

NEW RECORDS OF POLYCHAETES FROM THE TURKISH AEGEAN COAST

Melih Ertan Çınar, Zeki Ergen * and Ertan Dağlı

Ege University, Faculty of Fisheries, Dep. of Hydrobiology, Izmir, Turkey - cinar@sufak.ege.edu.tr

Abstract

A total of 35 polychaete species new to the Turkish fauna were collected during the surveys carried out to determine effects of fish farming on the zoobenthos in the Aegean Sea. Of the species encountered, *Fimbriosthenelais zetlandica*, *Eulalia mustela* and *Chaetozone gibber* are also new records for the eastern Mediterranean. In addition, 8 species were reported for the first time from the Turkish Aegean coast.

Keywords: polychaetes, new records, ecology, Aegean Sea

Introduction

The first taxonomic study on polychaetes on the Turkish coasts was carried out by Colombo (1), who listed a total of 23 species from the Dardanelles and the Sea of Marmara. Today, a total of 435 species have been recorded from the Turkish coasts.

Material and Methods

A total of 24 samples were collected at 6 stations in the Aegean Sea for evaluating impacts of fish farming activities on the distribution of zoobenthos (Fig. 1). The species were collected by an anchor dredge, except for the species from station 6 that was sampled by scuba-diving. The samples were sieved through a 0.5 mm mesh, fixed with 10% formalin and preserved in 70% ethanol. The species were deposited in the Museum of Faculty of Fisheries, Ege University, Turkey (ESFM).

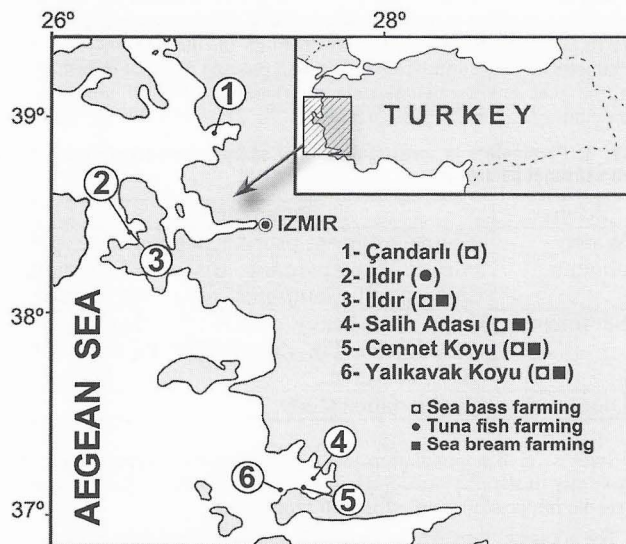


Fig. 1. Sampling sites in the Aegean Sea.

Results

Faunistic analysis of benthic material yielded a total of 35 polychaete species new to the Turkish fauna (▼) and 7 species new to the Turkish Aegean Sea fauna (●). Of the newly-recorded species, three are also new species to the eastern Mediterranean fauna (■). These species as well as their registration numbers in the Museum, number of individuals and sampling data are as follows: ▼ *Harmothoe gilchristi* Day, 1960 [ESFM-POL/02-3, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Malmgreniella ljunghmani* (Malmgren, 1867) [ESFM-POL/02-1, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ■ *Fimbriosthenelais zetlandica* (McIntosh, 1876) [ESFM-POL/02-4, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Euthalenessa oculata* (Peters, 1854) [ESFM-POL/02-38, 8.5.2002, Station 4, 26 m, sand, 1 specimen], ▼ *Arichlidon reyssi* (Katzmann, Laubier & Ramos, 1974) [ESFM-POL/02-52, 22.11.2002, Station 1, 50 m, coralligenous substrate, 40 specimens], ▼ *Eulalia tripunctata* McIntosh, 1874 [ESFM-POL/02-6, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ■ *Eulalia mustela* Pleijel, 1987 [ESFM-POL/03-1, 24.2.2003, Station 2, 45 m, mud, 4 specimens], ▼ *Paranaitis kosteriensis* (Malmgren, 1867) [ESFM-POL/03-10, 1.5.2003, Station 2, 45 m, muddy sand, 3 specimens], ▼ *Phyllodoce maculata* (Linnaeus, 1767) [ESFM-POL/02-46, 6.2.2002, Station 4, 9 m, *Posidonia oceanica* Delile, 2 specimens], ● *Phyllodoce mucosa* Oersted, 1843 [ESFM-POL/02-5, 22.11.2002, Station 1, 35 m,

