

## POLYCHAETE FAUNA OF THE AEGEAN SEA: INVENTORY AND NEW INFORMATION

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### ABSTRACT

Examination of collections from the Aegean Sea and a review of the literature revealed that 592 polychaete species have been recorded from this area. Five of the species identified are reported for the first time from the Mediterranean and the Black Sea, 38 species are new records for the Eastern Mediterranean and 55 are new elements for the Aegean polychaete fauna. Information on the habitat and the geographic distribution of the species newly reported from the Eastern Mediterranean is given. The checklist of the Aegean Polychaeta is presented. Although being located in the vicinity of the Eastern Mediterranean province and the Black Sea which are characterized as faunistically impoverished areas, the Aegean hosts a rich polychaete fauna, second in order in species diversity after the Western Mediterranean. The latter demonstrates the importance of this area in the understanding the patterns of polychaete distribution along the Mediterranean and the Black Sea.

Although the history of the Polychaeta started in the Aegean (Aristotle, *Historia Animalium*) there was no inventory of this taxon until recently. Information on polychaetes of the Aegean Sea was provided by Brullé (1832), Forbes (1842, 1844), Quatrefages (1865) and Marenzeller (1893).

Research on taxonomy and distribution of the polychaete fauna of the Aegean (Arvanitidis, 1994) has revealed that the majority of the hitherto known information on the group derives mainly from ecological and old faunal studies. Indeed, only a limited number of strictly systematic publications referring to the Aegean polychaetes exist (Harmelin 1968, 1969; Bailey, 1969; Dounas and Koukouras, 1989; Knight-Jones et al., 1991; Fitzhugh et al., 1994; Arvanitidis, 1994; Arvanitidis and Koukouras 1995, 1997; Simboura, 1996). Furthermore, it has been shown that a considerable number of species reported, not only from the Aegean, but also from the entire region of the Mediterranean and the Black Sea are either of uncertain status or their presence is doubtful (Arvanitidis and Koukouras, 1996).

The present study is part of a research framework started in 1976, aiming to elucidate the status of the benthic fauna of the Northern Aegean. The objectives of this study are: (1) to provide new information on the biodiversity of polychaetes of the Aegean, and (2) to present for the first time the inventory of the Aegean Polychaeta.

### MATERIALS AND METHODS

Material was collected from 230 stations, in depths between 0 and 1000 m, distributed all over the Northern Aegean except the Turkish coast (Fig. 1). Sampling was carried out by free and scuba diving and by various types of trawls, dredges and grabs. Detailed information on the sampling stations has been given by Voultsiadou-Koukoura (1986), Koukouras et al. (1992) and Vafidis et al. (1997). All specimens are deposited in the Museum of the Department of Zoology, University of Thessaloniki.

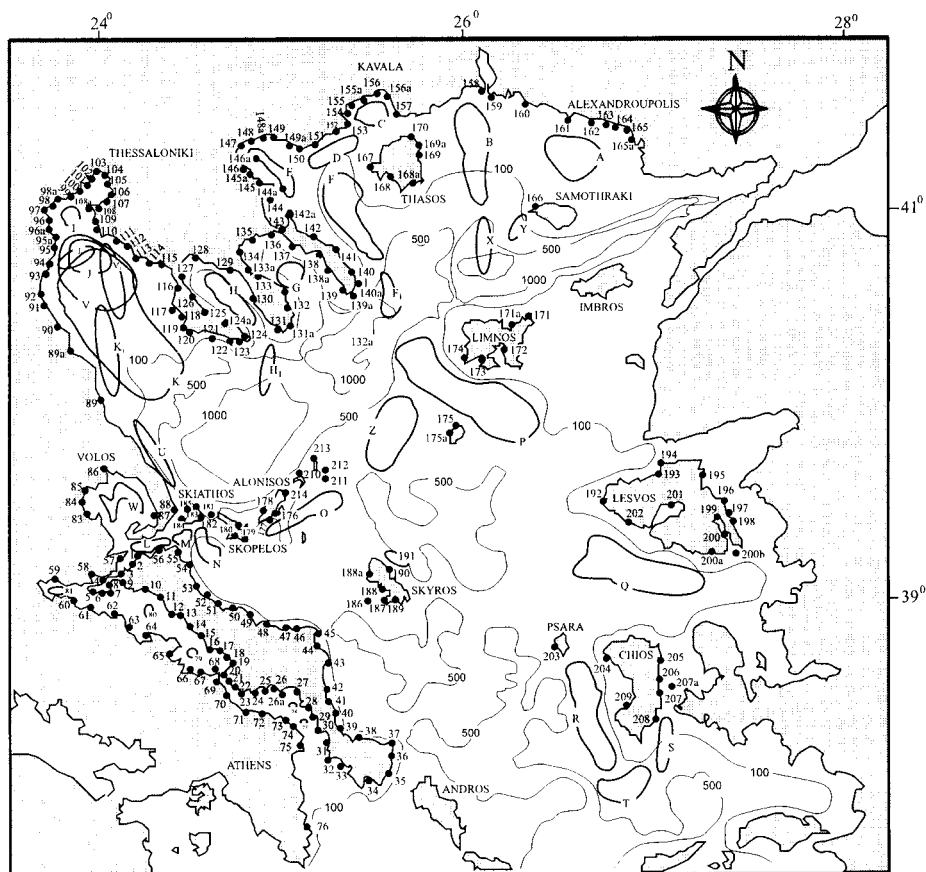


Figure 1. Map of the Aegean Sea, indicating the sampling stations. Stations sampled with dredges or fishing nets marked with bold lines and capital letters; stations sampled with SCUBA diving or grabs marked with full dots.

The main areas of the Mediterranean are adapted from Por and Didman (1989). The area of the Eastern Mediterranean includes the Aegean Sea and the Levantine Basin. Information on the remainder of the Mediterranean areas and the Black Sea comes from the literature through 1997. Species of either uncertain status or doubtful presence in the Aegean were not taken into account in this study.

## RESULTS

A total of 83,791 individuals, belonging to 346 species was examined (Appendix 1). The new records from the Eastern Mediterranean are presented below with comments on their taxonomy, zoogeography and habitat.

### Family Aphroditidae Malmgren 1867

#### *Laetmonice filicornis* Kinberg 1855

*Laetmonice filicornis*, Fauvel, 1923; Hartmann-Schröder, 1971; Chambers, 1985.

*Material Examined.*—1 ind., sta. F, 100 m, on sandy substrate.

*Distribution.*—Known from the other parts of the Mediterranean (Bellan, 1964a; Campoy, 1982). Cosmopolitan species (Fauvel, 1913; Pettibone, 1963; Fredj, 1974).

#### Family Polynoidae Malmgren 1867

*Malmgreniella andreapolis* (McIntosh, 1874)

*Harmothoe andreapolis*, Tebble and Chambers, 1982

*Malmgreniella andreapolis*, Pettibone, 1993

*Material Examined.*—9 ind., sta. 95a, 107, I, 14–28 m, on soft substrate (from fine sand to clay).

*Distribution.*—This is the first documented record for the Mediterranean waters. Known only from the North Atlantic according to Pettibone (1993).

*Malmgreniella darbouxi* Pettibone 1993

*Material Examined.*—1 ind., sta. I, 26 m, fine mud.

*Distribution.*—Known only from its type-locality (Adriatic Sea, Pettibone, 1993).

#### Family Sigalionidae Malmgren 1867

*Sthenelais ctenolepis* Claparède 1868

*Sthenelais ctenolepis* Claparède, 1868; Fauvel, 1923

*Material Examined.*—9 ind., sta. 101, 102, 109, 7–21 m, coarse sands.

*Distribution.*—An endemic species of the Mediterranean, recorded only from Gulf of Naples (Claparède, 1868), Adriatic Sea (Katzmann, 1972) and Gulf of Taranto (Gherardi and Lepore, 1981).

#### Family Phyllodocidae Williams 1851

*Eteone flava* (Fabricius 1780)

*Eteone flava*, Fauvel, 1923; Hartmann-Schröder, 1971

*Material Examined.*—1 ind., sta. F, 80 m, sandy substrate.

*Distribution.*—Amoureux (1973) reported its presence in the Western Mediterranean without mentioning locality. Widely distributed in the Northern hemisphere (Hartmann-Schröder, 1971).

