



# Marine Bryozoa of Greece: an annotated checklist

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## Abstract

### Background

Until today, a complete checklist of Bryozoa of the Greek seas had never been published and species records were scattered in several taxonomic and ecological studies. The aim of this paper is to produce a first checklist of marine bryozoan species of Greece, in the framework of the Greek Taxon Information System (GTIS) initiative of the LifeWatchGreece Research Infrastructure (ESFRI), by reviewing the existing literature and following the recent trends in the taxonomy of this group.

### New information

The marine bryozoan fauna of Greece comprises 237 species, classified in 127 genera, 66 families, 3 orders, and 2 classes. The vast majority belongs to the class Gymnolaemata (177 Cheilostomatida and 21 Ctenostomatida), while the remaining 39 species are Stenolaemata (all Cyclostomatida). Among these species, 12 are considered endemic to the eastern Mediterranean, while another 12 species are non-indigenous.

## Keywords

Biodiversity, Aegean Sea, Sea of Crete, Levantine Sea, Ionian Sea, Eastern Mediterranean.

## Introduction

The Mediterranean bryozoan fauna represents about 9.6% of the known global diversity of Bryozoa (Rosso and Di Martino 2016). However, current knowledge on the bryozoan fauna of this basin is highly biased due to differences in research effort for different taxa, marine areas and habitat types. Recent efforts in the south-eastern Mediterranean Sea have significantly increased our knowledge from areas which were previously considered “data-poor” spots for bryozoans, revealing a considerable proportion of non-indigenous taxa (e.g. Harmelin et al. 2016, Sokolover et al. 2016). Furthermore, information on Bryozoa from several Mediterranean areas is fragmented in old publications and grey literature; the collation of updated checklists (e.g. Koçak and Aydın Önen 2014) by experts could contribute to the mapping of diversity for understudied taxa and areas (Bailly et al. 2016, this special collection).

Sporadic records of bryozoans from the Aegean Sea can be found in old taxonomic studies, including the descriptions of the cheilostome species *Calpensia nobilis*, *Hippaliosina depressa* and *Watersipora cucullata* from this marine region (Busk 1854), based on material collected from shallow water macroalgae by E. Forbes. The first studies focusing on Bryozoa of the eastern Mediterranean basin, the Greek seas included, took place in the late 1960s (Harmelin 1969), based on material that was collected with dredges during the oceanographic expedition of the French research vessel “Jean Charcot” (1968). A total of 101 species belonging to all the 3 living bryozoan orders, were found, including several new records for the Mediterranean fauna. Later, the taxonomic study by Hayward (1974) on the cheilostome Bryozoa of Chios Island (north-eastern Aegean) yielded 101 species, including rare records and new species. Sharing only 47 cheilostomes with Harmelin’s list mentioned above, this study increased the eastern Mediterranean bryozoan diversity by 54 species.

More recently, few taxonomic and ecological studies have focused on the bryozoan fauna of Greece (e.g. Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kirtis 1984, Castritsi-Catharios and Kirtis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990), while a considerable number of records has been included in general ecological studies examining a variety of habitats (e.g. Simboura et al. 1995, Conides et al. 1999, Morri et al. 1999, Antoniadou and Chintiroglou 2005, Gerovasileiou et al. 2013, Gerovasileiou et al. 2015). A complete checklist of Bryozoa however had never been published from Greece. The aim of the present study is to give a first annotated checklist of Bryozoa from the Greek seas.

## Materials and methods

The checklist presented in this paper was compiled in the framework of the Greek Taxon Information System (GTIS), an initiative of the LifeWatchGreece Research e-Infrastructure aiming to produce a complete inventory of the known biodiversity of Greece (Bailly et al. 2016, this special collection). As this is the first attempt to compile a checklist of bryozoan diversity of the Greek seas, we performed an exhaustive literature review of bryozoan records. All taxa were cross-checked for synonymies and dubious records against the [World List of Bryozoa](#) (recent and fossil), the [World Register of Marine Species](#) (Bock and Gordon 2016, WoRMS Editorial Board 2016), and the recent update of the Mediterranean bryozoan diversity by Rosso and Di Martino (2016). Taxa identified as cf., as well as those left in open nomenclature, and fossil records were not included in the list. The checklist is annotated with the literature references reporting the presence of each species from Greek waters, as well as with notes on the nomenclature of some taxa. Non-indigenous bryozoans are also marked (NIB). The checklist follows the alphabetical order.

## Checklist of Bryozoa known to occur in the Greek seas

### Class Gymnolaemata Allman, 1856

### Order Cheilostomatida Busk, 1852

### Family Adeonidae Busk, 1884

### Genus *Adeonella* Busk, 1884

### *Adeonella calveti* (Canu & Bassler, 1930)

**Notes:** Gautier 1962

### *Adeonella pallasii* (Heller, 1867)

**Notes:** Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Castritsi-Catharios et al. 1986a, Gantias 1990, Rosso and Novosel 2010, Chimenz Gusso et al. 2014, Gerovasileiou et al. 2015

**Genus *Reptadeonella* Busk, 1884*****Reptadeonella violacea* (Johnston, 1847)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a (as *Reptoporellina*, probably a misspelling), Ganas 1990, Morri et al. 1999, Antoniadou and Chintiroglou 2005

**Family Aeteidae Smitt, 1868****Genus *Aetea* Lamouroux, 1812*****Aetea anguina* (Linnaeus, 1758)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Ganas 1990

***Aetea lepadiformis* Waters, 1906**

**Notes:** Ganas 1990, Morri et al. 1999

***Aetea sica* (Couch, 1844)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Ganas 1989, Ganas 1990, Morri et al. 1999

***Aetea truncata* (Landsborough, 1852)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Ganas 1989, Ganas 1990, Morri et al. 1999

**Family Antroporidae Vigneaux, 1949****Genus *Rosseliana* Jullien, 1888*****Rosseliana rosselii* (Audouin, 1826)**

**Notes:** Harmelin 1969, Ganas 1990

**Family Beaniidae Canu & Bassler, 1927****Genus *Beania* Johnston, 1840*****Beania cylindrica* (Hincks, 1886)**

**Notes:** Harmelin 1969, Gantias 1990, Morri et al. 1999

***Beania hirtissima* (Heller, 1867)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995, Morri et al. 1999

***Beania magellanica* (Busk, 1852)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Gantias 1989, Gantias 1990

***Beania mirabilis* Johnston, 1840**

**Notes:** Hayward 1974, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Family Bitectiporidae MacGillivray, 1895****Genus *Metroperiella* Canu & Bassler, 1917*****Metroperiella lepralioides* (Calvet, 1903)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999

**Genus *Pentapora* Fischer, 1807*****Pentapora fascialis* (Pallas, 1766)**

**Notes:** Gantias 1990, Antoniadou and Chintiroglou 2005, Chimenz Gusso et al. 2014

**Genus *Schizomavella* Canu & Bassler, 1917*****Schizomavella rudis* (Manzoni, 1869)**

**Notes:** In the absence of type material, the validity of *S. rudis* has been questioned by Reverter-Gil et al. (2012). Two new species, *Stephanotheca watersi* Reverter-Gil, Souto

& Fernandez-Pulpeiro, 2012 and *Schizomavella adriatica* Reverter-Gil, Souto, Novosel & Tilbrook, 2016 have been erected to allocate some records from the western Basin and the Adriatic, respectively. Nevertheless, records and material from the Aegean were not considered and hence they are provisionally still reported as *S. rudis* (see also Rosso and Di Martino 2016).

