

New data to the marine malacofauna from Euboea Island (Greece)

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Abstract: This work presents results of taxonomic investigations on mollusc samples collected by Martinus De Smit 1989 from the site of Euboea Island, Greece

Key words: Euboea Island, Greece, marine Mollusc fauna

Material and Methods

The examined samples were collected at 10 different sites of Euboea (Evia) Island of Greece (Fig.1, Table 1.). Orders and families were determined on the basis of the works of Poppe and G. F. Gotto (1993) Vol. I-II. The following publications have also been utilized for the determination of the collected material: Nordsieck, F. (1968, 1969, 1972), Poppe, G. T. & Gotto Y. (1991–1993), D'Angelo, G.–Garguillo, S (1978) and Ghisotti, F–Melone, G (1971, 1972, 1975).

Results

The following classes were present in the material under examination: *Polyplacophora* 1 species 1 specimen, *Scaphopoda* 1 species 4 specimen, *Lamellibranchiata*: 81 species with 1520 specimen, *Gastropoda* 105 species with 4063 specimen, *Cephalopoda* 1 species with 1 specimen.

The total specimen number was 5589. The total species number was 189. Most species had 1–53 specimen. In case of the class *Bivalvia* the species *Lapripes lacteus* had exceptionally high numbers, i.e 166. along with the 112 *Donacilla cornea*. Similarly high numbers of *Bittium scabrum* (371 specimens), *Bittium reticulatum* (587), *Bittium latreilli* (329) and *Rissoa ventricosa* (2697) have been observed in the class of gastropods.

Besides the one families of scaphopods and cephalopods, 31 families of gastropods and 29 families of bivalves have come to light. From the collection sites the Golf van Edipsos (3) with 48 gastropod species and the Golf Ag Apostoli (7) with 53 gastropod species seemed to have been the richest in species. Three sites yielded 49 bivalve species. 44 species of bivalves have been collected from the collection site of Chalkida (5).

Summary

On the of island of Euboea 189 mollusc species with 5589 specimen were collected from 10 different collection sites. Taxonomically speaking the classes of *Gastropoda* (105 species with 4063 specimen) and *Bivalvia* (81 species with 1520 specimen) seemed to have been the richest groups. Furthermore, the number of gastropod families were 31 and 29 of bivalves, respectively.

Three collection sites were the richest in species numbers (*Gastropoda* 48,53, *Bivalvia* 49,44): Golf van Edipsos, Golf Ag Apostoli and Chalkida.

The authors examined the marine malacofauna of Euboea (Evia) Island of Greece (Fig.1, Table 1.) in their work. From the ten different collection sites 189 mollusc species with 5589 specimen

have come to light. Taxonomically these species belong to the following classes: *Polyplacophora*, *Scaphopoda*, *Lammelibranchiata* or *Bivalvia*, *Gastropoda* and *Cephalopoda*. Only 1–1 species have been collected from the first two and the final classes. 31 gastropod and 29 bivalve families have been determined (*Gastropoda*: 105 species with 4063 specimen and *Bivalvia*: 81 species with 1520 specimen). Taxonomically speaking the most species rich collection sites were those of Golf van Edipsos (3) Golf Ag Apostoli (7) in case of the gastropods, while the Golf van Edipsos and Chalkida (5) sites yielded the most bivalves (Table 1.). Some species have specimen numbers higher than 50 (*Bivalvia*: *Loripes lacteus* 166, *Donacilla cornea* 112, *Gastropoda*: *Bittium scabrum* 371, *Bittium reticulatum* 587, *Bittium latreilli* 329 and *Rissoa ventricosa* 2697.)

Table 1.: The list of the Collected species

	1	2	3	4	5	6	7	8	9	10
CI: Polyplacophora:										
F: Chitonidae										
Chiton olicvaceus (Spengler 1797)			+							
CI: Gastropoda: Haliotidae										
Haliotis tuberculata form lamellosa Lamarck 1822			+							+
Haliotis lamellosa Lamarck 1822									+	
F: Fissurellidae										
Diodora italica (DeFrance 1820)	+		+				+			
Diodora gibbetula (Lamarck 1822)			+						+	
Emarginula elongata O. G. Costa 1828							+			
F: Patellidae										
Patella coerulea Linné 1758			+				+		+	
F: Trochidae										
Clanculus cruciatus (Linné 1758)			+				+		+	
Clanculus corallinus (Gmelin 1791)									+	
Gibbula ardens (Von Salis 1793)			+							
Gibbula adansonii (Payraudeau 1826)			+				+		+	
Gibbula divaricata (Linné 1767)			+	+	+					
Gibbula fanulum (Gmelin 1791)									+	
Gibbula magus (Linné 1767)										
Gibbula racketti (Payraudeau 1826)			+				+			
Gibbula rarilineata (Michaud 1829)			+				+		+	
Gibbula richardi (Payraudeau 1826)			+				+			+
Gibbula varia (Linné 1767)							+		+	+
Gibbula philberti (Recluz 1843)					+					
Jujubinus striatus (Linné 1767)	+		+							
Jujubinus experatus (Pennant 1777)			+		+		+		+	
Monodonta turbinata (Born 1780)							+		+	+
Monodonta articulata (Lamarck 1822)							+			
F: Phasianellidae										
Tricolia pullus (Linné 1758)			+	+			+		+	
F: Neritidae										
Smaragdina viridis (Linné 1758)			+		+		+			
F: Littorinidae										
Littorina neritoides (Linné 1758)			+		+		+			
F: Tornidae										
Tornus subcarinatus (Montagu 1803)					+					