*Eulalia tripunctata* McIntosh 1874

*Eulalia tripunctata*, Fauvel, 1923; Pleijel, 1993

*Material Examined.*—2 ind., sta. 19, 31, 1–3 m, hard substrate (assemblage of photophilus algae (AP)).

*Distribution.*—Known from the Adriatic Sea (Gambi and Giangrande, 1988), Central Basin (Pleijel, 1993) and from the Western Mediterranean (Bellan, 1964a; Harmelin, 1964). Known also from the Northern Atlantic (Campoy, 1982; Pleijel, 1993).

Family Pilargiidae Saint-Joseph 1899

*Otopsis chardyi* (Katzmann, Laubier and Ramos 1974)

*Otopsis* sp. forse *Otopsis longipes* Katzmann, 1973a

*Otopsis katzmanni*, Ramos, 1973

*Otopsis chardyi* Katzmann, Laubier and Ramos, 1974a

*Material Examined.*—1 ind., sta. H1, 900 m, muddy substrate.

*Distribution.*—Known only from the Adriatic Sea (Katzmann et al., 1974).

*Remarks.*—Katzmann et al. (1974) collected this species from a depth of 70 m (muddy sand). The findings from the Aegean show that *Otopsis chardyi* appears to be eurybenthic (70–900 m).

Family Syllidae Grube 1850

*Amblyosyllis dorsigera* Claparède, 1864

*Pterosyllis dorsigera* Claparède, 1864

*Amblyosyllis dorsigera*, San-Martin, 1984a

*Material Examined.*—1 ind., sta. I, 33 m, muddy substrate.

*Distribution.*—Also known from the Western Mediterranean, Madeira and Galapagos Islands (Campoy, 1982; San-Martin, 1984a).

*Amblyosyllis madeirensis* Langerhans, 1879

*Amblyosyllis madeirensis*, San-Martin, 1984a

*Material Examined.*—3 ind., sta. 66, 6 m, hard substrate (assemblage AP).

*Distribution.*—Also known from the Balearic Islands, Eastern Atlantic and Northern Pacific (San-Martin 1984a, 1990).

*Sphaerosyllis capensis* Day, 1953

*Sphaerosyllis capensis*, Day, 1967; San-Martin, 1984a

*Material Examined.*—3 ind., sta. 106, 7 m, sandy substrate.

*Distribution.*—It has been reported only from the Spanish coasts (San Martin et al., 1981). Known also from the Southern Atlantic, Indian Ocean and Red Sea (Day, 1967; Ben-Eliahu, 1977a).

*Sphaerosyllis thomasi* San Martin, 1984

*Sphaerosyllis thomasi* San Martin, 1984a

*Material Examined.*—2 ind., sta. 102, 7 m, sandy substrate.

*Distribution.*—Known only from the Balearic Islands (San Martin 1984a,b).

*Syllis beneliahui* Campoy and Alquezar, 1982

*Langerhansia beneliahui*, Campoy, 1982

*Syllis beneliahui*, San Martin, 1984a

*Material Examined.*—7 ind., sta. 66, 75, 98a, 1–26 m, soft (silt) and hard substrate (assemblage AP).

*Distribution.*—Known only from the Balearic, Columbretas Islands and the Spanish continental Mediterranean coasts (Campoy, 1982; San Martin, 1984a; Cardel and Gilli, 1988).

*Syllis columbretensis* Campoy, 1982

*Syllis columbretensis* Campoy, 1982; San Martin, 1984a

*Material Examined.*—55 ind., sta. 55, 63, 64, 66, 133a, 144a, G, 1–100 m, soft (sand) and hard substrate (assemblage AP and in the sponges *Agelas oroides* (Schmidt, 1864), *Aplysina aerophoba* Schmidt, 1862, and *Axinella canabina* (Esper, 1794)).

*Distribution.*—Also known from the Columbretas, Balearic Islands, and from the Spanish Mediterranean coasts (Campoy, 1982; Alos, 1984; San-Martin, 1984a).

*Syllis gerlachi* (Hartmann-Schröder, 1960)

*Typosyllis gerlachi* Hartmann-Schöder, 1960

*Syllis gerlachi*, San Martin, 1992

*Material Examined.*—2 ind., sta. 97, 108, 2–5 m, sandy substrate.

*Distribution.*—In the Western Mediterranean, reported only from the Spanish coast (Alos, 1984; San Martin, 1984c). Known also from the Red Sea, and from the Atlantic (Ben-Eliahu, 1977b; Campoy, 1982; San Martin, 1992).

*Langerhansia caeca* Katzmann, 1973

*Langerhansia caeca* Katzmann, 1973b

*Material Examined.*—6 ind., sta. H, 500–1,000 m, silty substrate.

*Distribution.*—Reported from the Adriatic (Katzmann, 1973b), and from Balearic Islands (Sarda, 1991).

The specimens reported under the name *Langerhansia* cf. *caeca* by Campoy (1982) are considered as not belonging to this species (Arvanitidis, 1994). The most pronounced difference is that the spinigers are unidentate in the specimens examined by Campoy (1982) whereas the spinigers are bidentate in the specimens examined by Katzmann (1973b).

*Trypanosyllis gemmipara* Johnson, 1901

*Trypanosyllis gemmipara*, Campoy, 1982; San Martin, 1984a

*Material Examined.*—1 ind., sta. 133a, 6 m, canals of the sponge *Aplysina aerophoba*.

*Distribution.*—Known only from the Balearic Islands and the Spanish coasts in the Mediterranean (Campoy, 1982; San Martin, 1984a). Cosmopolitan species (Imajima, 1966; Day, 1967; San Martin, 1984a).

*Autolytus convolutus* Cognetti, 1953

*Autolytus convolutus*, Cognetti, 1957; San Martin, 1984a

*Material Examined.*—1 ind., sta. 66, 10 m, hard substrate (assemblage AP).

*Distribution.*—In the Western Mediterranean, reported from the Western Italian coasts, from the Balearic Islands, and from the French coast (Cognetti, 1957; San Martin, 1984a). Known from the Atlantic, Cuba, Red Sea, and Pacific (Imajima, 1966; Besteiro et al., 1987).

*Myrianida pinnigera* (Montagu, 1808)

*Myrianida pinnigera*, Fauvel, 1923

*Material Examined.*—1 ind., sta. 66, 1 m, hard substrate (assemblage AP).

*Distribution.*—Ostrooumouff (1896) reported it from Bosphorus and the Sea of Marmara. Known from the Central Basin and the Western Mediterranean (Bellan, 1964a; Pozar-Domac, 1978; Campoy, 1982). Cosmopolitan species (Cognetti, 1961; Imajima, 1966; Campoy, 1982).

#### Family Nereidae Johnston 1845

*Eunereis longissima* (Johnston, 1840)

*Nereis (Eunereis) longissima*, Hartmann-Schröder, 1971

*Eunereis longissima*, Fauchald, 1977

*Material Examined.*—38 ind., sta. I, 3–33 m, muddy substrate.

*Distribution.*—Rullier (1963), Bacescu et al. (1971) and Marinov (1977) recorded it from the Black Sea. Also known from the Mediterranean (Fauvel, 1940; Bellan, 1964a; Sarda, 1984) and European coasts of the Atlantic (Fauvel, 1913; Hartmann-Schröder, 1971).

*Nereis lamellosa* Ehlers, 1868

*Nereis (Neanthes) succinea*, Fauvel, 1923 (partim)

*Nereis (Nereis) lamellosa*, Day, 1967

*Nereis lamellosa*, Fauvel, 1936; Campoy, 1982

*Material Examined.*—111 ind., sta. 100, 101, 103, 104, 105, 106, 107, I, 2–24 m, soft substrate (from sand to clay).

*Distribution.*—Fauvel (1940), Bellan (1960) and Campoy (1982), have recorded its presence in the Mediterranean. Cosmopolitan species (Day, 1967; Campoy, 1982).