***Schizomavella (Calvetomavella) discoidea* (Busk, 1859)**

**Notes:** Harmelin 1969, Hayward 1974, Morri et al. 1999; the status of these records needs to be checked (see Rosso and Di Martino 2016).

***Schizomavella (Schizomavella) asymetrica* (Calvet, 1927)**

**Nomenclature:**

Synonym valid for *Calyptotheca triarmata* Hayward, 1974 (see Rosso et al. 2010).

**Notes:** Hayward 1974

***Schizomavella (Schizomavella) cornuta* (Heller, 1867)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Ganias 1989, Ganias 1990, Simboura et al. 1995, Morri et al. 1999; Mediterranean colonies recorded as *S. auriculata*, *S. auriculata cuspidata* and *S. cuspidata* possibly belong to this species.

***Schizomavella (Schizomavella) hastata* (Hincks, 1862)**

**Notes:** Morri et al. 1999

***Schizomavella (Schizomavella) linearis* (Hassall, 1841)**

**Notes:** Gautier 1962, Harmelin 1969, Hayward 1974, Castritsi-Catharios et al. 1985a, Ganias 1990

***Schizomavella (Schizomavella) mamillata* (Hincks, 1880)**

**Nomenclature:**

*Schizomavella linearis mamillata*

**Notes:** Gautier 1962, Harmelin 1969, Hayward 1974, Morri et al. 1999

**Family Bryocryptellidae Vigneaux, 1949****Genus *Bryocryptella* Cossmann, 1906*****Bryocryptella tubulata* (Busk, 1861)**

Notes: Harmelin 1969

**Genus *Palmiskenea* Bishop & Hayward, 1989*****Palmiskenea gautieri* Madurell, Zabala, Domínguez-Carrió & Gili, 2013**

Notes: Harmelin 1969, Castritsi-Catharios et al. 1985a (as *Palmiskenea* aff. *aviculifera*), Castritsi-Catharios et al. 1986a. These records have been provisionally reported as *P. gautieri* following Madurell et al. (2013) and Rosso and Di Martino (2016).

***Palmiskenea skenei* (Ellis & Solander, 1786)**

Notes: Gantias 1990

**Genus *Porella* Gray, 1848*****Porella concinna* (Busk, 1854)**

Notes: Harmelin 1969

***Porella minuta* (Norman, 1868)**

Notes: Harmelin 1969

**Family Bugulidae Gray, 1848****Genus *Bicellariella* Levinsen, 1909*****Bicellariella ciliata* (Linnaeus, 1758)**

Notes: Antoniadou and Chintiroglou 2005

**Genus *Bugula* Oken, 1815*****Bugula calathus* (Norman, 1868)**

Notes: Hayward 1974

***Bugula neritina* (Linnaeus, 1758)**

**Distribution:** NIB

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios and Ganias 1989

**Genus *Bugulina* Gray, 1848*****Bugulina avicularia* (Linnaeus, 1758)**

**Notes:** Ganias 1990

***Bugulina fulva* (Ryland, 1960)**

**Distribution:** NIB

**Notes:** Morri et al. 1999

***Bugulina simplex* (Hincks, 1886)**

**Notes:** Castritsi-Catharios and Kiortis 1984

***Bugulina spicata* (Hincks, 1886)**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983

***Bugulina stolonifera* (Ryland, 1960)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Ganias 1990, Antoniadou and Chintiroglou 2005

***Bugulina turbinata* (Alder, 1857)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985

**Genus *Crisularia* Gray, 1848*****Crisularia aperta* (Hincks, 1886)**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983



***Crisularia plumosa* (Pallas, 1766)**

**Distribution:** NIB

**Notes:** Hayward 1974

***Crisularia serrata* (Lamarck, 1816)**

**Distribution:** NIB

**Notes:** Harmelin 1969, Gantias 1990

**Family Calloporidae Norman, 1903****Genus *Alderina* Norman, 1903*****Alderina imbellis* (Hincks, 1860)**

**Notes:** Hayward 1974

**Genus *Aplousina* Canu & Bassler, 1927*****Aplousina capriensis* (Waters, 1898)**

**Notes:** Hayward 1974

**Genus *Callopora* Gray, 1848*****Callopora dumerilii* (Audouin, 1826)**

**Notes:** Hayward 1974, Gantias 1990

***Callopora lineata* (Linnaeus, 1767)**

**Notes:** Harmelin 1969, Gantias 1990

**Genus *Copidozoum* Harmer, 1926*****Copidozoum planum* (Hincks, 1880)**

**Notes:** Hayward 1974, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

***Copidozoum tenuirostre* (Hincks, 1880)**

Notes: Hayward 1974, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Ganas 1989, Ganas 1990

**Genus *Corbulella* Gordon, 1984*****Corbulella maderensis* (Waters, 1898)**

Notes: Hayward 1974, Ganas 1990, Morri et al. 1999

**Genus *Crassimarginatella* Canu, 1900*****Crassimarginatella crassimarginata* (Hincks, 1880)**

Notes: Gautier 1962

***Crassimarginatella solidula* (Hincks, 1860)**

Notes: Ganas 1990

**Genus *Ellisina* Norman, 1903*****Ellisina gautieri* Fernandez Pulpeiro & Reverter Gil, 1993**

Notes: Ganas 1990

**Genus *Parellisina* Osburn, 1940*****Parellisina curvirostris* (Hincks, 1862)**

Notes: Harmelin 1969, Hayward 1974, Ganas 1990

**Genus *Retevirgula* Brown, 1948*****Retevirgula akdenizae* Chimenz, Nicoletti & Lippi Boncambi, 1997**

Notes: Morri et al. 1999

**Family Candidae d'Orbigny, 1851****Genus *Caberea* Lamouroux, 1816*****Caberea boryi* (Audouin, 1826)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999, Simboura et al. 1995

**Genus *Cradoscrupocellaria* Vieira, Spencer Jones & Winston, 2013*****Cradoscrupocellaria bertholletii* (Audouin, 1826)**

**Notes:** Hayward 1974, Gantias 1990

***Cradoscrupocellaria macrorhyncha* (Gautier, 1962)**

**Notes:** Harmelin 1969, Hayward 1974

**Genus *Scrupocaberea* Vieira, Spencer Jones, Winston, Migotto & Marques, 2014*****Scrupocaberea maderensis* (Busk, 1860)**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Genus *Scrupocellaria* Van Beneden, 1845*****Scrupocellaria aegeensis* Harmelin, 1969**

