 1835)

Geographic range. POR, MED, AZO, MAD, CAN.
Depth range. 2–40 m.
Record type. LIT/VOU.
First record. Gosliner (1990) as *Hypselodoris mid-atlantica* Gosliner, 1990.

Felimida britoi (Ortea et Pérez, 1983)

Geographic range. MED, AZO, MAD, CAN.
Depth range. 0–18 m.
Record type. LIT/VOU.
First record. Gosliner (1990) as *Chromodoris clenchi* (Russell, 1935).

Felimida edmundsi (Cervera, García-Gómez et Ortea, 1989)

Geographic range. MED, AZO, MAD, CAN.
Depth range. 1–25 m.
Record type. LIT/VOU.
First record. Gosliner (1990) as *Glossodoris edmundsi* Cervera, García-Gómez et Ortea, 1989.

Felimida goslineri (Ortea et Valdés, 1996)

Geographic range. Endemic AZO.
Depth range. 5 m.
Record type. LIT.
First record. Ortea et al. (1996) as *Chromodoris goslineri* sp. nov.

Felimida purpurea (Risso in Guérin, 1831)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.
Depth range. 3–28 m.
Record type. LIT/VOU.
First record. Gosliner (1990) as *Chromodoris purpurea* (Laurillard, 1831).

Family DISCODORIDIDAE Bergh, 1891

Geitodoris planata (Alder et Hancock, 1846)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, VIR.

Depth range. 2–15 m.

Record type. LIT.

First record. Azevedo & Gofas (1990) as *Geitodoris* cf. *planata* (Alder et Hancock, 1846).

Jorunna tomentosa (Cuvier, 1804)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.
Depth range. 2–400 m.
Record type. LIT.
First record. Morton et al. (1998).

Peltodoris atromaculata Bergh, 1880

Geographic range. POR, MED, AZO, MAD, CAN.
Depth range. 10–100 m.
Record type. LIT/VOU.
First record. Wirtz & Martins (1993) as *Discodoris atromaculata* (Bergh, 1880).

Platydoris argo (Linnaeus, 1767)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA.
Depth range. 2–25 m.
Record type. LIT/VOU.
First record. Bergh (1899).

Rostanga rubra (Risso, 1818)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.
Depth range. 4–60 m.
Record type. LIT.
First record. Cordeiro et al. (2013).

Taringa armata Swennen, 1961

Geographic range. MED, AZO, MAD.
Depth range. 1–10 m.
Record type. LIT.
First record. Malaquias et al. (2009).

Thordisa azmanii Cervera et García-Gómez, 1989

Geographic range. POR, AZO.
Depth range. 6–25 m.
Record type. LIT.
First record. Chan & Gosliner (2007).

Family PHYLLIDIIDAE Rafinesque, 1814

Phyllidia flava Aradas, 1847

Geographic range. MED, AZO, MAD, CAN, CAP.
 Depth range. 6–30 m.
 Record type. LIT.
 First record. Hart & Wirtz (2013).

Family DENDRODORIDIDAE O'Donoghue, 1924 (1864)

Dendrodoris herytra Valdés et Ortea, 1996

Geographic range. POR, AZO, MAD, CAN, NWA.
 Depth range. 4–15 m.
 Record type. LIT/VOU.
 First record. Bergh (1892) as *Doriopsis limbata* Cuvier.

Family ONCHIDORIDIDAE Gray, 1827

Diaphorodoris luteocincta (M. Sars, 1870)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.
 Depth range. 1–25 m.
 Record type. LIT.
 First record. Wirtz & Martins (1993).

Family POLYCERIDAE Alder et Hancock, 1845

Crimora papillata Alder et Hancock, 1862

Geographic range. BRI, POR, MED, AZO, CAN.
 Depth range. 0–30 m.
 Record type. LIT/VOU.
 First record. Pedro et al. (2011).

Kaloplocamus ramosus (Cantraine, 1835)

Geographic range. BRI, MED, AZO, MAD, CAN, NWA.
 Depth range. 4–100.
 Record type. LIT/VOU.
 First record. Wirtz (1998).

Limacia clavigera (O.F. Müller, 1776)

Geographic range. SCA, BRI, POR, MED, AZO, CAN, CAP, NWA.
 Depth range. 4–20 m.
 Record type. LIT/VOU.
 First record. Wirtz (1998).

Polycera elegans (Bergh, 1894)

Geographic range. BRI, POR, MED, AZO, CAN.

Depth range. 5–25 m.

Record type. LIT.

First record. Wirtz & Martins (1993).

Polycera quadrilineata (O.F. Müller, 1776)

Geographic range. GRE, SCA, BRI, POR, MED, AZO, MAD, CAN.
 Depth range. 2–60 m.
 Record type. LIT/VOU.
 First record. Wirtz (1998).

Tambja ceutae García J.C. et Ortea, 1988

Geographic range. POR, MED, AZO, MAD, CAN, CAP.
 Depth range. 4–15 m.
 Record type. LIT/VOU.
 First record. Wirtz & Martins (1993).

Family AEGIRIDAE P. Fischer, 1883

Aegires sublaevis Odhner, 1932

Geographic range. MED, AZO, MAD, CAN, GME, CAR.
 Depth range. 0–30 m.
 Record type. LIT/VOU.
 First record. Calado (2002).

Family DOTIDAE Gray, 1853

Doto floridicola Simroth, 1888

Geographic range. BRI, POR, MED, AZO, MAD, CAN.
 Depth range. 4–35 m.
 Record type. LIT.
 First record. Simroth (1888)

Doto furva García J.C. et Ortea, 1984

Geographic range. MED, AZO, CAN.
 Depth range. 25–140 m.
 Record type. LIT.
 First record. Calado (2002).

Doto koenneckeri Lemche, 1976

Geographic range. SCA, BRI, POR, MED, AZO.
 Depth range. 1–8 m.
 Record type. LIT.
 First record. Calado (2002).

Family PROCTONOTIDAE Gray, 1853

Janolus cristatus (delle Chiaje, 1841)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 3–18 m.

Record type. LIT.

First record. Cordeiro et al. (2013).

Family TRITONIIDAE Lamarck, 1809

Marionia blainvillea (Risso, 1818)

Geographic range. POR, MED, AZO, MAD, CAN.

Depth range. 4–40 m.

Record type. LIT/VOU.

First record. Wirtz (1995).

Family FLABELLINIDAE Bergh, 1889

Flabellina bulbosa Ortea et Espinosa, 1998

Geographic range. AZO, CAP.

Depth range. 2–10 m.

Record type. LIT.

First record. Cordeiro et al. (2013).

Flabellina pedata (Montagu, 1816)

Geographic range. SCA, BRI, POR, MED, AZO.

Depth range. 6–35 m.

Record type. LIT.

First record. Gosliner (1994).

Family EUBRANCHIDAE Odhner, 1934

Eubbranchus farrani (Alder et Hancock, 1844)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 6–40 m.

Record type. LIT.

First record. Fontes et al. (2001).

Eubbranchus vascoi Ortea, Caballer et Moro, 2002

Geographic range. AZO, CAN.

Depth range. 2–4 m.

Record type. LIT.

First record. Ortea et al. (2002).

Family TERGIPEDIDAE Bergh, 1889

Catriona maua Ev. Marcus et Er. Marcus, 1960

Geographic range. MED, AZO, CAN, CAR.

Depth range. 1–8 m.

Record type. LIT.

First record. Malaquias et al. (2009).

Cuthona caerulea (Montagu, 1804)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 2–25 m.

Record type. LIT.

First record. Calado (2002).

Cuthona fidenciae (Ortea, Moro et Espinosa, 1999)

Geographic range. AZO, CAN.

Depth range. 5–15 m.

Record type. LIT.

First record. Ortea et al. (2001).

Cuthona foliata (Forbes et Goodsir, 1839)

Geographic range. SCA, BRI, POR, MED, AZO, CAN.

Depth range. 2–25 m.

Record type. LIT.

First record. Calado (2002).

Family AEOLIDIIDAE Gray, 1827

Aeolidiella sanguinea (Norman, 1877)

Geographic range. BRI, POR, AZO, MAD.

Depth range. 0–18 m.

Record type. LIT

First record. Morton et al. (1998).

Spurilla neapolitana (delle Chiaje, 1841)

Geographic range. POR, MED, AZO, MAD, CAN, CAP, NWA, GME, CAR.

Depth range. 0–10 m.

Record type. LIT/VOU.

First record. Simroth (1888) as *Spurilla sargassicola* Bergh.

Family FACELINIDAE Bergh, 1889

Caloria elegans (Alder et Hancock, 1845)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN.

Depth range. 6–30 m.

Record type. LIT.

First record. Wirtz (1995).

Dicata odhneri Schmekel, 1967

Geographic range. BRI, POR, MED, AZO.

Depth range. 1–45 m.

Record type. LIT/VOU.

First record. Cervera et al. (2004; Gosliner, pers. comm.).

Facelina annulicornis (Chamisso et Eysenhardt, 1821)

Geographic range. BRI, POR, MED, AZO, MAD, CAN.

Depth range. 0–6 m.

Record type. LIT/VOU.

First record. Calado (2002).

Favorinus branchialis (Rathke, 1806)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 2–30 m.

Record type. LIT.

First record. Calado (2002).

Learchis poica Ev. Marcus et Er. Marcus, 1960

Geographic range. AZO, CRL, GME, CAR.

Depth range. 0–5 m.

Record type. LIT.

First record. Cervera et al. (2004; Moro, pers. comm.).

Family SIPHONARIIDAE Gray, 1827

Williamia gussoni (O.G. Costa, 1829)

Geographic range. MED, AZO, MAD, CAN, CAP, NWA.

Depth range. 1–100 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Patella gussonii* Costa.

Family ELLOBIIDAE L. Pfeiffer, 1854 (1822)

Auriculinella bidentata (Montagu, 1808)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA.

Depth range. 0 m.

Record type. LIT/VOU.

First record. MacAndrew (1857) as *Auricula alba* Jeffreys.

Myosotella myosotis (Draparnaud, 1801)

Geographic range. SCA, BRI, POR, MED, AZO, MAD, CAN, NWA, NSC, VIR, CRL, CAR.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Morelet (1860) as *Auricula vespertina* nov. sp.

