

**BENTHIC FORAMINIFERA OF EASTERN
AEGEAN SEA (TURKEY)
SYSTEMATICS AND AUTOECOLOGY**

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INTRODUCTION

Benthic foraminifera from 304 bottom samples, all between depths of 0.50 and 631.00 m, were collected in various gulfs and localities in Eastern Aegean Sea. These are Gulf of Saros (80 samples) including the Harmantaşı locality (47 samples) (Fig. 1), Gökçeada Island (34 samples) (Fig. 2), Bozcaada Island (17 samples) (Fig. 3), Gökçeada-Bozcaada-Çanakkale triangle (37 samples) (Fig. 4), Gulf of Edremit (18 samples) (Fig. 5), Dikili and Çandarlı Bays (14 samples) (Fig. 6), Gulf of Izmir and the vicinity of Karaburun Peninsula (5 samples) (Fig. 7), Çeşme (12 samples), Gulf of Kuşadası and Güllük Bay (15 samples) (Fig. 8), Gulf of Gökova (8 samples) (Fig. 9), Gulf of Datça (9 samples) and Marmaris Bay (8 samples) (Fig. 10). Sampling depths differ greatly based on study localities. The depths are 12.30-631.00 m in the Gulf of Saros, 0.50-68.00 m in the vicinity of Gökçeada, 0.50-7.00 m in the vicinity of Bozcaada, 18.00-137.50 m between Gökçeada-Bozcaada-Çanakkale triangle, 15.00-334.50 m in the Gulf of Edremit, 16.00-80.00 m in the Dikili and Çandarlı Bays, 26.50-63.50 m in the Gulf of Izmir and surroundings of Karaburun, 0.50 m in Çeşme, 29.00-315.00 m in the Gulf of Kuşadası and Güllük Bay, 27.00-198.00 m in the Gulf of Gökova, 40.00-252.30 m in the Gulf of Datça, and 29.90-128.80 m in the Marmaris Bay. Several species of benthic foraminifers were identified in the samples. The distribution of species is as follows: 167 species in the Gulf of Saros, 104 species in the vicinity of Gökçeada, 58 species in the vicinity of Bozcaada, 157 species in the Gökçeada-Bozcaada-Çanakkale triangle, 102 species in the Gulf of Edremit, 97 species in the Dikili and Çandarlı Bays, 79 species in the Gulf of Izmir and Karaburun region, 40 species in Çeşme, 118 species in the Gulf of Kuşadası and Güllük Bay, 109 species in the Gulf of Gökova, 108 species in the Gulf of Datça, and 93 species in the Marmaris Bay.

Table 1. Bathimetric distribution of foraminifers is based on the following divisions (Sgarrella and Monchancharmont-Zei, 1993).

Zone	Upper limit (m)	Lower limit (m)
Infralittoral	0	40.00-50.00
Upper circalittoral	40.00-50.00	80.00-100.00
Lower circalittoral	80.00-100.00	150.00-200.00
Upper epibathyal	150.00-200.00	400.00-500.00
Lower epibathyal	400.00-500.00	1000.00

The Aegean Sea is composed of numerous islands and gulfs due to tectonism. Thus, many cold and warm water springs exist in the western shores of Turkey. Examples include cold water springs in various locations in the Gulf of Edremit, Bademli hot springs on Dikili-Çandarlı road, thermal springs in Aliağa Ilıcaburun, Çeşme-Ilıca, Seferhisar Doğanbey Cape, Gülbahçe and Ilıksu, thermal springs in Kuşadası and in the vicinity of Davutlar, Bodrum Karaada and Köyceğiz-Sultaniye (personal communication Assoc. Prof. Dr. Gültekin TARCAN, Dokuz Eylül Univ., and Dr. Levent ÇETİNER, MTA Regional Directorate, June 2002)

thermal springs of Güre, Bostancı, Zeytinpınarı and Küçük Çetmi, north of the Gulf of Edremit. In addition, the shore environments of Lesbos, Milos and Kos Islands, outside of Turkey, could be given as other examples (Çağlar, 1950; Başkan ve Canik, 1983; Dotsika et al., 1995; Thiermann et al., 1997; Meriç and Aşar, 2000 and 2001; Meriç et al., 2002 a and b). Therefore, foraminifer populations displaying extraordinary variation have been reported from each of these locations.

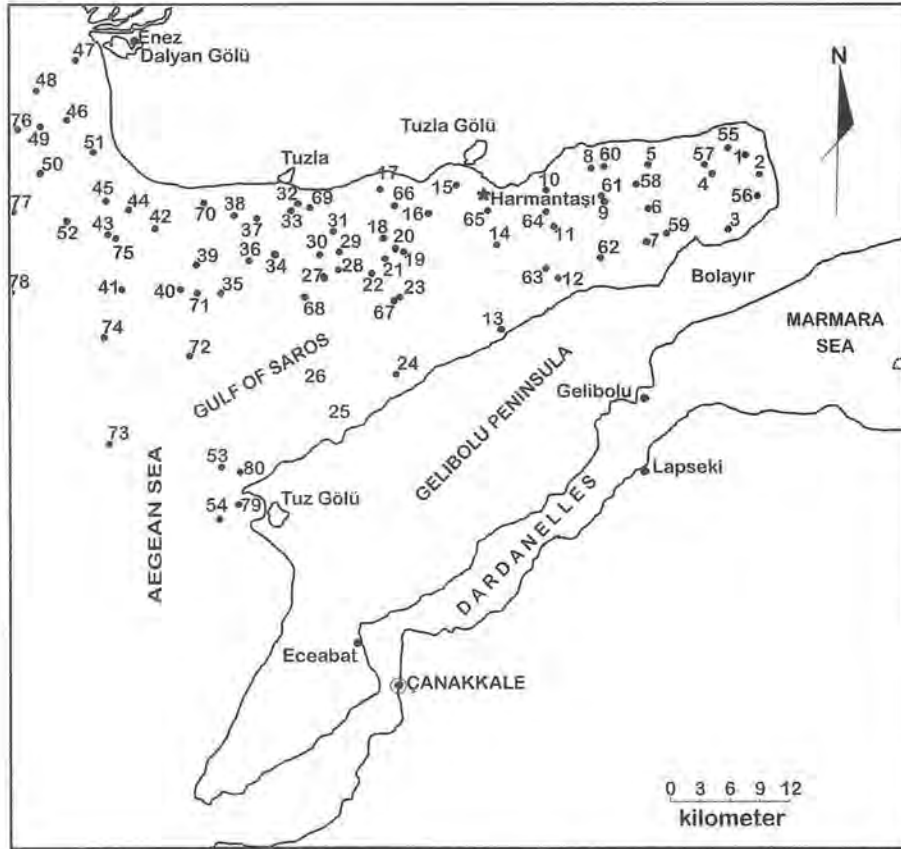


Figure 1. Location map of the Gulf of Saros and sampled localities.

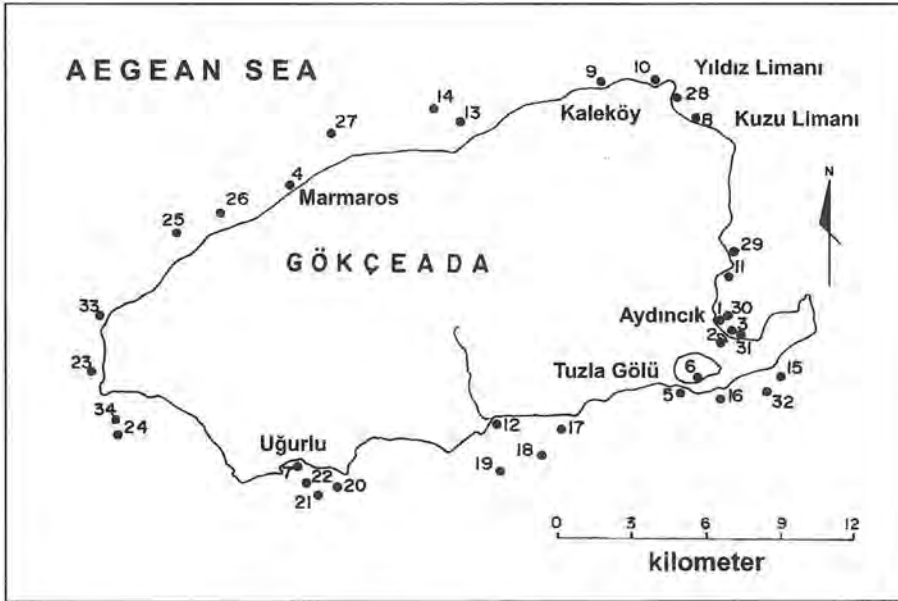


Figure 2. Location map of Gökçeada and sampled localities.



Figure 3. Location map of Bozcaada and sampled localities.



Figure 4. Location map of the Gökçeada, Bozcaada and Çanakkale triangle and sampled localities.

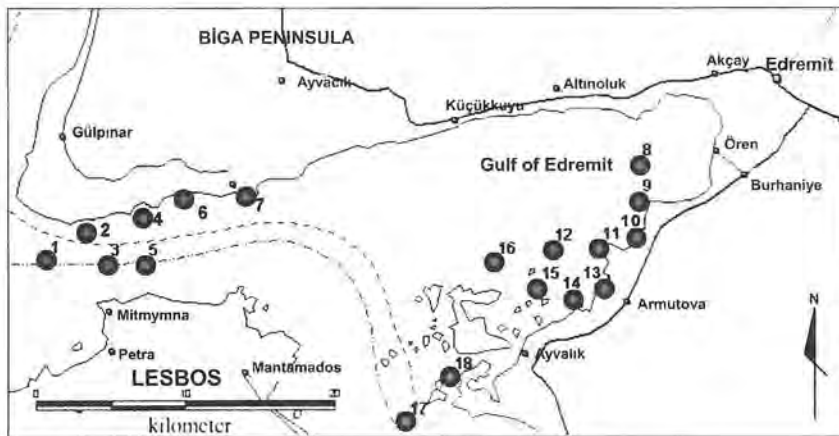


Figure 5. Location map of the Gulf of Edremit and sampled localities.

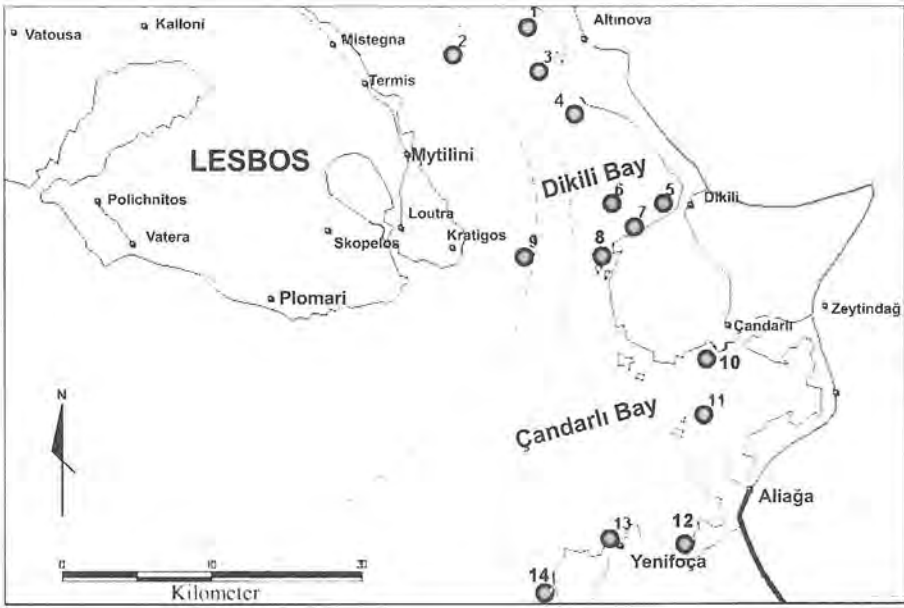


Figure 6. Location map of the Dikili and Çandarlı Bays and sampled localities.