**Notes:** Harmelin 1969, Gantias 1990

***Scrupocellaria delilii* (Audouin, 1826)**

**Notes:** Harmelin 1969, Gantias 1990, Morri et al. 1999

***Scrupocellaria incurvata* Waters, 1897**

**Notes:** Harmelin 1969, Gantias 1990

***Scrupocellaria muricata* (Lamouroux, 1816)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a

***Scrupocellaria scrupea* Busk, 1852**

**Notes:** Gautier 1962, Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Gantias 1990, Simboura et al. 1995, Morri et al. 1999

***Scrupocellaria scruposa* (Linnaeus, 1758)**

**Distribution:** NIB

**Notes:** Hayward 1974, Gantias 1990, Simboura et al. 1995, Morri et al. 1999

**Family Cellariidae Fleming, 1828****Genus *Cellaria* Ellis & Solander, 1786*****Cellaria fistulosa* (Linnaeus, 1758)**

**Notes:** Gantias 1990

***Cellaria normani* (Hastings, 1947)**

**Notes:** Harmelin 1969

***Cellaria salicornioides* Lamouroux, 1816**

**Notes:** Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Gantias 1990

**Family Celleporidae Johnston, 1838****Genus *Buskea* Heller, 1867*****Buskea dichotoma* (Hincks, 1862)**

**Notes:** Gantias 1990

***Buskea nitida* Heller, 1867**

**Notes:** Harmelin 1969

**Genus *Cellepora* Linnaeus, 1767*****Cellepora posidoniae* (Hayward, 1975)**

Notes: Gantias 1990

***Cellepora pumicosa* (Pallas, 1766)**

Notes: Morri et al. 1999

**Genus *Celleporina* Gray, 1848*****Celleporina caminata* (Waters, 1879)**

Notes: Gautier 1962, Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Gantias 1990, Morri et al. 1999

***Celleporina hassallii* (Johnston, 1847)**

Notes: Castritsi-Catharios and Kiortis 1984 (as *Cellepora hassalli*), Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Castritsi-Catharios et al. 1986a, Gantias 1990, Simboura et al. 1995, Morri et al. 1999

***Celleporina lucida* (Hincks, 1880)**

Notes: Morri et al. 1999

***Celleporina tubulosa* (Hincks, 1880)**

Notes: Harmelin 1969, Morri et al. 1999

**Genus *Palmicellaria* Alder, 1864*****Palmicellaria elegans* Alder, 1864**

Notes: Harmelin 1969, Gantias 1990

**Genus *Turbicellepora* Ryland, 1963*****Turbicellepora avicularis* (Hincks, 1860)**

Notes: Gantias 1990

***Turbicellepora camera* Hayward, 1978**

**Notes:** Hayward 1978, Gantias 1990, Morri et al. 1999

***Turbicellepora coronopus* (Wood, 1844)**

**Notes:** Hayward 1974, Gantias 1990, Gerovasileiou et al. 2015

***Turbicellepora crenulata* Hayward, 1978**

**Notes:** Gantias 1990

***Turbicellepora magnicostata* (Barroso, 1919)**

**Notes:** Gantias 1990

**Family Chlioniidae Busk, 1884****Genus *Chlidonia* Lamouroux, 1824*****Chlidonia pyriformis* (Bertoloni, 1810)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Gantias 1990, Morri et al. 1999

**Family Chorizoporidae Vigneaux, 1949****Genus *Chorizopora* Hincks, 1879*****Chorizopora brongniartii* (Audouin, 1826)**

**Notes:** Gautier 1962, Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995, Morri et al. 1999, Antoniadou and Chintiroglou 2005

**Family Colatooeciidae Winston, 2005****Genus *Trematooecia* Osburn, 1940*****Trematooecia ligulata* Ayari & Taylor, 2008**

**Notes:** Harmelin 1969 (as *Cigclisula turrita*)

**Family Crepidacanthidae Levinsen, 1909****Genus *Crepidacantha* Levinsen, 1909*****Crepidacantha poissonii* (Audouin, 1826)**

**Distribution:** NIB

**Notes:** Gantias 1990

**Family Cribrilinidae Hincks, 1879****Genus *Collarina* Jullien, 1886*****Collarina balzaci* (Audouin, 1826)**

**Notes:** Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Genus *Figularia* Jullien, 1886*****Figularia figularis* (Johnston, 1847)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990

**Genus *Puellina* Jullien, 1886*****Puellina (Cribrilaria) innominata* (Couch, 1844)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

***Puellina (Cribrilaria) hincksi* (Friedl, 1917)**

**Notes:** Gautier 1962, Morri et al. 1999

***Puellina (Cribrilaria) radiata* (Moll, 1803)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995, Morri et al. 1999

***Puellina (Cribrilaria) venusta* (Canu & Bassler, 1925)**

**Notes:** Gantias 1990

***Puellina (Glabrilaria) orientalis* Harmelin & Aristegui, 1987**

**Notes:** Morri et al. 1999

***Puellina (Glabrilaria) pedunculata* (Gautier, 1956)**

**Notes:** Harmelin 1969, Hayward 1974

***Puellina (Puellina) gattyae* (Landsborough, 1852)**

**Notes:** Gautier 1962, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

***Puellina (Puellina) setosa* (Waters, 1899)**

**Notes:** Harmelin 1969, Gantias 1990, Morri et al. 1999

**Family Cryptosulidae Vigneaux, 1949****Genus *Cryptosula* Canu & Bassler, 1925*****Cryptosula pallasiana* (Moll, 1803)**

**Notes:** Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Gantias 1990, Antoniadou and Chintiroglou 2005



**Family Electridae d'Orbigny, 1851****Genus *Conopeum* Gray, 1848*****Conopeum seurati* (Canu, 1928)**

Notes: Gantias 1990

**Genus *Electra* Lamouroux, 1816*****Electra pilosa* (Linnaeus, 1767)**

Notes: Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Antoniadou and Chintiroglou 2005

***Electra posidoniae* Gautier, 1954**

Notes: Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Family Epistomiidae Gregory, 1893****Genus *Synnotum* Pieper, 1881*****Synnotum aegyptiacum* (Audouin, 1826)**

Notes: Harmelin 1969, Hayward 1974, Gantias 1990

**Family Escharinidae Tilbrook, 2006****Genus *Escharina* Milne Edwards, 1836*****Escharina dutertrei* subsp. *protecta* Zabala, Maluquer & Harmelin, 1993**

Notes: Harmelin 1969, Hayward 1974, Morri et al. 1999

***Escharina johnstoni* (Quelch, 1884)**

Notes: Gantias 1990

***Escharina vulgaris* (Moll, 1803)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios et al. 1986a (as *Schizoporella vulgaris*), Castritsi-Catharios et al. 1986b (as *S. vulgaris*), Gantias 1990, Morri et al. 1999