Ovatella vulcani (Morelet, 1860)

Geographic range. Endemic AZO.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Morelet (1860) as *Auricula vulcani* nov. sp.

Pedipes pedipes (Bruguère, 1789)

Geographic range. POR, AZO, MAD, CAN, CAP, NWA.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Drouët (1858) as *Pedipes afra* Férussac.

Pseudomelampus exiguus (Lowe, 1832)

Geographic range. POR, AZO, MAD, CAN, CAP, NWA.

Depth range. 0 m.

Record type. LIT/VOU.

First record. Martins (1980).

Family ONCHIDIIDAE Rafinesque, 1815

Onchidella celtica (Cuvier, 1816)

Geographic range. BRI, POR, AZO, MAD, CAN, CAP, NWA.

Depth range. 0–1 m.

Record type. LIT/VOU.

First record. Martins (1980).

Table 1. Material examined from the Department of Biology of the University of the Azores (DBUA) and Natural History Museum of Rotterdam (NMR) mollusc collections.

FAMILY - SPECIES	MATERIAL EXAMINED
PATELLIDAE	
<i>Patella aspera</i> Röding, 1798	DBUA 179, 190/1, 240/3, 264/2, 265, 271, 458/4, 496/1, 499/9, 554/2, 562/1, 579/2, 638/1, 669/1, 670/15, 672/1, 677/1, 678/1, 713/1, 714, 715/1, 717/1, 740/1, 743/1
<i>Patella candei</i> d'Orbigny, 1840	DBUA 234, 638/2, 647, 667/1, 668/1, 713/2, 715/2, 717/2, 750/1
LOTIIDAE	
<i>Tectura virginea</i> (O.F. Müller, 1776)	DBUA 182, 197/6, 240/5, 274/1, 278/4, 398/1, 410/1, 420, 433/1, 434/3, 457/1, 558/1, 560/1, 561/1, 562/2, 570, 609/1, 616/1, 626/1, 666/1, 667/2, 668/2, 670/1, 672/2, 677/2, 687/1, 695/1, 709/1, 713/3, 715/3, 717/3, 718, 719/1, 726/1, 730/1, 732/1, 733/1, 739/1, 742/1, 748/1, 753/1, 755/1, 766/1, 769/1, 788/1, 791/1
LEPETIDAE	
<i>Propilidium exiguum</i> (W. Thompson, 1844)	DBUA 1097
HALIOTIDAE	
<i>Haliotis tuberculata</i> Linnaeus, 1758	DBUA 193/1, 197/3, 233/1, 240/7, 263, 392, 433/2, 460/1, 496/2, 498/1, 499/6, 565/1, 566/1, 621/1, 662/1, 668/3, 670/2, 672/3, 677/3, 696/1, 713/4, 717/4, 719/2, 724/1, 726/2, 730/2, 733/2, 738/1, 756, 760/1, 766/2, 807/1
SCISSURELLIDAE	
<i>Sinezona cingulata</i> (O.G. Costa, 1861)	DBUA 144, 204, 268/1, 274/2, 276/1, 277/1, 446/1, 465/1, 466/1, 467/1, 468/1, 470/1, 471/13, 472/1, 475/1, 481/1, 492/1, 493/1, 496/3, 499/10, 500/1, 545/1, 564/1, 662/2, 663/1, 669/2, 745/1, 772/1, 787/2
TROCHIDAE	
<i>Clelandella azorica</i> Gofas, 2005	DBUA 1106
<i>Gibbula delgadensis</i> Nordsieck, 1982	DBUA 57, 102, 117/1, 167/1, 320, 332, 335/1, 340/1, 342/5, 343/2, 345/1, 350/1, 353/8, 355/1, 568/1, 695/2, 702/D1, 703/B, 703/C1, 708/I, 715/4, 733/3, 735/1, 740/2, 741/1, 766/3, 769/2, 772/2, 782/1, 784/1, 788/2, 789/1, 791/2
<i>Gibbula magus</i> (Linnaeus, 1758)	DBUA 21, 117/2, 167/2, 168/3, 169/1, 170, 410/2, 421/1, 422/1, 424/5, 604, 605/1, 607, 608/1, 609/2, 614/1, 616/2, 618/1, 621/2, 624/1, 655/1, 661/1, 670/3, 676/1, 696/2, 709/2, 717/5, 719/3, 731/1, 732/2, 734/1, 735/2, 737/1, 739/2, 784/2, 807/2
<i>Jujubinus pseudogravinae</i> Nordsieck, 1973	DBUA 103, 125, 168/5, 173/1, 176/1, 193/2, 195/1, 233/2, 238, 240/6, 249, 267, 274/3, 278/2, 281/1, 330/2, 340/2, 341/1, 345/2, 350/2, 353/7, 355/2, 362/4, 371/3, 372/1, 378/1, 387/1, 388/2, 390/1, 394/1, 395/1, 396/1, 400/1, 405/1, 407/1, 408/1, 415/1, 418/1, 421/2, 422/2, 424/3, 429/1, 432, 438/1, 441/1, 460/2, 462/1, 481/2, 486/1, 499/11, 550, 553/1, 555/1, 556/1, 557/1, 558/2, 560/2, 561/2, 563/1, 565/2, 567/1, 568/2, 569/1, 570/2, 575/1, 576/1, 577/1, 579/3, 605/2, 608/2, 609/3, 614/2, 616/3, 624/2, 626/2, 655/2, 656/1, 657/1, 660/1, 661/2, 662/3, 667/3, 669/3, 670/4, 671/1, 672/4, 673/1, 675/1, 677/4, 683/1, 686, 687/2, 688/1, 689/1, 692, 695/3, 696/3, 698/1, 703/C2, 707/G, 709/3, 715/5, 719/4, 721/1, 726/3, 728/1, 730/3, 731/2, 732/3, 733/4, 735/3, 739/3, 742/2, 746/1, 748/2, 749, 754/1, 755/2, 762/1, 764/1, 766/4, 767/1, 768/1, 769/3, 771/1, 772/3, 773/1, 774/1, 776/1, 777/1, 779/1, 780/1, 783/1, 788/3, 789/2, 791/3, 814/1
<i>Phorcus sauciatus</i> (Koch, 1845)	DBUA 1067, 1068, 1069
CALLIOSTOMATIDAE	
<i>Calliostoma lividum</i> (Dautzenberg, 1927)	DBUA 330/1, 338/1, 339, 355/3, 356/2, 362, 365, 433/3, 557/2, 565/3, 579/4, 605/3, 634, 651/1, 652/1, 654/1, 657/2, 668/4, 670/5, 672/5, 675/2, 676/2, 677/5, 682/1, 683/2, 688/2, 695/4, 696/4, 697/1, 699, 712, 719/5, 724/2, 732/4, 738/2, 748/3, 755/3, 758/1, 766/5, 767/2, 773/2, 776/2, 777/2, 779/2, 780/2, 782/2, 783/2, 789/3, 796, 813/1, 814/2, 838, 839