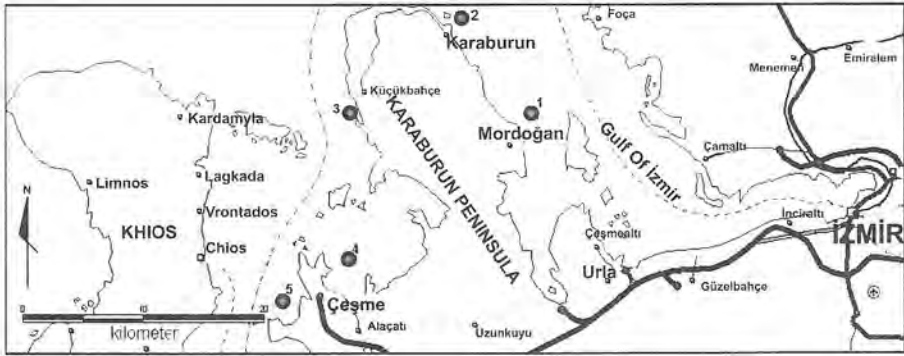


Figure 7. Location map of Gulf of Izmir and the vicinity of Karaburun Peninsula and sampled localities.

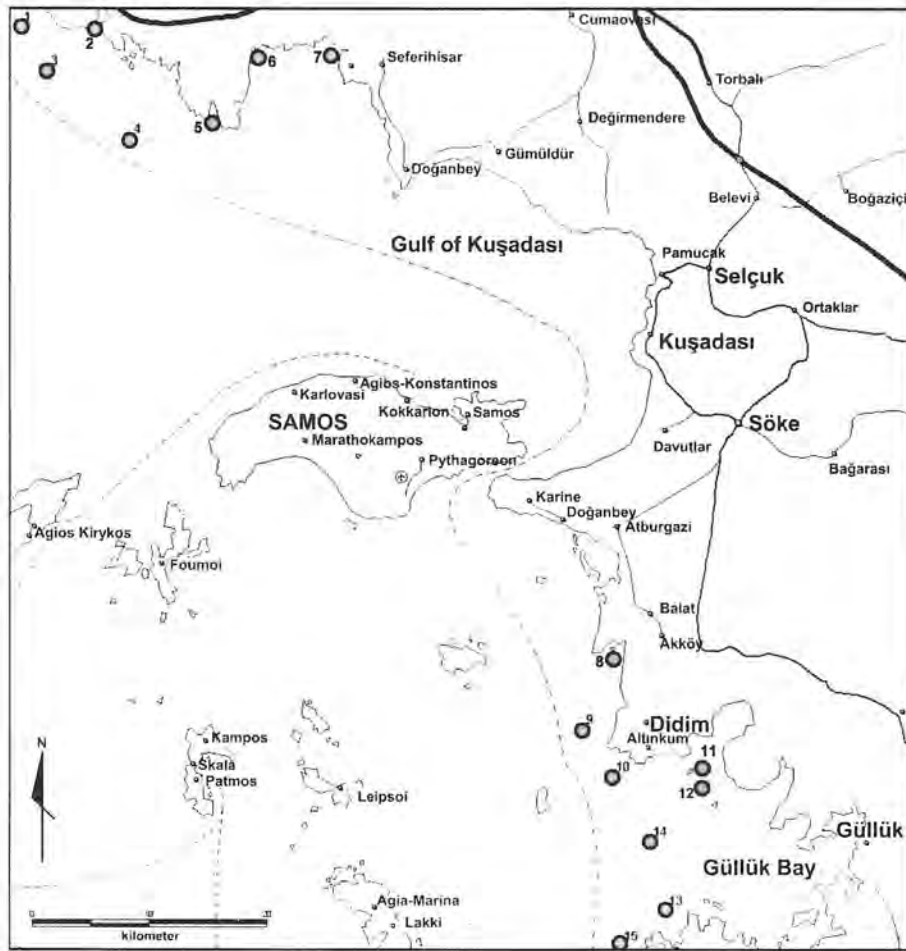


Figure 8. Location map of the Gulf of Kuşadası and Güllük Bay and sampled localities.

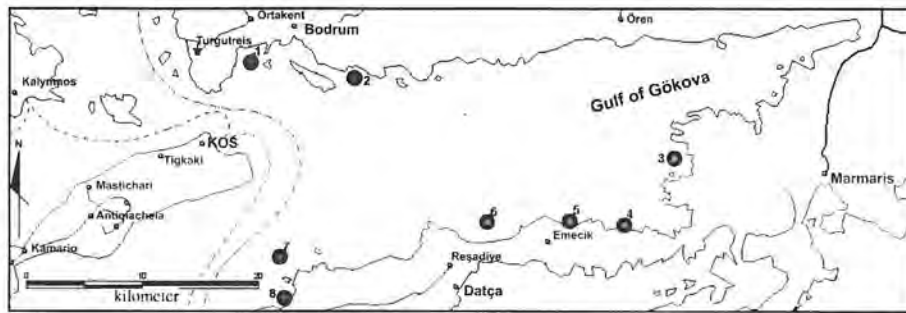


Figure 9. Location map of the Gulf of Gökova and sampled localities.

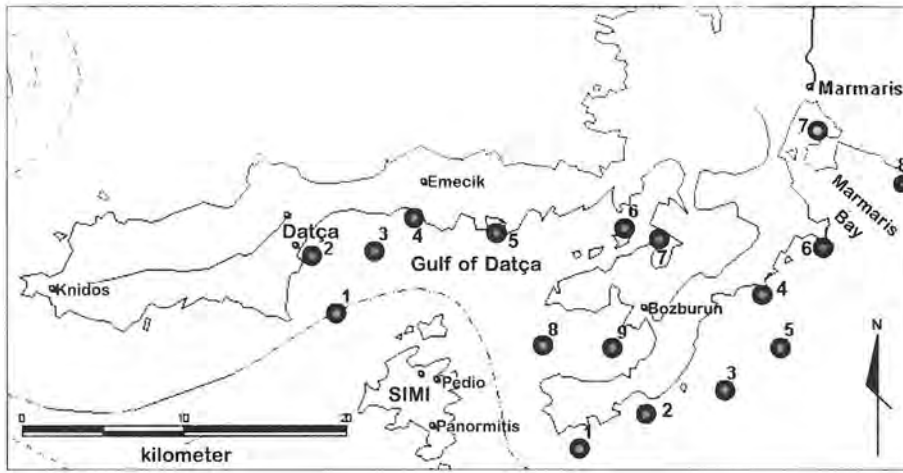


Figure 10. Location map of the Gulf of Datça and Marmaris Bay and sampled localities.

TEMPERATURE AND SALINITY

Bottom waters in the Gulf of Saros maintain a constant temperature around 14 °C throughout the year while the surface water temperatures change seasonally. In spring time (April), surface water temperatures change between 12.50-14.00 °C. During summer (August) water temperatures climb up to 20.56-22.80 °C, later to be dropped in the fall (September) down to 16.00-21.00 °C range. In winter (January) water temperatures are between 9.80-10.96 °C. Primary reason for this seasonal change in surface water temperatures is the influx of colder Black Sea waters into the Aegean. In the Gulf of Saros, the salinity difference between the surface and deep waters rarely exceeds ‰ 4-5 throughout the year. Seasonal maximum, mean and minimum salinity levels change with depth in the region. Thus, salinity levels gradually increase from surface to depth. For example, spring (April) surface salinity is ‰ 34.93-38.78, while salinity at 50.00 m depth is ‰ 38.63-38.84. Summer time (August) salinity is ‰ 34.10-38.60 at the surface but ‰ 38.86-38.98, at 50.00 m depth. Fall (September) surface salinity is reported to be ‰ 35.86-38.69 and ‰ 38.65-38.84 at 50.00 m depth. Finally, winter time (January) salinity is ‰ 34.47-36.95 at the surface but ‰ 37.62-38.49 at 50.00 m depth (Meriç et al., 2002 c). Based on the T. C. D. K. K. Hydrography and Oceanography Office records, fall (September) water temperatures in Dardanelles range between 19.30-19.53 °C while winter (February) temperatures are 9.49-14.70 °C. Salinity in the same time periods is ‰ 38.54-38.97 and ‰ 31.21-39.28 respectively. Similarly, in the Gulf of Edremit, fall (September) water temperatures are between 20.54-21.35 °C, winter water temperatures are between 13.07-13.59 °C, and salinity levels range between ‰ 39.13-39.24 during summer and ‰ 39.09-39.15 during winter. In Dikili, fall water temperature is 21.43-21.61 °C and winter time (February) water temperature are between 13.93-14.14 °C. Salinity during summer is ‰ 38.90-39.01 and during winter is ‰ 39.04-39.27. In Çandarlı, summer time water temperature is 21.26 °C and winter time water temperature is between 13.51-13.70 °C. Salinity during summer period is ‰ 38.84 and between ‰ 39.04-39.23 respectively. In the Gulf of Izmir and vicinity of Karaburun Peninsula water temperatures are 21.28-21.56 °C in summer and 14.23-14.56 °C in winter. Similarly, salinity levels range between ‰ 38.51-39.26 and ‰ 39.14-39.24, respectively for winter and summer. In the vicinity of Güllük Bay, summer water temperature is 21.96 °C while in winter water temperature drops to 14.76 °C. Salinity is ‰ 39.51 in summer and changes to ‰ 38.35 in winter. Finally in the Gulf of Datça, water temperatures rarely exceed 16.01 °C in winter when water salinity is around ‰ 38.99.

Table 2d. Distribution of foraminiferal species in different localities of the Eastern Aegean Sea (Turkey).