	1	2	3	4	5	6	7	8	9	10
F: Rissiodae										
Alvania aspera (Philippi 1844)							+			
Alvania cancellata (da Costa 1778)							+			
Alvania carinata (da Costa 1778)			+							
Alvania cimex (Linné 1758)			+		+		+		+	
Alvania lactea (Michaud 1830)			+		+		+			
Alvania montagui (Payraudeau 1826)			+		+		+		+	
Alvania reticulata (Michand 1808)							+			
Rissoa auriscalpum (Linné 1758)					+		+			
Rissoa guerinii (Récluz 1843)			+							
Rissoa pulchella (Philippi 1836)							+			
Rissoa auriformis (Pallary 1904)					+					
Rissoa labiosa (Montagu 18039)							+			
Rissoa lia (Monterosato 1884)					+		+			
Rissoa monodonta (Philippi 1836)			+		+					
Rissoa similis Scacchi 1836			+		+		+			
Rissoa cancellta (da Costa 1778)										
Rissoa elata (Philippi 1844)			+				+			
Rissoa splendidia Eichwald 1830										
Rissoa violacea Desmarest 1814							+			
Rissoa ventricosa Desmarest 1814					+		+			
Rissoa variabilis (Mühlfeld 1824)			+				+			
F: Rissoinidae										
Barleia rubra (Adams 1795)					+					
Rissoina bruguierei (Payraudeau 1826)			+		+		+			
F: Vermetidae										
Petalconchus glomeratus (Linné 1758)									+	
Serpulorbis arenaria (Linné 1758)			+							
F: Cerithiidae										
Bittium latreilli (payraudau 1826)							+			
Bittrium reticulatum (da Costa 1778)			+		+		+		+	
Bittrium scabrum (Olivi 1782)							+			
Cerithium alucaster (Brocchi 1814)										
Cerithium rupestre (Risso 1826)										
Cerithium vulgatum (Bruguère 1792)					+		+			+
F: Cerithiopsidae										
Cerithiopsis horrida (Monterosato 1874)					+					
F: Calyptraeidae										
Calyptraea chinensis (Linné 1758)					+					
F: Aporrhaidae										
Aporrhais pespelecani (Linné 1758)			+							

	1	2	3	4	5	6	7	8	9	10
F: Naticidae										
<i>Lunatia quillemini</i> (Payrandeau 1826)							+			
<i>Naticarius cruentatus</i> (Martyn 1784)			+				+		+	
<i>Naticarius dillwyni</i> (Payraudeau 1826)									+	+
F: Cassidae										
<i>Cassidaria echinophora</i> (Linné 1758)	+		+							
F: Muricidae										
<i>Bolinus brandaris</i> (Linné 1758)	+		+						+	
<i>Hexaplex trunculus</i> (Linné 1758)			+						+	
<i>Ocenebrina edwardsii</i> (Payraudeau 1826)			+							
<i>Trophonopsis muricata</i> (Montagu 1803)							+			
F: Buccinidae										
<i>Cautharus scaber</i> (Monterosato 1875)							+			
<i>Pisania striata</i> (Gmelin 1791)			+	+						
F: Columbelloidea										
<i>Columbella rustica</i> (Linné 1758)			+		+		+		+	
<i>Mitrella gervillei</i> (Payraudeau 1826)							+			
F: Nassiriidae										
<i>Cyclope neritea</i> (Linné 1758)					+				+	
<i>Nassarius corniculus</i> (Olivi 1792)			+							
<i>Nassarius cuweieri</i> (Payrandeau 1826)							+		+	
<i>Nassarius incrassatus</i> (Ström 1768)			+				+			
<i>Nassarius mutabilis</i> (Linné 1758)			+				+			
F: Fasciolaridae										
<i>Fasipus labronicus</i> (Monterosato 1884)					+					
<i>Fusinus syracusianus</i> (Linné 1758)			+	+						
F: Marginellidae										
<i>Gibberula miliaria</i> (Linné 1758)					+		+			
F: Mitridae										
<i>Mitra cornicula</i> (Linné 1758)							+			
<i>Mitra tricolor</i> (Gmelin 1791)							+			
F: Turridae										
<i>Bela ginmania</i> (Risso 1826)					+		+			
<i>Carmanmondia gracilis</i> (Montagu 1803)							+			
<i>Headropleura septangularis</i> (Montagu 1803)			+							
<i>Mangelia attenuata</i> (Montagu 1803)			+				+			
<i>Mangelia paciniana</i> (Payraudeau 1826)			+				+			
<i>Mangelia paciniana</i> (Calcara 1839)							+			
<i>Raphitoma reticulata</i> (Reiner 1804)							+			
<i>Raphitoma linearis</i> (Montagu 1803)			+							
<i>Raphitoma bicolor</i> (Risso 1826)							+			
<i>Raphitoma purpurea</i> (Montagu 1803)							+			
<i>Raphitoma horida</i> (Monterosato 1884)			+							