*Remarks.*—Fauvel (1936) observed that *Nereis lamellosa* is very closed to *Neanthes succinea* (Frey and Leuckart, 1847), and suggested characters differentiating them. It appears, however, that very few of the subsequent authors (e.g. Day, 1967; Campoy, 1982)

have taken Fauvel's (1936) suggestions. It follows that a variety of contributors to the Mediterranean polychaete literature have reported many individuals of the species *N. lamellosa* under the name *N. succinea*, following the description given by Fauvel (1923). The large number of the individuals found in the Northern Aegean indicate that this species is probably widely distributed in the Mediterranean and the NW Atlantic.

Family Glyceridae Grube 1850

*Glycera celtica* O'Connor, 1987

*Material Examined.*—9 ind., sta. 96, 99, 1–5 m, sandy substrate.

*Distribution.*—In the Western Mediterranean reported only from the Gulf of Naples (O'Connor, 1987). Known also from the European Atlantic waters (O'Connor, 1987).

Family Goniadidae Kinberg 1866

*Goniadella bobretzkii* (Annenkova, 1929)

*Goniada bobretzkii* Annenkova, 1929a

*Goniadella bobretzkii*, Hartmann-Schröder, 1971

*Material Examined.*—36 ind., sta. 106, 16 m, sandy substrate.

*Distribution.*—Previously known from the Black Sea (Annenkova, 1929a; Bacescu et al., 1971; Marinov, 1977) and the North Sea (Hartmann-Schröder, 1971; Wolff and Stegenga, 1975).

Family Nephyidae Grube 1850

*Nephtys assimilis* Örsted, 1843

*Nephtys assimilis*, Rainer 1989, 1991

*Material Examined.*—15 ind., sta. 98, F, H<sub>1</sub>, 5–100 m, muddy and corraligenus substrates.

*Distribution.*—Known from the Eastern Atlantic (Rainer 1989, 1991).

*Remarks.*—Rainer (1989), re-examined an individual, identified by Michaelsen in 1896 as *Nephtys scolopendroides* and subsequently by Augener in 1912 as *N. hombergii*, and placed it into *N. assimilis*. He does not mention the exact locality where the individual was collected, but it is known that Michaelsen never examined specimens from the Eastern Mediterranean.

*Nephtys pulchra* Rainer, 1991

*Material Examined.*—10 ind., sta. F, F<sub>1</sub>, H<sub>1</sub>, 300–1000 m, soft substrate (mud, clay).

*Distribution.*—Firstly recorded in the Mediterranean. Known only from its type locality (Northern Europe, Rainer, 1991).

## Family Lumbrineridae Malmgren 1867

*Lumbrineris inflata* (Moore, 1911)*Lumbrineris inflata* Moore, 1911; Giangrande et al., 1981

*Material Examined*.—178 ind., sta. 15, 66, 70, 1–8 m, hard substrate (assemblage AP). An individual from station 66 was extracted from a calcareous tube, typical of the family Serpulidae.

*Distribution*.—Giangrande et al. (1981), Campoy (1982), Fresi et al. (1983), and Gherardi et al. (1985), have cited its presence in the Central and Western Mediterranean. Cosmopolitan species (Day, 1967; Imajima and Higuchi, 1975; Campoy, 1982).

*Remarks*.—The large number of individuals found in the Northern Aegean as well as in the porto d'Ischia (449 individuals, (Giangrande et al., 1981)), indicate that the species may be widely distributed throughout the Mediterranean. It has been confused with *Lumbrineris coccinea* (Renier, 1804), a fact which may explain its few records from the Mediterranean.

*Lumbrineris labrofibriata* (Saint-Joseph, 1888)*Lumbriconereis labrofimbriata*, Laubier, 1958*Lumbrineris labrofimbriata*, Ramos, 1976; George and Hartmann-Schröder, 1985

*Material Examined*.—10 ind., sta. 31, 66, 144a, 5–28 m, hard substrate (assemblage AP, and canals of the sponge *Agelas oroides*).

*Distribution*.—Laubier (1958) and Ramos (1976) reported it from the Abeille cape and Campoy (1982) from the Balearic Islands. Also known from the NW Atlantic (e.g., Campoy, 1982; George and Hartmann-Schröder, 1985).

## Family Paraonidae Cerruti 1909

*Paradoneis ilvana* Castelli, 1985

*Material Examined*.—63 ind., sta. 106, 110, 3–22 m, sandy and muddy substrate.

*Distribution*.—Known only from the Western coasts of Italy (Castelli 1985, 1988); it is considered as an endemic Mediterranean species.

## Family Poecilochaetidae Hannerz, 1956

amended Laubier and Ramos, 1973

*Elicodasia mirabilis* Laubier and Ramos, 1973

*Material Examined*.—1 ind., sta. 103, 16 m, muddy substrate.

*Distribution*.—First record in the Eastern Mediterranean, and second from the Mediterranean (Laubier and Ramos, 1973). Endemic Mediterranean species.

*Poecilochaetus fauchaldi* Pilato and Cantone, 1976

*Material Examined*.—742 ind., sta. 98, 98a, 100, 101, 102, 103, 104, 105, 106, 107, 108, 108a, 109, H<sub>1</sub>, I, 2–400 m, sandy and muddy substrate.



*Distribution.*—Known also from the Italian coasts (Pilato and Cantone, 1976; Gambi and Giangrande, 1985; Cantone, 1990). It is considered to be an endemic Mediterranean species.

Family Spionidae Grube, 1850

*Polydora spongicola* Berkeley and Berkeley, 1950

*Polydora ciliata* (Johnston) var. *spongicola* Berkeley and Berkeley, 1950

*Polydora spongicola*, Woodwick, 1963; Blake, 1971

*Material Examined.*—86 ind., station 133a, 15 m, in the canals of the sponges *Aplysina aerophoba* Schmidt and *Axinella canabina* (Esper).

*Distribution.*—Recorded from the Mediterranean for the first time. Known also from the Pacific Canadian, USA, and Mexican coasts (Berkeley and Berkeley, 1950; Woodwick, 1963; Blake, 1971).

*Remarks.*—It is worthwhile mentioning that sponge canals appear to be the only known habitat of the species up to the present, according to the Berkeley and Berkeley (1950), Woodwick (1963), and the present study.

Family Chaetopteridae Malmgern, 1867

*Mesochaetopterus saggitarius* (Claparède, 1870)

*Ranzania saggiteria* Claparède, 1870

*Mesochaetopterus minutus*, Day, 1967

*Mesochaetopterus saggitarius*, Bhaud, 1969

*Material Examined.*—1 ind., sta. F, 80 m, coralligenus substrate.

*Distribution.*—Reported in the Central and Western Mediterranean by Claparède (1870), Fauvel (1940), Bhaud (1969). Also known from the Atlantic and Indo-Pacific (Day, 1967; Rosenfeldt, 1982).

Family Pectinariidae Qatrefages, 1865

*Pectinaria (Lagis) neapolitana* Claparède, 1870

*Pectinaria neapolitana* Claparède, 1870

*Pectinaria (Lagis) neapolitana*, Day, 1967; Holthe, 1986

*Material Examined.*—55 ind., sta. 96, 97, 98, 98a, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 108a, 109, 110, I, 2–41 m, sandy and muddy substrates.

*Distribution.*—Known from the Black Sea (Annenkova, 1929b; Bacescu et al., 1965) and the Gulf of Naples (Claparède, 1870). Also recorded from South African (Day, 1967).

## Family Terebellidae Malmgren, 1866

*Pista lornensis* (Pearson, 1969)*Scionella lornensis* Pearson, 1969*Pista lornensis*, Saphronova, 1991*Material Examined.*—10 ind., sta. F, 80–300 m, sandy mud.*Distribution.*—Firstly recorded in the Mediterranean. Known from its type-locality, West coasts of Scotland (Pearson, 1969) and from the Yellow Sea (Saphronova, 1991).

