www.trjfas.org
ISSN 1303-2712
Turkish Journal of Fisheries and Aquatic Sciences 12: 171-184 (2012) DOI: 10.4194/1303-2712-v12_1_20

SHORT PAPER

Mollusc Fauna of Iskenderun Bay with a Checklist of the Region

Banu Bitlis Bakır[1], Bilal Öztürk[1*], Alper Doğan[1], Mesut Önen[1]

[1] Ege University, Faculty of Fisheries, Department of Hydrobiology Bornova, Izmir.

* Corresponding Author: Tel.: +90. 232 3115215; Fax: +90. 232 3883685
E-mail: bilal.ozturk@ege.edu.tr

Received 27 June 2011
Accepted 13 December 2011

Abstract

This study was performed to determine the molluscs distributed in Iskenderun Bay (Levantine Sea). For this purpose, the material collected from the area between the years 2005 and 2009, within the framework of different projects, was investigated. The investigation of the material taken from various biotopes ranging at depths between 0 and 100 m resulted in identification of 286 mollusc species and 27542 specimens belonging to them. Among the encountered species, *Vitreolina* cf. *perminima* (Jeffreys, 1883) is new record for the Turkish molluscan fauna and 18 species are being new records for the Turkish Levantine coast.

A checklist of Iskenderun mollusc fauna is given based on the present study and the studies carried out beforehand, and a total of 424 moluscan species are known to be distributed in Iskenderun Bay.

Keywords: Levantine Sea, Iskenderun Bay, Turkish coast, Mollusca, Checklist

İskenderun Körfezi'nin Mollusca Faunası ve Bölgenin Tür Listesi

Özet

Bu çalışma İskenderun Körfezi (Levanten Denizi)'nde dağılım gösteren Mollusca türlerini tespit etmek için gerçekleştirilmiştir. Bu amaçla, 2005 ve 2009 yılları arasında sürdürülen değişik proje çalışmaları kapsamında bölgeden elde edilen materyal incelenmiştir. 0-100 m arasındaki derinliklerin farklı biyotoplarından alınan materyalin incelenmesi sonucu, 286 Mollusca türü ve bu türlere ait toplam 27542 birey tespit edilmiştir. Saptanan türler arasında *Vitreolina* cf. *perminima* (Jeffreys, 1883) Türkiye Mollusca faunası için ve 18 tür ise Türkiye'nin Levanten Denizi kıyıları için ilk defa rapor edilmektedir.

Bu çalışmaya ve bölgede daha önce gerçekleştirilen araştırmalara dayanılarak, İskenderun Körfezi Mollusca tür listesi hazırlanmış ve bölgede toplam 424 Mollusca türünün dağılım gösterdiği belirlenmiştir.

Anahtar Kelimeler: Levanten Denizi, İskenderun Körfezi, Türkiye kıyıları, Mollusca, Tür listesi.

Introduction

Iskenderun Bay is located on the northeast end of the Levantine Sea (Eastern Mediterrnean), and it has become an important centre for marine transportation due to the Iskenderun port, especially after the construction of two pipelines from Batman (Turkey) and Iraq to oil storage and filling plants in 1967 and 1974 (Doygun and Alphan, 2006).

Since 1869 the eastern Mediterranean is connected with the Red Sea through the Suez Canal, which are two seas with different ecological features. With the opening of the Suez Canal faunal and floral migrations by different ways have started from the Red Sea to the Mediterranean, which process has fairly increased the biological diversity, especially in the eastern Mediterranean, during the last decades. At the present, a total of 955 alien species are known in the Mediterranean, of which molluscs constitute the most significant part with 212 species (Zenetos et al., 2010a).

The Turkish Levantine coast (southern coast of Turkey), where is found Iskenderun Bay, is one of the deeply affected region by the migration of alien species in the Levantine Sea, and a great part of the studies carried out in the region are focused on alien

species. According to Çinar et al. (2011), among the 400 alien species known to be distributed along the Turkish coasts, 105 species are molluscs, of which 98 species are distributed on the Turkish Levantine coast.

The work performed by Swennen (1961) is one of the preliminary studies on the molluscan fauna distributed along the Turkish Levantine coast. The author subjected the opisthobranchs in Antalya and Mersin Bays, and reported 22 species from the area. Afterwards this work was fallowed by several other studies, i.e., Falchi (1974), Blöcher (1983), Lindner (1987), Buzzurro and Greppi (1994, 1996), Buzzurro et al. (1995), Tringali and Villa (1990), Yokeş and Rudman (2004), Öztürk and Aartsen (2006), Öztürk and Can (2006) and Özvarol et al. (2010).

Since the 3rd quarter of the last century, Iskenderun Bay has been became a subject of different studies on alien species (Barash and Danin, 1977; Kinzelbach, 1985; Enzenross and Enzenross, 1987; Enzenross et al., 1990; Aartsen et al., 1989; Micali and Palazzi, 1992; Aartsen and Recevik, 1998; Çevik and Öztürk, 2001; Delongoville and Scaillet, 2007; Albayrak, 2010), although the informations on the native molluscs of the bay are based on few studies (i. e., Çevik and Sarıhan, 2004; Delongueville and Scaillet, 2006) only.

In the present paper was examined the molluscs of Iskenderun Bay, and a checklist of the mollusc fauna of the bay, based on the present study and literatures, is provided.

Materials and Methods

The material studied in this paper was obtained within different projects with various purposes conducted to several areas in Iskenderun Bay (Figure 1). The material was collected at 69 stations in depths from 0 to 100 m between the years 2005 and 2009 by using sampling gears such as grab, dredge, trawl and beam trawl.

Fixed material in 10% seawater-formalin solution was rinsed through a sieve with 0.5mm mesh size in the laboratory and sorted to the taxonomic groups under a stereomicroscope, and molluscs were identified to species level. Biotopes and some other characteristics of the sampled stations were given in Table 1.

With the aim to form a checklist of the species known from Iskenderun Bay, apart from those found in this study, was benefited from various literatures covered the studied area. In the column "references" (Table 2) are given the literatures in which the species in question was firstly indicated from the investigated area, along with the species name if it was changed. The systematics of the species in Table 2 follow CLEMAM (Check List of European Marine

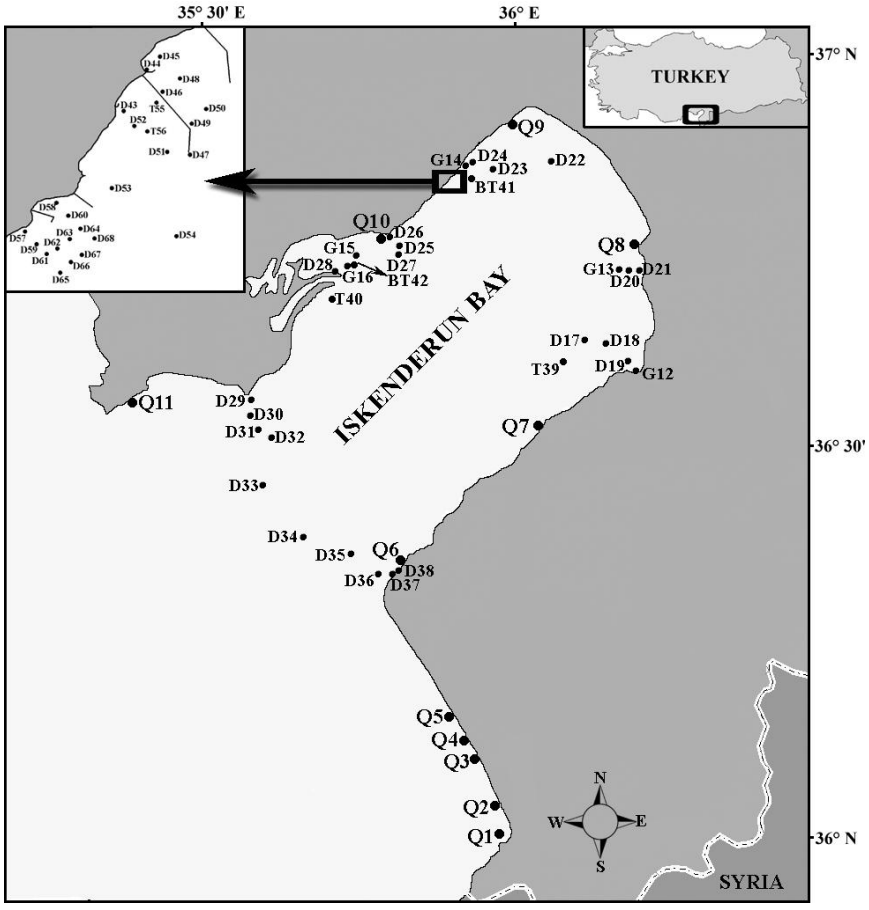

Figure 1. Map of the study area with location of the sampling stations.

Table 1. Coordinates, sampling dates, sampling methods, depth range and biotope characteristics of the stations

Stations	Coordinates		Date	Sampling method	Depth range (m)	Biotopes
	Lat.	Long.				
				By hand	Mediolittoral zone-12	Sand
Q1	36º00'36''N	35º58'34''E	12-09-2005	By hand	0.2-3	*Jania rubens*
				By hand	Supralittoral zone	Rock
				Randomly	0.2-5	Rock
				Randomly	1	Shell
Q2	36º02'47''N	35º57'47''E	11-09-2005	By hand	0.5	Gravels
Q3	36º06'01''N	35º56'03''E	12-09-2005	By hand	4	Sand
				Randomly	0.5	Sand
Q4	36º07'37''N	35º55'00''E	11-09-2005	Randomly	0.5	Rope
				By hand	Supralitt.	Rock
Q5	36º08'30''N	35º54'30''E	12-09-2005	By hand	0.3	*J. rubens*
				Randomly	0.3-1	Rock
				Randomly	1-3	Stone
				By hand	0.1	*Cystoseira* spp.
				By hand	0.5	*J. rubens*
Q6	36º19'30''N	35º47'00''E	13-09-2005	By hand	Supralitt.	Rock
				Randomly	2-3	Sand
				Randomly	0.2-3	Rock
				Randomly	0.2	Stone
				Randomly	2	Sponge
				Grap	1	Sand
Q7	36º31'36''N	36º02'03''E	13-09-2005	By hand	2	Sand
				By hand	1	*Cystoseira* spp.
				By hand	Supralitt.-0.1	Rock
				By hand	0-1	*Ulva* sp.
				By hand	0.1	*Padina pavonica*
				Randomly	0-1	Rock
				Randomly	0-3	Stone
				Randomly	0.5	Rope
Q8	36º45'40''N	36º11'58''E	14-09-2005	By hand	Mediolitt.-5	Sand
				By hand	1	*Cystoseira* spp.
				By hand	Supralitt.	Rock
				Randomly	1-3	Rock
				Randomly	0-1	Stone
Q9	36º54'22''N	35º58'05''E	14-09-2005	By hand	Mediolitt.-5	Sand
				By hand	Supralitt.-Mediolitt.	Rock
				By hand	0.2	*P. pavonica*
				Randomly	0.1-2	Rock
				Randomly	1	Sponge
				Randomly	0.1-3	Pier pole
Q10	36º45'59''N	35º47'18''E	15-09-2005	By hand	1 -5	Sand
				By hand	0.5	*J. rubens*
				Randomly	0-1	Stone
				Randomly	0-3	Rock
				Randomly	1	Sponge
				Randomly	0.2	Rope
Q11	36º33'20''N	35º22'44''E	15-09-2005	By hand	Mediolitt.-1	Sand
				By hand	2	*Dictyota dicotoma*
				By hand	1	*J. rubens*
				Randomly	Supralitt.-Mediolitt.	Rock
				Randomly	0.1-3	Coralligenous
				Randomly	0.1-3	*Stypopodium schimferi*
G12	36º35'61''N	36º11'14''E	09-09-2005	Grap	8	Mud
			10-11-2007	Randomly	6	Wood
G13	36º43'32''N	36º09'49''E	09-09-2005	Grap	50	Sandy mud
G14	36º51'14''N	35º55'70''E	09-09-2005	Grap	25	Mud
G15	36º44'14''N	35º44'52''E	10-09-2005	Grap	50	Mud
G16	36º43'73''N	35º43'65''E	10-09-2005	Grap	25	Muddy sand
D17	36º38'17''N	36º06'79''E	08-09-2005	Dredge	72	Mud
D18	36º37'58''N	36º08'74''E	08-09-2005	Dredge	50	Mud
D19	36º36'62''N	36º10'85''E	08-09-2005	Dredge	25	Mud
D20	36º43'52''N	36º10'04''E	09-09-2005	Dredge	25	Muddy sand
D21	36º43'04''N	36º11'46''E	09-09-2005	Dredge	11	Stone
D22	36º51'05''N	36º03'50''E	09-09-2005	Dredge	36	Mud
D23	36º51'23''N	35º57'13''E	09-09-2005	Dredge	34	Mud
D24	36º51'74''N	35º55'02''E	09-09-2005	Dredge	10	Muddy sand
D25	36º45'97''N	35º48'30''E	09-09-2005	Dredge	25	Sandy mud
				Dredge	25	Stone