	1	2	3	4	5	6	7	8	9	10
F: Conidae										
Conus ventricosus Gmelin 1791			+		+				+	
F: Triphoriidae										
Triphora perversa (Linné 1758)					+		+			
F: Epitoniidae										
Circostrema cochlea (Sowerby 1847)							+			
Epitonium commutatum (Monterosato 1877)									+	
Epitonium tenuicosta (Michand 1829)			+							
Epitonium communis (Lamarck 1822)			+						+	
F: Ringiculidae										
Ringicula auriculata (Grove 1811)					+					
F: Bullidae										
Bulla strata Bruguiere 1791			+							
F: Pyramidellidae										
Odostomia conoidea (Brocchi 1814)							+			
Turbonilla lactea (Linné 1776)							+			
Number of species	4	2	48	3	24	-	53	12	26	6
	1	2	3	4	5	6	7	8	9	10
CI: Scaphopoda:										
F: Dentaliidae										
Dentalium dentale (Linné 1767)			+		+					
CI: Bivalvia										
F: Nuculidae										
Nucula nucleus (Linné 1758)							+			
F: Arcidae										
Arca noae (Linné 1758)			+				+			
Arca tetragona (Poli 1795)							+			
Barbatia barbata (Linné 1758)									+	
F: Noetidae										
Striarca lactea (Linné 1758)			+						+	
F: Glycymeridae										
Glycymeris bimaculata (Poli 1795)						+				
Glycymeris glycymeris (Linné 1758)								+		
Glycymeris pilosa (Linné 1767)	+									
Glycymeris violacescens (Lamarck 1819)	+									+

	1	2	3	4	5	6	7	8	9	10
F: Mytilidae										
Gregariella petagna (Scacchi 1832)			+		+					
Modiolus barbatus (Linné 1758)			+				+		+	
Modiolus modiolus (Linné 1758)			+							
Musculus discors (Linné 1767)							+			
Mytilaster solidus (Martin in Monterosato 1872)			+				+		+	
Mytilus galloprovincialis (Lamarck 1819)		+	+		+		+			
Musculus subpictus (Kontraine 1835)			+		+					
F: Pinnidae										
Pinna mobilis (Linné 1758)			+							
F: Pectinidae										
Chlamys glabra (Linné 1758)		+	+				+			
Chlamys hyalina (Poli 1795)									+	
Chlamys varia (Linné 1758)			+		+				+	
Pecten jacobaeus (Linné 1758)			+							
F: Spondylidae										
Spondylus gaederopus (Linné 1758)										+
F: Anomiidae										
Anomia ephippium (Linné 1758)			+		+		+		+	
Pododesmus aculeatus (O.F.Müller 1774)			+							
	1	2	3	4	5	6	7	8	9	10
F: Limidae										
Limaria inflata (Link 1807)									+	+
F: Ostreidae										
Crassostrea gigas (Thunberg 1793)					+					
Ostrea edulis (Linné 1758)			+		+					
F: Lucinidae										
Ctena decussata (O.G.Costa 1829)			+		+		+		+	
Laripes lucinalis (Lamarck 1818)			+		+		+			
Lucinella divaricata (Linné 1758)			+		+		+			
F: Chamidae										
Chama pryphiodes (Linné 1758)			+		+				+	
Pseudochama gryphina (Lamarck 1819)			+						+	
F: Kelliidae										
Bornia sebetia (O.G.Costa 1829)			+		+				+	
F: Carditidae										
Cardita calyculata (Linné 1758)							+			
Cardites antiquata (Linné 1758)					+				+	