FAMILY - SPECIES	MATERIAL EXAMINED
SKENEIDAE	
<i>Parviturbo azoricus</i> Rubio, Rolán et Segers, 2015 DBUA 1103	
PHASIANELLIDAE	
<i>Tricolia pullus azorica</i> (Dautzenberg, 1889)	DBUA 127/1, 145, 168/6, 173/2, 176/2, 188/2, 190/2, 193/4, 195/2, 197/7, 208, 240/4, 266/1, 270, 274/4, 278/3, 281/2, 286/1, 368/1, 374/1, 376/2, 377/1, 378/2, 380/1, 381/1, 382/1, 384/2, 387/2, 388/1, 391/1, 393/3, 394/2, 395/2, 396/2, 398/2, 400/2, 403/1, 405/2, 408/2, 409/1, 410/3, 428/1, 429/2, 438/2, 440, 441/2, 452/1, 453/1, 459/1, 460/3, 462/2, 465/2, 468/2, 471/12, 492/2, 493/2, 496/4, 499/12, 500/2, 545/2, 551/1, 553/2, 554/3, 555/2, 556/2, 557/3, 558/3, 560/3, 561/3, 563/2, 564/2, 566/2, 568/3, 569/2, 570/3, 571/1, 574/1, 575/2, 579/6, 609/4, 614/3, 626/3, 636, 662/4, 666/2, 667/4, 668/5, 670/6, 672/6, 676/3, 677/6, 695/5, 696/5, 709/4, 713/5, 715/6, 719/6, 726/4, 728/2, 730/4, 731/3, 732/5, 733/5, 735/4, 740/3, 741/2, 742/3, 743/2, 744/1, 745/2, 746/2, 748/4, 750/2, 754/2, 755/4, 760/2, 762/2, 764/2, 765/1, 766/6, 767/3, 768/2, 769/4, 770/1, 771/2, 772/4, 773/3, 774/2, 775/1, 776/3, 777/3, 779/3, 780/3, 782/3, 783/3, 784/3, 788/4, 789/4, 791/4, 806/1
CERITHIIDAE	
<i>Bittium nanum</i> (Mayer, 1864)	DBUA 167/3, 169/2, 173/4, 176/3, 181, 182/3, 188/5, 190/3, 193/5, 196/1, 197/8, 206, 240/8, 266/2, 274/5, 276/2, 278/5, 281/3, 286/2, 368/2, 369/1, 370/2, 371/2, 372/2, 373/1, 374/2, 375, 376/1, 377/2, 378/3, 379/1, 380/2, 381/2, 382/2, 384/3, 385, 386, 387/3, 390/2, 391/2, 393/2, 394/3, 395/3, 396/3, 397/1, 398/3, 399, 400/3, 403/2, 405/3, 407/2, 408/2, 409/2, 410/4, 412/1, 414/1, 415/2, 416/1, 417, 418/2, 422/3, 424/4, 427/2, 428/2, 430/1, 434/1, 435, 436, 437/1, 438/3, 439/1, 441/3, 442/1, 443/4, 445/1, 446/2, 447/1, 448/1, 449/1, 450/1, 452/2, 453/2, 456/1, 457/2, 458/2, 459/2, 460/4, 462/3, 463, 465/3, 466/2, 467/2, 468/3, 469/1, 470/2, 471/11, 472/2, 474/1, 475/2, 476/1, 478/1, 480/1, 481/3, 483/1, 486/2, 489/1, 492/3, 493/3, 496/4, 499/13, 500/3, 545/3, 546, 551/2, 553/3, 555/3, 556/3, 557/4, 558/4, 560/4, 561/4, 563/3, 564/3, 565/4, 567/2, 568/4, 569/3, 570/4, 571/2, 572, 574/2, 575/3, 576/2, 579/11, 605/4, 608/3, 609/5, 610/1, 614/4, 621/3, 623, 624/3, 626/4, 631/1, 657/3, 658/1, 659/1, 661/3, 662/5, 665/1, 666/3, 668/6, 670/7, 672/7, 675/3, 676/4, 677/7, 678/2, 695/6, 696/6, 709/5, 715/7, 716, 717/6, 719/7, 721/2, 726/5, 727/1, 728/3, 730/5, 731/4, 732/6, 735/6, 735/5, 736/1, 737/2, 739/4, 742/4, 744/2, 748/5, 750/3, 753/2, 755/5, 758/2, 760/3, 762/3, 763/1, 764/3, 765/2, 766/7, 767/4, 768/3, 769/5, 770/2, 771/3, 772/5, 773/4, 774/3, 775/2, 776/4, 777/4, 778/1, 779/4, 780/4, 782/4, 783/4, 784/4, 786/5, 788/5, 789/5, 791/5, 806/2, 807/3
PLANAXIDAE	
<i>Fossarus ambiguus</i> (Linnaeus, 1758)	DBUA 136, 182, 228, 286/3, 387/4, 448/2, 458/5, 459/3, 465/4, 471/10, 472/3, 475/3, 489/2, 492/4, 496/6, 500/4, 614/5, 658/2, 661/4, 662/6, 665/2, 666/4, 677/8, 695/7, 727/2, 728/4, 743/3, 750/4
CYPRAEIDAE	
<i>Luria lurida</i> (Linnaeus, 1758)	DBUA 362, 640, 649/1, 696/7, 715/8, 810, 835/1, 1059/1
LITTORINIDAE	
<i>Littorina saxatilis</i> (Olivi, 1792)	DBUA 22/1, 29/1, 61, 191, 193/6, 348/1, 626/5, 629, 743/4
<i>Melarhaphe neritoides</i> (Linnaeus, 1758)	DBUA 149, 171, 215/1, 235, 415/3, 430/2, 438/4, 444/1, 445/2, 448/3, 452/3, 457/3, 458/1, 459/4, 460/5, 496/7, 500/5, 659/2, 660/2, 661/5, 662/7, 663/2, 665/3, 666/5, 667/5, 672/8, 713/6, 727/3, 739/5, 806/3
<i>Tectarius striatus</i> (King, 1832)	DBUA 163, 215/2, 221, 282, 438/5, 471/9, 661/6, 662/8, 663/3, 665/4, 667/6, 668/7, 713/7, 727/4, 728/5, 743/5
SKENEOPSIDAE	
<i>Skeneopsis planorbis</i> (O. Fabricius, 1780)	DBUA 9, 117/3, 173/5, 188/7, 189, 194/2, 195/3, 196/2, 217, 268/2, 269/1, 272/1, 274/6, 277/2, 280/1, 281/4, 442/2, 444/2, 446/3, 449/2, 452/4, 456/2, 460/6, 462/4, 466/3, 467/3, 468/4, 469/2, 471/8, 475/4, 477, 478/2, 492/5, 493/4, 496/8, 499/2, 500/6, 564/4, 632/1, 661/7, 662/9, 663/4, 674/1, 719/8, 726/6, 735/6, 743/6, 744/3, 768/4

FAMILY - SPECIES	MATERIAL EXAMINED
NATICIDAE	
<i>Natica prietoi</i> Hidalgo, 1873	DBUA 2, 108, 410/5, 422/4, 605/5, 676/5, 697/2, 717/7, 721/3, 724/3, 734/2, 737/3, 757, 804, 807/4, 825, 835/2, 837/1, 1060/1
RISSOIDAE	
<i>Alvania abstersa</i> van der Linden et van Aartsen, 1994	DBUA 411/1, 726/7
<i>Alvania angioyi</i> van Aartsen, 1982	DBUA 119/1, 173/6, 188/8, 227, 274/7, 277/3, 281/5, 335/2, 340/3, 343/1, 350/3, 352/1, 353/6, 355/4, 372/3, 374/3, 379/8, 394/4, 398/4, 400/4, 407/3, 410/6, 412/2, 462/5, 493/5, 496/9, 499/14, 556/4, 560/5, 564/5, 568/5, 571/3, 574/3, 579/13, 666/6, 675/4, 687/3, 695/8, 709/6, 715/9, 719/9, 727/5, 730/6, 731/5, 732/7, 733/7, 735/7, 736/2, 741/3, 742/5, 748/6, 753/3, 764/4, 766/8, 767/5, 768/5, 769/6, 772/6, 773/5, 788/6, 789/6, 811/1, 813/2
<i>Alvania cancellata</i> (da Costa, 1778)	DBUA 127/2, 168/2, 173/6, 176/4, 197/2, 240/9, 274/8, 281/6, 341/2, 350/4, 379/9, 394/5, 395/4, 405/4, 408/3, 410/7, 411/2, 415/4, 421/3, 422/5, 438/6, 441/4, 446/4, 448/4, 459/5, 489/3, 493/6, 496/10, 499/16, 500/7, 555/4, 558/5, 561/5, 569/4, 570/5, 574/4, 579/9, 605/6, 608/4, 609/6, 614/6, 621/4, 626/6, 658/3, 659/3, 660/3, 661/8, 662/10, 665/5, 666/7, 667/7, 670/8, 672/9, 675/5, 676/6, 677/9, 687/4, 695/9, 696/8, 697/3, 709/7, 719/10, 726/8, 727/6, 731/6, 732/8, 733/8, 735/8, 740/4, 742/6, 760/4, 767/6, 773/6, 789/7, 806/4, 816/1
<i>Alvania formicarum</i> Gofas, 1989	DBUA 332/4, 335/3, 338/2, 340/4, 341/3, 342/4, 343/3, 345/3, 348/2, 350/5, 352/2, 353/1, 355/5, 359/1
<i>Alvania internodula</i> Hoenselaar et Goud, 1998	DBUA 336/4, 338/9
<i>Alvania mediolittoralis</i> Gofas, 1989	DBUA 124, 188/9, 193/7, 197/5, 229, 240/15, 274/9, 409/3, 410/8, 411/3, 421/4, 428/3, 434/2, 438/7, 441/5, 442/3, 444/3, 445/3, 446/5, 448/5, 449/3, 450/2, 451/1, 452/5, 453/3, 455, 456/3, 457/4, 458/6, 459/6, 460/7, 461/1, 462/6, 471/7, 473/1, 474/2, 475/5, 476/2, 483/2, 486/3, 489/4, 490/1, 492/6, 493/7, 496/11, 499/8, 500/8, 551/3, 553/4, 558/6, 560/6, 561/6, 564/6, 565/5, 566/3, 568/6, 570/6, 571/4, 574/5, 579/7, 614/7, 632/2, 659/4, 661/9, 662/11, 663/5, 665/6, 666/8, 667/8, 715/10, 719/11, 727/7
<i>Alvania poucheti</i> Dautzenberg, 1889	DBUA 4, 119/2, 143, 173/7, 240/17, 350/6, 352/3, 353/2, 355/6, 368/3, 369/2, 370/1, 371/1, 372/4, 373/2, 377/3, 378/4, 379/2, 380/3, 384, 387/5, 393/1, 394/6, 395/5, 397/2, 398/5, 400/5, 405/5, 407/4, 409/4, 410/9, 411/4, 427/1, 447/2, 457/5, 465/5, 493/8, 499/3, 500/9, 556/5, 563/4, 570/7, 631/2, 666/9, 687/5, 695/10, 709/8, 748/7, 767/7, 773/7, 788/7, 806/5
<i>Alvania sleursi</i> (Amati, 1987)	DBUA 173/8, 335/4, 340/5, 341/4, 342/1, 343/4, 350/7, 352/4, 353/4, 355/7, 446/6, 448/6, 458/7, 459/7, 493/9, 496/12, 499/17, 500/10, 626/7, 666/10, 667/9, 687/6, 695/11, 709/9, 719/12, 727/8, 731/7, 735/9, 746/3, 748/8, 750/5, 755/6, 766/9, 767/8, 769/7, 772/7, 773/8, 780/5, 786/4, 788/8, 789/8, 791/6, 806/6, 811/2
<i>Alvania tarsodes</i> (Watson, 1886)	DBUA 703/E
<i>Botryphallus ovummuscae</i> (Gofas, 1990)	DBUA 209, 493/10, 499/7, 500/11, 659/5, 661/10, 662/12, 665/7, 666/11, 715/11, 750/6
<i>Cingula trifasciata</i> (J. Adams, 1800)	DBUA 128, 205, 240/2, 352/5, 442/4, 445/4, 448/7, 449/4, 457/6, 460/8, 461/2, 470/3, 474/3, 475/6, 489/5, 490/2, 496/13, 499/5, 500/12, 632/3, 659/6, 660/4, 661/11, 662/13, 663/6, 665/8, 666/12, 667/10, 695/12, 696/9, 726/9, 732/9, 744/4, 750/7, 755/7, 806/7
<i>Crisilla postrema</i> (Gofas, 1990)	DBUA 121/1, 173/9, 188/3, 198, 274/10, 277/4, 340/6, 350/8, 351, 352/6, 353/3, 355/8, 359/2, 447/3, 462/7, 465/6, 470/4, 472/4, 492/7, 496/14, 499/18, 500/13, 545/4, 564/7, 632/4, 670/9, 730/7, 731/8, 733/9, 741/4, 745/3, 746/4, 768/6
<i>Manzonina martinsi</i> Ávila et Cordeiro, 2015	DBUA 788/9, 1092, 1093, 1094, 1095
<i>Manzonina unifasciata</i> Dautzenberg, 1889	DBUA 129, 173/10, 188/1, 266/3, 273, 274/11, 281/7, 332, 338/3, 340/7, 341/5, 346, 350/9, 352/7, 353/5, 355/9, 380/4, 381/3, 395/6, 397/3, 398/6, 403/3, 409/5, 410/10, 442/5, 443/3, 445/5, 446/7, 449/5, 451/2, 452/6, 462/8, 470/5, 471/6, 475/7, 476/3, 486/4, 492/8, 493/11, 496/15, 499/20, 500/14, 556/6, 571/5, 574/6, 579/14, 657/4, 660/5, 661/12, 662/14, 665/9, 666/13, 667/11, 670/11, 687/7, 695/13, 697/4, 709/10, 715/12, 719/13, 726/10, 727/9, 728/6, 730/8, 731/9, 733/10, 748/9, 755/8, 766/10, 767/9, 773/9, 789/9, 806/8