FORAMINIFERA	STATIONS												
	S	Ga	Ba	GB Ç	E	DC	I	C	KG	G	D	M	
<i>Amphicoryna scalaris</i>	*	*		*					*	*	*	*	
<i>Astacolus crepidulus</i>	*			*	*					*	*	*	
<i>Astacolus insolitus</i>										*			
<i>Astacolus sublegumen</i>					*					*			
<i>Marginulina costata</i>											*	*	
<i>Lagena nebulosa</i>				*									
<i>Lagena semistriata</i>				*									
<i>Lagena striata</i>	*			*					*	*	*	*	
<i>Globulina myristiformis</i>	*			*									
<i>Globulina punctata</i>		*											
<i>Polymorphina sp. 1</i>					*	*							
<i>Polymorphina sp. 2</i>		*							*	*			
<i>Polymorphina sp. 3</i>	*	*	*	*	*				*		*	*	
<i>Polymorphina sp. 5</i>	*	*	*	*									
<i>Polymorphina sp. 7</i>	*												
<i>Favulina hexagona</i>				*	*								
<i>Favulina squamosa</i>					*								
<i>Fissurina lucida</i>				*									
<i>Fissurina neptunii</i>				*									
<i>Fissurina orbignyana</i>				*									
<i>Fissurina sidebottomi</i>	*												
<i>Parafissurina lateralis</i>				*									
<i>Parafissurina stapyllaria</i>				*									
<i>Glandulina laevigata</i>	*												
<i>Hoeglundina elegans</i>	*			*	*				*	*	*		
<i>Brizalina alata</i>	*			*									
<i>Brizalina spathulata</i>	*			*									
<i>Brizalina striatula</i>				*									
<i>Cassidulina carinata</i>	*			*	*								
<i>Globocassidulina subglobosa</i>				*									
<i>Stainforthia complanata</i>				*									
<i>Rectovigerina phlegeri</i>	*			*									
<i>Rectobolivina columellaris</i>	*												
<i>Bulimina aculeata</i>				*									
<i>Bulimina costata</i>	*												
<i>Bulimina elongata</i>	*	*		*					*				
<i>Bulimina marginata</i>	*			*	*				*				
<i>Globobulimina affinis</i>	*			*	*								
<i>Globobulimina pseudospinescens</i>	*			*									
<i>Euuvigerina sp.</i>	*												
<i>Uvigerina mediterranea</i>	*			*	*				*				
<i>Uvigerina peregrina</i>									*	*	*		
<i>Angulogerina angulosa</i>				*									
<i>Reussella spinulosa</i>	*	*		*		*	*				*		
<i>Fursenkoina acuta</i>	*			*									
<i>Cancris sagra</i>					*								
<i>Valvulineria bradyana</i>	*	*		*	*	*	*		*	*		*	
<i>Eponides concameratus</i>	*	*	*	*	*	*	*		*	*	*	*	
<i>Planopulvinulina dispansa</i>	*												
<i>Stomatorbina concentrica</i>	*	*		*	*				*	*	*	*	
<i>Stomatorbina sp.</i>												*	
<i>Neoeponides bradyi</i>	*	*		*	*	*	*	*	*	*	*	*	
<i>Gavelinopsis praegeri</i>				*									
<i>Neoconorbina terquemi</i>	*	*		*		*	*		*	*		*	

Class FORAMINIFERA J. J. Lee, 1990
Order ASTRORHIZIDA Lankester, 1885
Superfamily ASTRORHIZACEA Brady, 1881
Family RHABDAMMINIDAE Brady, 1884
Subfamily RHABDAMMININAE Brady, 1884
Genus *Rhabdammina* M. Sars, 1869
Rhabdammina abyssorum Sars
(Pl. 1, fig. 1)

1993, *Rhabdammina abyssorum* Sars, Sgarella and Moncharmont-Zei, p. 150, pl. 1, fig. 1.

Occurrence: Gulf of Saros, S. 16 (71.10 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 24 (386.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 31, (83.80 m), S. 34 (82.00 m), S. 80 (98.00 m); Gulf of Gökova, S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m); this species occurs from 70.00 m downwards. It is frequent in the circalittoral zone but rare in the upper epibathyal zone.

Family PSAMMOSPHAERIDAE Haeckel, 1894
Subfamily PSAMMOSPHAERINAE Haeckel, 1894
Genus *Psammosphaera* Schulze, 1875
Psammosphaera fusca Schulze
(Pl. 1, fig. 2)

1993, *Psammosphaera fusca* Schulze, Sgarella and Moncharmont-Zei, p. 151, pl. 1, fig. 14.

Occurrence: Gulf of Saros, S. 28 (115.50 m), S. 31 (83.80 m); this species occurs only in the Gulf of Saros. It is rare in the lower circalittoral zone.

Family SACCAMINIDAE Brady, 1884
Subfamily SACCAMININAE Brady, 1884
Genus *Lagenammina* Rhumbler, 191
Lagenammina atlantica (Cushman)

1979 *Reophax atlantica* (Cushman), Blanc-Vernet et al., pl. 21, fig. 1.
1991 *Lagenammina atlantica* (Cushman), Cimerman and Langer, p. 15, pl. 1, figs. 1-3.
1993 *Lagenammina atlantica* (Cushman), Sgarella and Moncharmont-Zei, p. 152, pl. 1, fig. 13.

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 39 (37.70 m); this species occurs only in the Gulf of Saros. It is rare in the infralittoral and upper epibathyal zones.

Lagenammina fusiformis (Williamson)

(Pl. 1, figs. 3-4)

1947 *Proteonina fusiformis* Williamson, Höglund, p. 52, pl. 4, fig. 21, text-figs. 20-21.

1960 *Reophax fusiformis* (Williamson), Barker, pl. 30, figs. 7-10.

1991 *Lagenammia fusiformis* (Williamson), Cimerman and Langer, p. 15, pl. 1, f. figs. 4-5.

2001 *Lagenammia fusiformis* (Williamson), Avşar and Ergin, p. 767.

Occurrence: Gulf of Saros, S. 11 (79.60 m), S. 13 (156.00 m), S. 17 (33.90 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 34 (82.00 m), S. 38 (53.40 m), S. 62. (110 m), S. 68 (210.00 m), S. 76 (53.00 m), S. 79 (29.00 m), S. 80 (98.00 m), Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 14 (47.00 m), S. 15 (47.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 8 (35.80 m), S. 10 (22.50 m); Gulf of Kuşadası and Güllük Bay, S. 8 (29.00 m), S. 12 (62.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m); it is found from 18.00 to 210.00 m depth. It also occurs in the infralittoral, upper and lower circalittoral zones.

Superfamily HIPPOCREPINACEA Rhumbler, 1895

Family HIPPOCREPINIDAE Rhumbler, 1895

Subfamily HYPERAMMININAE Eimer and Fickert, 1899

Genus *Hyperammia* Brady, 1878

Hyperammia friabilis Haake

1884 *Hyperammia friabilis*, Brady, p. 258, pl. 23, figs. 1-3, 5, 6.

1918 *Hyperammia friabilis* Brady, Cushman, p. 75, pl. 29, figs. 1-3.

1928 *Hyperammia friabilis* Brady, Lacroix, p. 10, figs. 9 a-f.

1991 *Hyperammia friabilis* Brady, Cimerman and Langer, p. 15, pl. 2, fig. 1.

Occurrence: Gulf of Saros, Harmantaşı locality, Line-II, S. 7 (40.00 m): it occurs only in one sample collected from the infralittoral zone.

Order LITUOLIDA Lankester, 1885

Superfamily AMMODISCACEA Reuss, 1862

Family AMMODISCIDAE Reuss, 1862

Subfamily AMMODISCINAE Reuss, 1862

Genus *Ammodiscus* Reuss, 1862

Ammodiscus planorbis Höglund

(Pl. 1 figs. 5-7)

1947 *Ammodiscus planorbis* Höglund, p. 125, pl. 8, figs. 4, 9; pl. 28, figs. 13-16.

1991 *Ammodiscus planorbis* Höglund, Cimerman and Langer, p. 16, pl. 2, figs. 8-9

1993 *Ammodiscus planorbis* Höglund, Sgarella and Moncharmont-Zei, p. 154, pl.

1, fig. 9..

2001 *Ammodiscus planorbis* Höglund, Debenay et al., pl. 1, fig. 20.

Occurrence: Gulf of Saros, S. 19 (96.50 m), S. 21 (97.40 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (37.50 m), Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m): it occurs between 34.50-252.30 m. This species is also reported from the infralittoral and upper epibathyal zones.

Superfamily HORMOSINACEA Haeckel, 1894

Family REOPHACIDAE Cushman, 1910

Subfamily REOPHACINAE Cushman, 1910

Genus *Reophax* de Montfort, 1808

Reophax dentaliniformis (Brady)

1881 *Lituola (Reophax) dentaliniformis*, Brady, p. 49.

1884 *Lituola (Reophax) dentaliniformis* Brady, Brady, pl. 30, figs. 21-22.

1993, *Reophax dentaliniformis* (Brady), Sgarella and Moncharmont-Zei, p. 155, pl. 2, fig. 2.

Occurrence: Gulf of Saros, S. 15 (39.50 m): it is recorded from only one sample. It occurs in the infralittoral zone.

Reophax scorpiurus Montfort

(Pl. 1, fig. 8)

1920 *Reophax scorpiurus* Montfort, Cushman, p. 6, pl. 1, figs. 5-7.

1971 *Reophax scorpiurus* Montfort, Murray, p. 19, pl.2, figs. 5-8.

1974 *Reophax scorpiurus* Montfort, Colom, p. 86, figs. 5k, 1.

1979 *Reophax scorpiurus* Montfort, Alfirevic, p. 59, pl. 1, fig. 4.

1988 *Reophax scorpiurus* Montfort, Loeblich and Tappan, p. 58, pl. 44, figs. 1-3.

1991 *Reophax scorpiurus* Montfort, Cimerman and Langer, p. 17, -18, pl. 4, figs. 1-4.

1993 *Reophax scorpiurus* Montfort, Sgarella and Moncharmont-Zei, p. 156, pl. 2, fig. 5.

Figure 11 a. Distribution of *Rhabdammina abyssorum* Sars in the Eastern Aegean Sea, Turkish Coasts.

Figure 11 b. Distribution of *Psammosphaera fusca* Schulze in the Eastern Aegean Sea, Turkish Coasts.

Figure 11 c. Distribution of *Lagenammina atlantica* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 11 d. Distribution of *Lagenammina fusiformis* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.



II a



II b



II c



II d

Occurrence: Gulf of Saros, S. 6 (70.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 29 (92.00 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 65 (61.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 21 (47.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 18 (29.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 9 (67.00 m), S. 12 (62.00 m), S. 14 (82.00 m), S. 15 (83.70 m); Gulf of Gökova, S. 2 (27.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m); Marmaris Bay, S. 7 (28.90 m): it is mainly recorded in the depth-range of 15.00-252-320 m. This species is frequent in the infralittoral and circalittoral zones, and rare in the upper epibathyal zone.

Superfamily LITUOLACEA de Blainville, 1827
Family HAPLOPHRAGMOIDIDAE Maync, 1952
Genus *Haplophragmoides* Cushman, 1910
Haplophragmoides canariensis (d'Orbigny)

- 1839b *Nonionina canariensis*, d'Orbigny, p. 128, pl. 2, figs. 33, 34.
1910 *Haplophragmoides canariensis* (d'Orbigny), Cushman, p. 101, fig. 149.
1960 *Haplophragmoides canariensis* (d'Orbigny), Barker, pl. 35, figs. 1-3, 5.
1988 *Haplophragmoides canariensis* (d'Orbigny), Loeblich and Tappan, p. 66, pl. 49, figs. 12-13.
1991 *Haplophragmoides canariensis* (d'Orbigny), Cimerman and Langer, p. 18, pl. 4, figs. 7-9.
2001 *Haplophragmoides canariensis* (d'Orbigny), Meriç and Avşar, p. 127.