**Genus *Herentia* Gray, 1848*****Herentia hyndmanni* (Johnston, 1847)**

**Notes:** Harmelin 1969, Morri et al. 1999

**Genus *Hippomenella* Canu & Bassler, 1917*****Hippomenella mucronelliformis* (Waters, 1899)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990

**Genus *Therenia* David & Pouyet, 1978*****Therenia rosei* Berning, Tilbrook & Rosso, 2008**

**Notes:** Hayward 1974 (as *Escharina porosa*), Gantias 1990 (as *E. porosa*), Berning et al. 2008

**Family Exechonellidae Harmer, 1957****Genus *Anarthropora* Smitt, 1868*****Anarthropora monodon* (Busk, 1860)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999

**Genus *Exechonella* Duvergier, 1924*****Exechonella antillea* (Osburn, 1927)**

**Distribution:** NIB

**Notes:** Hayward 1974

**Family Exochellidae Bassler, 1935****Genus *Escharoides* Milne Edwards, 1836*****Escharoides coccinea* (Abildgaard, 1806)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984 (as *Cellepora coccinea*), Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Ganias 1989, Ganias 1990, Morri et al. 1999, Antoniadou and Chintiroglou 2005

**Family Flustridae Fleming, 1828****Genus *Chartella* Gray, 1848*****Chartella papyrea* (Pallas, 1766)**

**Notes:** Hayward 1974

**Genus *Gregarinidra* Barroso, 1949*****Gregarinidra gregaria* (Heller, 1867)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Kiortis 1984

**Genus *Hincksina* Norman, 1903*****Hincksina flustroides* (Hincks, 1877)**

**Notes:** Hayward 1974, Ganias 1990, Morri et al. 1999

**Family Haplopomidae Gordon in De Blauwe, 2009****Genus *Haplopoma* Levinsen, 1909*****Haplopoma impressum* (Audouin, 1826)**

**Notes:** Harmelin 1969, Hayward 1974, Ganias 1990, Morri et al. 1999

**Family Hippaliosinidae Winston, 2005****Genus *Hippaliosina* Canu, 1919*****Hippaliosina depressa* (Busk, 1854)**

**Notes:** Busk 1854, Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999, Gerovasileiou et al. 2013, Gerovasileiou et al. 2015

**Family Hippopodinidae Levinsen, 1909****Genus *Hippopodina* Levinsen, 1909*****Hippopodina ambita* (Hayward, 1974)**

**Notes:** Harmelin 1969 (as *Cosciniopsis* sp.), Hayward 1974, Gantias 1990

***Hippopodina feegeensis* (Busk, 1884)**

**Distribution:** NIB

**Notes:** Morri et al. 1999

**Family Hippoporidridae Vigneaux, 1949****Genus *Hagiosynodos* Bishop & Hayward, 1989*****Hagiosynodos latus* (Busk, 1856)**

**Notes:** Hayward 1974, Gantias 1990, Morri et al. 1999

**Genus *Hippoporidra* Canu & Bassler, 1927*****Hippoporidra picardi* Gautier, 1962**

**Notes:** Gautier 1962, Morri et al. 1999

**Family Hippothoidae Busk, 1859****Genus *Hippothoa* Lamouroux, 1821*****Hippothoa flagellum* Manzoni, 1870**

Notes: Gantias 1990

**Family Lacernidae Jullien, 1888****Genus *Arthropoma* Levinsen, 1909*****Arthropoma ceciliae* (Audouin, 1826)**

Notes: Hayward 1974, Gantias 1990

**Family Lanceoporidae Harmer, 1957****Genus *Calyptotheca* Harmer, 1957*****Calyptotheca rugosa* Hayward, 1974**

Notes: Hayward 1974, Gantias 1990

**Family Margarettidae Harmer, 1957****Genus *Margaretta* Gray, 1843*****Margaretta cereoides* (Ellis & Solander, 1786)**

Notes: Harmelin 1969, Hayward 1974, Castritsi-Catharios et al. 1985a, Gantias 1990

**Family Microporellidae Hincks, 1879****Genus *Diporula* Hincks, 1879*****Diporula verrucosa* (Peach, 1868)**

Notes: Harmelin 1969, Gantias 1990

**Genus *Fenestulina* Jullien, 1888*****Fenestulina malusii* (Audouin, 1826)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

**Genus *Microporella* Hincks, 1877*****Microporella coronata* (Audouin, 1826)**

**Distribution:** NIB

**Notes:** Harmelin et al. (2011) suggested that specimens from the Aegean Sea reported as *Microporella orientalis* could belong to *M. coronata* (followed by Rosso and Di Martino 2016). Recorded by Hayward 1974, Morri et al. 1999.

***Microporella ciliata* (Pallas, 1766)**

**Notes:** This taxon corresponds to a complex of species (Rosso et al. 2010, Rosso and Di Martino 2016). Recorded by Harmelin 1969, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1986a, Gantias 1990, Antoniadou and Chintiroglou 2005.

***Microporella marsupiata* (Busk, 1860)**

**Notes:** Hayward 1974

**Family Microporidae Gray, 1848****Genus *Calpensia* Jullien, 1888*****Calpensia nobilis* (Esper, 1796)**

**Notes:** Busk 1854, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

**Genus *Coronellina* Prenant & Bobin, 1966*****Coronellina fagei* (Gautier, 1962)**

**Notes:** Harmelin 1969, Hayward 1974

**Genus *Micropora* Gray, 1848*****Micropora coriacea* (Johnston, 1847)**

Notes: Hayward 1974, Gantias 1990

**Genus *Mollia* Lamouroux, 1821*****Mollia multijuncta* (Waters, 1879)**

Notes: Hayward 1974, Morri et al. 1999

***Mollia patellaria* (Moll, 1803)**

Notes: Gautier 1962, Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999

**Family Monoporellidae Hincks, 1882****Genus *Monoporella* Hincks, 1881*****Monoporella bouchardii* (Audouin, 1826)**

Notes: Mediterranean specimens of *Monoporella nodulifera* and *M. fimbriata carinifera* actually belong to this species, as suggested by Harmelin (2014a) and followed by Rosso and Di Martino (2016). Recorded by Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999.

**Family Myriaporidae Gray, 1841****Genus *Myriapora* de Blainville, 1830*****Myriapora truncata* (Pallas, 1766)**

Notes: Harmelin 1969, Hayward 1974, Morri et al. 1999, Gerovasileiou et al. 2015

**Family Onychocellidae Jullien, 1882****Genus *Onychocella* Jullien, 1882*****Onychocella angulosa* (Reuss, 1847)**

Notes: Hayward 1974, Gantias 1990

***Onychocella marioni* (Jullien, 1881)**

Notes: Harmelin 1969, Morri et al. 1999, Gerovasileiou et al. 2015

***Onychocella vibraculifera* Neviani, 1895**

Notes: Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Gantias 1990

**Genus *Smittipora* Jullien, 1882*****Smittipora disjuncta* (Canu & Bassler, 1930)****Nomenclature:**

*Smittipora* is a synonym of *Rectonychocella* (see Rosso and Di Martino 2016).