## Family Sabellidae Johnston, 1846

amended Fitzhugh, 1989

*Branchiomma luctuosum* (Grube, 1869)*Branchiomma luctuosum*, Knight-Jones et al., 1991*Material Examined.*—1 ind., sta. 144a, 28 m, canals of the sponge *Ircinia variabilis* (Schmidt, 1869).*Distribution.*—Recorded only from Lurcino lagoon near Naples (Giangrande, 1990; Knight-Jones et al., 1991). Also known from the Red Sea (Knight-Jones et al., 1991).*Demonax langerhansi* (Langerhans, 1884)*Demonax langerhansi*, Knight-Jones, 1983*Material Examined.*—25 ind., sta. 19, 29, 66, 133a, 144a, 1–28 m, hard substrate (assemblage AP, canals of the sponges *Aplysina aerophoba*, *Axinella canabina* and *Petrosia dura* (Nardo, 1833)).*Distribution.*—Recorded only from the Adriatic Sea in the Mediterranean (Giangrande, 1990). Known also from the NW Atlantic (Knight-Jones, 1983).*Euchone capensis* Day, 1961*Euchone capensis*, Day, 1967; Banse, 1972*Material Examined.*—2 ind., sta. 133a, 10 m, canals of the sponge *Agelas oroides*.*Distribution.*—Recorded in the Western Italian coasts (Giangrande, 1990). Previously known only from its type locality, South Africa (Day, 1967; Banse, 1972).*Euchone southerni incisa* Banse, 1970*Material Examined.*—1 ind., sta. F, 80 m, muddy sand.*Distribution.*—Reported for the first time from the Mediterranean. Known only from its type-locality, South Africa (Day, 1967; Banse, 1970).*Notaulax phaetoaenia* (Schmarda, 1861)*Sabella phaetoaenia* Schmarda, 1861*Notaulax phaetoaenia*, Perkins, 1984

*Material Examined.*—1 ind., sta. 96a, 8 m, muddy substrate.

*Distribution.*—Reported from several localities throughout the Mediterranean (Fauvel, 1927; Bellan, 1964a; Giangrande, 1990). Although it appears to be a cosmopolitan species, it is very likely to have a much more restricted distribution (Perkins, 1984).

#### DISCUSSION

The review of the literature (e.g., Bellan 1961, 1964b; Kisseleva, 1963; Harmelin, 1969; Ergen, 1976; Fassari, 1982; Nicolaidou et al., 1985; Knight-Jones et al., 1991; Fitzhugh et al., 1994; Papadopoulou et al., 1994; Simboura and Nicolaidou 1994, 1997; Arvanitidis and Koukouras 1995, 1997) and the results of the recent contributions to the Aegean polychaete fauna (Arvanitidis, 1994; Simboura, 1996) revealed 592 species to be known from this area (Appendix 1).

Five of the species identified during the present study are new records for the Mediterranean and Black Sea waters (corresponding to 0.48% of the total number of the polychaete species), 38 species are new for Eastern Mediterranean (5.7% of the total number of species of the area) and 55 species are new for the Aegean (9.3% of the number of species of the Aegean).

The Aegean Sea although less studied until recently and being located far away from Gibraltar, hosts a rich polychaete fauna. Among the main areas of the Mediterranean and the Black Sea, the Aegean has been classified as second in species diversity after the Western Mediterranean (Arvanitidis, 1994). Consequently, this area cannot be considered any longer as part of the Eastern Mediterranean province, which is characterized by an impoverished fauna, as proposed by several authors in the past (e.g., Tortonese, 1951; Ekman, 1967). It is anticipated that more intensive sampling in specific biotopes, not studied yet, will further raise the number of the Aegean polychaete species. Several zoogeographical studies on different taxa such as ceratose sponges (Voultsiadou-Koukoura and Koukouras, 1993), octocorals (Vafidis et al., 1994), opisthobranch (Koutsoubas and Koukouras, 1993) and prosobranch molluscs (Koutsoubas et al., 1997), decapod (Koukouras et al., 1992) and amphipod crustaceans (Stefanidou and Voultsiadou-Koukoura, 1995), gave similar results.

Consequently, the Aegean should be considered as an area which plays a key role in: (a) identifying patterns of dispersion along the Mediterranean and, (b) understanding the zoogeography of the Mediterranean polychaete fauna.

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## APPENDIX I

Checklist of the Aegean Polychaeta. Species marked with \*\*\* are new records for the Mediterranean, those marked with \*\* are new for the Eastern Mediterranean and those marked with \* are new for the Aegean.

### PHYLLODOCIDA

#### APHRODITIDAE

- Aphrodita aculeata* Linnaeus, 1761  
*Aphrodita perarmata* Roule, 1906  
*Laetmonice filicornis* Kinberg, 1855\*\*  
*Laetmonice hystrix* (Savigny, 1820)  
*Pontogenia chrysocoma* (Baird, 1865)

#### POLYNOIDAE

- Acholoe astericola* (delle Chiaje, 1828)  
*Bathyaufavelia affinis* (Fauvel, 1914)  
*Gattyana cirrosa* (Pallas, 1766)  
*Harmothoe antilopes* McIntosh, 1876  
*Harmothoe areolata* (Grube, 1860)  
*Harmothoe extenuata* (Grube, 1840)  
*Harmothoe fraserthomsoni* McIntosh, 1897  
*Harmothoe impar* (Johnston, 1839)  
*Harmothoe ljunghmani* (Malmgren, 1867)  
*Harmothoe minuta* (Potts, 1910)  
*Harmothoe reticulata* (Claparède, 1870)  
*Harmothoe spinifera* (Ehlers, 1864)  
*Lepidasthenia elegans* (Grube, 1840)  
*Lepidasthenia maculata* Potts, 1910  
*Lepidonotus clava* (Montagu, 1808)  
*Malmgreniella andreapolis* (McIntosh, 1876)\*\*\*  
*Malmgreniella darbouxi* Pettibone, 1993\*\*  
*Malmgreniella lumulata* (delle Chiaje, 1841)  
*Subadyte pellucida* (Ehlers, 1864)

### ACOETIDAE

- Euarche tubifex* Ehlers, 1887  
*Eupanthalis kinbergi* McIntosh, 1876\*  
*Panthalis oerstedii* Kinberg, 1855  
*Polyodontes maxillosus* (Ranzani, 1817)

### PHOLOIDAE

- Pholoe fauveli* Kirkegaard, 1983  
*Pholoe minuta* (Fabricius, 1780)  
*Pholoides dorsipapillatus* (Marenzeller, 1893)

### SIGALIONIDAE

- Claparedepelogenia inclusa* (Claparède, 1868)  
*Euthalenessa oculata* (Peters, 1854)  
*Fimbriosthenelais minor* (Pruvot and Racovitza, 1895)  
*Labioleanira yhleni* (Malmgren, 1867)  
*Neoleanira tetragona* (Örsted, 1845)  
*Pelogenia arenosa* (delle Chiaje, 1841)  
*Sigalion mathildae* A. and M. Edwards (in Cuvier 1830)  
*Sthenelais boa* (Johnston, 1839)  
*Sthenelais ctenolepis* Claparède, 1868\*\*  
*Sthenelais limicola* (Ehlers, 1864)

### CHRYSOPETALIDAE

- Bhawania reyssii* Katzmann, Laubier and Ramos, 1974

*Chrysopetalum debile* (Grube, 1855)  
*Paleanotus chrysolepis* Schmarda, 1861

## PISIONIDAE

*Pisione remota* (Southern, 1914)

## PHYLLODOCIDAE

*Eteone flava* (Fabricius, 1780)\*\*  
*Eteone longa* (Fabricius, 1780)  
*Eteone picta* Quatrefages, 1865  
*Eteone syphonodonta* (delle Chiaje, 1822)  
*Eumida punctifera* (Grube, 1860)  
*Eulalia tripunctata* McIntosh, 1874\*\*  
*Eulalia viridis* (Linnaeus, 1767)  
*Eumida sanguinea* Örsted, 1843  
*Hesionura elongata* (Southern, 1914)  
*Mystides caeca* Langerhans, 1880  
*Nereiphylla paretii* Blainville, 1828  
*Nereiphylla pusilla* (Claparède, 1870)  
*Nereiphylla rubiginosa* (Saint-Joseph, 1888)  
*Notophyllum foliosum* (M. Sars, 1835)  
*Paranaitis kosterensis* (Malmgren, 1867)  
*Phyllodoce groenlandica* Örsted, 1842  
*Phyllodoce lamelligera* (Linnaeus, 1791)  
*Phyllodoce laminosa* Savigny, 1818  
*Phyllodoce lineata* (Claparède, 1870)  
*Phyllodoce madeirensis* Langerhans, 1880  
*Phyllodoce mucosa* Örsted, 1843  
*Pseudomystides limbata* Saint-Joseph, 1888  
*Pterocirrus macroceros* (Grube, 1860)