muddy sand, 3 specimens; ESFM-POL/03-11, 1.5.2003, Station 2, 45 m, sandy mud, 1 specimen], ▼ *Pseudomystides limbata* Saint-Joseph, 1888 [ESFM-POL/02-39, 8.5.2002, Station 4, 26 m, sand, 1 specimen], ▼ *Pilargis verrucosa* Saint-Joseph, 1899 [ESFM-POL/02-53, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Sphaerodoridium claparedii* (Greiff, 1866) [ESFM-POL/02-18, 22.11.2002, Station 1, 50 m, coralligenous substrate, 2 specimens], ▼ *Sphaerodoropsis minuta* (Webster & Benedict, 1887) [ESFM-POL/02-20, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Syllis parapar* (San Martín & López, 2000) [ESFM-POL/01-42, 21.10.2001, Station 4, 13 m, *P. oceanica*, 3 specimens], ▼ *Aglaophamus rubella* (Michaelsen, 1896) [ESFM-POL/03-2, 9.6.2003, Station 2, 50 m, muddy sand, 1 specimen], ● *Nephtys cirrosa* Ehlers, 1868 [ESFM-POL/02-17, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ● *Nephtys hystricis* McIntosh, 1900 [ESFM-POL/01-39, 21.10.2001, Station 3, 13 m, *P. oceanica*, 4 specimens], ▼ *Glycera alba* (O. F. Muller, 1776) [ESFM-POL/01-40, 21.10.2001, Station 4, 13 m, *P. oceanica*, 1 specimen], ▼ *Glycera lapidum* Quatrefages, 1865 [ESFM-POL/02-51, 8.5.2002, Station 4, 8 m, *P. oceanica*, 1 specimen], ● *Glycera tessellata* Grube, 1863 [ESFM-POL/02-23, 22.11.2002, Station 1, 50 m, coralligenous substrate, 10 specimens], ▼ *Glycinder nordmanni* (Malmgren, 1865) [ESFM-POL/02-24, 22.11.2002, Station 1, 50 m, coralligenous substrate, 2 specimens], ▼ *Goniada maculata* Oersted, 1843 [ESFM-POL/03-3, 9.6.2003, Station 2, 50 m, sand, 6 specimens], ▼ *Scolecopsis tridentata* (Southern, 1914) [ESFM-POL/03-4, 24.02.2003, Station 2, 45 m, mud, 1 specimen], ▼ *Magelona allenii* Wilson, 1958 [ESFM-POL/02-48, 06.02.2002, Station 4, 25 m, mud, 1 specimen], ▼ *Magelona minuta* Eliason, 1962 [ESFM-POL/03-5, 24.02.2003, Station 2, 45 m, sand, 14 specimens], ▼ *Acrocirrus frontifilis* (Grube, 1860) [ESFM-POL/02-54, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Macrochaeta clavicornis* (M. Sars, 1835) [ESFM-POL/02-41, 6.2.2002, Station 4, 14 m, *P. oceanica*, 1 specimen], ▼ *Scalibregma celticum* Mackie, 1991 [ESFM-POL/02-32, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ● *Armandia cirrosa* Philippi, 1861 [ESFM-POL/02-33, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Ophelia roscoffensis* Augener, 1910 [ESFM-POL/02-43, 6.2.2002, Station 4, 14 m, *P. oceanica*, 1 specimen], ▼ *Tachytrypa jeffreysii* McIntosh, 1879 [ESFM-POL/01-43, 21.10.2001, Station 4, *P. oceanica*, 9 m, 1 specimen], ▼ *Mediomastus fragilis* Rasmussen, 1973 [ESFM-POL/02-34, 22.11.2002, Station 1, 50 m, coralligenous substrate, 1 specimen], ▼ *Neopseudocapitella brasiliensis* Rullier & Amoureux, 1979 [ESFM-POL/01-41, 21.10.2001, Station 4, 20 m, *P. oceanica*, 1 specimen], ■ *Chaetozone gibber* Chambers, 1994 [ESFM-POL/03-6, 1.5.2003, Station 2, 45 m, sand, 2 specimens], ● *Amage adpersa* (Grube, 1863) [ESFM-POL/96-37, 6.6.1996, Station 3, 12 m, *P. oceanica*, 2 specimens], ● *Amage gallasi* Marion, 1875 [ESFM-POL/02-11, 22.11.2002, Station 1, 35 m, muddy sand, 1 specimen], ▼ *Hypsicomus stichophthalmos* (Grube, 1963) [ESFM-POL/02-55, 22.11.2002, Station 1, 50 m, sandy mud, 1 specimen], ▼ *Euchone rosea* Langerhans, 1884 [ESFM-POL/03-7, 24.02.2003, Station 2, 45 m, muddy sand, 6 specimens], ▼ *Pseudofabricia aberrans* Cantone, 1970 [ESFM-POL/02-56, 9.6.2002, Station 2, 50 m, muddy sand, 1 specimen], ▼ *Pseudofabriciella longipyga* Fitzhugh, Giangrande & Simboura, 1994 [ESFM-POL/03-9, 24.2.2003, Station 2, 45 m, muddy sand, 1 specimen] and ▼ *Pseudofabriciella analis* Fitzhugh, Giangrande & Simboura, 1994 [ESFM-POL/03-8, 1.5.2003, Station 2, 45 m, muddy sand, 1 specimen].

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