Notes: Harmelin 1969, Hayward 1974, Gantias 1990

**Family Phidoloporidae Gabb & Horn, 1862****Genus *Dentiporella* Barroso, 1926*****Dentiporella sardonica* (Waters, 1879)**

Notes: Gautier 1962, Harmelin 1969

**Genus *Plesiocleidochasma* Soule, Soule & Chaney, 1991*****Plesiocleidochasma mediterraneum* Chimenz-Gusso & Soule, 2003**

Notes: Harmelin 1969 (as *Cleidochasma* sp.), Hayward 1974 (as *Cleidochasma porcellanum*)

**Genus *Reteporella* Busk, 1884*****Reteporella complanata* (Waters, 1894)**

Notes: Gantias 1990

***Reteporella couchii* (Hincks, 1878)**

Notes: Harmelin 1969, Gantias 1990



***Reteporella grimaldii* (Jullien & Calvet, 1903)****Nomenclature:**

Synonym valid for *R. septentrionalis* (see Rosso et al. 2010).

**Notes:** Hayward 1974, Gantias 1990, Morri et al. 1999, Antoniadou and Chintiroglou 2005, Chimenz Gusso et al. 2014

***Reteporella mediterranea* (Hass, 1948)**

**Notes:** Hayward 1974, Gantias 1990

**Genus *Reteporellina* Harmer, 1933*****Reteporellina delicatula* Hayward, 1974**

**Notes:** Hayward 1974, Harmelin 1976, Gantias 1990

**Genus *Rhynchozoon* Hincks, 1895*****Rhynchozoon bispinosum* (Johnston, 1847)**

**Notes:** Hayward 1974, Gantias 1990

***Rhynchozoon neapolitanum* Gautier, 1962**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990, Morri et al. 1999, Gerovasileiou et al. 2015

***Rhynchozoon pseudodigitatum* Zabala & Maluquer, 1988**

**Notes:** Morri et al. 1999

***Rhynchozoon* sp. 1 sensu Hayward, 1974**

**Notes:** Hayward 1974

**Genus *Schizoretepora* Gregory, 1893*****Schizoretepora imperati* (Busk, 1884)**

**Notes:** Chimenz Gusso et al. 2014

***Schizoretepora serratimargo* (Hincks, 1886)**

Notes: Gautier 1962, Harmelin 1969, Gantias 1990

***Schizoretepora solanderia* (Risso, 1826)**

Notes: Harmelin 1969, Gantias 1990

**Genus *Schizotheca* Hincks, 1877*****Schizotheca fissa* (Busk, 1856)**

Notes: Harmelin 1969, Hayward 1974, Gantias 1990

**Genus *Stephanollona* Duvergier, 1921*****Stephanollona armata* (Hincks, 1861)**

Notes: Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Gantias 1990

**Family Phoceanidae Vigneaux, 1949****Genus *Phoceana* Jullien in Jullien & Calvet, 1903*****Phoceana tubulifera* (Heller, 1867)**

Notes: Harmelin 1969, Hayward 1974, Gantias 1990

**Family Romancheinidae Jullien, 1888****Genus *Escharella* Gray, 1848*****Escharella rylandi* Geraci, 1974**

Notes: Gantias 1990

**Genus *Hemicyclopora* Norman, 1894*****Hemicyclopora multispinata* (Busk, 1861)**

Notes: Gantias 1990, Morri et al. 1999

**Genus *Hippopleurifera* Canu & Bassler, 1925*****Hippopleurifera pulchra* (Manzoni, 1870)**

**Notes:** Harmelin 1969

**Family Savignyellidae Levinsen, 1909****Genus *Savignyella* Levinsen, 1909*****Savignyella lafontii* (Audouin, 1826)**

**Notes:** Gautier 1962, Hayward 1974, Morri et al. 1999

**Family Schizoporellidae Jullien, 1883****Genus *Schizobrachiella* Canu & Bassler, 1920*****Schizobrachiella sanguinea* (Norman, 1868)**

**Notes:** Gautier 1962, Harmelin 1969, Gantias 1990, Morri et al. 1999

**Genus *Schizoporella* Hincks, 1877*****Schizoporella dunkeri* (Reuss, 1848)**

**Notes:** Harmelin 1969, Hayward 1974, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1986a, Morri et al. 1999, Gantias 1990

***Schizoporella errata* (Waters, 1878)**

**Notes:** Hayward 1974, Castritsi-Catharios et al. 1985a, Gantias 1990

***Schizoporella magnifica* Hincks, 1886**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990

***Schizoporella unicornis* (Johnston in Wood, 1844)**

**Notes:** Castritsi-Catharios et al. 1986a, Gantias 1990, Morri et al. 1999, Antoniadou and Chintiroglou 2005

**Family Setosellidae Levinsen, 1909****Genus *Setosella* Hincks, 1877*****Setosella vulnerata* (Busk, 1860)**

**Notes:** Hayward 1974, Gantias 1990

**Family Smittinidae Levinsen, 1909****Genus *Parasmittina* Osburn, 1952*****Parasmittina raigii* (Audouin, 1826)**

**Distribution:** NIB

**Notes:** Gantias 1990

***Parasmittina rouvillei* (Calvet, 1902)**

**Notes:** Harmelin 1969, Hayward 1974, Gantias 1990

**Genus *Prenantia* Gautier, 1962*****Prenantia cheilostoma* (Manzoni, 1869)**

**Notes:** Hayward 1974, Gantias 1990

***Prenantia inerma* (Calvet, 1906)**

**Notes:** Harmelin 1969

**Genus *Smittina* Norman, 1903*****Smittina cervicornis* (Pallas, 1766)**

**Notes:** Gautier 1962 (as *Porella cervicornis*), Gantias 1990 (as *P. cervicornis*), Morri et al. 1999, Chimenz Gusso et al. 2014

***Smittina colleti* (Jullien & Calvet, 1903)**

**Notes:** Harmelin 1969, Gantias 1990

***Smittina landsborovii* (Johnston, 1847)**

Notes: Gantias 1990, Antoniadou and Chintiroglou 2005

***Smittina remotorostrata* (Canu & Bassler, 1928)**

Notes: Hayward 1974

**Genus *Smittoidea* Osburn, 1952*****Smittoidea marmorea* (Hincks, 1877)**

Notes: Hayward 1974, Gantias 1990

***Smittoidea ophidiana* (Waters, 1879)**

Notes: Harmelin 1969, Hayward 1974

***Smittoidea reticulata* (MacGillivray, 1842)**

Notes: Gautier 1962, Morri et al. 1999, Antoniadou and Chintiroglou 2005

**Family Tessaradomidae Jullien, 1903****Genus *Tessaradoma* Norman, 1869*****Tessaradoma boreale* (Busk, 1860)**

Notes: Gantias 1990

**Family Trypostegidae Gordon, Tilbrook & Winston, 2005****Genus *Trypostega* Levinsen, 1909*****Trypostega venusta* (Norman, 1864)**

Notes: Gantias 1990

**Family Umbonulidae Canu, 1904****Genus *Umbonula* Hincks, 1880*****Umbonula ovicellata* Hastings, 1944**

**Notes:** Hayward 1974, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Gantias 1990, Morri et al. 1999

**Family Watersiporidae Vigneaux, 1949****Genus *Watersipora* Neviani, 1896*****Watersipora complanata* (Norman, 1864)**

**Notes:** Gantias 1990

***Watersipora cucullata* (Busk, 1854)**

**Notes:** Busk 1854, Hayward 1974, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990. Records of *Watersipora subovoidea* (d'Orbigny, 1852) probably belong to *W. cucullata*.