## HESIONIDAE

*Gyptis propinqua* Marion and Bobretzky, 1875  
*Hesione splendida* Savigny, 1818  
*Hesionides arenaria* Friedrich, 1937  
*Hesiospina similis* (Hessle, 1925)  
*Kefersteinia cirrata* (Keferstein, 1862)  
*Leocrates chinensis* Kinberg, 1866  
*Microphthalmus fragilis* Bobretzky, 1870  
*Ophiodromus agilis* (Ehlers, 1864)  
*Ophiodromus flexuosus* (delle Chiaje, 1825)  
*Ophiodromus pallidus* (Claparède, 1864)  
*Podarkeopsis capensis* (Day, 1963)  
*Podarkeopsis galangau* Laubier, 1961\*  
*Syllidia armata* Quatrefages, 1865

## PILARGIIDAE

*Ancistargis hamata* (Hartman, 1960)  
*Ancistrosyllis groenlandica* McIntosh, 1879  
*Otopsis chardyi* Katzmann, Laubier and Ramos,  
 1974\*\*  
*Pilargis verrucosa* Saint-Joseph, 1899

*Sigambra constricta* (Southern, 1921)  
*Sigambra parva* (Day, 1963)  
*Sigambra tentaculata* (Treadwell, 1941)  
*Synelmis dineti* Katzmann, Laubier and Ramos,  
 1974

## SYLLIDAE

*Amblyosyllis dorsigera* Claparède, 1864\*\*  
*Amblyosyllis formosa* (Claparède, 1863)  
*Amblyosyllis madeirensis* Langerhans, 1879\*\*  
*Autolytus brachycephalus* (Marenzeller, 1874)  
*Autolytus convolutus* Cognetti, 1953\*\*  
*Autolytus edwardsii* Saint-Joseph, 1887\*  
*Autolytus longeferiens* Saint-Joseph, 1887  
*Autolytus prolifer* (O.F. Müller, 1788)  
*Autolytus rubrovittatus* Claparède, 1864  
*Branchiosyllis exilis* (Gravier, 1900)  
*Brania pusilla* (Dujardin, 1839)  
*Brania tenuicirrata* (Claparède, 1864)  
*Ehlersia ferrugina* (Langerhans, 1881)  
*Euryosyllis tuberculata* Ehlers, 1864  
*Eusyllis assimilis* Marenzeller, 1875  
*Eusyllis lamelligera* Marion and Bobretzky, 1875  
*Exogone dispar* (Webster, 1879)  
*Exogone hebes* (Webster and Benedict, 1884)  
*Exogone naidina* Örsted, 1845  
*Exogone rostrata* Naville, 1933  
*Exogone verrugera* (Claparède, 1868)  
*Grubeosyllis clavata* (Claparède, 1863)  
*Grubeosyllis limbata* (Claparède, 1868)  
*Haplosyllis spongicola* (Grube, 1855)  
*Langerhansia caeca* (Katzmann, 1973)\*\*  
*Myrianida pinnigera* (Montagu, 1808)\*\*  
*Odontosyllis ctenostoma* Claparède, 1868  
*Odontosyllis dugesiana* Claparède, 1864  
*Odontosyllis fulgurans* (A. and M. Edwards, 1833)  
*Odontosyllis gibba* Claparède, 1863  
*Parapionosyllis brevicirra* Day, 1954  
*Parapionosyllis gestans* (Pierantoni, 1903)  
*Pionosyllis dionisi* Nunez and San Martin, 1991  
*Pionosyllis lamelligera* Saint-Joseph, 1886  
*Pionosyllis weismanni* Langerhans, 1879  
*Plakosyllis brevipes* Hartmann-Schröder, 1956  
*Proceraea aurantiaca* Claparède, 1868  
*Proceraea picta* Ehlers, 1864  
*Procerastea nematodes* Langerhans, 1884  
*Pseudosyllis brevipennis* Grube, 1863  
*Sphaerosyllis brevicirra* Hartmann-Schröder, 1960  
*Sphaerosyllis bulbosa* Southern, 1914  
*Sphaerosyllis capensis* Day, 1953\*\*  
*Sphaerosyllis cryptica* Ben-Eliahu, 1977\*  
*Sphaerosyllis erinaceus* Claparède, 1863

*Sphaerosyllis hystrix* Claparède, 1863  
*Sphaerosyllis ovigera* Langerhans, 1879  
*Sphaerosyllis pirifera* Claparède, 1868  
*Sphaerosyllis taylori* Perkins, 1981  
*Sphaerosyllis thomasi* San Martin, 1984\*\*  
*Streptosyllis websteri* Southern, 1914  
*Syllides bansei* Perkins, 1981  
*Syllides fulvus* (Marion and Bobretzky, 1875)  
*Syllis amica* Quatrefages, 1865  
*Syllis armillaris* (O. F. Müller, 1776)  
*Syllis beneliahui* (Campoy, 1982)\*\*  
*Syllis columbretensis* Campoy, 1982\*\*  
*Syllis cornuta* Rathke, 1843  
*Syllis ferrani* Alos and San Martin, 1987  
*Syllis garciai* (Campoy, 1982)\*  
*Syllis gerlachi* Hartmann-Schröder, 1960\*\*  
*Syllis gracilis* Grube, 1840  
*Syllis hyalina* Grube, 1863  
*Syllis krohni* Ehlers, 1864  
*Syllis lutea* Hartmann-Schröder, 1960\*  
*Syllis nigricirris* Grube, 1863  
*Syllis prolifera* Krohn, 1852  
*Syllis rosea* (Langerhans, 1879)\*  
*Syllis torquata* Marion and Bobretzky, 1875  
*Syllis truncata cryptica* (Ben-Eliahu, 1977)  
*Syllis variegata* Grube, 1860  
*Syllis vittata* (Grube, 1840)  
*Trypanosyllis coeliaca* Claparède, 1868\*  
*Trypanosyllis gemmipara* Johnson, 1901\*\*  
*Trypanosyllis zebra* (Grube, 1840)  
*Umbellisyllis clavata* (Langerhans, 1879)  
*Xenosyllis scabra* (Ehlers, 1864)

## NEREIDAE

*Ceratonereis costae* (Grube, 1840)  
*Ceratonereis hircinicola* (Eising, 1870)  
*Eunereis longissima* (Johnston, 1840)\*\*  
*Hediste diversicolor* (O. F. Müller, 1776)  
*Micronereis variegata* Claparède, 1863  
*Neanthes caudata* (delle Chiaje, 1828)  
*Neanthes irrorata* (Malmgren, 1867)  
*Neanthes kerguelensis* (McIntosh, 1885)  
*Neanthes succinea* (Frey and Leuckart, 1847)  
*Nereis falsa* Quatrefages, 1865  
*Nereis lamellosa* Ehlers, 1868\*\*  
*Nereis pelagica* Linnaeus, 1758  
*Nereis rava* Ehlers, 1868  
*Nereis zonata* Malmgren, 1867  
*Perinereis cultrifera* (Grube, 1840)  
*Perinereis oliveirae* (Horst, 1889)  
*Platynereis coccinea* (delle Chiaje, 1841)  
*Platynereis dumerilii* (A. and M. Edwards, 1833)  
*Websterinereis glauca* (Claparède, 1870)

## GLYCERIDAE

*Glycera alba* (O. F. Müller, 1776)  
*Glycera capitata* Örsted, 1843  
*Glycera celtica* O'Connor, 1987\*\*  
*Glycera gigantea* Quatrefages, 1865  
*Glycera lapidium* Quatrefages, 1865  
*Glycera rouxi* A. and M. Edwards, 1833  
*Glycera tessellata* Grube, 1863  
*Glycera tridactyla* Schmarda, 1861  
*Glycera unicornis* Savigny, 1818

## GONIADIDAE

*Glycinde nordmanni* (Malmgren, 1865)  
*Goniada emerita* A. and M. Edwards, 1833  
*Goniada maculata* Örsted, 1843  
*Goniada norvegica* Örsted, 1844  
*Goniadella bobretzkii* (Annenkova, 1929)\*\*

## LACYDONIIDAE

*Lacydonia miranda* Marion and Bobretzky, 1875  
*Paralacydonia paradoxa* (Fauvel, 1913)