Table 1. (continued)

Stations	Coordinates		Date	Sampling method	Depth range (m)	Biotopes
	Lat.	Long.				
D26	36º45’66’’N	35º48’47’’E	09-09-2005	Dredge	50	Sandy mud
D27	36º46’00’’N	35º47’75’’E	10-09-2005	Dredge	10	Muddy sand
				Dredge	10	Rock
D28	36º43’61’’N	35º42’73’’E	10-09-2005	Dredge	9	Muddy sand
D29	36º33’36’’N	35º34’28’’E	10-09-2005	Dredge	10	Muddy sand
D30	36º32’84’’N	35º34’61’’E	10-09-2005	Dredge	25	Muddy sand
D31	36º31’93’’N	35º35’26’’E	10-09-2005	Dredge	50	Mud
D32	36º30’20’’N	35º36’39’’E	10-09-2005	Dredge	70	Mud
D33	36º27’40’’N	35º35’24’’E	10-09-2005	Dredge	100	Mud
D34	36º23’63’’N	35º39’43’’E	10-09-2005	Dredge	100	Mud
D35	36º21’25’’N	35º44’45’’E	10-09-2005	Dredge	75	Sandy mud
D36	36º20’11’’N	35º46’94’’E	10-09-2005	Dredge	50	Muddy sand
D37	36º20’72’’N	35º48’13’’E	10-09-2005	Dredge	25	Muddy sand
D38	36º20’95’’N	35º48’71’’E	10-09-2005	Dredge	10	Coralligenous
				Dredge	10	Sand
T39	36º37’26’’N	36º04’68’’E	08-09-2005	Trawl	60	Stone
T40	36º40’83’’N	35º42’99’’E	10-09-2005	Trawl	50	Mud
BT41	36º51’21’’N	36º55’70’’E	09-09-2005	Beam Trawl	13-30	Mud
BT42	36º43’73’’N	35º43’67’’E	10-09-2005	Beam Trawl	24	Mud
D43	36°51’35”N	35°54’45”E	28-09-2009	Dredge	3.4	Sandy mud
				Dredge	Mediolitt.	Sand
D44	36°52’10”N	35°55’07”E	28-09-2009	Dredge	4.4	Sandy mud
				Dredge	Supralitt.	Rock
D45	36°52’23”N	35°55’25”E	28-09-2009	Dredge	4	Sandy mud
				Dredge	Supralitt.-Mediolitt.	Rock
D46	36°51’52”N	35°55’28”E	28-09-2009	Dredge	8.6	Sandy mud
				Dredge	Mediolitt.	Rock
D47	36°50’57”N	35°55’47”E	28-09-2009	Dredge	30	Sandy mud
				Dredge	Supralitt.-Mediolitt.	Rock
D48	36°52’04”N	35°55’47”E	28-09-2009	Dredge	11.7	Silt
D49	36°51’24”N	35°56’00”E	28-09-2009	Dredge	25.5	Silt
D50	36°51’37”N	35°56’16”E	28-09-2009	Dredge	25.4	Silt
D51	36°50’59”N	35°55’33”E	28-09-2009	Dredge	24	Silt
D52	36°51’22”N	35°54’57”E	28-09-2009	Dredge	7.3	Sand
D53	36°50’27”N	35°54’32”E	28-09-2009	Dredge	12.2	Silt
D54	36°49’45”N	35°55’43”E	28-09-2009	Dredge	37	Silt
T55	36°51’44”N	35°55’23”E	28-09-2009	Trawl	8	Muddy sand
T56	36°51’19”N	35°55’13”E	28-09-2009	Trawl	10	Muddy sand
D57	36°49’82”N	35°52’95”E	11-08-2009	Dredge	4.5	Sand
D58	36°50’24”N	35°53’52”E	11-08-2009	Dredge	3.3	Sand
D59	36°49’63”N	35°53’16”E	11-08-2009	Dredge	7.2	Mud
D60	36°50’05”N	35°53’74”E	11-08-2009	Dredge	6.6	Muddy sand
D61	36°49’49”N	35°53’35”E	11-08-2009	Dredge	9.6	Muddy sand
D62	36°49’57”N	35°53’54”E	11-08-2009	Dredge	10.2	Muddy sand
D63	36°49’71”N	35°53’77”E	11-08-2009	Dredge	11.5	Muddy sand
D64	36°49’86”N	35°53’96”E	11-08-2009	Dredge	11.7	Muddy sand
D65	36°49’22”N	35°53’59”E	11-08-2009	Dredge	18	Mud
D66	36°49’37”N	35°53’79”E	11-08-2009	Dredge	19	Mud
D67	36°49’47”N	35°53’99”E	11-08-2009	Dredge	18.5	Mud
D68	36°49’72”N	35°54’22”E	11-08-2009	Dredge	18.5	Mud
D69	36°49’82”N	35°52’95”E	11-08-2009	Scuba diving	0-7	Muddy sand

Mollusca)

The studied specimens, with individual catalogue numbers, have been deposited in the museum collections of the Faculty of Fisheries (ESFM), Ege University (Izmir-Turkey).

Results and Discussion

As a result of faunistic analysis of the material sampled from Iskenderun Bay, was identified 286 species. Gastropods are dominant in the region with 197 species, following by Bivalvia 81, Scaphopoda 3, Polyplacophora 5 species. Among the identified species *Vitreolina* cf. *perminima* (Jeffreys, 1883) is new record for the Turkish mollusc fauna and 18 species [*Lepidochitona monterosatoi* Kaas & Van Belle, 1981, *Jujubinus montagui* (Wood, 1828), *Bittium jadertinum* (Brusina, 1865), *Bittium scabrum* (Olivi, 1792), *Alvania testae* (Aradas & Maggiore, 1844), *Pusillina lineolata* (Michaud, 1830), *Setia fusca* (Philippi, 1844), *Circulus striatus* (Philippi, 1836), *Circulus tricarinatus* (Wood, 1848), *Hyala vitrea* (Montagu, 1803) *Vermetus granulatus* (Gravenhorst, 1831), *Monophorus erythrosoma* (Bouchet & Guillemot, 1978), *Epitonium clathratulum* (Kanmacher, 1798), *Turbonilla acutissima* Monterosato, 1884, *Phaxas pellucidus*

Table 2: List of the molluscan species distributed in Iskenderun Bay along with the first date of each species reported from the area, depth range and biotope characteristics (The species indicated in bold are found in the present study)