Occurrence: Gökçeada, S. 25 (25.00 m): it occurs only in one sample and is found in the infralittoral zone.

Genus *Labrospira* Höglund, 1947
Labrospira subglobosa (Sars)
(Pl. 1, figs. 9-10)

- 1910 *Haplophragmoides subglobosum* (Sars), Cushman, p. 105, figs. 162-164.
1920 *Haplophragmoides subglobosum* (Sars), Cushman, p. 45, pl. 8, fig. 5.
1974 *Haplophragmoides subglobosum* (Sars), Colom, p. 73, figs. 3 f, j.
1991 *Labrospira subglobosa* (Sars), Cimerman and Langer, p. 18, pl. 5, figs. 1-3.

Figure 12 a. Distribution of *Hyperammia friabilis* Haake in the Eastern Aegean Sea, Turkish Coasts.

Figure 12 b. Distribution of *Ammodiscus planorbis* Höglund in the Eastern Aegean Sea, Turkish Coasts.

Figure 12 c. Distribution of *Reophax dentaliniformis* (Brady) in the Eastern Aegean Sea, Turkish Coasts.

Figure 12 d. Distribution of *Reophax scorpiurus* Montfort in the Eastern Aegean Sea, Turkish Coasts.



12 a



12 b



12 c



12 d

Occurrence: Gulf of Saros, S. 18 (88.10 m), S. 19 (96.50 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 61 (70.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 15 (47.00 m), S. 21 (47.00 m), S. 31 (75.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m); Gulf of Gökova, S. 7 (198.00 m); Gulf of Datça, S. 6 (56.10 m), S. 7 (56.40 m): it occurs in the depth-range 16.00-198.00 m. It is rare in the infralittoral zone but frequent in the circalittoral zone.

Family DISCAMMINIDAE Mikhalevich, 1980

Genus *Ammoscalaria* Höglund, 1947

Ammoscalaria pseudospiralis (Williamson)

(Pl. 1, fig. 11)

1858 *Proteonina pseudospiralis*, Williamson, p. 2, pl. 1, figs. 2, 3.
1910 *Haplophragmium pseudospirale* (Williamson), Sidebottom, p. 8, pl. 1, fig. 6.
1947 *Ammoscalaria pseudospiralis* (Williamson), Höglund, pl. 31, figs. 1 a-p.
1971 *Ammoscalaria pseudospiralis* (Williamson), Murray, p. 29, pl. 7, figs. 1-5.
1991 *Ammoscalaria pseudospiralis* (Williamson), Cimerman and Jäger, p. 18, pl. 5, figs. 4-6.

Occurrence: Gulf of Saros, S. 17 (33.90 m), S. 18 (88.10 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 38 (74.00 m), S. 39 (37.70 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 47 (24.50 m); Dikili and Çandarlı Bays, S. 10 (22.50 m), S. 12 (22.50 m); Gulf of Kuşadası and Güllük Bay, S. 15 (83.70 m); Gulf of Gökova, S. 2 (87.00 m), S. 5 (34.50 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m): the distribution range is between 22.50 m and 252.30 m. It is recorded from infralittoral and circalittoral zones.

Genus *Discammina* Lacroix, 1932

Discammina compressa (Goes)

(Pl. 1, fig. 12)

1884 *Haplophragmium emaciatum*, Brady, p. 351, pl. 3, 7, figs. 8-16.
1960 *Discammina compressa* (Goes), Barker, pl. 33, figs. 26-28.
1993 *Discammina compressa* (Goes), Sgarella and Moncharmont-Zei, p. 158, pl. 2, fig. 12.

Figure 13 a. Distribution of *Haplophragmoides canariensis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 13 b. Distribution of *Labrospira subglobosa* (Sars) in the Eastern Aegean Sea, Turkish Coasts.

Figure 13 c. Distribution of *Ammoscalaria pseudospiralis* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 13 d. Distribution of *Discammina compressa* (Goes) in the Eastern Aegean Sea, Turkish Coasts.



13 a



13 b



13 c



13 d

Occurrence: Gulf of Saros, S. 10 (68.50), S. 13 (156.00), S. 15 (39.50), S. 17 (33.90), S. 18 (88.10), S. 19 (96.50); Gökçeada-Bozcaada-Çanakkale triangle, S. 10 (57.00 m); Gulf of Edremit, S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 3 (18.50 m), S. 8 (35.80 m): this species occurs between 18.50 m and 156.00 m depths, and is frequent in infralittoral and circalittoral zones.

Family Cyclamminidae Marie, 1941
Subfamily Alveolophragmiinae Saidova, 1981
Genus *Alveophragmium* Shchedrina, 1936
Alveophragmium scitulum (Brady)

1884 *Haplophragmium scitulum* Brady, Brady, p. 308, pl. 34, figs. 11-13.
1993 *Alveophragmium scitulum* (Brady), Sgarella and Moncharmont-Zei, p. 158, pl. 2, fig. 14.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m): this species is poorly recorded. It is found in one sample coming from the lower circalittoral zone.

Superfamily SPIROPLECTAMMINACEA Cushman, 1927
Family Spiroplectamminidae Cushman, 1927
Subfamily Spiroplectammininae Cushman, 1927
Genus *Spiroplectinella* Kisel'man, 1972
Spiroplectinella sagittula (d'Orbigny)
(Pl. 1, fig. 13; pl. 2, figs. 1-2)

1839b *Textularia sagittula* , d'Orbigny, p. 138, pl. 1, figs. 19-21.
1933 *Textularia sagittula* Defrance, Lacroix, p. 1, text-figs. 1-8.
1958 *Textularia sagittula* d'Orbigny, Le Calvez , Y., p. 150.
1974 *Textularia sagittula* d'Orbigny, Le Calvez , Y., p. 82, pl. 21, figs. 1-5.
1988 *Textularia sagittula* Defrance, Loeblich and Tappan, p. 173, pl. 193, figs. 1, 2.
1991 *Spiroplectinella sagittula* (d'Orbigny), Cimerman and Langer, p. 19, pl. 6, figs. 5-6.
1995 *Spiroplectammina sagittula* (d'Orbigny), Meric et al., pl. 1, figs. 2 a, b, c.
2001 *Spiroplectammina sagittula* (d'Orbigny), Meriç and Avşar, p. 127, pl. 1, figs. 1 and 2.
2002 *Spiroplectinella sagittula* (d'Orbigny), Avşar, p. 63, pl. 1, fig. 1.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 20 (92.00 m), S. 25 (188.00 m), S. 28 (115.50 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 44 (26.20 m), S. 48 (40.00 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 60 (55.00 m), S. 63 (96.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada, S. 16 (4.00 m), S. 25 (25.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S.3 (59.60 m), S.5 (137.50 m), S.6 (92.00

m), S. 9 (72.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m); Gulf of Gökova, S. 3 (80.40 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.80 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m): it is shown very regularly found in the Eastern part of Aegean Sea. It occurs in infralittoral, circalittoral and upper epibathyal zones.

Order TROCHAMMINIDA Saidova, 1981

Superfamily TROCHAMMINACEA Schwager, 1877

Family Trochamminidae Schwager, 1877

Subfamily Trochammininae Schwager, 1877

Genus *Ammoglobigerina* Eimer and Fickert, 1899

Ammoglobigerina globigeriniformis (Parker and Jones)

1960 *Ammoglobigerina globigeriniformis* (Parker and Jones). Barker, pl. 35, figs. 10, 11.

1988 *Ammoglobigerina globigeriniformis* (Parker and Jones), Loeblich and Tappan, p. 120, pl. 128, figs. 9 and 10.

1991 *Ammoglobigerina globigeriniformis* (Parker and Jones), Cimerman and Langer, p. 20, pl. 7, figs. 4-6.

1993 *Trochammina globigeriniformis* (Parker and Jones), Sgarella and Moncharmont-Zei, p. 161, pl. 3, figs. 9-10.

Occurrence: Dikili and Çandarlı Bays, S. 8 (35.10 m): it is found in one sample collected from the infralittoral zone.

Figure 14 a. Distribution of *Alveophragmium scitulum* (Brady) in the Eastern Aegean Sea, Turkish Coasts.

Figure 14 b. Distribution of *Spiroplectinella sagittula* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 14 c. Distribution of *Ammoglobigerina globigeriniformis* (Parker and Jones) in the Eastern Aegean Sea, Turkish Coasts.

Figure 14 d. Distribution of *Trochammina inflata* (Montagu) in the Eastern Aegean Sea, Turkish Coasts.



14 a



14 b



14 c



14 d

Genus *Trochammina* Parker and Jones, 1859
Trochammina inflata (Montagu)

- 1960 *Trochammina inflata* (Montagu), Barker, pl. 41, fig. 4.
1972 *Trochammina inflata* (Montagu), Rosset-Moulinier, p. 122, pl. 3, figs. 11 and 12.
1988 *Trochammina inflata* (Montagu), Loeblich and Tappan, p. 122, pl. 129, figs. 20-23.
1990 *Trochammina inflata* (Montagu), Debenay, pl. 3, figs. 11-12.
1991 *Trochammina inflata* (Montagu), Cimerman and Langer, 20, pl. 7, figs. 7-9.
1993 *Trochammina inflata* (Montagu), Sgarella and Moncharmont-Zei, p. 161, pl. 4, figs. 1-2.
2000 *Trochammina inflata* (Montagu), Cann et al., pl. 1, figs. k, l, m.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 14 (47.00 m), S. 15 (47.00 m): this species is poorly recorded in the depth range of 47.00 m - 72.00 m, corresponding to the upper circalittoral zone.

Order TEXTULARIIDA Lankester, 1885
Superfamily TEXTULARIACEA Ehrenberg, 1838
Family Eggerellidae Cushman, 1937
Subfamily Eggerellinae Cushman, 1937
Genus *Eggerelloides* Haynes, 1973
Eggerelloides advenus (Cushman)

- 1922 *Verneuilina advena*, Cushman, p. 57, pl. 9, figs. 7-9.
1974 *Eggerella advena* (Cushman), Colom, p. 93, fig. 10 a.
1975 *Verneuilinella advena* (Cushman), Saidova, p. 102, pl. 29, fig. 1.
1991 *Eggerelloides advenus* (Cushman), Cimerman and Langer, p. 20-21, pl. 8, figs. 5-6.
1994 *Verneuilinella advena* (Cushman), Loeblich and Tappan, p. 22, pl. 19, figs. 8 and 9.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 10 (57.00 m), S. 26 (72.00 m), Gulf of Gökova, S. 2 (27.00 m): poorly recorded in the depth-range of 18.00-72.00 m. It occurs in infralittoral and upper circalittoral zones.