## NEPHTYIDAE

*Aglaphamus malmgreni* (Théel, 1870)  
*Aglaphamus rubella* (Michaelsen, 1896)  
*Inermonephtys inermis* (Ehlers, 1887)  
*Micronephtys maryae* San Martin, 1982  
*Micronephtys sphaerocirrata* (Wesenberg-Lund, 1949)  
*Nephtys assimilis* Örsted, 1843\*\*  
*Nephtys caeca* (Fabricius, 1780)  
*Nephtys cirrosa* Ehlers, 1868  
*Nephtys hombergii* Savigny, 1818  
*Nephtys hystericis* McIntosh, 1900  
*Nephtys incisa* Malmgren, 1865\*  
*Nephtys longosetosa* Örsted, 1842  
*Nephtys paradoxa* Malm, 1874  
*Nephtys pulchra* Rainer, 1991\*\*\*

## SPHAERODORIDAE

*Sphaerodoridium claparedi* (Greeff, 1866)  
*Sphaerodoropsis minuta* (Webster and Benedict, 1887)

## AMPHINOMIDA

## AMPHINOMIDAE

*Chloeia viridis* Schmarda, 1861  
*Hermodyce carunculata* (Pallas, 1776)  
*Notopygos megalops* McIntosh, 1885  
*Pareurythoe borealis* (M. Sars, 1862)

## EUPHROSINIDAE

*Euphrosine foliosa* A. and M. Edwards, 1833*Euphrosine myrtilosa* Savigny, 1818

## EUNICIDA

## ONUPHIDAE

*Aponuphis bilineata* (Baird, 1870)*Diopatra neapolitana* delle Chiaje, 1841*Hyalinoecia tubicola* (O. F. Müller, 1776)*Nothria conchylega* (M. Sars, 1835)*Onuphis eremita* A. and M. Edwards, 1833*Paradiopatra calliopa*e Arvanitidis and Koukouras, 1997*Paradiopatra quadricuspis* (M. Sars, in G. O. Sars, 1872)*Ramphobranchium brevibranchiatum* (Ehlers, 1875)

## EUNICIDAE

*Eunice floridana* (Pourtalès, 1867)*Eunice harassii* A. and M. Edwards, 1833*Eunice pennata* (O. F. Müller, 1776)*Eunice purpurea* Grube, 1866\**Eunice russeaei* Quatrefages, 1865*Eunice torquata* Quatrefages, 1865*Eunice vittata* (delle Chiaje, 1829)*Lysidice collaris* Grube, 1870*Lysidice ninetta* A. and M. Edwards, 1833*Marphysa belli* (A. and M. Edwards, 1833)*Marphysa fallax* Marion and Bobretzky, 1875*Marphysa kinbergi* McIntosh, 1910*Marphysa sanguinea* (Montagu, 1815)*Nematoneis unicornis* (Grube, 1840)*Palola siciliensis* (Grube, 1840)

## LUMBRINERIDAE

*Lumbricalus adriatica* (Fauvel, 1940)*Lumbrineriopsis paradoxa* (Saint-Joseph, 1888)*Lumbrineris coccinea* (Renier, 1804)*Lumbrineris gracilis* (Ehlers, 1868)*Lumbrineris inflata* (Moore, 1911)\*\**Lumbrineris labrofimbriata* (Saint-Joseph, 1888)\*\**Lumbrineris latreilli* A. and M. Edwards, 1834*Lumbrineris nonatoi* Ramos, 1976*Ninoe armoricana* Glemarec, 1968*Ninoe nigripes* Verrill, 1873*Scoletoma debilis* (Grube, 1878)*Scoletoma emandibulata mabiti* (Ramos, 1976)*Scoletoma fragilis* (O. F. Müller, 1776)*Scoletoma funchalensis* (Kinberg, 1865)*Scoletoma impatiens* (Claparède, 1868)*Scoletoma rovig-nensis* (Fauvel, 1940)*Scoletoma tetraura* (Schmarda, 1861)

## ARABELLIDAE

*Arabella geniculata* (Claparède, 1868)*Arabella iricolor* (Montagu, 1804)*Dilonereis filum* (Claparède, 1868)*Notocirrus scoticus*, sensu Ramos, 1976*Oligognathus bonelliae* Spengel, 1882

## DORVILLEIDAE

*Dorvillea rubrovittata* (Grube, 1855)*Ophryotrocha labronica* La Greca and Bacci, 1962*Ophryotrocha puerilis puerilis* Claparède and Mecznikov, 1863*Pettiboneia urciensis* Campoy and San Martin, 1980*Protodorvillea kefersteini* (McIntosh, 1869)*Schistomeringos neglecta* (Fauvel, 1923)*Schistomeringos rudolphi* (delle Chiaje, 1828)

## ORBINIIDA

## ORBINIIDAE

*Naineris laevigata* (Grube, 1855)*Naineris quadraticeps* Day, 1965*Orbinia latreilli* (A. and M. Edwards, 1833)*Phylo foetida foetida* (Claparède, 1870)*Phylo grubei* (McIntosh, 1910)*Phylo kupfferi* (Ehlers, 1874)*Protoaricia oerstedii* (Claparède, 1864)*Scolaricia haasi* Monro, 1937*Scolaricia typica* Eising, 1914*Scoplos armiger* (O. F. Müller, 1776)*Scoplos chevalieri candiensis* Harmelin, 1969

## PARAONIDAE

*Aedicira mediterranea* Laubier and Ramos, 1974*Aricidea assimilis* Tebble, 1959*Aricidea capensis bansei* Laubier and Ramos, 1974*Aricidea catherinae* Laubier, 1967*Aricidea cerrutii* Laubier, 1967*Aricidea claudiae* Laubier, 1967*Aricidea fragilis mediterranea* Laubier and Ramos, 1974*Aricidea minuta* Southward, 1956*Aricidea monicae* Laubier, 1967*Aricidea neosuecica*, sensu Laubier and Ramos, 1974\**Aricidea quadrilobata* Webster and Benedict, 1887*Aricidea simonae* Laubier and Ramos, 1974

*Aricidea suecica meridionalis* Laubier and Ramos, 1974  
*Cirrophorus branchiatus* Ehlers, 1908  
*Cirrophorus furcatus* (Hartman, 1957)  
*Levinsenia gracilis* (Tauber, 1879)  
*Paradoneis armata* Glemarec, 1966  
*Paradoneis drachi* Laubier and Ramos, 1974  
*Paradoneis ilvana* Castelli, 1985\*\*  
*Paradoneis lyra* (Southern, 1914)  
*Paraonides neapolitana* Cerruti, 1909

## CTENODRILIDA

## CTENODRILIDAE

*Ctenodrilus serratus* (Schmidt, 1857)

## COSSURIDA

## COSSURIDAE

*Cossura coasta*, *sensu* Bogdanos and Fredj, 1983  
*Cossura soyeri* Laubier, 1963

## SPIONIDA

## SPIONIDAE

*Aonides oxycephala* (M. Sars, 1862)  
*Aonides pauchibranchiata* Southern, 1914  
*Boccardia polybranchia* (Haswell, 1885)  
*Laonice cirrata* (M. Sars, 1851)  
*Malacoceros fuliginosus* (Claparède, 1868)  
*Malacoceros girardii* Quatrefages, 1843  
*Malacoceros tetraceros* (Schmarda, 1861)  
*Microspio mecznikowianus* (Claparède, 1868)  
*Parapriospio pinnata* (Ehlers, 1901)  
*Polydora armata* Langerhans, 1880  
*Polydora caeca* (Ørsted, 1843)  
*Polydora ciliata* (Johnston, 1838)  
*Polydora flava* Claparède, 1870  
*Polydora hoplura* Claparède, 1870  
*Polydora spongicola* E. and C. Berkeley, 1950\*\*\*  
*Prionospio banyulensis* Laubier, 1966  
*Prionospio caspersi* Laubier, 1962  
*Prionospio cirrifera* Wirén, 1883  
*Prionospio dubia* Day, 1961  
*Prionospio ehlersi* Fauvel, 1928  
*Prionospio fallax* Soderstrom, 1920  
*Prionospio malmgreni* Claparède, 1870  
*Prionospio multibranchiata* Berkeley, 1927  
*Prionospio steenstrupi* Malmgren, 1867  
*Pseudopolydora antennata* (Claparède, 1870)  
*Pseudopolydora pulchra* (Carazzi, 1895)  
*Pygospio elegans* Claparède, 1863  
*Scolecopsis bonnieri* (Mesnil, 1896)  
*Scolecopsis cantabra* (Rioja, 1918)  
*Scolecopsis foliosa* (A. and M. Edwards, 1833)