Species	References	Biotope	Depth (m)	Stations
POLYPLACOPHORA				
Lepidopleurus cajetanus (Poli, 1791)	Çevik and Ergüden, 2004: 89			
***Ischnochiton rissoi* (Payraudeau, 1826)**	Çevik and Ergüden, 2004: 89	B	0.2	Q6
***Lepidochitona caprearum* (Scacchi, 1836)**	Çevik and Ergüden, 2004: 89 [*Lepidochitona corrugata* (Reeve, 1848)]	C	0.2	Q1
***Lepidochitona monterosatoi* Kaas & Van Belle, 1981**		B	0.1-5	Q1, Q9
Chiton corallinus (Risso, 1826)	Çevik and Ergüden, 2004: 89			
***Chiton olivaceus* Spengler, 1797**	Çevik and Ergüden, 2004: 89	B	0.2-5	Q1, Q6, Q11
Acanthochitona crinita (Pennant, 1777)	Çevik and Ergüden, 2004: 89			
***Acanthochitona fascicularis* (Linnaeus, 1767)**	Çevik and Ergüden, 2004: 89	B, C	1-3	Q10, Q11
GASTROPODA				
***Patella caerulea* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	A, B, C	0-7	Q1, Q5-Q11, D44, D45, D47, D69
***Patella rustica* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	B	0.5	Q2
***Patella ulyssiponensis* Gmelin, 1791**	Çevik and Sarıhan, 2004: 95	B, C	1-3	Q8, Q10
***Tectura virginea* (Müller, 1776)**		B	11	D21
[A]***Smaragdia souverbiana* (Montrouzier, 1863)**	Giunchi et al., 2001: 47	A	10	D38
***Smaragdia viridis* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	Mediolitt.-50	Q9-Q11, D18, D25, D26, D37, D38, D43, D45, D52, D53, D61, D62
***Diodora graeca* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	Mediolitt.-75	Q9, Q10, D35
[A]***Diodora ruppellii* (Sowerby, 1835)**	Enzenross et al., 1990: 291	A	7-10	Q9, D27
Haliotis tuberculata lamellosa Lamarck, 1822	Çevik and Sarıhan, 2004: 95			
[A]*Trochus erithreus* Brocchi, 1821	Engl, 1995: 46			
***Clanculus corallinus* (Gmelin, 1791)**		A	4.5	D57
***Clanculus cruciatus* (Linnaeus, 1758)**		A	3.3-50	D20, D26, D58
***Clanculus jussieui* (Payraudeau, 1826)**		A	1-10	Q11, D38
***Gibbula adansonii* (Payraudeau, 1826)**		A	6.6	D60
***Gibbula ardens* (Salis, 1793)**		A	1-50	Q11, G13, D20, D36, D62
***Gibbula leucophaea* (Philippi, 1836)**		A	25	D25
***Gibbula philberti* (Recluz, 1843)**		B	Supralitt.-Mediolitt.	D47
***Gibbula rarilineata* (Michaud, 1829)**		B	Supralitt.-Mediolitt.	D47
***Gibbula turbinoides* (Deshayes, 1835)**		A	25	D20
***Gibbula varia* (Linnaeus, 1758)**		A, B	0-50	Q10, D26, D38
Gibbula umbilicaris (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Gibbula divaricata* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A, B	0-4	Q8, D45, D47
***Phorcus richardi* (Payraudeau, 1826)**		B	0.3-1	D47, Q5
***Phorcus mutabilis* (Philippi, 1846)**		A	30	D47
***Osilinus articulatus* (Lamarck, 1822)**	Çevik and Sarıhan, 2004: 95 (*Monodonta articulata* Lamarck, 1822)	A, B	0.2-4	Q6, Q10, D45-D47
***Osilinus turbinatus* (Born, 1778)**	Çevik and Sarıhan, 2004: 95 [*Monodonta turbinata* (Born, 1778)]	A, B	0-7	Q1, Q5-Q8, Q11, D44, D45, D47, D69
***Jujubinus exasperatus* (Pennant, 1777)**		A	1-50	Q10, Q11, G13, D20, D36, D37
****Jujubinus montagui* (Wood, 1828)**		A	75	D35
***Calliostoma conulus* (Linnaeus, 1758)**		A	100	D34
Calliostoma granulatum (Born, 1778)	Çevik and Sarıhan, 2004: 95			
[A]***Pseudominolia nedyma* (Melvill, 1897)**		A	25-50	D36, D37
***Tricolia pullus pullus* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A, B, C	0.1-5	Q6, Q10, Q11
[A]***Cerithium scabridum* Philippi, 1848**	Enzenross and Enzenross, 1987:9 [*Thericium scabridum* (Philippi, 1846)]	A, B, C, D	0-50	Q1, Q5-Q11, G12, G13, D21, D24-D28, D37, D38, D43-D48, D52, D53, D55, D57, D58, D60-D65, D69
***Cerithium vulgatum* Bruguière, 1792**	Çevik and Sarıhan, 2004: 95	C, A	0-25	Q7, Q9-Q11, D19, D25, D28, D37, D38, D44, D45, D52, D59, D61-D63
****Bittium jadertinum* (Brusina, 1865)**		A	Mediolitt.-5	Q1, Q8, Q9, Q11, D60
***Bittium latreillii* (Payraudeau, 1826)**	Delongueville and Scaillet, 2006: 30	A, B, C	0.1-100	Q1, Q6-Q11, G13, D18-D23, D25-D27, D34-D38, D49, D52
***Bittium reticulatum* (da Costa, 1778)**	Çevik and Sarıhan, 2004: 95	A, B, C, D	Mediolitt.-100	Q1, Q9-Q11, G12, G13, D18, D19, D21, D22, D24-D27, D34-D38, D43-D46, D48-D55, D57, D58, D60-D69
****Bittium scabrum* (Olivi, 1792)**		A, B, C	0-50	Q7, Q9, Q10, G13
***Bittium submamillatum* (de Rayneval & Ponzi, 1854)**	Giunchi et al., 2001: 47 [*Clathrofenella reticulata* (Adams, 1860)]	A	50-100	D33, D36
[A]***Cerithidium diplax* (Watson, 1886)**	Delongueville and Scaillet, 2006: 30 [*Clathrofenella ferruginea* (Adams, 1860)]	A, B	0-50	Q1, Q5, Q10, G12, G14-G16, D21, D25, D26, D28-D30, D36, D43-D48, D50, D52, D53, D57-D64, D67, D69
[A]***Cerithidium perparvulum* (Watson, 1886)**		A	4.4-19	D44, D60, D62, D63, D66
[A]***Rhinoclavis kochi* (Philippi, 1848)**	Enzenross and Enzenross, 1987:9 [*Ochetoclava kochi* (Philippi, 1846)]	A, B	0-50	Q1, Q6, Q9, Q10, G12, D27, D36, D37, D43-D45, D52, D57, D60, D69

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
***Fossarus ambiguus* (Linnaeus, 1758)**		B	1-3	Q10
[A]*Diala varia Adams, 1861*	Delongueville and Scaillet, 2007 : 57			
[A]***Finella pupoides* Adams, 1860**	Niederhöfer et al.,1991: 104 [*Obtortio pupoides* (Adams, 1860)]	A, B, C	Mediolitt.-50	Q7, Q9, Q10, G12, G13, G15, G16, D21, D24-D26, D28, D29, D36-D38, D43-D48, D50, D52, D53, D55-D68
*Potamides conicus (*de Blainville, 1829*)*	Çevik and Sarıhan, 2004: 95 [*Pirenella conica* (Blainville, 1829)]			
Tenagodus obtusus (*Schumacher, 1817*)	Çevik and Sarıhan, 2004: 95	A	25-75	D25, D35
***Turritella communis* Risso, 1826**	Çevik and Sarıhan, 2004: 95	A	25-100	G13, D18, D19, D22, D32-D36, D54
***Turritella turbona* Monterosato, 1877**		A	50	D31
***Echinolittorina punctata* (Gmelin, 1791)**	Enzenross and Enzenross, 1987:11 [*Littorina punctata* (Gmelin, 1789)]	A, B, C	Supralitt.-Mediolitt.	Q1, Q5-Q9, D44, D46, D47
***Melarhaphe neritoides* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95 [*Littorina neritoides* (Linnaeus, 1758)]	A, B	Supralitt.-Mediolitt.	Q1, Q6-Q9, D44, D45, D47,
***Skeneopsis planorbis* (Fabricius, 1780)**		A	1-12	Q1, D29
***Rissoa lia* (Monterosato, 1884)**		A, C	Mediolitt.-25	Q9-Q11, D25, D27, D43, D62
***Rissoa similis* Scacchi, 1836**		C, A, B	0.1-30	Q5, Q7, Q9-Q11, D38, D43, D47, D60
***Rissoa membranacea* (Adams, 1800)**		A	10	D27
***Alvania amatii* Oliverio, 1986**		A	10	D38
***Alvania cimex* (Linnaeus, 1758)**		A	Mediolitt.-50	Q10, Q11, D36, D61
***Alvania colossophilus* Oberling, 1970**		A	10-50	G13, D20, D38
***Alvania discors* (Allan, 1818)**		C, A, B	0.1-3,4	Q11, D43
[A]***Alvania dorbignyi* (Audouin, 1826)**		A	1-5	Q10
***Alvania fractospira* Oberling, 1970**		A	Mediolitt.-6.6	Q9, D60
***Alvania geryonia* (Nardo, 1847)**		A, B, C	0.1-50	Q10, Q11, D26, D38, D57
***Alvania lactea* (Michaud, 1830)**		A	Mediolitt.	Q9
***Alvania lineata* Risso, 1826**		A	Mediolitt.	Q11
***Alvania mamillata* Risso, 1826**		A, B	0.2-50	Q6, G13, D20
Alvania testae* (Aradas & Maggiore, 1844)		A	100	D33
***Manzonia crassa* (Kanmacher, 1798)**		A	10.2	D62
Pusillina lineolata* (Michaud, 1830)		A	1-50	Q10, G13, D18, D19, D25, D26, D28, D43-D45, D52, D57
***Pusillina marginata* (Michaud, 1830)**		A	4.4-50	G13, G14, D44
***Pusillina radiata* (Philippi, 1836)**		A	3.3-10.2	Q9, D43, D58, D62
***Setia turriculata* Monterosato, 1884**		A, C	0.5-5	Q8, Q10, D43, D57
Setia fusca* (Philippi, 1844)		A	5	Q8
[A]***Rissoina bertholleti* Issel, 1869**	Enzenross et al., 1990: 291	A	5-10	Q10, D38
***Rissoina brugiueri* (Payraudeau, 1826)**	Çevik and Sarıhan, 2004: 95	A	Mediolitt.-25	Q9, D20, D38, D43, D60
Circulus striatus* (Philippi, 1836)		A	4.4	D44
Circulus tricarinatus* (Wood, 1848)		A	5	Q8
***Caecum clarkii* Carpenter, 1859**		C	0.2	Q9
***Caecum trachea* (Montagu, 1803)**	Delongueville and Scaillet, 2006: 30	A	10.2-50	G13, D25, D62
***Hydrobia acuta* (Draparnaud, 1805)**		A	3.3-9,6	D58, D61
Ventrosia ventrosa* (Montagu, 1803*)		A	9-25	D25, D28
Hyala vitrea* (Montagu, 1803)		A	25-100	G14, G15, D32, D34
***Tornus subcarinatus* (Montagu, 1803)**		A, C	0.5-10	Q9-Q11, D38, D59
Tornus mienisi Aartsen, Carrozza & Menkhorst, 1998	Giunchi et al., 2001: 47			
[A]***Gonomurex persicus* (Swainson, 1821)**	Enzenross and Enzenross, 1987:8	A, B, C	0-50	Q1, Q5-Q11, D20, D21, D24-D27, D29, D37, BT41, D43, D46, D48, D52, D55, D57, D58, D60-D63, D69
Aporrhais pespelecani (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Vermetus granulatus* (Gravenhorst, 1831*)*		C	0.1-3	Q11
***Vermetus rugulosus* Monterosato, 1878**	Çevik and Sarıhan, 2004: 95	C, A	1-8.6	Q11, D46
***Vermetus triquetrus* Bivona Ant., 1832**	Çevik and Sarıhan, 2004: 95	A, B	1-10	Q10, G12, D38
***Dendropoma petraeum* (Monterosato, 1884)**	Çevik and Sarıhan, 2004: 95	B	0.2-5	Q1, Q5, Q6
Petaloconchus glomeratus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Serpulorbis arenarius (Linnaeus, 1767)	Çevik and Sarıhan, 2004: 95 [*Serpulorbis arenaria* (Linnaeus, 1767)]			
Erosaria spurca (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
[A]***Purpuradusta gracilis notata* (Gill, 1858)**	Enzenross et al., 1990: 291 (*Cypraea gracilis* Gaskoin, 1849)	A	Mediolitt.	D43
***Natica stercusmuscarum* (Gmelin, 1791)**	Çevik and Sarıhan, 2004: 95	A	75	D35
***Neverita josephinia* Risso, 1826**	Çevik and Sarıhan, 2004: 95	A	0.5-50	Q1, Q3, Q7, Q9, Q10, D29, D36, D43-D46, D52, D58, D60
***Notocochlis dillwynii* (Payraudeau, 1826)**		A	25	D37
Tonna galea (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Galeodea echinophora (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Semicassis granulata (Born, 1778)	Çevik and Sarıhan, 2004: 95 [*Phalium granulatum* (Born, 1778)]			
Pterotrachea hippocampus Philippi,1836	Çevik et al., 2006:13			
***Marshallora adversa* (Montagu, 1803)**		A	3.4-50	Q10, G13, D43, D61
Monophorus erythrosoma* (Bouchet & Guillemot 1978)		A	4	D45