Eggerelloides scabrus (Williamson)
(Pl. 2, figs. 3-5)

- 1858 *Bulimina scabra*, Williamson, p. 65, pl. 5, figs. 136, 137.
1922 *Verneuilina scabra* (Williamson), Cushman, p. 55.
1937 *Eggerella scabra* (Williamson), Cushman, p. 50, pl. 5, fig. 10.
1960 *Eggerella scabra* (Williamson), Barker, pl. 47, figs. 15-17.
1987 *Eggerella scabra* (Williamson), Yanko and Troitskaja, pl. 1, figs. 5-6.
1988 *Eggerelloides scabrus* (Williamson), Loeblich and Tappan, p. 170, pl. 189.

figs. 5-7.

- 1991 *Eggerelloides scabrus* (Williamson), Cimerman and Langer, p. 21, pl. 8, fig. 7.
1993 *Eggerella scabra* (Williamson), Sgarella and Moncharmont-Zei, p. 162, pl. 4, fig. 9.
2001 *Eggerelloides scabrus* (Williamson), Meriç and Avşar, 2001, p. 127, pl. 1, figs. 3-4.
2001 *Eggerelloides scabrus* (Williamson), Debenay et al., pl. 1, fig. 5.

Occurrence: Gulf of Saros, S. 10 (68.50 m), S. 15 (39.50 m), S. 17 (33.90 m), S. 32 (67.00 m), S. 38 (53.40 m), S. 47 (24.50 m), S. 51 (12.30 m), S. 55 (22.00 m), S. 79 (29.00 m); Gökçeada, S. 28 (10.00 m), Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 32 (46.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 10 (22.50 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m), S. 7 (305.20 m); Gulf of Gökova, S. 2 (27.00 m); Gulf of Datça, S. 4 (40.00 m): it occurs in the depth-range of between 10.00 m and 305.20 m. It is frequent in infralittoral and upper circalittoral zones, but rare in the upper epibathyal zone.

Family Textulariidae Ehrenberg, 1838

Subfamily Textulariinae Ehrenberg, 1838

Genus *Bigenerina* d'Orbigny, 1826

Bigenerina cylindrica Cushman

(Pl. 2, fig. 6)

- 1922 *Bigenerina cylindrica*, Cushman, p. 26, pl. 3, figs. 7-8.
1960 *Bigenerina cylindrica* Cushman, Barker, p. 90, pl. 44, figs. 19-24.
1993 *Bigenerina cylindrica* Cushman, Sgarella and Moncharmont-Zei, p. 164, pl. 4, fig. 11.

Occurrence: Gulf of Saros, S. 26 (631.00 m), S. 41 (81.00 m): this species is very rare and occurs in the depth-range of 81.00-631.00 m in lower circalittoral and upper epibathyal zones.

Figure 15 a. Distribution of *Eggerelloides advenus* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 15 b. Distribution of *Eggerelloides scabrus* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 15 c. Distribution of *Bigenerina cylindrica* Cushman in the Eastern Aegean Sea, Turkish Coasts.

Figure 15 d. Distribution of *Bigenerina nodosaria* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



15 a



15 b



15 c



15 d

Bigenerina nodosaria d'Orbigny
(Pl. 2, fig. 7)

- 1826 *Bigenerina nodosaria*, d'Orbigny, p. 261, pl. 2, figs. 9-10.
1922 *Bigenerina nodosaria* d'Orbigny, Cushman, p. 24, pl. 3, fig. 24.
1958 *Bigenerina nodosaria* d'Orbigny, Le Calvez, Y., p. 153.
1974 *Bigenerina nodosaria* d'Orbigny, Colom, p. 87, pfigs. 6 a-k.
1979 *Bigenerina nodosaria* d'Orbigny, Alfirevic, p. 64, pl. 4.
1988 *Bigenerina nodosaria* d'Orbigny, Loeblich and Tappan, p. 172, pl. 191, figs. 1, 2.
1991 *Bigenerina nodosaria* d'Orbigny, Cimerman and Langer, p. 21, pl. 9, figs. 9-10.
1993 *Bigenerina nodosaria* d'Orbigny, Sgarella and Moncharmont-Zei, p. 164, pl. 4, fig. 12.
1994 *Bigenerina nodosaria* d'Orbigny, Loeblich and Tappan, p. 27, pl. 31, figs. 8-12, pl. 32, figs. 11 and 12.
2001 *Bigenerina nodosaria* d'Orbigny, Avşar and Ergin, p. 765.
2002 *Bigenerina nodosaria* d'Orbigny, Kaminski et al., p. 23, pl. 1, fig. 9.
2002 *Bigenerina nodosaria* d'Orbigny, Avşar, p. 63, pl. 1, fig. 2.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 63 (96.00 m), S. 64 (75.00 m), S. 65 (61.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 75 (42.00 m), S. 78 (63.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 6 (92.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 12 (64.20 m), S. 16 (82.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m), Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); it is abundant and recorded in most of the samples. It occurs in the depth range of between 10.00 m and 631.00 m corresponding to infralittoral-lower epibathyal zones.

Genus *Textularia* DeFrance, 1824
Textularia agglutinans d'Orbigny

- 1839 b *Textularia agglutinans*. d'Orbigny, p. 136, pl. 1, figs. 17, 18, 32-34.
1896 *Textularia agglutinans* d'Orbigny, Dezelic, p. 76.
1932 *Textularia agglutinans* d'Orbigny, Lacroix, p. 16, fig. 14.
1958 *Textularia agglutinans* d'Orbigny, Le Calvez, Y., p. 151, pl. 1, fig. 3.
1977a *Textularia agglutinans* d'Orbigny, Le Calvez, Y., p. 13, figs. 1-3.

- 1979 *Textularia agglutinans* d'Orbigny, Alfirevic, p. 61, pl. 3, fig. 1.
 1991 *Textularia agglutinans* d'Orbigny, Cimerman and Langer, p. 21, pl. 10, figs. 1-2.
 1992 *Textularia agglutinans* d'Orbigny, Hatta and Ujiie, p. 58, pl. 2, figs. 3 a and b.
 1993 *Textularia agglutinans* d'Orbigny, Sgarella and Moncharmont-Zei, p. 164.
 1993 *Textularia agglutinans* d'Orbigny, Hottinger et al., p. 36, pl. 13, figs. 1-9.
 1994 *Textularia agglutinans* d'Orbigny, Loeblich and Tappan, p. 27, pl. 33, figs. 8-12.
 1995 *Textularia agglutinans* d'Orbigny, Meriç et al., pl. 1, fig. 3 a and b.
 1997 *Textularia agglutinans* d'Orbigny, Haunold et al., p. 201, fig. 12 and p. 202, fig. 13.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m): it occurs only in one sample coming from the upper circalittoral zone.

Textularia bocki Höglund
(Pl. 2, figs. 8-10)

- 1947 *Textularia bocki*, Höglund, p. 171, pl. 12, figs. 5-6.
 1932 *Textularia agglutinans* d'Orbigny, Lacroix, p. 16, fig. 13.
 1958 *Textularia bocki* Höglund, Le Calvez, Y., p. 150, pl. 1, fig. 4.
 1991 *Textularia bocki* Höglund, Cimerman and Langer, p. 21, pl. 10, figs. 3-6
 2001 *Textularia bocki* Höglund, Avşar and Ergin, p. 768.
 2001 *Textularia bocki* Höglund, Meriç and Avşar, 2001, p. 127, pl. 1, figs. 5-6.
 2002 *Textularia bocki* Höglund, Kaminski et al., p. 30, pl. 1, figs. 1 and 2.
 2002 *Textularia bocki* Höglund, Avşar, p. 63, pl. 1, fig. 3.

Occurrence: Gulf of Saros, S. 2 (15.50 m), S. 4 (50.90 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (186.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 58 (60.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 63 (96.00 m), S. 64 (75.00 m), S. 67 (550.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada, S. 13 (13.00 m), S. 16 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Bozcaada, S. 10 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 3 (59.60 m), S. 6 (127.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (29.90 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28

(39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 14 (37.70 m), S. 16 (82.00 m), S. 17 (47.40 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.5 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 3 (39.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 8 (248.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m): it is found in the depth-range of between 12.30 m and 631.00 m and frequent deeper than 80.00 m. It is reported from infralittoral, circalittoral and epibathyal zones.

Textularia conica d'Orbigny
(Pl. 2, figs. 11-12)

- 1839a *Textularia conica*, d'Orbigny, p. 143, pl. 1, figs. 19, 20.
 1899 *Textularia conica* d'Orbigny, Flint, p. 285, pl. 29, fig. 6.
 1932 *Textularia conica* d'Orbigny, Cushman, p. 11, pl. 2, figs. 8-10.
 1977a *Textularia conica* d'Orbigny, Le Calvez, Y., p. 18, figs. 1-2.
 1991 *Textularia conica* d'Orbigny, Cimerman and Langer, p. 22, pl. 10, figs. 7-9.
 1992 *Textularia conica* d'Orbigny, Hatta and Ujüie, p. 58, pl. 2, figs. 5 a and b.
 1993 *Textularia conica* d'Orbigny, Sgarella and Moncharmont-Zei, p. 166, pl. 3, figs. 4-5.
 2001 *Textularia conica* d'Orbigny, Avşar and Ergin, p. 768.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 20 (71.00 m), S. 29 (50.00 m); Gulf of Datça, S. 3 (139.50 m), S. 5 (59.30 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5

Figure 16 a. Distribution of *Textularia agglutinans* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 16 b. Distribution of *Textularia bocki* Höglund in the Eastern Aegean Sea, Turkish Coasts.

Figure 16 c. Distribution of *Textularia conica* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 16 d. Distribution of *Textularia pseudorugosa* Lacroix in the Eastern Aegean Sea, Turkish Coasts.



16 a



16 b



16 c



16 d

(128.80 m), S. 6 (64.00 m): it occurs in the depth-range of 39.00-147.00 m, and is frequent in upper and lower circalittoral zones.

Textularia pseudorugosa Lacroix
(Pl. 2, figs. 13-15)

- 1932a *Textularia pseudorugosa*, Lacroix, p. 19, figs. 19-22.
1958 *Textularia pseudorugosa* Lacroix, Le Calvez, Y., p. 151.
1974 *Textularia pseudorugosa* Lacroix, Clom, p. 89, figs. 8 g-l.
1991 *Textularia pseudorugosa* Lacroix, Cimerman and Langer, p. 22, pl. 11, figs. 5-8.
1993 *Textularia pseudorugosa* Lacroix, Sgarella and Moncharmont-Zei, p. 166, pl. 3, fig. 8.
2001 *Textularia pseudorugosa* Lacroix, Avşar and Ergin, p. 768

Occurrence: Gulf of Saros, S. 12 (214.70), S. 14 (84.00), S. 22 (118.50), S. 27 (144.80), S. 29 (92.00), S. 35 (195.00), S. 40 (77.30), S. 43 (51.50), S. 51 (12.30), S. 54 (94.50), S. 80 (98.00); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50), S. 13 (79.00 m), S. 18 (69.00 m), S. 21 (47.00 m), S. 25 (74.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 3 (80.40 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 5 (59.30 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is abundant in the depth-range of 12.30-334.50 m. It is frequent in infralittoral-upper epibathyal zones.