**Order Ctenostomatida Busk, 1852****Family Alcyonidiidae Johnston, 1838****Genus *Alcyonidium* Lamouroux, 1813*****Alcyonidium cellarioides* (Calvet, 1900)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985

***Alcyonidium duplex* Prouho, 1892**

**Notes:** Gantias 1990

***Alcyonidium polyoum* (Hassall, 1841)**

**Notes:** Gantias 1990

**Family Buskiidae Hincks, 1880****Genus *Buskia* Alder, 1857*****Buskia nitens* Alder, 1857**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Ganias 1990

**Family Farrellidae d'Hondt, 1983****Genus *Farrella* Ehrenberg, 1838*****Farrella repens* (Farre, 1837)**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b

**Family Mimosellidae Hincks, 1877****Genus *Bantariella* Jebram, 1973*****Bantariella verticillata* (Heller, 1867)**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Ganias 1989, Ganias 1990, Morri et al. 1999

**Genus *Mimosella* Hincks, 1851*****Mimosella gracilis* Hincks, 1851**

**Notes:** Harmelin 1969, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Ganias 1989, Ganias 1990, Morri et al. 1999

**Family Nolellidae Harmer, 1915****Genus *Nolella* Gosse, 1851*****Nolella dilatata* (Hincks, 1860)**

**Notes:** Harmelin 1969, Ganas 1990

***Nolella stipata* Gosse, 1855**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Ganas 1989, Ganas 1990, Morri et al. 1999

**Family Pherusellidae Osburn & Soule, 1953****Genus *Pherusella* Soule, 1951*****Pherusella tubulosa* (Ellis & Solander, 1786)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Ganas 1990, Morri et al. 1999

**Family Vesiculariidae Hincks, 1880****Genus *Amathia* Lamouroux, 1812*****Amathia gracilis* (Leidy, 1855)**

**Notes:** Ganas 1990, Morri et al. 1999

***Amathia gracillima* (Hincks, 1877)**

**Distribution:** NIB

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Ganas 1990

***Amathia imbricata* (Adams, 1798)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Ganas 1989, Ganas 1990



***Amathia lendigera* (Linnaeus, 1758)**

**Notes:** Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

***Amathia pruvoti* Calvet, 1911**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

***Amathia pustulosa* (Ellis & Solander, 1786)**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b

***Amathia semiconvoluta* Lamouroux, 1824**

**Notes:** Castritsi-Catharios and Gantias 1989, Gantias 1990

***Amathia verticillata* (Delle Chiaje, 1822)**

**Distribution:** NIB

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios and Kiortis 1985, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990, Conides et al. 1999

**Family Victorellidae Hincks, 1880****Genus *Victorella* Saville-Kent, 1870*****Victorella pavida* Saville-Kent, 1870**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b

**Family Walkeriidae Hincks, 1880****Genus *Walkeria* Fleming, 1823*****Walkeria tuberosa* Heller, 1867**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

***Walkeria uva* (Linnaeus, 1758)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Class Stenolaemata Borg, 1926****Order Cyclostomatida Busk, 1852****Family Annectocymidae Hayward & Ryland, 1985****Genus *Annectocyma* Hayward & Ryland, 1985*****Annectocyma arcuata* (Harmelin, 1976)**

**Notes:** Gantias 1990

***Annectocyma major* (Johnston, 1847)**

**Notes:** Castritsi-Catharios et al. 1985a (as *Stomatopora major*), Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989 (as *S. major*), Gantias 1990, Simboura et al. 1995, Morri et al. 1999

***Annectocyma tubulosa* (Busk, 1875)**

**Notes:** Gantias 1990

**Genus *Entalophoroecia* Harmelin, 1976*****Entalophoroecia deflexa* (Couch, 1844)**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

***Entalophoroecia gracilis* Harmelin, 1976**

**Notes:** Gantias 1990

***Entalophoroecia robusta* Harmelin, 1976**

**Notes:** Gantias 1990

**Family Crisiidae Johnston, 1838****Genus *Crisia* Lamouroux, 1812*****Crisia denticulata* (Lamarck, 1816)**

**Notes:** Gantias 1990

***Crisia eburnea* (Linnaeus, 1758)**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

***Crisia elongata* Milne Edwards, 1838**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b

***Crisia fistulosa* (Heller, 1867)**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1986a, Gantias 1990

***Crisia pyrula* Harmelin, 1990**

**Notes:** Harmelin 1969 (as *Crisia* sp. II), Gantias 1990

***Crisia ramosa* Harmer, 1891**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995

***Crisia sigmoidea* Waters, 1916**

**Notes:** Harmelin 1969, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995

**Family Entalophoridae Reuss, 1869****Genus *Mecynoecia* Canu, 1918*****Mecynoecia delicatula* (Busk, 1875)**

**Notes:** Gantias 1990

**Family Frondiporidae Busk, 1875****Genus *Frondipora* Link, 1807*****Frondipora verrucosa* (Lamouroux, 1821)**

**Notes:** Harmelin 1969 (as *Frondipora gracilis*), Gantias 1990, Gerovasileiou et al. 2015

**Family Horneridae Smitt, 1867****Genus *Hornera* Lamouroux, 1821*****Hornera frondiculata* Lamouroux, 1821**

**Notes:** Harmelin 1969, Gantias 1990, Simboura et al. 1995

**Family Lichenoporidae Smitt, 1867****Genus *Disporella* Gray, 1848*****Disporella hispida* (Fleming, 1828)**

**Notes:** Rosso and Di Martino (2016) maintained this taxon but it is possible that these records actually belong to a different species, *D. alboranensis* Alvarez, 1992; all records need to be validated. Recorded by Harmelin 1969, Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989 (as *Lichenopora hispida*), Gantias 1990, Simboura et al. 1995, Morri et al. 1999.