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
***Monophorus perversus* (Linnaeus, 1758)**		A	5-10	Q10, D38
[A]***Metaxia bacillum* (Issel, 1869)**	Engl, 1995: 46	A	1	Q10
***Cerithiopsis minima* (Brusina, 1865)**		A, B	0.1-50	Q7, Q10, Q11, D26
[A]***Cerithiopsis pulvis* (Issel, 1869)**		A, B	Mediolitt.-11	Q8-Q10, D21
[A]***Cerithiopsis tenthrenois* (Melvill, 1896)**		A	1-3.3	Q6, D58
***Cerithiopsis tubercularis* (Montagu, 1803)**		A, B	0.2-25	Q10, Q11, D25, D52, D62, D64
***Dizoniopsis coppolae* (Aradas, 1870)**		A	3.4-25	Q10, D20, D25, D38, D43, D62
Janthina janthina (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Janthina prolongata de Blainville, 1822	Çevik and Sarıhan, 2004: 95 (*Janthina nitens* Menke, 1828)			
***Epitonium clathratulum* (Kanmacher, 1798)**		A	9,6	D61
***Epitonium clathrus* (Linnaeus, 1758)**		A	10-50	G13, D25, D26, D29
***Epitonium turtonis* (Turton, 1819)**		A	6.6-7.3	D52, D60
[A]*Cycloscala hyalina* (Sowerby, 1844)	Engl and Çeviker, 1999: 19			
***Eulima glabra* (Da Costa, 1778)**		A	5-75	Q8, G13, D35
***Melanella polita* (Linnaeus, 1758)**		A	8.6	D46
[A]*Sticteulima lentiginosa* (Adams, 1861)	Delongueville and Scaillet, 2006: 30	A	0-7	D69
****Vitreolina cf. perminima* (Jeffreys, 1883)**		A	50	G13
***Vitreolina philippi* (de Rayneval & Ponzi, 1854)**		A	5-10	Q8, D27
Bolinus brandaris (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Hexaplex pecchiolianus (d'Ancona, 1871)	Delongueville and Scaillet, 2005:131			
***Hexaplex trunculus* (Linnaeus, 1758)**	Enzenross et al., 1990: 285	A	1	Q9
***Muricopsis cristata* (Brocchi, 1814)**		A, B, C	0.1-50	Q10, Q11, G13, D20
Muricopsis cevikeri Houart, 2000	Houart, 2000: 468			
***Ocinebrina edwardsii* (Payraudeau, 1826)**	Çevik and Sarıhan, 2004: 95 [*Ocenebra edwardsii* (Payraudeau, 1826)]	C, A	Mediolitt.-2	Q6, Q7, Q9, Q11
***Ocinebrina aciculata* (Lamarck, 1822)**		A	5-50	Q10, D36, D52, D63
***Typhinellus labiatus* (de Cristofori & Jan, 1832)**		A	100	D34
Euthria cornea (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95 [*Buccinulum corneum* (Linnaeus, 1758)]			
***Engina leucozona* (Philippi, 1843)**		B, A	1-10	Q5, Q10, Q11, D38
***Pisania striata* (Gmelin, 1791)**	Çevik and Sarıhan, 2004: 95	C	0.5	Q10
Pollia dorbignyi (Payraudeau, 1826)	Çevik and Sarıhan, 2004: 95			
***Pollia scabra* Locard, 1892**		A	1-25	Q10, D20
***Pollia scacchiana* (Philippi, 1844)**		A	1-10	Q10, Q11, D38, D61
Fasciolaria lignaria (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Fusinus pulchellus* (Philippi, 1844)**		A	50	D36
Fusinus rostratus (Olivi, 1792)	Çevik and Sarıhan, 2004: 95			
Fusinus syracusanus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Nassarius circumcinctus* (Adams, 1852)**	Enzenross and Enzenross, 1987:9 (*Arcularia circumcincta* Adams, 1852)	A, B	0.2-5	Q1, Q3, Q6, Q9
***Nassarius gibbosulus* (Linnaeus, 1758)**	Enzenross and Enzenross, 1987:8 [*Arcularia gibbosula* (Linnaeus, 1867)]	A, B	0.2-5	Q1-Q3, Q6, D43
Nassarius reticulatus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Nassarius mutabilis* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A, B	0.5-12	Q1, Q2, Q6, Q9, D29, D43-D45, D58
***Nassarius corniculum* (Olivi, 1792)**	Çevik and Sarıhan, 2004: 95	A	Mediolitt.-12	Q1, Q9, D46
***Nassarius cuvierii* (Payraudeau, 1826)**		A, C	0.1-50	Q8-Q11, G13, D20, D28, D57-58, D60
***Nassarius incrassatus* (Ström, 1768)**		A, B	0.1-25	Q9-Q11, G14, G16, D20, D21, D24, D30, D45
***Nassarius nitidus* (Jeffreys, 1867)**		A	2-10	Q6, D29, D46, D60
***Nassarius pygmaeus* (Lamarck, 1822)**		A, B, C	0-50	Q9-Q11, G13, G14, G16, D18, D22, D25-D27, D29, D43-D46, D48-50, D52-53, D55-65, D67, D69
[A]***Ergalatax junionae* Houart, 2008**	Giunchi et al., 1995: 8 [*Cronia cf. konkanensis* (Melvill, 1893)]	A, B, C	0-11	Q1, Q4-Q11, D21, D44, D46, D69
[A]*Thais lacera* (Born, 1778)	Çevik and Sarıhan, 2004: 95			
***Stramonita haemastoma* (Linnaeus, 1767)**	Çevik and Sarıhan, 2004: 95	B	0.1-5	Q1, Q5, Q8-Q10
***Columbella rustica* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	C, B, A	0.1-50	Q6, Q7, Q9-Q11, D36, D38, D43
[A]***Zafra savignyi* (Moazzo, 1939)**	Palazzi, 1993: 15 [*Anachis melitoma* (Melvill & Standen, 1901)]	C, A, B	0-25	Q4, Q7-Q11, D21, D24, D25, D27, D37, D38, D43, D44, D46, D48, D50, D52, D55, D57-58, D60-61, D69
[A]***Zafra selasphora* (Melvill & Standen, 1901)**	Palazzi, 1993: 15 [*Anachis troglodytes* (Souverbie & Montrouzier 1866)]	A, D	5-6	Q10, G12
***Mitrella minor* (Scacchi, 1836)**		A	50	G13
***Mitrella scripta* (Linnaeus, 1758)**		A	50	G13
***Vexillum ebenus* (Lamarck, 1811)**		A	1-75	Q11, G13, D18, D35-37
***Vexillum granum* (Forbes, 1844)**		B, C, A	0.1-50	Q11, D26, D36, D38
***Vexillum hypatiae* (Pallary, 1912)**	Gianuzzi-Savelli et al., 2003: 269	A	10	D38
***Vexillum tricolor* (Gmelin, 1791)**		A	6.6-10	D38, D60
***Gibberula philippii* (Monterosato, 1878)**		A	1	Q11
***Granulina marginata* (Bivona Ant., 1832)**		A	75	D35
***Conus mediterraneus* Hwass in Bruguière, 1792**	Çevik and Sarıhan, 2004: 95	A, B, C	0.1-75	Q1, Q10, Q11, G13, D18, D20, D26, D27, D35, D36, D38, D44

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
***Bela brachystoma* (Philippi, 1844)**	Çevik and Sarıhan, 2004: 95	A	4-100	G13, D22, D24-D26, D28-29, D32-33, D36-37, D44-D46, D48, D50, D52-53, D55, D57, D61-65
***Bela zonata* (Locard, 1892)**	Öztürk et al., 2008: 31 [*Bela laevigata* (Philippi, 1836)]	A	Mediolitt.-50	Q9-Q11, D25, D26, D38, D43-D46, D48, D50, D52, D57-58, D60, D62-63
***Bela nebula* (Montagu, 1803)**	Öztürk et al., 2008: 34	A	Mediolitt.-50	Q1, Q9, D26
***Clathromangelia granum* (Philippi, 1844)**	Çevik and Sarıhan, 2004: 95 [*Clathromangelia quadrillum* (Dujardin, 1837)]	A	75	D35
***Mangelia costulata* Risso, 1826**	Öztürk et al., 2008: 44	A	6.6-50	G13, D25, D26, D37, D38, D53, D55, D60-62
***Mangelia costata* (Pennant, 1777)**		A	75	D35
***Mangelia attenuata* (Montagu, 1803)**	Öztürk et al., 2008: 38	A	7.3-50	D26, D52
***Mangelia fieldeni* (van Aartsen & Fehr-de Wal, 1978)**	Öztürk et al., 2008: 45	A	10	D38
***Mangelia unifasciata* (Deshayes, 1835)**	Öztürk et al., 2008: 52	A	5-50	Q10, G13, G14, D18, D26, D46, D48, D52-54, D62-64
***Mangelia vauquelini* (Payraudeau, 1826)**		A	5-10	Q10, D38
***Haedropleura septangularis* (Montagu, 1803)**		A	1	Q11
***Crassopleura maravignae* (Bivona Ant. in Bivona And., 1838)**		A	75	D35
***Raphitoma concinna* (Scacchi, 1836)**		A	25	D20
***Raphitoma echinata* (Brocchi, 1814)**		A	50	D26
[A]*Amathina tricarinata* (Linnaeus, 1767)	Çeviker and Albayrak, 2006: 77			
[A]*Leucotina cf. eva* Thiele, 1925	Giunchi et al., 2001: 47			
***Chrysallida incerta* (Milaschewitsch, 1916)**	Micali and Palazzi,1992: 85 [*Chrysallida brusinai* (Cossmann, 1921)]	A	4.5	D57
Chrysallida clathrata (Jeffreys, 1848)	Micali and Palazzi,1992: 85			
Odostomella doliolum (Philippi, 1844)	Micali and Palazzi,1992: 85 [*Chrysallida doliolum* (Philippi, 1844)]			
***Chrysallida emaciata* (Brusina, 1866)**	Micali and Palazzi,1992: 85	A	50	G13
Chrysallida fenestrata (Jeffreys, 1848)	Micali and Palazzi,1992: 86 [*Tragula fenestrata* (Jeffreys, 1848)]			
[A]*Chrysallida fischeri* (Hornung & Mermod 1925)	Micali and Palazzi,1992: 85			
Chrysallida indistincta (Montagu, 1808)	Micali and Palazzi,1992: 85			
Chrysallida jeffreysiana (Monterosato, 1884)	Micali and Palazzi,1992: 85			
Chrysallida limitum (Brusina in de Folin & Périer 1876)	Linden and Eikenboom, 1992: 29			
[A]***Chyrisallida maiae* (Hornung & Mermod, 1924)**	Barash and Danin, 1977: 96	A, C	0.5-10.2	Q8, Q9, Q10, G12, D27, D28, D38, D44, D45, D62
***Chrysallida interstincta* (Adams, 1797)**	Micali and Palazzi,1992: 85 [*Chrysallida obtusa* (Brown, 1827)]	A	3.4-12.2	D43-D46, D53, D58, D62
***Chrysallida suturalis* (Philippi, 1844)**	Micali and Palazzi,1992: 85	A	4.5-9.6	D57, D61
***Chrysallida excavata* (Philippi, 1836)**		A	Mediolitt.	Q11
***Chrysallida indistincta* (Montagu, 1808)**		A	10.2	D62
***Chrysallida juliae* (de Folin, 1872)**		A	9.6	D61
***Chrysallida terebellum* (Philippi, 1844)**		A	3.3-18.5	D58, D61-62, D68
[A]***Cingulina isseli* (Tryon, 1886)**		B	6	G12
***Euparthenia humboldti* (Risso, 1826)**	Micali and Palazzi,1992: 86	A	5	Q10
[A]***Monotigma lauta* (Adams, 1853)**	Micali and Palazzi,1992: 85-86 [*Monotygma fulva* (Adams, 1851)]	A	4.4-8.6	D44, D46, D52
[A]***Leucotina natalensis* Smith, 1910**	Micali and Palazzi,1992: 85-86 [*Monotygma amoena* (Adams, 1851)]	A	5-10	Q10, D28-29, D45, D46
[A]*Murchisonella columna* (Hedley, 1907)	Delongueville and Scaillet, 2007: 55			
***Eulimella acicula* (Philippi, 1836)**	Micali and Palazzi,1992: 86	A	3.4-12.2	D43, D53
***Eulimella ventricosa* (Forbes, 1844)**		A	75	D35
Ebala pointeli (de Folin, 1868)	Micali and Palazzi,1992: 86 [*Anisocycla pointeli* (de Folin, 1867)]			
[A]*Syrnola cinctella* Adams, 1860	Aartsen and Recevik, 1998: 13			
[A]***Syrnola fasciata* Jickeli, 1882**	Aartsen et al., 1989: 70	A	3.4-50	G12, G13, G16, D25, D28, D31, D43, D44, D46, D48, D50, D52, D57, D59, D61-65, D68
[A]***Syrnola lendix* (Adams, 1863)**	Micali and Palazzi,1992: 85-86 (*Styloptygma beatrix* Melvill, 1911)	A	7.3-50	G13, D49, D52
[A]*Iolaea neofelixoides* (Nomura, 1936)	Aartsen and Recevik, 1998: 14			
***Ondina vitrea* (Brusina, 1866)**	Micali and Palazzi,1992: 86	A	50	G13, D26
Ondina warreni (Thompson, 1845)	Micali and Palazzi,1992: 86			
***Odostomia acuta* Jeffreys, 1848**	Micali and Palazzi,1992: 86	A	11.5	D63
Odostomia sicula Philippi, 1851	Micali and Palazzi,1992: 86			
***Odostomia conoidea* (Brocchi, 1814)**	Micali and Palazzi,1992: 86	A	3.3-25.5	D43, D45, D46, D49, D53, D58, D60
Odostomia conspicua Alder, 1850	Micali and Palazzi,1992: 86			
Odostomia erjaveciana Brusina, 1869	Micali and Palazzi,1992: 86			
Odostomia lukisii Jeffreys, 1859	Micali and Palazzi,1992: 86			
***Odostomia plicata* (Montagu, 1803)**	Micali and Palazzi,1992: 86	A	4	D45
Odostomia striolata Forbes & Hanley, 1850	Micali and Palazzi,1992: 86			
Odostomia turrita Hanley, 1844	Micali and Palazzi,1992: 86			
[A]***Odostomia lorioli* (Hornung & Mermod 1924)**	Delongueville and Scaillet, 2007 : 63	A	11.5	D63
***Odostomia improbabilis* Oberling, 1970**		A	1	Q11