*Scolecopsis squamata* (O. F. Müller, 1789)  
*Scolecopsis tridentata* (Southern, 1914)  
*Spio decoratus* Bobretzky, 1870  
*Spio filicornis* (O. F. Müller, 1776)  
*Spio multioculata* (Rioja, 1918)  
*Spiophanes bombyx* (Claparède, 1870)  
*Spiophanes kroyeri kroyeri* Grube, 1860  
*Spiophanes kroyeri reyssi* Laubier, 1964  
*Streblospio shrubsolei* (Buchanan, 1890)

## MAGELONIDAE

*Magelona alleni* Wilson, 1958  
*Magelona cincta* Ehlers, 1908  
*Magelona equilamellae* Harmelin, 1964  
*Magelona filiformis* Wilson, 1959  
*Magelona minuta* Eliason, 1962  
*Magelona mirabilis* (Johnston, 1845)

## POECILOCHAETIDAE

*Elicodasia mirabilis* Laubier and Ramos, 1973\*\*  
*Poecilochaetus fauchaldi* Pilato and Cantone, 1976\*\*  
*Poecilochaetus fulgoris* Claparède in Ehlers, 1875  
*Poecilochaetus serpens* Allen, 1904

## HETEROSPIONIDAE

*Heterospio mediterranea* Laubier, Picard and Ramos, 1973

## CHAETOPTERIDAE

*Chaetopterus variopedatus* (Renier, 1804)  
*Mesochaetopterus saggitarius* (Claparède, 1870)\*\*  
*Phyllochaetopterus socialis* Claparède, 1870  
*Spiochaetopterus solitarius* Rioja, 1917  
*Spiochaetopterus costarum* (Claparède, 1870)

## CIRRATULIDAE

*Aphelocheata marioni* (Saint-Joseph, 1894)  
*Caulleriella alata* (Southern, 1914)  
*Caulleriella bioculata* (Keferstein, 1862)  
*Caulleriella caputesocis* (Saint-Joseph, 1894)  
*Caulleriella zetlandica* (McIntosh, 1911)  
*Chaetozone setosa* Malmgren, 1867  
*Cirratulus cirratus* (O. F. Müller, 1776)  
*Cirratulus filiformis* Keferstein, 1862  
*Cirriformia tentaculata* (Montagu, 1808)  
*Dodecaceria concharum* Ørsted, 1843  
*Monticellina dorsobranchialis* (Kirkegaard, 1959)  
*Monticellina heterochaeta* (Laubier, 1961)  
*Protocirrinieris chrysochaeta* Claparède, 1868  
*Tharyx multibranchiis* (Grube, 1863)

*Timarete anchylochaeta* (Schmarda, 1861)  
*Timarete dasylophius* (Marenzeller, 1879)  
*Timarete filigera* (delle Chiaje, 1828)

## ACROCIRRIDAE

*Acrocirrus frontifilis* (Grube, 1860)  
*Macrochaeta clavicornis* (M. Sars, 1835)

## CAPITELLIDA

## CAPITELLIDAE

*Capitella capitata* (Fabricius, 1780) *capitata*  
 Warren, 1976  
*Capitella giardi* (Mesnil, 1897)  
*Capitella minima* (Langerhans, 1880)  
*Capitellethus dispar* (Ehlers, 1907)  
*Dasybranchus caducus* (Grube, 1846)  
*Dasybranchus carneus* Grube, 1870  
*Dasybranchus gajolae* Eisig, 1887  
*Heteromastus filiformis* (Claparède, 1864)  
*Leiocapitella dofusii* (Fauvel, 1936)\*  
*Leiocapitella glabra* Hartman, 1947  
*Mastobranchnus trinchessii* Eisig, 1887  
*Mediomastus fragilis* Rasmussen, 1973  
*Neopseudocapitella brasiliensis* Rullier and  
 Amoureux, 1979  
*Notomastus aberans* Day, 1957  
*Notomastus formianus* Eisig, 1887  
*Notomastus latericeus* M. Sars, 1851  
*Notomastus lineatus* Claparède, 1870  
*Notomastus profundus* Eisig, 1887  
*Peresiella chymenoides* Harmelin, 1968  
*Pseudocapitella incerta* Fauvel, 1913  
*Pseudoleiocapitella fauveli* Harmelin, 1964

## ARENICOLIDAE

*Abarenicola claparedei* (Levinsen, 1883)  
*Branchiomaldane vincenti* Langerhans, 1881\*

## MALDANIDAE

*Axiothella constricta* (Claparède, 1870)  
*Chirimia biceps* (M. Sars, 1861)  
*Clymenura chypeata* (Saint-Joseph, 1894)  
*Euclymene collaris* (Claparède, 1870)  
*Euclymene lombricoides* (Quatrefages, 1865)  
*Euclymene oerstedii* (Claparède, 1863)  
*Euclymene palermitana* (Grube, 1840)  
*Heteroclymene robusta* Arwidsson, 1907  
*Johnstonia chymenoides* Quatrefages, 1865  
*Macroclymene santadarensis* (Rioja, 1917)  
*Maldane glebifex* Grube, 1860  
*Maldane sarsi* Malmgren, 1865  
*Metasychis gotoi* (Izuka, 1902)

*Nicomache lumbricalis* (Fabricius, 1780)  
*Nicomache trispinata* Arwidsson, 1907  
*Petaloproctus terricola* Quatrefages, 1865  
*Praxillella affinis* (M. Sars, 1872)  
*Praxillella gracilis* (M. Sars, 1861)  
*Praxillella lophoseta* (Orlandi, 1898)  
*Praxillella praetermissa* (Malmgren, 1866)  
*Rhodine gracilior* Tauber, 1879  
*Rhodine loveni* Malmgren, 1865

## OPHELIIDA

## OPHELIIDAE

*Armandia cirrhosa* Philippi, 1861  
*Armandia polyophthalma* Kükenthal, 1887  
*Ophelia barquii* Fauvel, 1927  
*Ophelia bicornis* Savigny, 1818  
*Ophelia radiata* (delle Chiaje, 1828)  
*Ophelina acuminata* Örsted, 1843  
*Ophelina cylindricaudata* (Hansen, 1878)  
*Polyophthalmus pictus* (Dujardin, 1839)  
*Tachytrypane jeffreysii* McIntosh, 1879

## SCALIBREGMATIDAE

*Asclerocheilus intermedius* (Saint-Joseph, 1894)  
*Polyphysia crassa fauveli* (Laubier, 1959)  
*Scalibregma celticum* Mackie, 1991  
*Scalibregma inflatum* Rathke, 1843  
*Sclerocheilus minutus* Grube, 1863

## STERNASPIDA

## STERNASPIDAE

*Sternaspis scutata* (Renier, 1807)

## OWENIIDA

## OWENIIDAE

*Myriochele oculata* (Zaks, 1922)  
*Owenia fusiformis* delle Chiaje, 1842

## FLABELLIGERIDA

## FLABELLIGERIDAE

*Brada villosa* (Rathke, 1843)  
*Diplocirrus glaucus* (Malmgren, 1867)  
*Flabelligera affinis* M. Sars, 1829  
*Flabelligera diplochaitus* (Otto, 1820)\*  
*Pherusa monilifera* (delle Chiaje, 1841)\*  
*Pherusa plumosa* (O. F. Müller, 1776)  
*Piromis eruca* (Claparède, 1870)  
*Therochaeta flabellata* (M. Sars, 1871)

## TEREBELLIDA

## PECTINARIIDAE

*Pectinaria auricoma* (O. F. Müller, 1776)

*Pectinaria belgica* (Pallas, 1766)  
*Pectinaria koreni* (Malmgren, 1866)  
*Pectinaria neapolitana* Claparède, 1870\*\*  
*Petta pusilla* Malmgren, 1866