FAMILY - SPECIES	MATERIAL EXAMINED
RISSOIDAE	
<i>Onoba moreleti</i> Dautzenberg, 1889	DBUA 24/1, 181/2, 410/11, 411/5, 500/15, 556/7, 666/14, 726/11, 748/10
<i>Rissoa guernei</i> Dautzenberg, 1889	DBUA 132, 188/10, 190/4, 193/8, 195/4, 220, 240/18, 274/12, 281/8, 372/5, 381/4, 382/3, 387/6, 397/4, 398/7, 400/6, 442/6, 443/2, 448/8, 451/3, 452/7, 459/8, 460/9, 462/9, 468/5, 470/6, 471/5, 472/5, 473/2, 475/8, 492/9, 493/12, 496/16, 499/22, 500/16, 551/4, 554/1, 556/8, 565/6, 566/4, 568/7, 570/8, 571/6, 574/7, 579/5, 632/5, 661/13, 662/15, 666/15, 667/12, 695/14, 719/14, 726/12, 735/10, 736/3, 741/5, 746/5, 748/11, 755/9, 764/5, 766/11
<i>Setia alexandrae</i> Ávila et Cordeiro, 2015	DBUA 35/1, 37/1, 40, 48/1, 50, 336/3, 355/10, 449/6, 468/6, 471/4, 478/3, 496/17, 662/16, 704/A1, 898/1, 901, 920, 963/1, 1018/1, 1019/1, 1051, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078
<i>Setia ermelindoi</i> Ávila et Cordeiro, 2015	DBUA 137, 467/4, 689/2, 899, 957, 1058/1, 1079, 1080, 1081, 1082, 1083, 1084, 1085
<i>Setia netoae</i> Ávila et Cordeiro, 2015	DBUA 264/1, 745/4, 1086, 1087, 1088, 1089, 1090, 1091
<i>Setia subvaricosa</i> Gofas, 1990	DBUA 121/2, 176/5, 188/11, 193/9, 195/5, 223, 274/13, 281/9, 332, 335/5, 336/1, 338/4, 343/5, 345/4, 350/10, 352/8, 355/11, 447/4, 451/4, 462/10, 465/7, 467/5, 471/3, 481/4, 496/18, 499/23, 500/17, 545/5, 557/5, 564/8, 571/7, 574/8, 660/6, 662/17, 666/16, 730/9, 731/10, 733/11, 735/11, 741/6, 742/7, 744/5, 745/5, 746/6, 754/3, 755/10, 764/6, 766/12, 773/10, 782/5, 784/5, 788/10
ANABATHRIDAE	
<i>Pisinna glabrata</i> (Megerle von Mühlfeld, 1824)	DBUA 187, 189/2, 194, 195/6, 269/2, 272/2, 277/5, 280/2, 442/7, 443/1, 444/4, 446/8, 447/5, 448/9, 449/7, 450/3, 451/5, 452/8, 456/4, 457/7, 458/3, 459/9, 460/10, 462/11, 465/8, 466/4, 467/6, 468/7, 469/3, 470/7, 471/2, 472/6, 474/4, 475/9, 476/4, 478/4, 480/2, 481/5, 492/10, 493/13, 496/19, 499/19, 500/18, 554/4, 661/14, 662/18, 663/7, 665/10, 666/17, 669/4, 726/13, 727/10, 743/7, 744/6, 755/11
ASSIMINEIDAE	
<i>Assiminea avilai</i> van Aartsen, 2008	DBUA 687/8
<i>Paludinella globularis</i> (Hanley in Thorpe, 1844)	DBUA 355/12, 449/8, 466/5, 470/8, 660/7, 661/15, 665/11, 666/18, 715/13, 726/14
CAECIDAE	
<i>Caecum gofasi</i> Pizzini et Nofroni, 2001	DBUA 355/13, 662/19, 1096
<i>Caecum wayae</i> Pizzini et Nofroni, 2001	DBUA 355/14, 1107
TRUNCATELLIDAE	
<i>Truncatella subcylindrica</i> (Linnaeus, 1767)	DBUA 1
BURSIDAE	
<i>Bursa scrobilator</i> (Linnaeus, 1758)	DBUA 359/3, 495/1, 498/2, 639/1, 643, 672/10, 1059/2
CASSIDAE	
<i>Semicassis granulata undulata</i> (Gmelin, 1791)	DBUA 719/15, 807/5
RANELLIDAE	
<i>Charonia lampas</i> (Linnaeus, 1758)	DBUA 648, 668/8, 672/11, 685/1
<i>Charonia variegata</i> (Lamarck, 1816)	DBUA 672/12
<i>Monoplex corrugatus</i> (Lamarck, 1816)	DBUA 652/2, 668/9, 738/3, 807/6
VELUTINIDAE	
<i>Lamellaria latens</i> (O.F. Müller, 1776)	DBUA 22/2, 410/12, 666/19

FAMILY - SPECIES	MATERIAL EXAMINED
VELUTINIDAE	
<i>Lamellaria perspicua</i> (Linnaeus, 1758)	DBUA 29/2, 731/11, 788/11, 842
TRIVIIDAE	
<i>Trivia candidula</i> (Gaskoin, 1836)	DBUA 6, 624/4, 668/10, 677/10, 696/10, 717/8, 721/4, 732/10, 737/4, 739/6, 750/8, 835/3.
<i>Trivia mediterranea</i> (Risso, 1826)	DBUA 33, 169/3, 486/5, 608/5, 609/7, 610/2, 614/8, 620, 649/2, 651/2, 666/20, 677/11, 696/11, 715/14, 726/15, 730/10, 733/12, 739/7, 758/4, 760/5, 837/2
VERMETIDAE	
<i>Thylaeodus</i> cf. <i>rugulosus</i> (Monterosato, 1878)	DBUA 1108
<i>Vermetus triquetrus</i> Bivona Ant., 1832	DBUA 214, 445/6, 456/5, 470/9, 474/5, 674/2.
EPITONIIDAE	
<i>Acirsa subdecussata</i> (Cantraine, 1835)	DBUA 1117
<i>Cirsotrema cochlea</i> (G.B. Sowerby II, 1844)	DBUA 738/4
<i>Epitonium algerianum</i> (Weinkauff, 1866)	DBUA 69, 72
<i>Epitonium celesti</i> (Aradas, 1854)	DBUA 1118
<i>Epitonium clathratulum</i> (Kanmacher, 1798)	DBUA 614/9, 715/15
<i>Epitonium clathrus</i> (Linnaeus, 1758)	DBUA 1119
<i>Epitonium pulchellum</i> (Bivona, 1832)	DBUA 1120
<i>Epitonium turtonis</i> (Turton, 1819)	DBUA 1121
<i>Gyroscala lamellosa</i> (Lamarck, 1822)	DBUA 24/2, 93, 105, 695/15, 777/5, 1058/2
<i>Opalia coronata</i> (Philippi et Scacchi, 1840)	DBUA 614/10
EULIMIDAE	
<i>Crinophtheiros collinsi</i> (Sykes, 1903)	DBUA 1122
<i>Curveulima dautzenbergi</i> (Pallary, 1900)	NMR 32213
<i>Melanella boscii</i> (Payraudeau, 1826)	DBUA 1123
<i>Melanella</i> cf. <i>trunca</i> (Watson, 1897)	DBUA 1124
<i>Parvioris ibizenca</i> (Nordsieck, 1968)	DBUA 224
<i>Vitreolina curva</i> (Monterosato, 1874)	DBUA 133/1, 338/5, 343/6, 355/15
<i>Vitreolina incurva</i> (Bucquoy, Dautzenberg et Dollfus, 1883)	DBUA 115, 133/2, 134, 281/10, 379/3, 407/5
<i>Vitreolina philippi</i> (de Rayneval et Ponzi, 1854)	DBUA 16, 19, 1017, 1058/3
TRIPHORIDAE	
<i>Cheirodonta pallescens</i> (Jeffreys, 1867)	DBUA 240/14, 722/1, 769/8, 781, 784/6
<i>Marshallora adversa</i> (Montagu, 1803)	DBUA 116, 186, 193/10, 197/9, 240/16, 281/11, 373/3, 374/4, 379/4, 380/5, 407/6, 428/4, 441/6, 493/14, 560/7, 563/5, 574/9, 662/20, 665/12, 666/21, 672/14, 675/6, 715/16, 722/2, 765/3, 768/7, 770/3, 771/4, 773/11, 774/4, 775/3, 776/5, 777/6, 778/2, 789/10, 791/7