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
***Odostomia kromi* van Aartsen, Menkhorst & Gittenberger, 1984**		A	7.3	D52
***Turbonilla delicata* (Monterosato, 1874)**	Micali and Palazzi,1992: 86	A	11.7	D 48
[A]*Turbonilla edgarii* (Melvill, 1896)	Micali and Palazzi,1992: 86			
***Turbonilla gradata* Bucquoy, Dautzenberg & Dollfus, 1883**	Micali and Palazzi,1992: 86	A	10.2-12.2	D53, D62
***Turbonilla pusilla* (Philippi, 1844)**	Micali and Palazzi,1992: 86	A	1-50	Q10, G13, D18, D20, D26, D43
***Turbonilla rufa* (Philippi, 1836)**	Micali and Palazzi,1992: 86	A	Mediolitt.-50	Q9-Q11, D25-D27, D29, D38, D43-D46, D52-53, D57, D60-63
***Turbonilla striatula* (Linnaeus, 1758)**	Micali and Palazzi,1992: 86	A	7.3-10	D24, D52
Turbonilla acutissima* Monterosato, 1884		A	3.4	D43
***Acteon tornatilis* (Linnaeus, 1758)**		A	1-50	Q9, G13, G14, D25, D36, D46, D59, D63
***Japonacteon pusillus* (MacGillivray, 1843)**		A	7.2	D59
***Retusa mammillata* (Philippi, 1836)**		A	10.2	D62
***Retusa minutissima* (Monterosato,1878)**		A	7.2-50	G13, D29, D48, D59, D61
***Retusa truncatula* (Bruguière, 1792)**		A	4.4-5	Q10, D44, D57
[A]***Cylichnina girardi* (Audouin, 1826)**		A	50	D36
***Cylichnina umbilicata* (Montagu, 1803)**	Delongueville and Scaillet, 2006: 30	B, A	0-50	Q7, Q10, G13, D26, D43, D46, D48, D50, D53, D57, D61-62, D67
[A]***Pyrunculus fourierii* (Audouin, 1826)**	Giunchi et al., 2001: 47	B, A	0-50	Q10, G12, G13, G16, D24, D26, D28-29, D38, D43-D46, D48, D52-53, D57-59, D61-63, D67-68
***Volvulella acuminata* (Bruguière, 1792)**		A	4.4-12.2	D44, D52-53
***Ringicula auriculata* (Ménard de la Groye, 1811)**		A	10.2-50	D36, D62
***Ringicula conformis* Monterosato, 1877**		A	8.6-50	G13, D26, D36, D46, D53
[A]***Bulla ampulla* Linnaeus, 1758**	Delongueville and Scaillet, 2007 : 65	A	18.5	D67
***Bulla striata* Bruguière, 1792**	Çevik and Sarıhan, 2004: 95	A	3.4-50	G13, D18-22, D24-D27, D29, D36-D38, D43, D48-50, D52-53, D60-62
***Haminoea hydatis* (Linnaeus, 1758)**	Çevik and Ergüden, 2008: 245	C, A	0.1-50	Q11, G13, D20, D25
***Atys jeffreysi* (Weinkauff, 1866)**	Çevik and Ergüden, 2008: 246	A	4.5	D57
***Weinkauffia turgidula* (Forbes, 1844)**		A	Mediolitt.-50	Q1, Q9, G12, D20-21, D25, D26, D28, D37, D38, D62, D64
[A]*Chelidonura fulvipunctata* Baba, 1938	Çevik and Ergüden, 2008: 247			
[A]***Acteocina mucronata* (Philippi, 1849)**	Giunchi et al., 2001; 47	A	4-10.2	Q8, D24, D38, D45, D62
***Cavolinia tridentata* (Forskål, 1775)**		A	100	D33
Corolla spectabilis Dall, 1871	Çevik et al., 2006; 155			
Elysia timida (Risso, 1818)	Çevik and Ergüden, 2008: 248			
Elysia viridis (Montagu, 1804)	Çevik and Sarıhan, 2004: 95			
Thuridilla hopei (Verany, 1853)	Çevik and Ergüden, 2008: 249			
Umbraculum umbraculum (Lightfoot, 1786)	Çevik and Sarıhan, 2004: 95			
[A]*Aplysia dactylomela* Rang, 1828	Çinar et al., 2006: 86-87			
Aplysia depilans Gmelin, 1791	Çevik and Ergüden, 2008: 250			
[A]*Bursatella leachii* de Blainville, 1817	Enzenross et al., 1990: 291			
Doris bertheloti (d'Orbigny, 1839)	Yokeş, 2009: 6-8-17			
[A]*Chromodoris annulata* Eliot, 1904	Çevik and Ergüden, 2008: 258			
[A]*Hypselodoris infucata* (Rüppell & Leuckart, 1830)	Çevik and Öztürk, 2001: 28			
***Hypselodoris picta* (Schultz in Philippi, 1836)**	Çevik and Ergüden, 2008: 259	B	0.2-3	Q6
Armina tigrina Rafinesque, 1814	Çevik and Ergüden, 2008: 251			
Aeolidiella alderi (Cocks, 1852)	Çevik and Ergüden, 2008: 252			
Spurilla neapolitana (delle Chiaje, 1841)	Çevik and Ergüden, 2008: 253			
Cratena peregrina (Gmelin, 1791)	Çevik and Ergüden, 2008: 254			
Dondice banyulensis Portmann & Sandmeier, 1960	Çevik and Ergüden, 2008: 255			
Flabellina affinis (Gmelin, 1791)	Çevik and Ergüden, 2008: 256			
[A]*Flabellina rubrolineata* (O'Donoghue, 1929)	Çevik and Ergüden, 2008: 257			
[A]*Siphonaria belcheri* Hanley, 1858	Albayrak and Çeviker, 2001: 297			
[A]***Siphonaria crenata* de Blainville, 1827**	Delongueville and Scaillet, 2010: 9	B	Mediolitt.	D46
Williamia gussonii (Costa, 1829)	Delongueville and Scaillet, 2006: 30			
Auriculinella bidentata (Montagu, 1808)	Çevik and Sarıhan, 2004: 95 [*Auriculinella erosa* (Jeffreys, 1830)]			
Myosotella myosotis (Draparnaud, 1801)	Çevik and Sarıhan, 2004: 95 [*Ovatella myosotis* (Draparnaud, 1801)]			
Ovatella firminii (Payraudeau, 1826)	Çevik and Sarıhan, 2004: 95			
BIVALVIA				
***Nucula nitidosa* Winckworth, 1930**	Albayrak and Çağlar, 2010: 46	A	75	D35
***Nucula nucleus* (Linnaeus, 1758)**		A	10	D38
***Nucula sulcata* Bronn, 1831**		A	70	D32
***Saccella commutata* (Philippi, 1844)**		A	12.2-75	D35, D53
***Nuculana pella* (Linnaeus, 1767)**	Albayrak, 2010: 48	A	25-75	G13, D35, D37
Arca noae Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			
***Arca tetragona* Poli, 1795**		B, C	1-3	Q10, Q11
Barbatia barbata (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
[A]*Anadara natalensis* (Krauss, 1848)	Enzenross et al., 1990: 291			
Anadara polii (Mayer, 1868)	Çevik and Sarıhan, 2004: 95 [*Anadara diluvii* (Lamarck, 1805)]			