## AMPHARETIDAE

*Amage adpersa* (Grube, 1863)  
*Amage gallasi* Marion, 1875  
*Ampharete acutifrons* (Grube, 1860)  
*Amphicteis gunneri* (M. Sars, 1835)  
*Anobothrus gracilis* (Malmgren, 1866)  
*Auchenoplax crinita* Ehlers, 1887  
*Lysippe labiata* Malmgren, 1865  
*Melinna monoceroides* Fauvel, 1936  
*Melinna palmata* Grube, 1870  
*Sabellides octocirrata* (M. Sars, 1835)  
*Sosane sulcata* Malmgren, 1865

## TEREBELLIDAE

*Amæana trilobata* (M. Sars, 1863)  
*Amphitrite cirrata* (O. F. Müller, 1771)  
*Amphitrite rubra* (Risso, 1828)  
*Amphitrite variabilis* (Risso, 1826)  
*Amphitritides gracilis* (Grube, 1860)  
*Amphitritides kuehlmanni* Arvanitidis and Koukouras, 1995  
*Eupolymnia nebulosa* (Montagu, 1818)  
*Eupolymnia nesidensis* (delle Chiaje, 1828)  
*Lanice conchilega* (Pallas, 1766)  
*Loimia medusa* (Savigny, 1818)  
*Neoamphitrite edwardsi* (Quatrefages, 1865)  
*Neoamphitrite figulus* (Dallyell, 1853)  
*Nicolea venustula* (Montagu, 1818)  
*Nicolea zostericola* Örsted, 1844  
*Pista cretacea* (Grube, 1860)  
*Pista cristata* (O. F. Müller, 1776)  
*Pista lornensis* (Pearson, 1969)\*\*\*  
*Polycirrus aurantiacus* Grube, 1860  
*Polycirrus haematodes* (Claparède, 1864)  
*Polycirrus medusae* Grube, 1850  
*Polycirrus pallidus* (Claparède, 1864)  
*Polycirrus plumosus* Wollerae, 1912  
*Polycirrus tenuisetis* Langerhans, 1880  
*Proclea grafii* (Langerhans, 1884)  
*Streblosoma bairdi* (Malmgren, 1865)  
*Terebella ehrenbergi* Grube, 1870\*  
*Terebella lapidaria* Linnaeus, 1767  
*Thelepus cincinnatus* (Fabricius, 1780)  
*Thelepus setosus* (Quatrefages, 1865)  
*Thelepus triserialis* (Grube, 1855)

## TRICHOBRANCHIDAE

*Terebellides stroemi* M. Sars, 1835  
*Trichobranchus glacialis* Malmgren, 1865

## SABELLIDA

## SABELLARIIDAE

*Lygdamis muratus* (Allen, 1904)  
*Phalacrostemma cidariophilum* Marenzeller, 1895  
*Sabellaria alcocki* Gravier, 1906  
*Sabellaria spinulosa* Leuckart, 1849

## SABELLIDAE

*Amphiglena mediterranea* (Leydig, 1851)  
*Bispira mariae* Lo Bianco, 1893  
*Bispira viola* (Grube, 1863)  
*Bispira volutacornis* (Montagu, 1804)  
*Branchiomma bombyx* (Dalyell, 1853)  
*Branchiomma luctuosum* (Grube, 1869)\*\*  
*Branchiomma lucullanum* (delle Chiaje, 1828)  
*Branchiomma moebii* P. Knight-Jones, 1994  
*Chone acustica* (Claparède, 1870)  
*Chone collaris* Langerhans, 1880  
*Chone duneri* Malmgren, 1867  
*Chone filicaudata* Southern, 1914  
*Chone longiseta* Giangrande, 1992  
*Demonax branchycona* (Claparède, 1870)  
*Demonax langerhansi* (Langerhans, 1884)\*\*  
*Demonax tenuicollaris* (Grube, 1870)  
*Desdemona ornata* Banse, 1957  
*Euchone capensis* Day, 1961\*\*  
*Euchone rosea* Langerhans, 1884  
*Euchone rubrocincta* (M. Sars, 1861)  
*Euchone southerni incisa* Banse, 1970\*\*\*  
*Fabricia stellaris stellaris* (O. F. Müller, 1774)  
*Hypsicomus stichophthalmos* (Grube, 1863)  
*Jasmineira candela* (Grube, 1863)  
*Jasmineira caudata* Langerhans, 1880  
*Jasmineira elegans* Saint-Joseph, 1894  
*Laonome kroyeri* Malmgren, 1865  
*Laonome salmacidis* Claparède, 1870  
*Megalomma vesiculosum* (Montagu, 1815)  
*Myxicola infundibulum* (Renier, 1804)  
*Notaulax phaeotaenia* (Schmarda, 1861)\*\*  
*Oriopsis armandi* (Claparède, 1864)  
*Pseudofabriciella longipyga* Fitzhugh, Giangrande and Simboura, 1994  
*Pseudopotamilla reniformis* (Bruguere, 1789)  
*Sabella crassicornis* M. Sars, 1851  
*Sabella discifera* Grube, 1874  
*Sabella pavonina* Savigny, 1822  
*Sabella spallanzanii* (Viviani, 1805)

## SERPULIDAE

- Apomatus similis* Marion and Bobretzky, 1875\*  
*Ditrupa arietina* (O. F. Müller, 1776)  
*Ficopomatus enigmaticus* (Fauvel, 1923)  
*Filograna implexa* M. Berkeley, 1828  
*Filogranula annulata* (O. G. Costa, 1861)  
*Filogranula calyculata* (O. G. Costa, 1861)  
*Filogranula gracilis* (Langerhans, 1884)  
*Hydroides dianthus* (Verrill, 1873)  
*Hydroides dirampha* Mörch, 1863  
*Hydroides elegans* (Haswell, 1883)  
*Hydroides helmata* (Iroso, 1921)  
*Hydroides nigra* Zibrowius, 1971  
*Hydroides norvegica* Gunnerus, 1768  
*Hydroides pseudouncinata pseudouncinata*  
 Zibrowius, 1968  
*Hydroides stoichadon* Zibrowius, 1971  
*Janita fimbriata* (delle Chiaje, 1822)  
*Josephella marenzelleri* Caullery and Mesnil, 1896  
*Metavermilia multicristata* (Philippi, 1844)  
*Placostegus crystallinus*, sensu Zibrowius, 1968  
*Placostegus tridentatus* (Fabricius, 1779)  
*Pomatoceros lamarckii* (Quatrefages, 1865)  
*Pomatoceros triqueter* (Linnaeus, 1767)  
*Protula intestinum* (Savigny, 1818)  
*Protula tubularia* (Montagu, 1803)  
*Semivermilia agglutinata* (Marenzeller, 1893)  
*Semivermilia crenata* (O. G. Costa, 1861)  
*Semivermilia pomatostegoides* (Zibrowius, 1969)  
*Serpula concharum* Langerhans, 1880  
*Serpula lobiancoi* Rioja, 1917  
*Serpula vermicularis* Linnaeus, 1767  
*Spirobranchus polytrema* (Philippi, 1844)  
*Spirobranchus tetraceros* (Schmarda, 1861)  
*Vermiliopsis infundibulum* (Gmelin, 1788), sensu lato  
*Vermiliopsis labiata* (G. O. Costa, 1861)  
*Vermiliopsis striaticeps* (Grube, 1862)

## SPIRORBIDAE

- Janua pagenstecheri* (Quatrefages, 1865)  
*Neodexiospira pseudocorrugata* (Bush, 1904)  
*Nidificaria clavus* (Harris, 1968)  
*Pileolaria heteropoma* (Zibrowius, 1968)  
*Pileolaria militaris* (Claparède, 1868)  
*Protolaeospira striata* (Quievreux, 1963)  
*Simplaria pseudomilitaris* (Thiriot-Quievreux,  
 1965)  
*Spirorbis cuneatus* Gee, 1964  
*Spirorbis marioni* Caullery & Mesnil, 1897  
*Vinearia endumensis* (Zibrowius, 1968)  
*Vinearia koehleri* (Caullery & Mesnil, 1897)

## PROTODRILIDA

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- Protodrilus flavocapitatus* (Uljanin, 1877)  
*Saccocirrus papillocerus* Bobretzky, 1872