**Genus *Patinella* Gray, 1848*****Patinella radiata* (Audouin, 1826)**

**Notes:** Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990, Simboura et al. 1995, Morri et al. 1999, Antoniadou and Chintiroglou 2005

***Patinella verrucaria* (Linnaeus, 1758)**

**Notes:** Castritsi-Catharios et al. 1986a, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Family Oncousoeciidae Canu, 1918****Genus '*Microecia*' Canu, 1918****'*Microecia*' *occulta* (Harmelin, 1976)****Nomenclature:**

See Rosso et al. (2010)

**Notes:** Gantias 1990

**Family Plagioeciidae Canu, 1918****Genus *Cardioecia* Canu & Bassler, 1922*****Cardioecia watersi* (O'Donoghue & de Watteville, 1939)**

**Notes:** Harmelin 1969 (as *Entalophora rugosa*), Harmelin 1976, Castritsi-Catharios et al. 1986b, Castritsi-Catharios and Gantias 1989, Gantias 1990

**Genus *Desmeplagioecia* Canu & Bassler, 1920*****Desmeplagioecia amphorae* Harmelin, 1976**

**Notes:** Gantias 1990

***Desmeplagioecia violacea* Harmelin, 1976**

**Notes:** Gantias 1990

**Genus *Diplosolen* Canu, 1918*****Diplosolen obelius* (Johnston, 1838)****Nomenclature:**

The use of the name *D. obelius* for this species has been proposed by Rosso and Di Martino (2016) in spite of '*obelium*' and '*obelina*', used inconsistently in the literature to ensure accordance to the gender of the genus name.

**Notes:** Harmelin 1969, Gantias 1990, Morri et al. 1999

**Genus *Plagioecia* Canu, 1918*****Plagioecia dorsalis* (Waters, 1879)**

Notes: Gantias 1990

***Plagioecia inoedificata* (Jullien, 1882)**

Notes: Gantias 1990

***Plagioecia patina* (Lamarck, 1816)**

Notes: Harmelin 1969, Gantias 1990, Antoniadou and Chintiroglou 2005

***Plagioecia platydiscus* Harmelin, 1976**

Notes: Gantias 1990

***Plagioecia sarniensis* (Norman, 1864)**

Notes: Harmelin 1976, Gantias 1990

**Family Terviidae Canu & Bassler, 1920****Genus *Tervia* Jullien, 1883*****Tervia irregularis* (Meneghini, 1844)**

Notes: Gantias 1990

**Family Tubuliporidae Johnston, 1838****Genus *Harmelinopora* Brood, 1976*****Harmelinopora indistincta* (Canu and Bassler, 1929)****Nomenclature:**

See Rosso and Di Martino (2016) and references therein

Notes: Castritsi-Catharios and Marcopoulou-Diacantoni 1983, Gantias 1990

**Genus *Idmidronea* Canu & Bassler, 1920*****Idmidronea coerulea* Harmelin, 1976****Nomenclature:**

See Rosso et al. (2010) and references therein

**Notes:** Gantias 1990

***Idmidronea triforis* (Heller, 1867)****Nomenclature:**

See Rosso et al. (2010) and references therein

**Notes:** Harmelin 1969 (as *Idmidronea atlantica*), Gantias 1990 (as *I. atlantica*)

**Genus *Platonea* Canu & Bassler, 1920*****Platonea stoechas* Harmelin, 1976**

**Notes:** Harmelin 1976, Gantias 1990, Morri et al. 1999

**Genus *Tubulipora* Lamarck, 1816*****Tubulipora hemiphragmata* Harmelin, 1976**

**Notes:** Castritsi-Catharios and Kiortis 1984, Castritsi-Catharios et al. 1985a, Castritsi-Catharios et al. 1985b, Castritsi-Catharios et al. 1986a, Castritsi-Catharios et al. 1986b, Gantias 1990

***Tubulipora liliacea* (Pallas, 1766)**

**Notes:** Castritsi-Catharios et al. 1985a, Gantias 1990

***Tubulipora notomale* (Busk, 1875)**

**Notes:** Gantias 1990

***Tubulipora plumosa* Thompson in Harmer, 1898**

**Notes:** Castritsi-Catharios and Gantias 1989, Gantias 1990, Morri et al. 1999

## ***Tubulipora ziczac* Harmelin, 1976**

**Notes:** Gantias 1990

### **Analysis**

The bryozoan fauna of the Greek seas consists of 237 species, classified into 127 genera, 66 families, 3 orders, and 2 classes (Suppl. material 1). The vast majority belongs to the class Gymnolaemata, comprising 198 species (177 Cheilostomatida and 21 Ctenostomatida) and the remaining 39 species are Stenolaemata (all Cyclostomatida). The families with the highest number of species belong to Cheilostomatida, and are Phidoloporidae (16 species), Celleporidae (14 spp.), Bugulidae (12 spp.), Calloporidae (12 spp.), Smittinidae (11 spp.), Candidae (10 spp.), and Cribrilinidae (10 spp.). These families are the most speciose in the Mediterranean Sea as well (Rosso and Di Martino 2016). All other families include less than 10 species each.

All species included in the checklist are recognized in the World List of Bryozoa and the World Register of Marine Species, except for three of them. These are: *Idmidronea triforis* (Heller, 1967) and *I. coerulea* Harmelin, 1976, allocated within the genus *Idmidronea* Canu and Bassler, 1920 and not *Exidmonea* David, Mongereau and Pouyet, 1972; '*Microecia*' *occulta* (Harmelin, 1976), provisionally left in its former allocation because the characters of the species differ from those of the genus *Oncousoecia* Canu, 1918 that has been suggested for its allocation (although *Microecia* Canu, 1918 is recognized as a synonym of *Plagioecia* Canu, 1918). The taxon *Rhynchozoon* sp. 1 sensu Hayward, 1974 described from Chios Island, was retained in the checklist following extensive lists by Zabala and Maluquer 1988, Rosso et al. 2010, Rosso and Di Martino 2016 and taxonomic papers with description and illustrations of material from Tyrrhenian and Adriatic localities (Chimenz Gusso et al. 2014).

A number of taxa were omitted from the present checklist (Table 1) for different reasons: (1) taxa now recognized as species complexes and considered absent from the Mediterranean; further examination of specimens is needed to ascertain their correct identification; (2) species whose currently accepted geographic distribution does not include the Mediterranean Sea; the examination of the material with the Scanning Electron Microscope could possibly raise the number of non-indigenous species in the Mediterranean basin; (3) species known exclusively as fossils from Tertiary sediments of Europe, whose persistence in the Mediterranean Sea throughout the Messinian Salinity Crisis needs to be ascertained.



Table 1.

Questionable taxa reported from Greece not included in the present checklist.