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
[A]*Anadara inflata* (Reeve, 1844)	Çeviker and Albayrak, 2002: 56 [*Scapharca inflata* (Reeve, 1844)]			
***Striarca lactea* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	B, A	0.1-25	Q1, Q5-Q9, D20-21, D25, D27, D38
Glycymeris bimaculata (Poli, 1795)	Çevik and Sarıhan, 2004: 95			
***Glycymeris glycymeris* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	Mediolitt.-18.5	Q9, D43, D46, D48, D52, D62, D68
Mytilus galloprovincialis Lamarck, 1819	Çevik and Sarıhan, 2004: 95			
[A]***Brachidontes pharaonis* (Fischer, 1870)**	Kinzelbach, 1985: 275 [*Brachidontes semistriatus* (Krauss, 1848)]	C, B, D	0-100	Q1, Q4-Q11, G12, D25, D34, D43, D47, D69
[A]***Septifer forskali* Dunker, 1855**	Albayrak and Çeviker, 2001: 297 [*Septifer bilocularis* (Linnaeus, 1758)]	B, A, D	0-25	Q5-Q10, D21, D25, D38, D69
***Mytilaster minimus* (Poli, 1795)**	Çevik and Sarıhan, 2004: 95	C, B	0-7	Q5, Q7, Q11, D47, D69
***Mytilaster solidus* Monterosato, 1883**		C, B	0-3	Q7-Q9
***Modiolarca subpicta* (Cantraine, 1835)**	Delongueville and Scaillet, 2006: 30	A	100	D34
***Musculus costulatus* (Risso, 1826)**		B, C, A, D	0-100	Q1, Q5-Q11, D34, T39, D46, D69
***Lithophaga lithophaga* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	B	0.1-25	Q8, Q10, Q11, D25
Modiolus adriaticus (Lamarck, 1819)	Albayrak, 2010: 48			
Amygdalum agglutinans (Cantraine, 1835)	Çevik and Sarıhan, 2004: 95			
Pteria hirundo (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
[A]***Pinctada radiata* (Leach, 1814)**	Kinzelbach, 1985: 277	A, C, B	0-25	Q1, Q5-Q8, Q11, G12, D21, D37, D69
[A]***Electroma vexillum* (Reeve, 1857)**	Çevik et al., 2005: 2	A, B, C	0-30	Q1, Q7, Q9, Q11, D29, D43, D47
[A]***Malvufundus regula* (Forskål, 1775)**	Kinzelbach, 1985: 277	B, D, A	0-8.6	Q1, Q6-Q9, Q11, D46
Pecten jacobeus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Aequipecten opercularis (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Pseudamussium clavatum (Poli, 1795)	Çevik and Sarıhan, 2004: 95			
Talochlamys multistriatus (Poli, 1795)	Albayrak, 2010: 48			
Flexopecten glaber (Linnaeus, 1758)	Albayrak, 2010: 48			
***Mimachlamys varia* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	B	0.1-3	Q9
Spondylus gaederopus Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			
[A]*Spondylus cf. multisetosus* Reeve, 1856	Çeviker, 2001: 43			
[A]***Spondylus spinosus* Schreibers, 1793**	Engl and Çeviker, 1999: 17	B	0.2-3	Q6
***Anomia ephippium* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	B, C	0-11	Q7-Q9, D21
Lima lima (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Ostrea edulis* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	B, C	0-3	Q4, Q6-Q9
***Ostrea stentina* Payraudeau, 1826**		B, C	0-11	Q4, Q6, Q8-Q10, G12, D21, D47
[A]*Crassostrea gigas* (Thunberg, 1793)	Delongueville and Scaillet, 2007: 50-51			
[A]***Dendostrea frons* (Linnaeus, 1758)**	Çeviker, 2001: 43	B	0.2	Q10
***Ctena decussata* (Costa, 1829)**	Delongueville and Scaillet, 2006: 30	A	5-10	Q10, D38
Loripes lacteus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Lucinella divaricata* (Linnaeus, 1758)**	Albayrak, 2010: 48	A	7.3-12	Q1, D24, D38, D48, D52, D61-63
***Anodontia fragilis* (Philippi, 1836)**	Albayrak, 2010: 48	A	1-8	Q11, G12
***Thyasira flexuosa* (Montagu, 1803)**		A	70	D32
***Chama gryphoides* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	B, A	0-11	Q6, Q8-Q11, G12, D21, D27
[A]***Chama pacifica* Broderip, 1834**	Çeviker, 2001: 45	B, D, A	0.1-25	Q1, Q5, Q6, Q8-Q11, D20, D25, D69
***Galeomma turtoni* Sowerby G.B.I in Turton, 1825**		B	0.1-3	Q11
***Kellia suborbicularis* (Montagu, 1803)**	Albayrak, 2010: 48	A	5	Q9
***Hemilepton nitidum* (Turton, 1822)**	Delongueville and Scaillet, 2006: 30	A	4.4-11.7	D44, D48, D57, D59-60
***Tellimya ferruginosa* (Montagu, 1808)**	Albayrak, 2010: 48	A	4.4-25	D25, D44
[A]*Cardites akabana* (Sturany, 1899)	Çeviker and Albayrak, 2006: 78			
***Kurtiella bidentata* (Montagu, 1803)**		A	18.5	D68
***Glans aculeata* (Poli, 1795)**	Çevik and Sarıhan, 2004: 95	A	100	D34
Glans trapezia (Linnaeus, 1767)	Çevik and Sarıhan, 2004: 95			
Venericardia antiquata (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
Digitaria digitaria (Linnaeus, 1758)	Delongueville and Scaillet, 2006: 30			
***Acanthocardia echinata* (Linnaeus, 1758)**	Albayrak and Çağlar, 2010: 47	A	50	T40
***Acanthocardia tuberculata* (Linnaeus, 1758)**		C, A	1-3.4	Q8, D43
***Parvicardium exiguum* (Gmelin, 1791)**	Delongueville and Scaillet, 2006: 30	C, A	0-10.2	Q11, D52, D55, D62, D69
***Parvicardium minimum* (Philippi, 1836)**		A	75	D35
[A]*Afrocardium richardi* (Audouin, 1826)	Aartsen and Good, 2000: 183			
***Papillicardium papillosum* (Poli, 1791)**	Albayrak, 2010: 49	A	3.4-100	D34-35, D37, D43, D52
Laevicardium crassum (Gmelin, 1791)	Çevik and Sarıhan, 2004: 95			
Cerastoderma glaucum (Poiret, 1789)	Çevik and Sarıhan, 2004: 95			
[A]***Fulvia fragilis* (Forskål, 1775)**	Enzenross et al., 1990: 291 [*Fulvia papyracea* (Gmelin, 1791)]	A	0-25	D24, D25, D29, D43, D45, D46, D48, D52, D55, D58, D60-61, D69
Mactra stultorum (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Donacilla cornea* (Poli, 1791)**		A	4	D45
***Solen marginatus* Pulteney, 1799**	Çevik and Sarıhan, 2004: 95	A	8	G12
***Ensis ensis* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	0-7	D69
****Phaxas pellucidus* (Pennant, 1777)**		A	4.4-37	D44, D54, D57
***Tellina fabula* Gmelin, 1791**	Albayrak, 2010: 49	A	1	Q9
***Tellina nitida* Poli, 1791**	Albayrak, 2010: 49	A	3.3-25	G16, D28-29, D45, D46, D48, D53, D55, D57-59, D61, D63-65
Tellina tenuis Da Costa, 1778	Çevik and Sarıhan, 2004: 95			
***Tellina planata* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	A	8-25	G12, G16, D30

Table 2: (continued)

Species	References	Biotope	Depth (m)	Stations
***Tellina pulchella* Lamarck, 1818**	Çevik and Sarıhan, 2004: 95	A	4-50	G16, D26, D28-30, D45, D52-D53
***Tellina distorta* Poli, 1791**	Albayrak, 2010: 49	A	4.5-24	D51, D57, D61, D63-D66
***Tellina donacina* Linnaeus, 1758**	Albayrak, 2010: 49	A	4.4-25	G12, D25, D44, D48
[A]*Tellina valtonis* Hanley, 1844	Giunchi et al., 2001: 47			
***Tellina serrata* Brocchi, 1814**		A	4.4	D44
***Macoma cumana* (Costa, 1829)**		A	18.5-19	D66-D68
Gastrana fragilis (Linnaeus, 1758)	Albayrak, 2010: 48			
[A]*Psammotreta praerupta* (Salisbury, 1934)	Engl and Çeviker, 1999: 17			
***Donax semistriatus* Poli, 1795**	Çevik and Sarıhan, 2004: 95	A	1-12.2	Q1, Q3, Q7, Q8, D43-D45, D52-53
***Donax trunculus* Linnaeus, 1758**	Çevik and Sarıhan, 2004: 95	A	0.5-10	Q3, Q9, D29, D45, D46, D58
***Donax venustus* Poli, 1795**	Albayrak, 2010: 49	A	4-10	Q3, D38
Scrobicularia cottardi (Payraudeau, 1826)	Albayrak, 2010: 49			
***Abra alba* (Wood, 1802)**	Albayrak, 2010: 49	A	3.4-75	G12, D20-21, D25, D26, D28-30, D35, D43-D46, D48, D50, D52-53, D55, D57, D59-68
Abra longicallus (Scacchi, 1835)	Albayrak and Çağlar, 2010; 47			
***Abra prismatica* (Montagu, 1808)**	Albayrak, 2010: 49	A	9-18.5	D28, D48, D67
***Abra nitida* (Müller, 1776)**		A	4.5-50	G15, D48, D57, D59, D61, D65-68
Solecurtus strigilatus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95			
***Azorinus chamasolen* (da Costa, 1778)**	Albayrak, 2010: 49	A	12.2	D53
***Pharus legumen* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	4.4-18.5	D44, D59, D68
Venus verrucosa Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			
***Chamelea gallina* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95	A	3.3-25	G16, D43, D45, D46, D58, D60
****Clausinella fasciata* (da Costa, 1778)**		A	3.3-25	D24, D37, D52, D58
***Timoclea ovata* (Pennant, 1777)**	Albayrak, 2010: 49	A	3.4-100	D34-35, D43
[A]*Gafrarium pectinatum* (Linnaeus, 1758)	Albayrak, 2010: 49-51			
***Gouldia minima* (Montagu, 1803)**	Albayrak, 2010: 49	A	10	D24
[A]*Clementia papyracea* (Gray, 1825)	Enzenross et al., 1990: 291			
***Dosinia exoleta* (Linnaeus, 1758)**	Albayrak, 2010: 49	A	5	Q9
***Dosinia lupinus* (Linnaeus, 1758)**	Albayrak, 2010: 49	A	2-10	Q7, G12, D29, D43-D46, D57-58, D60
***Pitar rudis* (Poli, 1795)**	Çevik and Sarıhan, 2004: 95	A	4-25.4	D45, D48, D50
Ruditapes decussatus (Linnaeus, 1758)	Çevik and Sarıhan, 2004: 95 [*Tapes decussatus* (Linnaeus, 1758)]			
***Tapes rhomboides* (Pennant, 1777)**	Albayrak, 2010: 49	A	3.4	D43
[A]***Paphia textile* (Gmelin, 1791)**	Enzenross et al., 1990: 291	A	3.3-7.3	D52, D58, D59
***Venerupis aurea* (Gmelin, 1791)**		A	10	D29
***Venerupis senegalensis* (Gmelin, 1791)**	Çevik and Sarıhan, 2004: 95	A, B	0.1-8	Q11, G12
[A]*Antigona lamellaris* Schumacher, 1817	Engl and Çeviker, 1999: 17			
[A]*Petricola hemprichi* Issel, 1869	Çeviker and Albayrak, 2006: 78			
***Petricola lithophaga* (Philippson, 1788)**	Delongueville and Scaillet, 2006: 30	B	0-6	Q7-Q11, G12
***Sphenia binghami* Turton, 1822**	Delongueville and Scaillet, 2006: 30	B	0.1-2	Q9
[A]*Sphenia rueppelli* Adams, 1850	Zenetos et al., 2010b: 203			
***Corbula gibba* (Olivi, 1792)**	Albayrak, 2010: 49	A, B	3.3-70	G15, G16, D21, D24-D26, D28, D30, D32, D37, D38, D43, D46, D48, D50, D52-53, D55, D57-68
[A]*Gastrochaena cymbium* Spengler, 1783	Niederhöfer et al., 1991: 101			
Pholas dactylus Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			
***Barnea candida* (Linnaeus, 1758)**		A	24	BT42
[A]*Teredo navalis* Linnaeus, 1758	Şen and Yalçın, 2010: 1637			
Lyrodus pedicellatus (de Quatrefages, 1849)	Şen and Yalçın, 2010: 1637			
Bankia carinata (Gray, 1827)	Şen and Yalçın, 2010: 1637			
Nototeredo norvegica (Spengler, 1792)	Şen and Yalçın, 2010: 1637			
****Xylophaga dorsalis* (Turton, 1819)**		A	24	BT42
****Thracia convexa* (Wood, 1815)**		A	12	Q1
***Thracia papyracea* (Poli, 1791)**	Albayrak, 2010: 49	A	6.6-10	D24, D60
[A]*Laternula anatina* (Linnaeus, 1758)	Engl, 1995: 46			
***Pandora inaequivalvis* (Linnaeus, 1758)**	Doğan et al., 2007: 1	A	3.3-10	D29, D43, D45, D52, D58
SCAPHOPODA				
***Antalis dentalis* (Linnaeus, 1758)**	Çevik and Sarıhan, 2004: 95 (*Dentalium dentalis* Linnaeus, 1758)	A	8.6-25	D20, D46, D62, D64
Antalis rossati (Caprotti, 1966)	Çevik and Sarıhan, 2004: 95 (*Dentalium rossati* Caprotti, 1966)			
Antalis vulgaris (da Costa, 1778)	Çevik and Sarıhan, 2004: 95 (*Dentalium vulgare* da Costa, 1778)			
***Antalis inaequicostata* (Dautzenberg, 1891)**	Öztürk, 2011: 7	A	Mediolitt.-100	Q9, Q11, G13, D17, D22, D24-D29, D34-D38, D43, D45, D52, D55, D57
***Fustiaria rubescens* (Deshayes, 1825)**	Öztürk, 2011: 9	A	7.3-25	D28-D30, D46, D48, D52, D63
CEPHALOPODA				
[A]*Octopus aegina* Gray, 1849	Salman et al., 1999: 13 (*Octopus aegina/kagoshimensis* Ortmann, 1888)			
Octopus macropus Risso, 1826	Çevik and Sarıhan, 2004: 95			
Octopus vulgaris Cuvier, 1797	Çevik and Sarıhan, 2004: 95			
Eledone moschata (Lamarck, 1798)	Çevik and Sarıhan, 2004: 95			
Sepia elegans de Blainville, 1827	Çevik and Sarıhan, 2004: 95			
Sepia officinalis Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			
Sepiola rondeleti Leach, 1817	Çevik and Sarıhan, 2004: 95			
[A]*Sepioteuthis lessoniana* Ferussac, 1830	Salman and Katağan, 2002: 72 (*Sepioteuthis lessoniana* Lesson, 1830)			
Loligo vulgaris Lamarck, 1798	Çevik and Sarıhan, 2004: 95			
Argonauta argo Linnaeus, 1758	Çevik and Sarıhan, 2004: 95			