Textularia truncata Höglund
(Pl. 3, figs. 1-2)

- 1947 *Textularia truncata*, Höglund, p. 175, pl. 12, figs. 8, 9, text-figs. 147-149.
1958 *Textularia truncata* Höglund, Le Calvez, Y., p. 149, pl. 1, fig. 5.
1991 *Textularia truncata* Höglund, Cimerman and Langer, p. 22, pl. 12, figs. 1-3.
1995 *Textularia truncata* Höglund, Meriç et al., pl. 1, figs. 5 a, b, c.
2001 *Textularia truncata* Höglund, Avşar and Ergin, p. 768.
2001 *Textularia truncata* Höglund, Meriç and Avşar, 127, pl. 1, figs. 7-9.
2001 *Textularia truncata* Höglund, Debenay et al., pl. 1, fig. 4.
2002 *Textularia truncata* Höglund, Avşar, p. 63, pl. 1, fig. 4.

Occurrence: Gulf of Saros, S. 14 (84.00 m), S. 35 (195.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 43 (51.50 m), S. 51 (12.30 m), S. 57 (52.00 m), S. 80 (98.00 m); S. 16 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 3 (59.60 m), S. 5 (137.50 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m),

S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 33 (39.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 6 (15.00 m), S. 17 (47.40 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 8 (35.80 m), S. 11 (52.00 m), S. 12 (25.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 6 (65.00 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 5 (128.50 m): it occurs in the depth-range 12.30-252.00 m corresponding to infralittoral-upper epibathyal zones.

Subfamily Siphotextulariinae Loeblich and Tappan, 1985

Genus *Siphotextularia* Finlay, 1939

Siphotextularia concava (Karrer)

(Pl. 3, figs. 3-4)

- 1868 *Plecanium concavum*, Karrer, p. 192, pl. 1, fig. 3.
 1932 *Siphotextularia concava* (Karrer), Lacroix, pl. 42, figs. 13-14.
 1950 *Siphotextularia concava* (Karrer), Said, p. 5, pl. 1, fig. 3.
 1960 *Siphotextularia concava* (Karrer), Barker, pl. 42, figs. 13-14.
 1991 *Siphotextularia concava* (Karrer), Cimerman and Langer, p. 23, pl. 12, figs. 4-6.
 1992 *Siphotextularia concava* (Karrer), Hatta and Ujiie, p. 59, pl. 3, figs. 1a and b.
 1993 *Siphotextularia concava* (Karrer), Sgarella and Moncharmont-Zei, p. 166, pl. 3, figs. 6-7.
 2001 *Siphotextularia concava* (Karrer), Meriç and Avşar, p. 127, pl. 1, figs. 10-11.
 2002 *Siphotextularia concava* (Karrer), Avşar, p. 63, pl. 1, fig. 5.

Occurrence: Gulf of Saros, S. 10 (68.50 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 19 (96.50 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 54 (94.50 m), S. 60 (55.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m), Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 29 (50.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 17 (47.40 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 13 (82.10 m), S. 14 (83.70 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 8 (248.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 5 (128.80 m): frequent in the depth-range 25.00-500.00 m. It occurs in infralittoral-upper epibathyal zones. It is frequent in the upper circalittoral zone.

Family Pseudogaudryinidae Loeblich and Tappan, 1985
Subfamily Pseudogaudryininae Loeblich and Tappan, 1985
Genus *Connemarella* Cimerman and Langer, 1991
Connemarella rudis (Wright)
(Pl. 3, figs. 5-7)

- 1937a *Gaudryina rudis* Wright, Cushman, p. 61, pl. 9.
1958 *Gaudryina rudis* Wright. Le Calvez, Y., p. 154, pl. 1, figs. 1 and 2.
1971 *Gaudryina rudis* Wright, Murray, p. 34, pl. 14, figs. 1-6.
1988 *Connemarella rudis* (Wright), Loeblich and Tappan, p. 774, pl. 1, figs. 1-7.
1991 *Connemarella rudis* (Wright), Cimerman and Langer, p. 23, pl. 8, figs. 1-4.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 14 (84.00 m), S. 22 (118.50 m), S. 28 (631.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 29 (50.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 3 (49.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 8 (29.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 14 (83.70 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m): it occurs frequently between 12.30 m and 631.00 m. This species is recorded in the infralittoral to lower epibathyal zones. It is also frequent in the upper circalittoral zone.

Genus *Pseudoclavulina* Cushman, 1936
Pseudoclavulina crustata Cushman
(Pl. 3, figs. 8-9)

- 1936 *Pseudoclavulina crustata*, Cushman, p. 19, pl. 3, figs. 12 a and b.
1937a *Pseudoclavulina crustata* Cushman, Cushman, p. 117, pl. 16, figs. 1 and 2.
1991 *Pseudoclavulina crustata* Cushman, Cimerman and Langer, p. 23, pl. 11, figs. 9-10.
1993 *Clavulina crustata* (Cushman), Sgarella and Moncharmont-Zei, p. 167, pl. 4, fig. 10.

- Figure 17 a. Distribution of *Textularia truncata* Höglund in the Eastern Aegean Sea, Turkish Coasts.
Figure 17 b. Distribution of *Siphotextularia concava* (Karrer) in the Eastern Aegean Sea, Turkish Coasts.
Figure 17 c. Distribution of *Connemarella rudis* (Wright) in the Eastern Aegean Sea, Turkish Coasts.
Figure 17 d. Distribution of *Pseudoclavulina crustata* Cushman in the Eastern Aegean Sea, Turkish Coasts.



17 a



17 b



17 c



17 d

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (158.00 m), S. 14 (84.00 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 58 (60.00 m), S. 62 (100.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 75 (42.00 m), S. 870 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 20 (71.00 m), S. 25 (74.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 16 (82.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (445.00 m), S. 4 (80.40 m), S. 5 (46.20 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 9 (147.00 m); Marmaris Bay, S. 5 (128.00 m): this species occurs frequently. It is found in almost every sample down to 100.00 m depth. This species is rare in the infralittoral zone, but, frequent in the circalittoral zone. It also occurs in the upper epibathyal zone.

Order SPIRILLINIDA Corbachik and Montsurova, 1980

Suborder SPIRILLININA Hohenegger and Piller, 1975

Family Spirillinidae Reuss and Fritsch, 1861

Genus *Spirillina* Ehrenberg, 1843

Spirillina limbata Brady

(Pl. 3, fig. 10)

- 1960 *Spirillina limbata* Brady, Barker, p.pl. 85, figs. 18-22.
1991 *Spirillina limbata* Brady, Cimerman and Langer, p. 24, pl. 14, figs. 1-3.
1993 *Spirillina limbata* Brady, Sgarella and Moncharmont-Zei, p. 224-225.
2001 *Spirillina limbata* Brady, Avşar and Ergin, p. 768.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 18 (69.00 m), S. 31 (75.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m); Gulf of Gökova, S. 6 (65.00 m), S. 8 (78.30 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m): this species is frequent. It is found from 65.00 to 226.00 m depth. It is abundant in the lower circalittoral zone.

Spirillina vivipara Ehrenberg

(Pl. 3, figs. 11-12)

- 1930 *Spirillina vivipara* Ehrenberg, Heron-Allen and Earland, p. 178.
1958 *Spirillina vivipara* Ehrenberg, Le Calvez, Y., p. 181.
1960 *Spirillina vivipara* Ehrenberg, Barker, pl. 85, figs. 1-5.
1974 *Spirillina vivipara* Ehrenberg, Colom, p. 139, figs. 23 c and d.
1991 *Spirillina vivipara* Ehrenberg, Cimerman and Langer, p. 24, pl. 14, figs. 4-6.
1993 *Spirillina vivipara* Ehrenberg, Sgarella and Moncharmont-Zei, p. 226, pl. 20, fig. 2.
1994 *Spirillina vivipara* Ehrenberg, Loeblich and Tappan, p. 36, pl. 54, figs. 5-10.
1999 *Spirillina vivipara* Ehrenberg, Hayward et al., p. 92, pl. 3, fig. 7.

- 2001 *Spirillina vivipara* Ehrenberg, Avşar and Ergin, p. 768.
 2001 *Spirillina vivipara* Ehrenberg, Meriç and Avşar, p. 127.
 2001 *Spirillina vivipara* Ehrenberg, Debenay et al., pl. 4, figs. 24.

Occurrence: Gulf of Saros, S. 54 (94.50 m), Gökçeada, S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 29 (50.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 4 (226.00 m), S. 6 (45.60 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m); this species is found between 11.00 m to 226.00 m depths. It occurs in infralittoral and circalittoral zones.

Family Patellinidae Rhumbler, 1906
Subfamily Patellininae Rhumbler, 1906
Genus *Patellina* Williamson, 1858
Patellina corrugata Williamson

- 1858 *Patellina corrugata*, Williamson, p. 46, pl. 3, figs. 86-89.
 1958 *Patellina corrugata* Williamson, Le Calvez, Y., p. 181.
 1960 *Patellina corrugata* Williamson, Barker, pl. 86, figs. 1-7.
 1970 *Patellina corrugata* Williamson, Daniels, p. 86, pl. 7, fig. 4.
 1972 *Patellina corrugata* Williamson, Rosset-Moulinier, p. 173.
 1974 *Patellina corrugata* Williamson, Colom, p. 139, figs. 23 e, f.
 1988 *Patellina corrugata* Williamson, Loeblich and Tappan, p. 306, pl. 320, figs. 7-14.
 1991 *Patellina corrugata* Williamson, Cimerman and Langer, p. 24, pl. 14, figs. 7-12.
 1993 *Patellina corrugata* Williamson, Sgarella and Moncharmont-Zei, p. 226.
 1993 *Patellina corrugata* Williamson, Hottinger et al., p. 76, pl. 87, figs. 7-11.
 1995 *Patellina corrugata* Williamson, Meriç et al., pl. 1, fig. 6.
 1999 *Patellina corrugata* Williamson, Hayward et al., p. 93, pl. 3, figs. 11-13.
 2001 *Patellina corrugata* Williamson, Meriç and Avşar, p. 127.
 2001 *Patellina corrugata* Williamson, Debenay et al., pl. 4, fig. 23 and 27.

Occurrence: Gökçeada, S. 29 (11.00 m): it is recorded only in one sample collected from the infralittoral zone.

- Figure 18 a. Distribution of *Spirillina limbata* Brady in the Eastern Aegean Sea, Turkish Coasts.
 Figure 18 b. Distribution of *Spirillina vivipara* Ehrenberg in the Eastern Aegean Sea, Turkish Coasts.
 Figure 18 c. Distribution of *Patellina corrugata* Williamson in the Eastern Aegean Sea, Turkish Coasts.
 Figure 18 d. Distribution of *Cornuspira foliacea* Philippi in the Eastern Aegean Sea, Turkish Coasts.