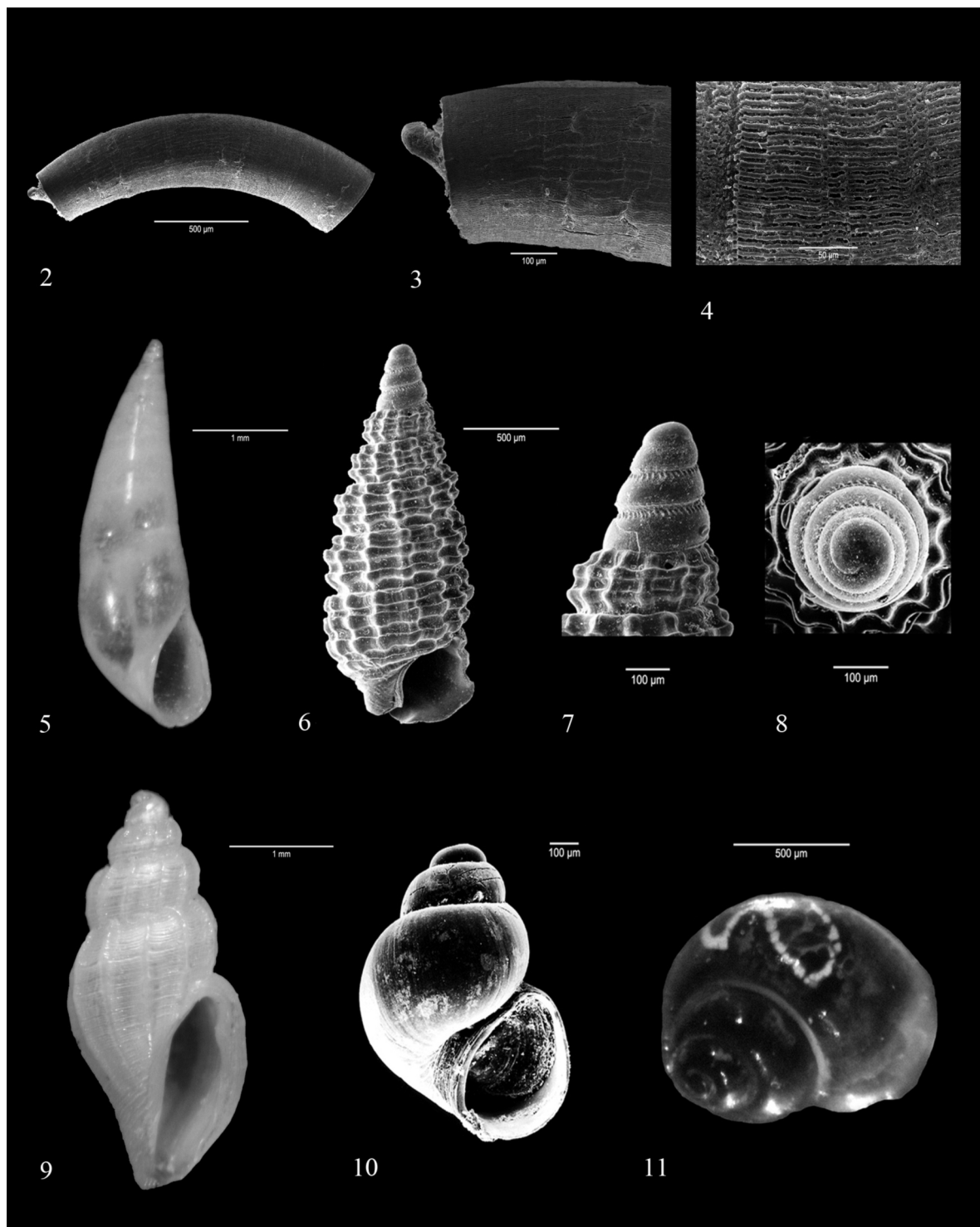
FAMILY - SPECIES	MATERIAL EXAMINED
TRIPHORIDAE	
<i>Metaxia abrupta</i> (Watson, 1880)	DBUA 73/1, 76/1
<i>Monophorus erythrosoma</i> (Bouchet et Guillemot, 1978)	DBUA 421/5, 574/10, 722/3, 723, 727/11, 762/4, 767/10, 768/8, 773/12, 774/5, 778/3, 782/6, 789/11, 790
<i>Monophorus thiriotae</i> Bouchet, 1985	DBUA 768/9
<i>Pogonodon pseudocanaricus</i> (Bouchet, 1985)	DBUA 1141
<i>Similiphora similior</i> (Bouchet et Guillemot, 1978)	DBUA 727/12, 730/11, 732/11, 767/11, 787, 788/12
CERITHIOPSIDAE	
<i>Cerithiopsis barleei</i> Jeffreys, 1867	DBUA 197/10, 240/11, 412/3, 560/8, 567/3
<i>Cerithiopsis fayalensis</i> Watson, 1880	DBUA 1142
<i>Cerithiopsis jeffreysi</i> Watson, 1885	DBUA 12, 73/2, 274/14, 574/11, 695/16, 702/4, 731/12, 785/1
<i>Cerithiopsis minima</i> (Brusina, 1865)	DBUA 150, 188/4, 213, 695/17, 777/7
<i>Cerithiopsis</i> cf. <i>nana</i> Jeffreys, 1867	DBUA 560/9, 707/1, 748/12
<i>Cerithiopsis scalaris</i> Locard, 1892	DBUA 1128
<i>Cerithiopsis tubercularis</i> (Montagu, 1803)	DBUA 76/2, 188/6, 379/5, 409/6, 660/8, 662/21, 666/22, 742/8
BUCCINIDAE	
<i>Polia dorbignyi</i> (Payraudeau, 1826)	DBUA 175, 410/13, 627, 657/5, 676/8, 721/5, 731/13, 733/13, 738/5, 754/4, 767/12, 807/7, 835/4
COLUMBELLIDAE	
<i>Anachis avaroides</i> Nordsieck, 1975	DBUA 155, 168/7, 173/11, 176/6, 195/7, 216, 240/12, 274/15, 278/6, 281/12, 368/4, 372/6, 378/5, 379/6, 381/5, 387/7, 391/3, 394/7, 395/7, 397/5, 398/8, 405/6, 407/7, 408/4, 409/7, 410/14, 428/5, 438/8, 441/7, 456/6, 496/20, 553/5, 555/5, 556/9, 561/7, 565/7, 571/8, 574/12, 579/12, 614/11, 621/5, 626/8, 662/22, 666/23, 672/15, 675/7, 676/9, 677/12, 695/18, 696/12, 707/2, 709/11, 715/17, 719/16, 726/16, 727/13, 732/12, 733/14, 739/8, 741/7, 742/9, 745/6, 748/13, 764/7, 766/13, 767/13, 768/10, 772/8, 773/13, 775/4, 777/8, 779/5, 783/5, 784/7, 788/13, 789/12, 791/8, 807/8
<i>Columbella adansoni</i> Menke, 1853	DBUA 166, 176/7, 184, 193/11, 197/4, 233/3, 240/13, 278/1, 377/4, 404, 405/7, 425/1, 433/4, 553/6, 556/10, 557/6, 561/8, 563/6, 565/8, 567/4, 569/5, 570/9, 574/13, 576/3, 578/1, 579/1, 621/6, 646/1, 658/4, 662/23, 668/11, 670/12, 671/2, 672/16, 676/10, 677/13, 696/13, 709/12, 713/8, 715/18, 719/17, 721/6, 727/14, 728/7, 729/1, 731/14, 733/15, 738/6, 758/5, 759/1, 760/6, 761/1, 766/14, 773/14, 776/6, 778/4, 783/6, 791/9, 807/9, 835/5, 837/3
NASSARIIDAE	
<i>Nassarius corniculum</i> (Olivi, 1792)	DBUA 418/3
<i>Nassarius cuvierii</i> (Payraudeau, 1826)	DBUA 340/8, 673/2, 676/11, 711, 730/12, 731/15, 732/13, 734/3, 735/12, 736/4, 807/10
<i>Nassarius incrassatus</i> (Strøm, 1768)	DBUA 164, 167/4, 169/4, 176/8, 193/12, 201, 233/4, 240/10, 368/5, 414/2, 416/2, 418/4, 422/6, 424/1, 430/3, 437/2, 439/2, 553/7, 555/6, 558/7, 560/10, 563/7, 568/8, 569/6, 576/4, 578/2, 579/15, 612/2, 614/12, 616/4, 621/7, 624/5, 646/2, 657/6, 668/12, 672/17, 675/8, 676/13, 677/14, 676, 696/14, 704/A2, 709/13, 717/9, 719/19, 721/7, 729/2, 730/13, 731/16, 732/14, 733/16, 734/4, 735/14, 737/5, 738/7, 758/6, 760/7, 761/2, 764/8, 766/15, 767/14, 768/11, 769/9, 772/9, 773/15, 774/6, 776/7, 777/9, 779/6, 780/6, 782/7, 784/8, 786/3, 788/14, 789/13, 791/10, 807/11, 835/6, 837/4