	1	2	3	4	5	6	7	8	9	10
Glans trapezia (Linné 1758)			+		+					
Cardites antiquata (Linné 1758)			+							
F: Cardiidae										
Acanthocardia tuberculata (Linné 1758)			+		+				+	
Cerastoderma edule (Linné 1758)					+					
Cerastoderma glaucum (Poiret 1789)					+					
Laevicardium oblongum (Gmelin 1791)		+								
Parvicardium exquum (Gmelin 1791)			+		+		+			
Parvicardium minimum (Philippi 1836)							+			
Plagiocardium papillosum (Poli 1795)			+		+		+		+	
F: Mactridae										
Mactra corallira (Linné 1758)					+					
Spisula subtruncata (da Costa 1778)			+							
F: Mesodesmatidae										
Donacilla cornea (Poli 1795)			+		+		+		+	
F: Solenidae										
Solen marginatus (Pulteney 1799)					+					
F: Phariidae										
Ensis minor (Chenu 1843)					+					
Ensis ensis form sicula van Urk 1964			+		+					
Ensis ensis (Linné 1758)					+					
	1	2	3	4	5	6	7	8	9	10
F: Tellinidae										
Gastrana fragilis (Linné 1758)			+							
Macoma cumana (O.G.Costa 1829)					+		+			
Tellina donacina (Linné 1758)							+			
Tellina incarnata (Linné 1758)			+							
Tellina nitida (Poli 1791)					+					
Tellina planata (Linné 1758)					+					
Tellina pulchella Lamarck 1818			+							
F: Donacidae										
Donax semistriatus (Poli 1795)					+					
Donax trunculus (Linné 1758)					+					
Donax venustus (Poli 1795)			+		+		+		+	
F: Psammobiidae										
Gari depressa (Pennant 1777)			+							
F: Veneridae										
Callista chione (Linné 1758)			+							
Chamelea gallina (Linné 1758)			+		+		+		+	
Chamelea radiata (Brocchi 1814)			+		+				+	

Dosinia exoleta (Linné 1758)			+	+										
Dosinia lupinus (Linné 1758)					+			+						
Gouldia minima (Montagu 1803)										+				
Irus irus (Linné 1758)					+								+	
Pitar rudis (Poli 1795)					+		+						+	
Paphia aurea (Gmelin 1791)					+		+		+				+	
Tapes decussatus (Linné 1758)					+		+							
Timoclea ovata (Pennant 1777)														
Venerupis corrugata (Gmelin 1791)					+		+						+	
Venerupis pallustrata (Montagu 1803)										+				
Venusn verrucosa (Linné 1758)			+	+			+						+	
F: Petricolidae														
Petricola lajonkoriei (Payraudeau 1826)					+		+						+	
F: Corbulidae														
Corbula gibba (Olivi 1792)					+		+							
F: Gastrochaenidae														
Gastrochenia dubia (Pennant 1777)								+		+				
F: Hiattellidae														
Hiattella rugosa (Linné 1767)					+					+				
F: Thraciidae														
Thracia corbuloides Deshayes 1830								+						
Number of species	2	5	49	–	44	1	26	1	26	3				

Összefoglalás

Az Euboea sziget 10 gyűjtőhelyéről 189 faj 5589 egyed került elő. A *Gastropoda* (105 faj 4063 egyes) a *Bivalvia* (81 faj 1520 egyed) voltak a leggazdagabb rendszertani kategóriák a familiák száma *Gastropoda* 31, *Bivalvia* 29.

Golf van Edipsos, Golf Ag Aposoli valamint *Bivalvia* esetében Chalkida gyűjtőhelyekről került elő a legtöbb faj (*Gastropoda* 48, 53, *Bivalvia* 49, 44).

A Görögországhoz tartozó Euboea = Evia sziget tengeri faunáját dolgozták fel a szerzők. (1. ábra, 1. táblázat). A Sziget 10 gyűjtőhelyéről 189 faj 5589 egyed került elő. A vizsgált Classisok közül: *Polyplacophora*, *Scaphopoda Lamellibranchiata*, *Gastropoda*, *Cephalopoda*. Az első kettő és az utolsó osztályból 1–1 faj került elő. A *Gastropoda* 31, a *Bivalvia* 29 családdal szerepel a gyűjtésekben.

(*Gastropoda* 105 faj 4063 egyed, *Bivalvia* 81 faj 1520 egyed). Leggazdagabb a Golf van Edipsos (3gyh), Golf Ag. Aposotli (7gyh) *Gastropodákban*, *Bivalviában* az Edipsos és Chalkida (5gyh) gyűjtőhelyek (1. táblázat). Legtöbb egyed néhány faj esetében haladja meg az 50-et (*Bivalvia*: *Loripes lacteus* 166, *Donacilla cornea* 112, *Gastropoda Bittium scabrum* 371, *Bittium reticulatum* 587, *Bittium latreilli* 329 és *Rissoa ventricosa* 2697.)

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