Biotopes [**A**: sand, mud, sandy mud, muddy sand, silt; **B**: rock, stone, pier pole and rope, gravel, coralligenous; **C**: Algae (*Jania rubens*, *Cystoseira* spp., *Padina pavonica*, *Dictyota dicotoma*, *Ulva* sp., *Stypopodium schimferi*); **D**: Sponge]; * New record to the Turkish Levantine coast, ** New record to the Turkish coasts, [A]Alien species).

(Pennant, 1777), *Clausinella fasciata* (da Costa, 1778), *Xylophaga dorsalis* (Turton, 1819), *Thracia convexa* (Wood, 1815)] are new records for the mollusc fauna of the Turkish Levantine coast.

Vitreolina cf. *perminima* was found in a sandy habitat at 50 m depth. The holotype of the species was also described from the eastern Mediterranean, which was found in a material taken along the Crete coast at depth between 120 and 200 m (Campani, 2001). The other known localities for the species are Cypriot coast (Öztürk et al., 2003) and North Adriatic Sea (Casellato and Stefanon, 2008).

The other species, which are new records to the Levantine coast of Turkey, are widely distributed in the Mediterranean. Because the studies carried out along the Turkish Levant coast (except for Buzzurro and Greppi, 1996 and Çevik and Sarıhan, 2004), were mainly focused on alien species, probably it is the reason to be found high number new record native species in the subjected area. The work by Buzzurro and Greppi (1996) deals with the molluscs around Taşucu, whereas the second study is on the molluscs of Iskenderun Bay, in which were reported 126 species from different habitats.

It would be suitable to add a note on the genus *Siphonaria* (Gastropoda), which is represented with two species in Iskenderun Bay: *S. crenata* and *S. belcheri*; and in the present study were found 27 specimens belonging to *S. crenata*. Beforehand *S. belcheri* was taken up as synonymous with *S. crenata* (Zenetos et al., 2003 and CLEMAM). In an our recently published study (Cinar et al., 2011), according to CLEMAM, we also used as valid name *S. crenata* de Blainville, 1827. After a carefully investigation of our specimens found in this study comparing with the informations given for *S. belcheri* in Albayrak and Çağlar (2006), we are now in opinion of Delongueville and Scaillet (2010), that in Iskenderun Bay *Siphonaria* is represented with two valid species: *S. belcheri* Hanley, 1818 and *S. crenata* de Blainville, 1827. In the present study no specimen of *S. belcheri* was found.

Among the identified 286 mollusc species, 134 species are noted in the present study for the first time from Iskenderun Bay. On the other hand, 137 species subjected in various studies carried out previously in the area (i.e., Micali and Palazzi, 1992; Çevik and Sarıhan, 2004; Albayrak, 2010) were not encountered in the present study.

A great part of the mollusc species (250) identified in this study were found to be distributed between 0 and 50 m and the remaining part (37 species) were encountered at depths over 50 m. Among the substrata, from which were sampled the investigated specimens, soft substratum (sand, mud or their mixture in different rates) was the most prefered one, inhabiting by 256 mollusc species, following by hard substrate (96 species), algae (49 species), and sponges (7 species), respectively (Table 2).

According to inhabiting alien species, Iskenderun Bay is one of the richest region in the Levantine Sea, due to its geographic characteristics and to the port, which is a centre of the international commercial transport from the area. A total of 400 alien species were known from the Turkish coasts, of which 330 species were found to be distributed along the Turkish Levantine coast (Çinar et al., 2011). Among 14 systematic groups having alien representatives in the Mediterranean, Mollusca is the richest group with 105 species (Çinar et al., 2011), of which 77 species are also distributed in Iskenderun Bay (Table 2). Thus, the alien moluscs constitute an important part (%18) of the molluscan fauna in the region, and among the entering pathways of the aliens to the Mediterranean, the shipping seems as the most important way, following by those introduced through the Suez Canal.

Based on the present study and the literatures covered the area, it was prepared a checklist of the mollusc species distributed in Iskenderun Bay, and totally 424 molluscs are listed. Out of the listed molluscs, 271 species belong to class Gastropoda, 130 species to Bivalvia, 10 species to Cephalopoda, 8 species to Polyplacophora and 5 species to Scaphopoda (Table 2). No representatives of class Caudofoveata, Solenogastres and Monoplacophora have been found.

In conclusion, Iskenderun Bay is one of the areas more susceptible to invasions due to its proximity to Suez Canal and intensive maritime traffic. Therefore, the situation of alien species in the region and their effects on the native biota should be monitored periodically also in the future.

Acknowledgements

We are much indebted to two anonymous referees for their constructive comments on the manuscript. This study has been partially supported by TÜBİTAK (Project Number: 104 Y 065).

References

Aartsen, J.J.van, Barash, A. and Carrozza, F. 1989. Addition to the knowledge of the Mediterranean Mollusca of Israel and Sinai. Bollettino Malacologico, 25 (1-4): 63-76.

Aartsen, J.J.van and Recevik, M. 1998. Two more Indo-Pacific species found in the Mediterranean. La Conchiglia, 30 (286):13-15.

Aartsen, J.J.van and Goud, J. 2000. European Marine Mollusca:Notes on less well-known species, XV. Notes on Lusitanian species of *Parvicardium* Monterosato, 1884, and *Afrocardium richardi* (Audouin, 1826) (Bivalvia, Heterodonta, Cardiidae). Basteria, 64: 171-186.

Albayrak, S. 2010. Distribution of alien bivalve species in the soft bottom of Iskenderun Bay (Turkey, NE Levantine Sea). Cahiers de Biologie Marine, 51: 45-53.

Albayrak, S. and Çağlar, S., 2006. On the presence of

Siphonaria belcheri Hanley, 1858 [Gastropoda: Siphonariidae] and *Septifer bilocularis* (Linnaeus, 1758) [Bivalvia: Mytilidae] in the Iskenderun Bay (SE Turkey). *Aquatic Invasions*, 1 (4): 292-294.

Albayrak, S. and Çağlar, S. 2010. Three Bivalvia Species New to Turkish Levantine Sea. IUFS Journal of Biology, 69 (2): 107-110.

Albayrak, S. and Çeviker, D. 2001. Two New Extra-Mediterranean Molluscs from Southeast Turkey: *Siphonaria belcheri* Hanley, 1858 (Gastropoda: Siphonariidae) and *Septifer bilocularis* (Linnaeus, 1758) (Bivalvia: Mytilidae). Israel Journal of Zoology, 47: 297-298. doi: /10.1560/50DQ-KE0G-N9RB-8K9A

Barash, A. and Danin, Z. 1977. Additions to the Knowledge of Indo-Pacific Mollusca in the Mediterranean. Conchiglie, 13 (5-6): 85-116.

Blöcher, M. 1983. A dead specimen of *Palmadusta gracilis* (Gaskoin, 1849) found in the Mediterranean. La Conchiglia, 10: 166-167.

Buzzurro, G. and Greppi, E. 1994. Presenza di *Smaragdia* (*Smaragdella*) *souverbiana* (Montrouzier, 1836) nel Mediterraneo Orientale. Bollettino Malacologico, 29: 319-321.

Buzzurro, G., Engl, W. and Tümtürk, I. 1995. Bivalven und Gastropoden der Europäischen Meer (4): *Ergalatax martensi* (Dall, 1923) (Muricidae), ein neuer lessepsischer einwanderer von der Türkischen Südküste. Club Conchylia Informationen, 27: 17-18.

Buzzurro, G. and Greppi, E. 1996. The lessepsian molluscs of Tasucu (South-East Turkey). La Conchiglia, 279: 3-22.

Campani, E. 2001. Eulimidae Mediterranee. Documenti del Gruppo Malacologico Livornese, 33.

Casellato, S. and Stefanon, A. 2008. Coralligenous habitat in the northern Adriatic Sea: an overview. Marine Ecology, 29: 321–341. doi: /10.1111/j.1439-0485.2008.00236.x

CLEMAM, 01.06.2011. http://www.somali.asso.fr/clemam/index.php

Çevik, C. and Sarıhan, E. 2004. Iskenderun Körfezi Mollusca Faunası. B. Öztürk & A. Salman (Ed.), 1st National Malacology Congress, Turkish Marine Research Foundation, İstanbul: 93-97.

Çevik, C., Doğan, A., Önen, M. and Zenetos, A. 2005. First record of the Indo-Pacific species *Electroma vexillum* (Mollusca: Bivalvia: Pterioida) in the eastern Mediterranean. JMBA Biodiversity Records, 1-4.