FAMILY - SPECIES	MATERIAL EXAMINED
MURICIDAE	
<i>Coralliophila meyendorffii</i> (Calcara, 1845)	DBUA 37/2, 38/1, 345/5, 350/11, 695/19, 728/8
<i>Hexaplex trunculus</i> (Linnaeus, 1758)	DBUA 425/2, 645/1, 646/3, 649/3, 652/4, 656/2, 676/14, 758/7, 760/8
<i>Ocenebra chavesi</i> Houart, 1996	DBUA 38/2, 414/3, 612/3, 651/3, 676/15, 724/4, 760/9, 761/3, 807/12
<i>Ocenebra erinaceus</i> (Linnaeus, 1758)	DBUA 123/2, 424/2, 645/2, 651/4, 652/5, 657/7, 672/18, 676/16, 695/20, 719/20, 754/5, 760/10, 807/13
<i>Ocenebrina aciculata</i> (Lamarck, 1822)	DBUA 123/1, 167/5, 168/1, 173/12, 176/9, 379/7, 394/8, 395/8, 400/7, 408/5, 409/8, 410/15, 411/6, 605/7, 608/6, 612/4, 614/13, 616/5, 618/2, 621/8, 626/9, 672/19, 675/9, 676/17, 677/15, 695/21, 696/15, 709/14, 719/21, 721/8, 726/17, 730/14, 731/17, 732/15, 733/17, 742/10, 754/6, 760/11, 761/4, 764/9, 765/4, 766/16, 767/15, 770/4, 772/10, 773/16, 774/7, 776/8, 778/5, 779/7, 782/8, 783/7, 784/9, 786/2, 788/15, 789/14, 791/11, 807/14, 837/5
<i>Orania fusulus</i> (Brocchi, 1814)	DBUA 612/5
<i>Stramonita haemastoma</i> (Linnaeus, 1767)	DBUA 18, 174, 193/3, 233/5, 239, 372/7, 410/16, 422/7, 425/3, 433/5, 487, 576/5, 579/10, 609/8, 644, 650, 657/8, 662/24, 666/24, 668/13, 670/13, 671/3, 672/20, 676/18, 677/16, 696/16, 717/10, 719/22, 729/3, 731/18, 733/18, 737/6, 759/2, 760/12, 761/5, 764/10, 766/17, 767/16, 807/15, 835/7
<i>Trophonopsis barvicensis</i> (Johnston, 1825)	DBUA 151, 605/8, 608/7, 616/6
MARGINELLIDAE	
<i>Volvarina oceanica</i> Gofas, 1989	DBUA 338/6, 342/3
MITRIDAE	
<i>Mitra cornea</i> Lamarck, 1811	DBUA 172, 197/1, 233/6, 378/6, 397/6, 400/8, 401, 402, 405/8, 409/9, 433/6, 495/3, 573, 579/8, 612/6, 624/6, 662/25, 670/14, 671/4, 672/21, 674/3, 677/17, 696/17, 715/19, 717/11, 719/23, 727/15, 729/4, 733/19, 738/8, 740/5, 741/8, 759/3, 761/6, 763/2, 765/5, 767/17, 786/1, 835/8, 1018/2
<i>Mitra zonata</i> Marryat, 1819	DBUA 356/3, 419, 495/4, 724/5
MANGELIIDAE	
<i>Bela nebula</i> (Montagu, 1803)	DBUA 135, 167/6, 169/5, 605/9, 608/8, 614/14, 616/7, 676/19, 732/17, 739/9, 807/16
<i>Mangelia costata</i> (Pennant, 1777)	DBUA 338/10
<i>Mangelia scabrida</i> Monterosato, 1890	NMR 34350
RAPHITOMIDAE	
<i>Raphitoma aequalis</i> (Jeffreys, 1867)	DBUA 605/10, 609/9
<i>Raphitoma leufroyi</i> (Michaud, 1828)	DBUA 338/7, 343/7, 614/15, 698/2, 701/G
<i>Raphitoma linearis</i> (Montagu, 1803)	DBUA 122, 176/11, 253, 418/6, 558/8, 574/14, 624/7, 626/11, 666/25, 675/11, 695/23, 696/19, 721/9, 732/18, 764/11, 767/19, 770/5, 773/18, 774/8, 775/5, 789/16
<i>Raphitoma purpurea</i> (Montagu, 1803)	DBUA 410/17, 666/26, 670/10, 702/H, 709/16, 762/5, 785/2, 1058/5
<i>Teretia teres</i> (Reeve, 1844)	DBUA 1116
DRILLIIDAE	
<i>Crassopleura maravignae</i> (Bivona Ant. in Bivona And., 1838)	DBUA 154, 169/6, 608/9, 614/16, 616/8, 696/20
HORAICLAVIDAE	
<i>Haedropleura septangularis</i> (Montagu, 1803)	DBUA 240/1, 338/8, 605/11, 675/12, 682/2, 683/3, 695/24, 696/21, 704/A3, 709/17

FAMILY - SPECIES	MATERIAL EXAMINED
CANCELLARIIDAE	
<i>Brocchinia clenchi</i> Petit, 1986	DBUA 146, 169/7, 605/12, 608/10, 609/10, 614/17
CIMIDAE	
<i>Cima cylindrica</i> (Jeffreys, 1856)	DBUA 1125, 1126
<i>Cima cf. minima</i> (Jeffreys, 1858)	DBUA 147
ARCHITECTONICIDAE	
<i>Philippia hybrida</i> (Linnaeus, 1758)	DBUA 17, 35/2
<i>Pseudotorinia architae</i> (O.G. Costa, 1841)	DBUA 605/13
TOFANELLIDAE	
<i>Graphis albida</i> (Kanmacher, 1798)	DBUA 1127
OMALOGYRIDAE	
<i>Ammonicera fischeriana</i> (Monterosato, 1869)	DBUA 338/6, 342/3
<i>Ammonicera rota</i> (Forbes et Hanley, 1850)	DBUA 1058/6
<i>Omalogyra atomus</i> (Philippi, 1841)	DBUA 35/3, 77, 87, 118/2, 173/13, 188/12, 277/6, 280/3, 336/2, 446/9, 449/9, 452/9, 465/9, 467/7, 468/8, 469/4, 470/10, 471/1, 474/6, 475/10, 496/21, 499/15, 564/9, 571/9, 614/18, 631/3, 632/6, 662/26, 663/8, 665/13, 666/27, 715/21, 726/18, 730/15, 731/19, 755/13, 768/12, 773/19, 1058/7
PYRAMIDELLIDAE	
<i>Brachystomia eulimoides</i> (Hanley, 1844)	DBUA 1114
<i>Liostomia mamoi</i> Mifsud, 1993	DBUA 499/1
<i>Odostomella doliolum</i> (Philippi, 1844)	DBUA 5, 22/3, 355/16, 574/15, 687/9, 695/25, 707/C, 709/18, 735/15, 755/14, 767/10, 1014, 1018/3, 1058/8
<i>Odostomia bernardi</i> van Aartsen, Gittenberger et Goud, 1998	DBUA 719/25, 731/20, 1115
<i>Odostomia duureni</i> van Aartsen, Gittenberger et Goud, 1998	DBUA 1113
<i>Odostomia kuiperi</i> van Aartsen, Gittenberger et Goud, 1998	DBUA 719/26, 1111
<i>Odostomia lukisii</i> Jeffreys, 1859	DBUA 730/16, 731/21, 733/21, 1110
<i>Odostomia striolata</i> Forbes et Hanley, 1850	DBUA 1109
<i>Odostomia turrita</i> Hanley, 1844	DBUA 1112
<i>Ondina diaphana</i> (Jeffreys, 1848)	DBUA 719/27
<i>Pyrgiscus rufus</i> (Philippi, 1836)	DBUA 1129
<i>Turbonilla lactea</i> (Linnaeus, 1758)	DBUA 22/4, 130, 493/15, 499/21, 695/26, 702/1, 703/G, 709/19, 727/17, 728/9, 730/17, 731/22, 735, 767/21
<i>Cima cf. minima</i> (Jeffreys, 1858)	DBUA 147
MURCHISONELLIDAE	
<i>Ebala nitidissima</i> (Montagu, 1803)	DBUA 1130
RISSEOELLIDAE	
<i>Rissoella contrerasi</i> Rolán et Hernández, 2004	DBUA 48/2, 195/8, 352/9, 730/18, 898/2, 1018/4

FAMILY - SPECIES	MATERIAL EXAMINED
RISSEOELLIDAE	
<i>Rissoella diaphana</i> (Alder, 1848)	DBUA 466/6, 662/27, 665/14
DIAPHANIDAE	
<i>Diaphana globosa</i> (Lovén, 1846)	DBUA 1062
HAMINOEIDAE	
<i>Atysma candrewii</i> E.A. Smith, 1872	DBUA 738/9, 1131, 1132, 1133
<i>Haminoea ortei</i> Talavera, Murillo et Templado, 1987	DBUA 702/2, 738/10, 1334, 1335
RETUSIDAE	
<i>Retusa multiquadrata</i> Oberling, 1970	DBUA 733/22
<i>Retusa truncatula</i> (Bruguière, 1792)	DBUA 22/5, 493/16, 499/4, 731/23, 746/7
RUNCINIDAE	
<i>Runcina adriatica</i> T. Thompson, 1980	DBUA 1137, 1139
APLYSIIDAE	
<i>Aplysia depilans</i> (Gmelin 1791)	DBUA 80, 835/9
<i>Aplysia fasciata</i> Poiret, 1789	DBUA 360
<i>Aplysia parvula</i> Mörch, 1863	DBUA 45/1, 662/28, 667/13, 704/D1, 704/H, 762/6
<i>Aplysia punctata</i> (Cuvier, 1803)	DBUA 354/1, 748/14, 759/4, 766/19, 776/10, 778/6, 780/9, 785/2, 788/16, 1058/9
PLAKOBRANCHIDAE	
<i>Elysia ornata</i> (Swainson, 1840)	DBUA 577/2
<i>Elysia viridis</i> (Montagu, 1804)	DBUA 729/5
UMBRACULIDAE	
<i>Umbraculum umbraculum</i> (Lightfoot, 1786)	DBUA 26, 35/4, 638/3, 753/4, 760/13, 874
TYLODINIDAE	
<i>Tylodina perversa</i> (Gmelin, 1791)	DBUA 861
PLEUROBRANCHIDAE	
<i>Berthellina edwardsii</i> (Vayssièrè, 1896)	DBUA 185/1, 362, 423, 642/1, 719/28, 748/15
<i>Pleurobranchus testudinarius</i> Cantraine, 1835	DBUA 185/2, 759/5, 761/7
DORIDIDAE	
<i>Doris bertheloti</i> (d'Orbigny, 1839)	DBUA 1063
<i>Doris ocelligera</i> (Bergh, 1881)	DBUA 778/7
CADLINIDAE	
<i>Aldisa smaragdina</i> Ortea, Pérez et Llera, 1982	DBUA 809/1
CHROMODORIDIDAE	
<i>Felimare picta</i> (Schultz in Philippi, 1836)	DBUA 354/2, 685/2, 687/11, 759/6, 761/8, 809/2
<i>Felimare tricolor</i> (Cantraine, 1835)	DBUA 760/14, 1038