18 a



18 b



18 c



18 d

Order MILIOLIDA Lankester, 1885
Suborder MILIOLINA Delage and Héouard, 1896
Superfamily CORNUSPIRACEA Schultze, 1854
Family Cornuspiridae Schultze, 1854
Subfamily Cornuspirinae Schultze, 1854
Genus *Cornuspira* Schultze, 1854
Cornuspira foliacea Philippi
 (Pl. 4, figs 1-2)

- 1858 *Spirillina foliacea* (Philippi), Williamson, p. 91, pl. 7, figs. 199-201.
 1917b *Cornuspira foliacea* (Philippi), Cushman, p. 24, pl. 1, fig. 1, pl. 2, fig. 1.
 1974 *Cyclogyra foliacea* (Philippi), Colom, p. 211, figs. 69 a and b.
 1991 *Cornuspira foliacea* (Philippi), Cimerman and Langer, p. 24, pl. 15, figs. 1-3.
 1994 *Cornuspira foliacea* (Philippi), Loeblich and Tappan, p. 36, pl. 55, figs. 10-11.
 1999 *Cornuspira foliacea* (Philippi), Hayward et al., p. 94, pl. 3, figs. 14-15.

Occurrence: Gulf of Saros, S. 10 (68.50 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 21 (97.40 m), S. 24 (386.00 m), S. 28 (115.50 m), S. 30 (90.50 m), S. 34 (82.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 32 (46.00 m); Gulf of Edremit, S. 15 (49.70 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m); Gulf of Gökova, S. 7 (198.00 m): it is recorded between 35.80 m and 386.00 m depths, and frequent in infralittoral-upper epibathyal zones.

Cornuspira involvens (Reuss)
 (Pl. 4, figs. 3-4)

- 1850 *Operculina involvens*, Reuss, p. 370, pl. 454, fig. 20.
 1917b *Cornuspira involvens* (Reuss), Cushman, p. 25, pl. 1, fig. 2, pl. 2, fig. 2.
 1969 *Cornuspira involvens* (Reuss), Alfirevic, p. 66, pl. 4, fig. 4.
 1992 *Cornuspira involvens* (Reuss), Hatta and Ujiie, p. 61, pl. 4, figs. 1 a-c.
 1993 *Cornuspira involvens* (Reuss), Sgarella and Moncharmont-Zei, p. 167.
 1994 *Cornuspira involvens* (Reuss), Loeblich and Tappan, p. 36, pl. 56, figs. 14 and 15.
 1999 *Cornuspira involvens* (Reuss), Hayward et al., p. 94, pl. 3, fig. 16.
 2001 *Cornuspira involvens* (Reuss), Debenay et al., p. 2, fig. 14.

Occurrence: Gulf of Saros, S. 10 (68.50 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 16 (71.10 m), S. 19 (96.50 m), S. 22 (118.50 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 40 (77.30 m), S. 61 (70.00 m), S. 72 (500.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 27 (70.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 12 (62.10 m), S. 14 (62.10 m); Gulf of Gökova, S. 5 (34.10 m), S. 6 (65.00 m); Gulf of Datça, S. 5 (59.30 m); Marmaris Bay, S. 8 (69.00

m): it is frequent in infralittoral to upper epibathyal zones and occurs in the depth-range of 34.10-500.00 m.

Superfamily NUBECULARIACEA Jones, 1875

Family Ficherinidae Millet, 1898

Subfamily Ficherininae Millet, 1898

Genus *Trisegmentina* Wiesner, 1920

Trisegmentina compressa Wiesner

(Pl. 4, figs. 5-6)

- 1931 *Trisegmentina compressa*, Wiesner, p. 70, pl. 1, fig. 7.
1988 *Trisegmentina compressa* Wiesner, Loeblich and Tappan, p. 318, pl. 329, figs. 7-9.
1991 *Trisegmentina compressa* Wiesner, Cimerman and Langer, p. 25, pl. 15, figs. 9-11.
1993 *Ficherina compressa* (Wiesner), Sgarella and Moncharmont-Zei, p. 168, pl. 6, fig. 15.
2001 *Trisegmentina compressa* Wiesner, Meriç and Avşar, p. 127, pl. 1, figs. 12-13.

Occurrence: Gökçeada, S. 29 (11.00 m): its occurrence is very rare in Eastern Aegean Sea.

Subfamily Nodobaculariellinae Bogdanovich, 1981

Genus *Vertebralina* d'Orbigny, 1826

Vertebralina striata d'Orbigny

(Pl. 4, figs. 7-8)

- 1858 *Vertebralina striata* d'Orbigny, Williamson, p. 90, pl. 7, figs. 197, 198.
1917b *Vertebralina striata* d'Orbigny, Cushman, p. 38, pl. 22, figs. 3, 4.
1923 *Vertebralina striata* d'Orbigny, Wiesner, p. 93, pl. 19, figs. 274, 275.
1929 *Vertebralina striata* d'Orbigny, Cushman, p. 96, pl. 22, figs. 6 a, b.
1970 *Vertebralina striata* d'Orbigny, Daniels, 72, text-fig. 47.
1979 *Vertebralina striata* d'Orbigny, Alfirevic, p. 68, pl. 5, fig. 42.
1988 *Vertebralina striata* d'Orbigny, Haig, p. 235, pl. 11, figs. 25-26.
1991 *Vertebralina striata* d'Orbigny, Cimerman and Langer, p. 25, pl. 16, figs. 1-5.
1992 *Vertebralina striata* d'Orbigny, Hatta and Ujiie, p. 62, pl. 4, figs. 6 a, b.
1993 *Vertebralina striata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 169, pl. 6, fig. 7.
1993 *Vertebralina striata* d'Orbigny, Hottinger et al., p. 43, pl. 23, figs. 8-15.
2000 *Vertebralina striata* d'Orbigny, Cann et al., pl. 2, figs. m, n, o.
2001 *Vertebralina striata* d'Orbigny, Meriç and Avşar, p. 127, pl. 1, figs. 14, 15.

Occurrence: Gökçeada, S. 15 (3.00 m), S. 16 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m);

Bozcaada S. 2 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 17 (0.50 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 11 (47.00 m), S. 12 (62.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 4 (46.20 m), S. 6 (65.00 m); Gulf of Datca, S. 4 (40.00 m); Marmaris Bay, S. 1 (106.40 m), S. 8 (69.00 m): it occurs in a depth-range of 0.50-106.40 m, and is frequent in infralittoral and upper circalittoral zones.

Genus *Wiesnerella* Cushman, 1933
Wiesnerella auriculata (Egger)
(Pl. 4, fig. 9)

- 1893 *Planispirina auriculata*, Egger, p. 245, pl. 3, figs. 13-15.
1954 *Wiesnerella auriculata* (Egger), Cushman, Todd and Post, p. 341, pl. 85, fig. 30.
1988 *Wiesnerella auriculata* (Egger), Haig, p. 235, pl. 11, figs. 32-33.
1992 *Wiesnerella auriculata* (Egger), Hatta and Ujiiie, p. 62, pl. 4, figs. 7 a-c.
1993 *Wiesnerella auriculata* (Egger), Sgarella and Moncharmont-Zei, p. 168.
1993 *Wiesnerella auriculata* (Egger), Hottinger et al., p. 43, pl. 24, figs. 1-4.
1994 *Wiesnerella auriculata* (Egger), Loeblich and Tappan, p. 39, pl. 62, figs. 1-3.
1999 *Wiesnerella auriculata* (Egger), Hayward et al., p. 95, pl. 3, fig. 19.
2001 *Wiesnerella auriculata* (Egger), Meriç and Avşar, p. 127.

Occurrence: Gökçeada, S. 25 (25.00 m): it occurs only at the depth of 25.00 m.

Family Nubeculariidae Jones, 1875
Subfamily Nubeculariinae Jones, 1875
Genus *Nubecularia* Defrance, 1825
Nubecularia lucifuga Defrance
(Plate 4 figs. 10-12)

- 1917b *Nubecularia lucifuga* Defrance, Cushman, p. 41, pl. 8, fig. 6.
1923 *Nubecularia lucifuga* Defrance, Wiesner, p. 94, pl. 19, figs. 278-281.
1960 *Nubecularia lucifuga* Defrance, Barker, pl. 1, figs. 9-11, 13-16.
1974 *Nubecularia lucifuga* Defrance, Colom, p. 174, figs. 47 a-c, 48 a-f.
1991 *Nubecularia lucifuga* Defrance, Cimerman and Langer, p. 26, pl. 17, figs. 5-7.
1993 *Nubecularia lucifuga* Defrance, Sgarella and Moncharmont-Zei, p. 168.
2000 *Nubecularia lucifuga* Defrance, Cann et al., pl. 2, figs. a, b, c.

Occurrence: Gulf of Edremit, S. 7 (19.00 m), Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Gökova, S. 2 (27.00 m): it is found between 16.00 m and 35.80 m depths, corresponding to the infralittoral zone.

Family Ophthalmidiidae Wiesner, 1920
Genus *Edentostomina* Collins, 1958
Edentostomina cultrata (Brady)
(Plate 5, fig. 1)

- 1884 *Miliolina cultrata* Brady, Brady, p. 161, pl. 5, figs. 1, 2.
1917a *Quinqueloculina cultrata* (Brady), Cushman, p. 54, pl. 21, fig. 1.
1958 *Edentostomina cultrata* (Brady), Collins, p. 371.
1992 *Edentostomina cultrata* (Brady), Hatta and Ujiie, p. 63, pl. 5, figs. 2 a-c.
1994 *Edentostomina cultrata* (Brady), Loeblich and Tappan, p. 40-41, pl. 63, figs. 8-12.
1999 *Edentostomina cultrata* (Brady), Hayward et al., p. 95, pl. 3, figs. 20-21.

Occurrence: Marmaris Bay, S. 7 (29.90 m): its occurrence is always very rare, and recorded at the depth of 29.90 m.

Superfamily MILIOLACEA Ehrenberg, 1839
Family Spiroloculinidae Wiesner, 1920
Subfamily Spiroloculininae Wiesner, 1920
Genus *Adelosina* d'Orbigny, 1826
Adelosina carinata-striata Wiesner

- 1923 *Adelosina milleti* var. *carinata-striata*, Wiesner, p. 77, pl. 14, figs. 190, 191.
1970 *Quinqueloculina milleti* var. *carinata-striata* (Wiesner), Daniels, p. 74, pl. 2, figs. 17 a-c, text-fig. 49.
1991 *Adelosina carinata-striata* Wiesner, Cimerman and Langer, p. 28, pl. 20, figs. 1-4.

Occurrence: Dikili and Çandarlı Bays, S. 1 (16.00 m): it is very rare and recorded at the depth of 16.00 m.