Çevik, C. and Ergüden, D. 2004. Türkiye'nin Kuzeydoğu Akdeniz Sahilleri (Samandağ-Anamur) Polyplacophora (Mollusca) Faunası. B. Öztürk & A. Salman (Ed.), 1st National Malacology Congress, Turkish Marine Research Foundation, İstanbul: 87-91.

Çevik, C. and Ergüden, D. 2008. Iskenderun Körfezi' nde Dağılım Gösteren Bazı Opisthobranchia Türleri. C. Çevik & D. Ergüden (Ed.), 2nd National Malacology Congress, Adana: Turkey: 243-264.

Çevik, C. and Öztürk, B. 2001. A new lessepsian mollusc *Hypselodoris infucata* (Ruppell & Leuckart, 1828) (Gastropoda: Nudibranchia) for the coasts of Turkey. Turkish Journal of Zoology, 25: 27-30.

Çevik, C., Kıdeyş, A., Toklu, B., Ergüden, D. and Sarıhan, E. 2006. New Pelagic Gastropoda Species Encountered on the Turkish coast on the Levant Sea. Turkish Journal of Veterinary Animal Science, 30: 151-157.

Çeviker, D. and Albayrak, S. 2002. New Record of an Exotic Bivalve from the Southeastern Coast of Turkey: *Scapharca inflata* (Reeve, 1844). La Conchiglia, 34 (305): 56-60.

Çeviker, D. and Albayrak, S. 2006. Three alien molluscs from Iskenderun Bay (SE Turkey). Aquatic Invasions, 1(2): 76-79.

Çeviker, D. 2001. Recent immigrant Bivalves in the northeastern Mediterranean off Iskenderun. La Conchiglia, 298: 39-46.

Çinar, M.E., Bilecenoğlu, M., Öztürk, B. Katağan, T., Yokeş, M.B., Aysel, V., Dağli, E., Açik, S., Özcan, T. and Erdoğan, H. 2011. An updated review of alien species on the coasts of Turkey. Mediterranean Marine Science, 12(1): 21-41.

Çinar, M.E., Bilecenoglu, M. Öztürk, B. and Can, A. 2006. New records of alien species on the Levantine coast of Turkey. Aquatic Invasions, 1(2): 84-90. doi: /10.3391/ai.2006.1.2.6

Delongueville, C. and Scaillet, R. 2005. Illustration de *Gastrochaena cymbium* Spengler, 1783 en Méditerranée orientale sur *Hexaplex pecchiolianus* (d'Ancona, 1871). Novapex/Societe, 6(4) : 129-131.

Delongueville, C. and Scaillet, R. 2006. Mollusques associés à *Spondylus spinosus* Schreibers, 1793 dans le golfe d'Iskenderun (Turquie). Novapex/Societe, 7(2-3) : 29-33.

Delongueville, C. and Scaillet, R. 2007. Les espèces invasives de molusques en Méditerranée. Novapex/Societe, 8(2): 47-70.

Delongueville, C. and Scaillet, R. 2010. Importante population de *Siphonaria crenata* Blainville, 1827 implantée à l'ouest du golfe d'Iskenderun (Turquie). Novapex/Societe, 11(1): 8-11.

Doğan, A., Önen, M., Öztürk, B. and Bitlis, B. 2007. On the presence of *Pandora inaequivalvis* (Bivalvia:Pandoridae) on the Levantine Coast of Turkey. JMBA2 Biodivesity Records, 5963.

Doygun, H. and Alphan, H. 2006. Monitoring urbanization of Iskenderun, Turkey, and its negative implications. Environmental Monitoring and Assessment, 114: 145–155. doi: /10.1007/s10661-006-2524-0

Engl, W. 1995. Specie prevalentemente lessepsiane attestate lungo le coste Turche. Bollettino Malacologico, 31(1-4): 43-50.

Engl, W. and Çeviker, D. 1999. New migrant species from southeast Turkey *Psammotreta praerupta* (Salisbury, 1934) and *Antigona lamellaris* Schumacher, 1817. La Conchiglia, 31(290): 17-20.

Enzenross, L. and Enzenross, R. 1987. Studie über das Vorkommen von Mollusca und Crustacea an der türkischen Küste (Mittelmeerküste und Ägäis). Ravensburg,Unveröffentlichtes Manuskript,1-17.

Enzenross, L., Enzenross, R. and Niederhöfer, H.J. 1990. Wissenschaftlich interessante Funde aus der Sammlung Enzenross (Marine Invertebraten). Jahreshefte der Gesellschaftten fure Naturkunde in Wuerttemberg, 145: 283-294.

Falchi, S. 1974. Molluschi di provenienza Indopacifica lungo le coste Turche. Conchiglie, 10: 89.

Gianuzzi-Savelli, R., Pusateri, F., Palmeri, A. and Ebreo, C. 2003. Atlas of the Mediterranean Seashells (Neogastropoda:Muricoidea). Vol. 4. Edizioni Evolver, Roma: 298 p.

Giunchi, L., Micali, P. and Tisselli, M. 2001. Report of two new Lessepsian immigrants from Turkey. La Conchiglia, 33 (298): 47-48.

Giunchi, L. and Tisselli, M. 1995. *Cronia* cf. *konkanensis*

(Melvill, 1893), new Indo-Pacific host in the Mediterranean Sea. La Conchiglia, 275: 8-9.

Houart, R. 2000. New species of Muricidae (Gastropoda) from the northeastern Atlantic and the Mediterranean Sea. Zoosystema, 22(3): 459-469.

Kinzelbach, R. 1985. Lesseps'sche Wanderung: neue Stationen von Muscheln (Bivalvia: Anisomyaria). Archiv für Molluskenkunde, 115 (4-6): 273-278.

Linden, J. Van Der and Eikenboom, J.C.A. 1992. On the taxonomy of the recent species of the genus *Chrysallida* Carpenter from Europe, the Canary Island and the Azores (Gastropoda, Pyramidellidae). Basteria, 56: 3-63.

Lindner, G. 1987. Interessante Schneckenfunde an der Südtürkischen Mittelmeerküste (Reisemitbringsel der Familie SCHMIDT, Feldkirchen). Club Conchylia Informationen, 19: 32-43.

Micali, P. and Palazzi, S. 1992. Contributo alla conoscenza dei Pyramidellidae della Turchia, con segnalazione di due nuove immigrazioni dal Mar Rosso. Bollettino Malacologico, 2(8): 83-90.

Niederhöfer, H.J. Enzeross, L. and Enzeross, R. 1991. Neue Erkenntnisse über die Ausbreitung von „Lesseps'schen Einwanderern" (Mollusca) an der türkischen Mittelmeerküste. Club Conchylia Informationen, 23(3-4): 94-108.

Öztürk, B. Buzzurro, G. and Benli, H.A. 2003. Marine molluscs from Cyprus: new data and checklist. Bollettino Malacologico, 39(5-8): 49-78.

Öztürk, B. and Aartsen, J.J.van. 2006. Indo-Pacific species in the Mediterranean. 5.*Chrysallida micronana* nom. nov. for *Chrysallida nana* (Hornung and Mermod, 1924) (Gastropoda. Pyramidellidae). Aquatic Invasions, 1(4): 241-244. doi: /10.3391/ai.2006.1.4.7

Öztürk, B. and Can, A. 2006. Indo-Pacific gastropod species in the Levantine and Aegean Seas. Aquatic Invasions, 1(3): 124-129. doi: /10.3391/ai.2006.1.3.4

Öztürk, B., Doğan, A., Bitlis, B. and Önen, M. 2008. Türkiye Denizleri' nde Dağılım Gösteren *Bela*, *Fehria* ve *Mangelia* (Gastropoda:Conidae) Türlerinin Taksonomik ve Ekolojik Özellikleri, C. Çevik & D. Ergüden (Ed.), 2nd National Malacology Congress, Adana: Turkey: 22-60.

Öztürk, B. 2011. Scaphopod species (Mollusca) of the Turkish Levantine Sea and Aegean Seas. Turkish Journal of Zoology, 35(3): 1-13.

Özvarol, Y., Gökoğlu, M. and Karabacak, G.S. 2010. First report of *Hypselodoris infucata* (Rüppell & Leuckart, 1830)–(Mollusca, Opisthobrancia, Chromodorididae) in the Gulf of Antalya, Levantine coast of Turkey, Eastern Mediterranean. Aquatic Invasions, 5(1): 109-111. doi: /10.3391/ai.2010.5.S1.022

Palazzi, S. 1993. Ci sono due *Zafra* in mediterraneo, ma come si chiamano? Notizario CISMA, 14: 13-18.

Salman, A., Katagan, T. and Boletzky, S. 1999. New Cephalopod Molluscs in the Eastern Mediterranean: Previously unnoted species or recent migrants? Vie et Milieu, 49(1): 11-17.

Salman, A. and Katağan, T. 2002. Lessepsian Immigrant Cephalopods of the Mediterranean Sea, In: B. Öztürk & N. Başusta (Ed.), Workshop on Lessepsian Migration, Gökçeada: Turkey: 71-74.

Swennen, C. 1961. On a collection of Opisthobranchia from Turkey. Zoologische Mededelingen, 38: 41-75.

Şen, S. and Yalçın, M. 2010. Türkiye Denizlerinde Bazı yerli ve Tropik Ağaç Türlerinde oluşan Tahribatın İncelenmesi, 3rd National Black Sea Forestry Congress, Turkey: 4: 1631-1638.

Tringali, L. and Villa, R. 1990. Rinvenimenti malacologici dalle coste Turche (Gastropoda, Polyplacophora, Bivalvia). Notizario CISMA, 11: 33-41.

Yokeş, M.B. 2009. Additions to the knowledge of Opisthobranchia from Turkey. Triton, 5-19.

Yokeş, B. and Rudman, W.B. 2004. Lessepsian opisthobranchs from southwestern coast of Turkey; five new records for Mediterranean. Rapport de la Commission Internationale Exploration de la Mer Méditerranee, 37: 557.

Zenetos, A., Gofas, S., Russo, G. & Templado, J., 2003. CIESM atlas of exotic species in the Mediterranean.Vol. 3. Molluscs. Monaco: CIESM Publishers, 376 p.

Zenetos, A., Gofas, S., Verlaque, M., Cinar, M.E., Garcia Raso, J.E., Bianchi, C.N., Morri, C., Azzurro, E., Bilecenoğlu, M., Froglia, C., Siokouo, I., Violanti, D., Sfriso, A., San Martin, G., Giangrande, A., Katağan, T., Ballesteros, E., Ramos-Espla, A., Mastrototaro, F., Ocana, O., Zingone, A., Gambi, M.C. and Streftaris, N. 2010a. Alien Species in the Mediterranean Sea by 2010. A contribution to the application of European Union's Marine Strategy Framework Directive (MSFD). Part 1. Spatial Distribution. Mediterranean Marine Science, 11(2): 381-493.

Zenetos, A., Ovalis, P. and Çeviker, D. 2010b. On some Indo Pacific boring endolithic Bivalvia species introduced into the Mediterranean Sea with their host-spread of *Sphenia rueppelli* A.Adams, 1850. Mediterranean Marine Science, 11(1): 201-207.