Species and authority as given in the source	First report from Greece	Remarks
<i>Adeonella polystomella</i> (Reuss, 1847)	Harmelin (1969)	Omitted following Rosso and Novosel (2010).
<i>Cribrilina annulata</i> (Fabricius, 1780)	Castritsi-Catharios and Kioriti (1984)	Questionable (see Rosso and Di Martino 2016).
<i>Cribrilina punctata</i> (Hassall, 1841)	Castritsi-Catharios and Marcopoulou-Diacantoni (1983)	Possibly confused with <i>Collarina balzaci</i> (see Rosso and Di Martino 2016).
<i>Escharina porosa</i> (Smitt)	Hayward (1974)	Removed after the splitting of a previous complex of species (see Berning et al. 2008). Examination of material is needed.
<i>Hippodiplosia delicatula</i> Manzoni	Castritsi-Catharios et al. (1986)	Possibly an exclusively fossil species.
<i>Microecia suborbicularis</i> (Hincks)	Castritsi-Catharios et al. (1986)	The material for this species needs further examination (see Rosso et al. 2010).
<i>Monoporella fimbriata carinifera</i> Canu & Bassler, 1929 and <i>M. nodulifera</i> (Hincks)	Harmelin (1969), Hayward (1974)	Replaced by <i>M. bouchardii</i> following Harmelin (2014a).
<i>Parasmittina nitida</i> Verrill	Castritsi-Catharios et al. (1986)	Species restricted to the SW Atlantic (Winston and Maturo 2009).
<i>Pentapora foliacea</i>	Hayward (1974)	Species restricted to the North Atlantic (see Lombardi et al. 2010 and Rosso et al. 2010).
? <i>Rhyncozoon lobulatum</i> (Waters, 1879)	Harmelin (1969)	This species name is likely to refer to an aged portion of <i>R. digitatum</i> (see Zabala and Maluquer 1988).
<i>Schizomavella gardensis</i>	Castritsi-Catharios et al. (1986)	A fossil species described from the Burdigalian of France.
<i>Scrupocellaria reptans</i>	Hayward (1974)	Species restricted to the British Isles (see Rosso and Di Martino 2016 and references therein). All records from the Mediterranean (except for specimens from Alexandria attributed to <i>C. aegyptiaca</i> ) need to be examined.
<i>Sertella scbuermanni</i> Jullien	Castritsi-Catharios et al. (1986)	This fossil species is reported only from its type locality (Miocene of west Germany).
<i>Tricellaria peachii</i> Osburn	Castritsi-Catharios et al. (1986)	Species restricted to the North Atlantic. Could be misidentified with <i>Tricellaria inopinata</i> .
<i>Tubulipora phalangea</i> (Couch, 1844)	Antoniadou and Chintiroglou (2005)	Species restricted to the Boreo-Arctic Atlantic Ocean (see Rosso and Di Martino 2016).
<i>Turbicellepora armata</i>	Castritsi-Catharios et al. (1985a), Castritsi-Catharios et al. (1985b)	This species is restricted to the North Atlantic.
<i>Turbicellepora redoutei</i> (Audouin, 1826)	Harmelin (1969)	Species seemingly restricted to the Indo-Pacific. It was recorded only once in the Mediterranean.

## Discussion

The bryozoan fauna of the Greek seas makes up 42.7% of the species, 59.9% of the genera and 71% of the families of the Mediterranean bryozoan fauna, specifically 41.7% of the Cheilostomatida, 36.8% of the Ctenostomatida and 52% of the Cyclostomatida species, based on the recent update by Rosso and Di Martino (2016). Despite the small number of sporadically distributed studies on this phylum in Greece, a considerable number of bryozoan species has been reported compared to adjacent eastern Mediterranean countries. A total of 185 species has been recorded from Turkey, 139 of which along the Aegean coasts (Koçak and Aydın Önen 2014) and 93 species from Lebanon (Harmelin et al. 2016), while 60 species were estimated to occur along the Mediterranean coasts of Israel (Sokolover et al. 2016). These numbers confirm the observed impoverishment of the bryozoan fauna from the western to the eastern basin (Harmelin et al. 2016).

Among the species reported from Greece, 12 are considered endemic to the eastern Mediterranean basin; these are the cheilostomes *Adeonella pallasii*, *Calyptotheca rugosa*, *Cellepora posidoniae*, *Hippopodina ambita*, *Hippoporidra picardi*, *Monoporella bouchardii*, *Plesiocleidochasma mediterraneum*, *Reteporellina delicatula*, *Retevirgula akdenizae*, *Smittipora disjuncta*, *Therenia rosei* and *Turbicellepora camera*. Of these, 5 species were first described from the island of Chios based on material collected by Hayward (i.e. *C. rugosa*, *H. ambita*, *R. delicatula*, *T. rosei*, and *T. camera*), *H. picardi* was described from the Gulf of Thessaloniki, while *R. akdenizae* was described from the Turkish coasts of the Aegean Sea. The cheilostome *Hippaliosina depressa*, which was described from the Aegean Sea, is considered more typical of the eastern Mediterranean basin, including the Sicily Strait, the western Ionian and south Adriatic seas (Harmelin et al. 2016 and references therein, AR personal observations). Nevertheless, this species was recorded in a few localities of western Corsica (Calvet 1902, Gautier 1962) and Sardinia (AR and E. Di Martino, personal observations) in the western Mediterranean.

Interestingly, three of the bryozoans recorded from Greece are typical of the North Atlantic (Hayward and Ryland 1998, Hayward and Ryland 1999) and have been rarely reported from the Mediterranean Sea. These are *Alderina imbellis* (Hincks, 1860), also reported from northern Catalonia (Madurell et al. 2013), *Escharina johnstoni* (Quelch, 1884), also reported from the western Ionian Sea (Rosso 1996a, Rosso 1996b, Rosso et al. 2014), and *Anarthropora monodon* (Busk, 1860).

The recent introduction of non-indigenous species, mostly lessepsian migrants, over the last decades, has considerably increased the number of bryozoans occurring in the Mediterranean Sea (Rosso and Di Martino 2016). Studies in the southeastern Mediterranean basin have brought to light a considerable number of NIBs (Harmelin 2014b, Gerovasileiou et al. 2016, Harmelin et al. 2016, Sokolover et al. 2016), mainly originated from the Red Sea/Indo-Pacific Ocean. Until today, 12 NIBs have been reported from the Greek seas, representing 5% of the bryozoan fauna of Greece and 20% of the Mediterranean NIB fauna; these are the ctenostomes *Amathia gracillima* and *A. verticillata* and the cheilostomes *Bugula neritina*, *Bugulina fulva*, *Crepidacantha poissonii*, *Crisularia*

*plumosa*, *C. serrata*, *Exechonella antillea*, *Hippopodina feegeensis*, *Microporella coronata*, *Parasmittina raigii*, and *Scrupocellaria scruposa*.

Bryozoans from the Greek seas were reported from a variety of habitats, including soft sediments, seagrass leaves and rhizomes, macroalgae, coralligenous concretions and, to a smaller extent, from marine caves. Further research on bryozoan diversity in understudied habitats, typically species-rich in bryozoans (e.g. marine caves and coralligenous beds), is expected to increase our knowledge, possibly revealing additional new and non-indigenous species.

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## Supplementary material

### Suppl. material 1: Checklist of Marine Bryozoa of Greece

**Authors:** Vasilis Gerovasileiou, Antonietta Rosso

**Data type:** Taxonomic checklist

**Brief description:** Taxonomic checklist of Bryozoa known to occur in the Greek seas.

**Filename:** GTIS\_Bryozoa\_Greece\_Checklist.xls - [Download file](#) (234.50 kb)