FAMILY - SPECIES	MATERIAL EXAMINED
CHROMODORIDIDAE	
<i>Felimida britoi</i> (Ortea et Pérez, 1983)	DBUA 722/4, 760/15
<i>Felimida edmundsi</i> (Cervera, García-Gómez et Ortea, 1989)	DBUA 1034/1
<i>Felimida purpurea</i> (Risso in Guérin, 1831)	DBUA 722/5, 759/7, 760/16, 1036
DISCODORIDIDAE	
<i>Peltodoris atromaculata</i> Bergh, 1880	DBUA 726/19, 761/9, 840, 1034/2, 1035
<i>Platydorís argo</i> (Linnaeus, 1767)	DBUA 345/6, 356/1, 642/2, 835/10, 864, 1040/1
DENDRODORIDIDAE	
<i>Dendrodoris herytra</i> Valdés et Ortea, 1996	DBUA 726/20, 760/17
POLYCERIDAE	
<i>Crimora papillata</i> Alder et Hancock, 1862	DBUA 1039, 1040/2
<i>Kaloplocamus ramosus</i> (Cantraine, 1835)	DBUA 610/3, 835/11
<i>Limacia clavigera</i> (O.F. Müller, 1776)	DBUA 837/6
<i>Polycera quadrilineata</i> (O.F. Müller, 1776)	DBUA 1138, 1140
<i>Tambja ceutae</i> García-Gómez et Ortea, 1988	DBUA 798, 1037, 1041/1, 1059/3
AEGIRIDAE	
<i>Aegires sublaevis</i> Odhner, 1932	DBUA 767/22, 1136
TRITONIIDAE	
<i>Marionía blainvillea</i> (Risso, 1818)	DBUA 331
AEOLIDIIDAE	
<i>Spurilla neapolitana</i> (delle Chiaje, 1841)	DBUA 45/2
FACELINIDAE	
<i>Dicata odhneri</i> Schmekel, 1967	DBUA 1041/2
SIPHONARIIDAE	
<i>Williamia gussoni</i> (O.G. Costa, 1829)	DBUA 260, 342/2, 703/D, 704/D2, 1058/10
ELLOBIIDAE	
<i>Auriculinella bidentata</i> (Montagu, 1808)	DBUA 659/7, 660/9, 661/16, 665/15, 666/28
<i>Myosotella myosotis</i> (Draparnaud, 1801)	DBUA 490/3, 500/19
<i>Ovatella vulcani</i> (Morelet, 1860)	DBUA 490/4, 659/9, 660/10, 661/17, 665/16, 666/29, 677/18, 726/21, 750/9
<i>Pedipes pedipes</i> (Bruguière, 1789)	DBUA 490/5, 626/12, 660/11, 665/17, 677/19, 694, 696/22, 726/22, 743/8, 750/10, 1056/1, 1060/2
<i>Pseudomelampus exiguus</i> (Lowe, 1832)	DBUA 659/8, 661/18, 665/18, 677/20, 696/23, 750/11, 1060/3
ONCHIDIIDAE	
<i>Onchidella celtica</i> (Cuvier, 1817)	DBUA 490/6, 491, 659/10, 660/12, 661/19, 665/19, 1056/2, 1066



Figures 2–11. New records for the littoral gastropoda fauna of the Azores. Figs. 2–4. *Caecum gofasi* Pizzini et Nofroni, 2001; DBUA 355/13. Fig. 2: shell; Fig. 3: septum, lateral view; Fig. 4: microsculpture of the shell. Fig. 5. *Curveulima dautzenbergi* (Pallary, 1900), shell, NMR 32213, credit: J. Trausel, Natural History Museum of Rotterdam. Figs. 6–8. *Cerithiopsis* cf. *nana* Jeffreys, 1867, DBUA 748/12: Fig. 6: shell; Fig. 7: protoconch, lateral view; Fig. 8: protoconch, apical view. Fig. 9. *Mangelia scabrida* Monterosato, 1890; shell, NMR 34350, credit: J. Trausel, Natural History Museum of Rotterdam). Fig. 10. *Liostomia mamoi* Mifsud, 1993, shell, DBUA 499/1. Fig. 11. *Rissoella contrerasi* Rolán et Hernández, 2004, shell, DBUA 1018/4.

Table 2. Species excluded from the checklist of the littoral gastropods of the Azores.

FAMILY	SPECIES	FIRST RECORD AND REMARKS
HALIOTIDAE	<i>Haliotis tuberculata coccinea</i> Reeve, 1846	Drouët (1858) as <i>Haliotis coccinea</i> Reeve. Dubious record (see Ávila et al., 1998).
TROCHIDAE	<i>Clanculus berthelotii</i> (d'Orbigny, 1840)	MacAndrew (1857), as <i>Trochus</i> (<i>Monodonta</i>) <i>bertheloti</i> d'Orbigny. Dubious record (see Ávila et al., 2011).
	<i>Jujubinus exasperatus</i> (Pennant, 1777)	MacAndrew (1857) as <i>Trochus striatus</i> Linnaeus. Misidentification of <i>Jujubinus pseudogravinae</i> Nord-sieck, 1973 (see Ávila et al., 2011).
	<i>Jujubinus striatus</i> (Linnaeus, 1758)	MacAndrew (1857) as <i>Trochus striatus</i> Linnaeus. Misidentification of <i>Jujubinus pseudogravinae</i> Nord-sieck, 1973 (see Ávila et al., 2011).
CALLIOSTOMATIDAE	<i>Calliostoma conulus</i> (Linnaeus, 1758)	Drouët (1858) as <i>Trochus conulus</i> Linnaeus. Misidentification of <i>Calliostoma lividum</i> Dautzenberg, 1927 (see Ávila et al., 2011).
	<i>Calliostoma laugierii</i> (Payraudeau, 1826)	MacAndrew (1857) as <i>Trochus laugierii</i> Payraudeau. Misidentification of <i>Calliostoma lividum</i> Dautzenberg, 1927 (see Ávila et al., 2011).
	<i>Calliostoma zizyphinum</i> (Linnaeus, 1758)	MacAndrew (1857) as <i>Trochus zizyphinus</i> Linnaeus. Misidentification of <i>Calliostoma lividum</i> Dautzenberg, 1927 (see Ávila et al., 2011).
TURBINIDAE	<i>Bolma rugosa</i> (Linnaeus, 1767)	MacAndrew (1857) as <i>Turbo rugosus</i> Linnaeus. Dubious record (see Ávila et al., 1998).
SKENEIDAE	<i>Dikoleps</i> cf. <i>cutleriana</i> (Clark, 1849)	Ávila et al. (2000b). Dubious record. The specimen was not found in the DBUA marine mollusc collection.
	<i>Parviturbo</i> cf. <i>rolani</i> Engl, 2001	Segers (2002). Misidentification of <i>Parviturbo azoricus</i> Rubio, Rolán et Segers, 2015.
CERITHIIDAE	<i>Cerithium zebrum</i> Kiener, 1841	Drouët (1858). Dubious record (see Ávila et al., 1998).
LITTORINIDAE	<i>Littorina compressa</i> Jeffreys, 1865	Jeffreys (1883) as <i>Littorina rudis</i> Maton. Misidentification of <i>Littorina saxatilis</i> (Olivi, 1792) (see Ávila et al., 1998).
	<i>Littorina obtusata</i> (Linnaeus, 1758)	Jeffreys (1883). Dubious record (see Ávila et al., 1998).
NATICIDAE	<i>Euspira intricata</i> (Donovan, 1804)	MacAndrew (1857) as <i>Natica intricata</i> Donovan. Misidentification of <i>Natica prietoi</i> Hidalgo, 1873.
	<i>Euspira nitida</i> (Donovan, 1804)	Morton et al. (1998) as <i>Lunatia alderi</i> . Misidentification of <i>Natica prietoi</i> Hidalgo, 1873.
	<i>Naticarius stercusmuscarum</i> (Gmelin, 1791)	Morton et al. (1998) as <i>Natica canrena</i> . Misidentification of <i>Natica prietoi</i> Hidalgo, 1873.
	<i>Notocochlis dillwynii</i> (Payraudeau, 1826)	Simroth (1888) as <i>Natica dillwyni</i> Payraudeau. Misidentification of <i>Natica prietoi</i> Hidalgo, 1873, see Ávila et al. (2000b).
	<i>Polinices lacteus</i> (Guilding, 1834)	Laursen (1981). Dubious record. Specimens of this species sometimes arrive by rafting to the Azores from the western Atlantic, but so far have not been able to maintain viable populations in the archipelago.
RISSOIDAE	<i>Alvania beanii</i> (Hanley in Thorpe, 1844)	MacAndrew (1857) as <i>Rissoa calathus</i> Forbes et Hanley. Dubious record (see Ávila, 2000b).
	<i>Alvania cimex</i> (Linnaeus, 1758)	MacAndrew (1857) as <i>Rissoa granulata</i> Philippi. Dubious record (see Ávila, 2000b).
	<i>Cingula ordinaria</i> Smith, 1890	Chapman (1955). Misidentification of <i>Cingula trifasciata</i> (J. Adams, 1800) (see Ávila et al., 1998).

FAMILY	SPECIES	FIRST RECORD AND REMARKS
RISSOIDAE	<i>Manzonina crassa</i> (Kanmacher, 1798)	Morton et al. (1998). Misidentification of <i>Manzonina unifasciata</i> Dautzenberg, 1889 (see Ávila, 2000b).
	<i>Rissoa guerinii</i> Récluz, 1843	Chapman (1955) as <i>Cingula costulata</i> Alder. Misidentification of <i>Rissoa guernei</i> Dautzenberg, 1889 (see Ávila, 2000b).
	<i>Setia pulcherrima</i> (Jeffreys, 1848)	Bullock et al. (1990) as <i>Cingula pulcherrima</i> (Jeffreys, 1848). Misidentification of <i>Setia subvaricosa</i> Gofas, 1990 (see Ávila, 2000b).
ASSIMINEIDAE	<i>Assiminea eliae</i> Paladilhe, 1875	Ávila & Azevedo (1996). Misidentification of <i>Paludinella globularis</i> (Hanley in Thorpe, 1844) (see Aartsen, 2008).
CAECIDAE	<i>Caecum glabellum</i> (A. Adams, 1868)	Morton et al. (1998). Dubious record. Probably misidentified, since it was only recorded by Morton et al. (1998) and was not found in the DBUA marine mollusc collection.
	<i>Caecum vitreum</i> Carpenter, 1859	Dautzenberg (1889). Dubious record. Probably misidentified, since it was only recorded by Dautzenberg (1889) and was not found in the DBUA marine mollusc collection.
TORNIDAE	<i>Tornus subcarinatus</i> (Montagu, 1803)	Borges et al. (2010). Misidentification of <i>Parviturbo azoricus</i> Rubio, Rolán et Segers, 2015.
RANELLIDAE	<i>Guttarium muricinum</i> (Röding, 1798)	MacAndrew (1857) as <i>Triton tuberosus</i> Lamarck. Dubious record, (see Ávila et al., 1998).
EULIMIDAE	<i>Eulima glabra</i> (da Costa, 1778)	Jeffreys (1884) as <i>Eulima subulata</i> Donovan. Dubious record (see Ávila et al., 1998).
	<i>Vitreolina antiflexa</i> (Monterosato, 1884)	MacAndrew (1857) as <i>Eulima distorta</i> Deshayes. Dubious record (see Ávila et al., 1998).
TRIPHORIDAE	<i>Monophorus perversus</i> (Linnaeus, 1758)	Jeffreys (1885) as <i>Triforis perversa</i> Linnaeus. Dubious record. Jeffreys identified virtually all European Triphoridae with this name (see Bouchet, 1985).
BUCCINIDAE	<i>Engina turbinella</i> (Kiener, 1836)	Morton et al. (1998). Misidentification of <i>Polia dorbignyi</i> (Payraudeau, 1826) (see Ávila et al., 2000b).
	<i>Pisania striata</i> (Gmelin, 1791)	MacAndrew (1857) as <i>Pisania maculosa</i> Lamarck. Dubious record (see Ávila et al., 1998).
NASSARIIDAE	<i>Nassarius</i> cf. <i>ovoideus</i> (Locard, 1886)	Ávila et al. (2000a). Misidentification of <i>Nassarius cuvierii</i> (Payraudeau, 1826).
MURICIDAE	<i>Ocenebrina edwardsii</i> (Payraudeau, 1826)	Ávila et al. (1998). Misidentification of <i>Ocenebra chavesi</i> Houart, 1996.
	<i>Trophonopsis muricata</i> (Montagu, 1803)	Poppe & Goto (1991) as <i>Trophon muricatus</i> (Montagu, 1803). Misidentification of <i>Trophonopsis barvicensis</i> (Johnston, 1825).
COSTELLARIIDAE	<i>Vexillum zebrinum</i> (d'Orbigny, 1840)	MacAndrew (1857) as <i>Mitra zebrina</i> d'Orbigny. Dubious record (see Ávila et al., 1998).
MITRIDAE	<i>Mitra cornicula</i> (Linnaeus, 1758)	Simroth (1888) as <i>Mitra corniculum</i> Linnaeus. Misidentification of <i>Mitra cornea</i> Lamarck, 1811 (see Ávila et al., 2000b).
MANGELIIDAE	<i>Bela menckhorsti</i> van Aartsen, 1988	Dautzenberg (1889) as <i>Raphitoma turgidum</i> Forbes. Dubious record. Probably misidentified, since it was only recorded by Dautzenberg (1889) and was not found in the DBUA marine mollusc collection.
	<i>Trophonopsis muricata</i> (Montagu, 1803)	Poppe & Goto (1991) as <i>Trophon muricatus</i> (Montagu, 1803). Misidentification of <i>Trophonopsis barvicensis</i> (Johnston, 1825).

FAMILY	SPECIES	FIRST RECORD AND REMARKS
COSTELLARIIDAE	<i>Vexillum zebrinum</i> (d'Orbigny, 1840)	MacAndrew (1857) as <i>Mitra zebrina</i> d'Orbigny. Dubious record (see Ávila et al., 1998).
MITRIDAE	<i>Mitra cornicula</i> (Linnaeus, 1758)	Simroth (1888) as <i>Mitra corniculum</i> Linnaeus. Misidentification of <i>Mitra cornea</i> Lamarck, 1811 (see Ávila et al., 2000b).
MANGELIIDAE	<i>Bela menkhorsti</i> van Aartsen, 1988	Dautzenberg (1889) as <i>Raphitoma turgidum</i> Forbes. Dubious record. Probably misidentified, since it was only recorded by Dautzenberg (1889) and was not found in the DBUA marine mollusc collection.
	<i>Bela zonata</i> (Locard, 1892)	Ávila et al. (2000b), as <i>Bela laevigata</i> (Philippi, 1836). Misidentification of <i>B. nebula</i> (Montagu, 1803).
ACTEONIDAE	<i>Acteon incisus</i> Dall, 1881	Dautzenberg & Fischer (1896). Dubious record. Probably misidentified, since it was only recorded by Dautzenberg & Fischer (1896) and was not found in the DBUA marine mollusc collection.
RINGICULIDAE	<i>Ringicula semistriata</i> d'Orbigny, 1842	Nordsieck (1972). Dubious record. Nordsieck (1972) merely speculates about the presence of this species in the Azores. It was not found in the DBUA marine mollusc collection.
RISSOELLIDAE	<i>Rissoella globularis</i> (Forbes et Hanley, 1853)	Segers (2002). Misidentification of <i>Rissoella contrerasi</i> Rolán et Hernández, 2004.
BULLIDAE	<i>Bulla striata</i> Bruguière, 1792	Drouët (1858). Dubious record (see Malaquias & Reid, 2008).
HAMINOEIDAE	<i>Haminoea hydatis</i> (Linnaeus, 1758)	García-Talavera (1983). Dubious record. Probably misidentified, since it was only recorded by García-Talavera (1983) and was not found in the DBUA marine mollusc collection.
PHILINIDAE	<i>Philine quadrata</i> (S. Wood, 1839)	Watson (1886). Dubious record (see Ávila et al., 1998).
CYLICHNIDAE	<i>Cylichna cylindracea</i> (Pennant, 1777)	Pilsbry (1893). Dubious record (see Ávila et al., 1998).
RETUSIDAE	<i>Retusa umbilicata</i> (Montagu, 1803)	Ávila & Azevedo (1996). Misidentification of <i>Retusa truncatula</i> (Bruguière, 1792).
RUNCINIDAE	<i>Runcina africana</i> Pruvot-Fol, 1953	Malaquias et al. (2009). Misidentification of <i>Runcina coronata</i> (de Quatrefages, 1844).
CHROMODORIDIDAE	<i>Felimida krohni</i> (Vérany, 1846)	Ávila et al. (1998) as <i>Chromodoris krohni</i> (Vérany, 1846). Misidentification of <i>Felimida britoi</i> (Ortea et Pérez, 1983).
DISCODORIDIDAE	<i>Discodoris</i> cf. <i>millegrana</i> (Alder et Hancock, 1854)	Ávila & Azevedo (1997). Misidentification of <i>Platydoris argo</i> (Linnaeus, 1767) (see Ávila et al., 2000a).
FACELINIDAE	<i>Phidiana lynceus</i> Bergh, 1867	Borges et al. (2010). Dubious record (Manuel António E. Malaquias, pers. comm. 2013).

DISCUSSION

The total number of littoral gastropods now validly reported for the Azores is 281 species, belonging to 178 genera and 94 families. Since the last account by Ávila (2005), who counted 227 littoral gastropods, this new checklist represents an increase of 23.8% (54 species). With 26 species

(9.3%), Rissoidae is the most species-rich littoral gastropod family in the archipelago, followed by Pyramidellidae and Epitoniidae with 16 (5.7%) and 12 species (4.3%), respectively. There is a total of 36 endemic species (12.8%), belonging to 18 families, of which 16 (44.4%) belong to Rissoidae. Three gastropod species (1.1%) are considered as introduced (Cardigos et al., 2006).

The presence of the newly recorded littoral gastropods *Caecum gofasi*, *Cerithiopsis* cf. *nana*, *Curveulima dautzenbergi*, *Liostomia mamoi*, *Mangelia scabrida*, and *Rissoella contrerasi* in the Archipelago of the Azores is not unexpected since these species are known from the northern European coasts, the Mediterranean Sea, northeast Atlantic seamounts, and from other Macaronesian archipelagos. Our findings expand their known geographical distribution in the northeast Atlantic Ocean.

Accurate checklists are of crucial importance for biodiversity, ecology and biogeography studies. All Macaronesian archipelagos have recent checklists on the marine molluscs: Madeira (Segers et al., 2009), Selvagens (Albuquerque et al., 2009), Canaries (Rolán, 2011) and Cape Verde (Rolán, 2005). For the Azores, a checklist of the marine molluscs reporting 236 littoral gastropods was published in a book edited by Borges et al. (2010), intended to cover the terrestrial and marine fauna and flora of the Azores. This comprehensive list was later made available in the web as a species searchable database (Portal da Biodiversidade dos Açores). As stated in the homepage, the aim of this “Azorean Biodiversity Portal” is to provide “a unique resource for fundamental research in systematics, biodiversity, education and conservation management in the Azores (Portugal). It also provides an original platform for biogeographical and macroecological research on islands.”

More recently, an updated version of this database was made available as well, and called “ATLANTIS” (Base de Dados da Biodiversidade dos Açores). At the time of our consultancy, both databases were online, yielding quite different results. Both data bases were accessed and all marine gastropods reported for the Azores by the “Azorean Biodiversity Portal” and the “ATLANTIS” databases were downloaded. Deep-water and pelagic species were excluded from the following analysis.

From a total of 417 littoral gastropod species reported by the “Azorean Biodiversity Portal”, 153 species proved to be wrong citations, as they were either dubious records (mostly misidentifications) or outdated synonymies already cited (e.g., *Thais haemastoma* and *Stramonita haemastoma*). From a total of 270 records provided by the “ATLANTIS” database, 49 species were wrong citations. As both

databases yielded a significant amount of wrong citations, in our opinion, they must be used with precaution and, in their present status, clearly do not meet the stated aims.

Despite more than 150 years of scientific research, our knowledge on the diversity of the Azorean littoral gastropods seems to be still incomplete. In fact, the scientific campaigns made in recent years have resulted in new records or species for the region. A clear example of this is the continuing increase in new records of opisthobranch species (Malaquias et al., 2009; Malaquias et al., 2011; Pedro et al., 2011; Cordeiro et al., 2013; Malaquias et al., 2014) or the rissoid and *Parviturbo* species recently described (Cordeiro & Ávila, 2015; Rubio et al., 2015), which demonstrates the need for further biodiversity surveys.

In our opinion, future fieldwork efforts should be focused on islands poorly studied and geographically closer to the colonization sources (i.e. Santa Maria, Flores and Corvo Islands), in order to enhance the potential discovery of new records or species.

ACKNOWLEDGEMENTS

The authors are grateful to Joop Trausel, Natural History Museum of Rotterdam, for providing the photos of *Curveulima dautzenbergi* and *Mangelia scabrida* included in Figures 5 and 9, respectively. This work was funded by FEDER funds through the Operational Programme for Competitiveness Factors - COMPETE and National Funds through FCT - Fundação para a Ciência e a Tecnologia under the project FCOMP-01-0124-FEDER-037300 (Ref. FCT PEst-C/BIA/UI0609/2013). Ricardo Cordeiro benefited from PhD grant SFRH/BD/60366/2009 funded by FCT. Sérgio Ávila acknowledges his Ciência 2008 research contract funded by FCT.

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