Adelosina cliarensis (Heron-Allen and Earland)
(Pl. 5, figs. 2- 5)

- 1930 *Quinqueloculina cliarensis*, Heron-Allen and Earland, p. 58, pl. 3, figs. 26, 31.
1958 *Quinqueloculina cliarensis* Heron-Allen and Earland, Le Calvez, J. and Y.,

- Figure 19 a. Distribution of *Cornuspira involvens* (Reuss) in the Eastern Aegean Sea, Turkish Coasts.
Figure 19 b. Distribution of *Trisegmentina compressa* Wiesner in the Eastern Aegean Sea, Turkish Coasts.
Figure 19 c. Distribution of *Vertebralina striata* d'Orbigny in the Eastern Mediterranean Sea, Turkish Coasts.
Figure 19 d. Distribution of *Wiesnerella auriculata* (Egger) in the Eastern Aegean Sea, Turkish Coasts.



19 a



19 b



19 c



19 d

- p. 186, pl. 5, figs. 40-41.
- 1958 *Quinqueloculina cliarensis* Heron-Allen and Earland, Le Calvez, Y., p. 157, pl. 1, figs. 10-11.
- 1991 *Adelosina cliarensis* (Heron-Allen and Earland), Cimerman and Langer, p. 26, pl. 18, figs. 1-4.
- 1995 *Adelosina cliarensis* (Heron-Allen and Earland), Meriç et al., 1995, pl. 1, figs. 7 a, b, c.
- 2001 *Adelosina cliarensis* (Heron-Allen and Earland), Meriç and Avşar, p. 127, pl. 1, figs. 17-18.
- 2002 *Adelosina cliarensis* (Heron-Allen and Earland), Kaminski et al., p. 21, pl. 1, figs. 12-13.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 61 (70.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 74 (200.00 m), S. 76 (53.00 m), S. 80 (98.00 m); Gökçeada, S. 11 (0.50 m), S. 13 (13.00 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 21 (15.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 7 (18.00 m), S. 12 (63.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 8 (49.30 m), S. 10 (32.00 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 15 (49.70 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (14.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 1 (1.00 m), S. 2 (1.00 m), S. 3 (1.00 m), S. 4 (1.00 m), S. 8 (1.00 m), S. 11 (1.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10

Figure 20 a. Distribution of *Nubecularia lucifuga* Defrance in the Eastern Aegean Sea, Turkish Coasts.

Figure 20 b. Distribution of *Edentostomina cultrata* (Brady) in the Eastern Aegean Sea, Turkish Coasts.

Figure 20 c. Distribution of *Adelosina carinata-striata* Wiesner in the Eastern Aegean Sea, Turkish Coasts.

Figure 20 d. Distribution of *Adelosina cliarensis* (Heron-Allen and



20 a



20 b



20 c



20 d

m), S. 13 (72.50 m); Gulf of Gökova; S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m); it ranges from 12.30 m depth, more frequent than 100.00 m. This species occurs in the infralittoral zone. It is frequent in the upper circalittoral zone, and rare in lower circalittoral and upper epibathyal zones.

Adelosina duthiersi Schlumberger
(Pl. 5, figs. 6-7)

- 1886 *Adelosina duthiersi*, Schlumberger, p. 100, pl. 16, figs. 16, 18.
1923 *Adelosina dutuhiersi* Schlumberger, Wiesner, p. 83, pl. 16, figs. 232-234.
1958 *Quinqueloculina duthiersi* (Schlumberger), Le Calvez, J. and Y., p. 175, pl. 3, fig. 11.
1974 *Quinqueloculina (Adelosina) duthiersi* (Schlumberger), Colom, p. 187, figs. 53, h-m.
1991 *Adelosina duthiersi* Schlumberger, Cimerman and Langer, p. 27, pl. 18, fig. 8.
1993 *Adelosina duthiersi* Schlumberger, Sgarella and Moncharmont-Zei, p. 178, pl. 7, fig. 12.

Occurrence: Gulf of Saros, S. 4 (50.80 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 10 (68.50 m), S. 11 (79.80 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 22 (118.50 m), S. 27 (144.30 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 64 (75.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 16 (47.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 28 (39.00 m); Bozcaada, S. 11 (7.00 m), S. 14 (0.50 m); Gulf of Edremit, S. 2 (100.40 m), S. 6 (15.00 m), S. 10 (32.00 m), S. 11 (55.80 m), S. 14 (37.70 m), S. 16 (82.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m), S. 7 (305.20 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (7250 m); Gulf of Gökova, S. 1 (42.00 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 4 (40.00 m), S. 5 (59.30 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 2 (79.10 m), S. 8 (69.00 m); it occurs between 12.30 m and 305.20 m depths corresponding infralittoral-upper epibathyal zones.

Adelosina elegans (Williamson)

- 1858 *Miliolina bicornis* Walker and Jacob var. *elegans*, Williamson, p. 88, pl. 7, fig. 195.
1923 *Adelosina elegans* Williamson, Wiesner, p. 80, pl. 15, fig. 209.
1958 *Quinqueloculina williamsoni*, Le Calvez, J. and Y., p. 177, pl. 5, fig. 45.
1991 *Adelosina elegans* (Williamson), Cimerman and Langer, p. 27, pl. 20, figs. 5-6.
1993 *Adelosina elegans* (Williamson), Sgarella and Moncharmont-Zei, p. 178, pl. 8, fig. 3.

Occurrence: Gulf of Saros, S. 39 (37.70 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 33 (39.00 m): it occurs in three samples recovered from depth-range between 37.70 m and 39.00 m. It is frequent in the infralittoral zone.

Adelosina intricata (Terquem)

- 1878 *Quinqueloculina intricata*, Terquem, p. 73, pl. 8, figs. 16-21.
1923 *Adelosina intricata* (Terquem), Wiesner, p. 84, pl. 16, figs. 236-238.
1958 *Quinqueloculina intricata* Terquem, Le Calvez, J. and Y., p. 176, pl. 5, figs. 38-39.
1991 *Adelosina intricata* (Terquem), Cimerman and Langer, p. 27, pl. 18, figs. 9-10.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 18 (69.00 m), S. 22 (45.00 m), S. 28 (39.00 m); Çeşme, S. 1 (0.50 m): it is poorly recorded between 0.50 m and 69.00 m, and frequent in the infralittoral zone.

Adelosina italica (Terquem)
(Pl. 5, fig. 8)

- 1878 *Quinqueloculina italica*, Terquem, p. 69, pl. 7, figs. 17-20.
1993 *Adelosina italica* (Terquem), Sgarella and Moncharmont-Zei, p. 179, pl. 7, figs. 13-14.

Occurrence: Gulf of Saros, S. 3 (34.60 m): this species is rare, and found only in one sample.

Adelosina mediterraneensis (Le Calvez J. and Y.)
(Pl. 5, figs. 9-13)

- 1958 *Quinqueloculina mediterraneensis*, Le Calvez, J. and Y., p. 177, pl. 4, figs. 29-31.
1991 *Adelosina mediterraneensis* (Le Calvez J. and Y.), Cimerman and Langer, p. 28, pl. 19, figs. 1-16.
1993 *Adelosina mediterraneensis* (Le Calvez J. and Y.), Sgarella and

Moncharmont-Zei, p. 179, pl. 7, figs. 9-11.

1995 *Adelosina mediterraneensis* (Le Calvez J. and Y.), Meriç et al., pl. 2, figs. 1a, b, c, d.

2001 *Adelosina mediterraneensis* (Le Calvez J. and Y.), Meriç and Avşar, p. 127, pl. 1, figs. 19-20.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 13 (156.00 m), S. 15 (39.50 m), S. 16 (71.00 m), S. 17 (39.90 m), S. 18 (88.10 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 64 (75.00 m), S. 66 (65.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Bozcaada, S. 4 (0.50 m), S. 5 (0.50 m), S. 10 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 4 (85.50 m), S. 6 (92.00 m), S. 16 (47.00 m), S. 19 (69.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 33 (29.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 7 (19.00 m), S. 9 (49.60 m), S. 10 (32.00 m), S. 11 (55.60 m), S. 14 (37.70 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (211.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 2 (1.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m): it occurs in depth-range of between 10.00 m and 305.20 m, and frequent in infralittoral and lower circalittoral zones. It is rare in the upper epibathyal zone.

Figure 21 a. Distribution of *Adelosina duthiersi* Schlumberger in the Eastern Aegean Sea, Turkish Coasts.

Figure 21 b. Distribution of *Adelosina elegans* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 21 c. Distribution of *Adelosina intricata* (Terquem) in the Eastern Aegean Sea, Turkish Coasts.

Figure 21 d. Distribution of *Adelosina italica* (Terquem) in the Eastern Aegean Sea, Turkish Coasts.



21 a



21 b



21 c



21 d

Adelosina partschi (d'Orbigny)
(Pl. 6, fig. 1)

- 1846 *Quinqueloculina partschi*, d'Orbigny, p. 293, pl. 19, figs. 4-6.
1958 *Quinqueloculina partschi* d'Orbigny, Le Calvez, J. and Y., p. 186, pl. 10, figs. 109-111.
1991 *Adelosina partschi* (d'Orbigny), Cimerman and Langer, p. 28, pl. 20, figs. 7-8.
2001 *Adelosina cf. partschi* (d'Orbigny), Meriç and Avşar, p. 127, pl. 1, fig. 21.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 4 (77.30 m), S. 41 (88.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 51 (12.30 m), S. 60 (55.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada, S. 14 (55.00 m), S. 25 (25.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 16 (47.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 29 (50.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 13 (31.00 m), S. 14 (37.70 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.50 m), S. 9 (49.00 m), S. 11 (52.00 m), Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (98.30 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m); Marmaris Bay, S. 1 (106.40 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m); this form is found between 12.30 m and 500.00 m. It is frequent down to 50.00 m. It is also reported from infralittoral to upper epibathyal zones.

Adelosina pulchella d'Orbigny
(Pl. 6, figs. 2-5)

- 1846 *Adelosina pulchella*, d'Orbigny, p. 203, pl. 20, figs. 25-30.
1958 *Quinqueloculina pulchella* (d'Orbigny), Le Calvez, J. and Y., p. 175, pl. 3, figs. 12-14.
1979 *Quinqueloculina pulchella* (d'Orbigny), Blanc-Vernet et al., pl. 21, fig. 7.
1991 *Adelosina pulchella* d'Orbigny, Cimerman and Langer, p. 28, pl. 20, figs. 9-10.
1993 *Adelosina pulchella* d'Orbigny, Sgarella and Moncharmont-Zei, p. 179.
2001 *Adelosina pulchella* d'Orbigny, Meriç and Avşar, p. 127.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 221 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 27 (146.80 m), S. 28 (115.50 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 60 (55.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 75 (42.00 m), S. 77 (53.00 m), S. 78 (63.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 26 (9.00 m); Bozcaada, S. 10 (0.50 m), S. 14 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 6 (92.00 m), S. 13 (79.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 4 (76.30 m), S. 8 (49.30 m), S. 9 (49.60 m), S. 10 (32.00 m), S. 11 (55.60 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 16 (82.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 5 (36.50 m); Çeşme, S. 11 (1.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m); this species occurs between 0.50 m and 500.00 m and also is frequent in infralittoral-upper epibathyal zones.

Genus *Spiroloculina* d'Orbigny, 1826

Spiroloculina angulata d'Orbigny

- 1917b cf. *Spiroloculina grata* var. *angulata* Cushman, Cushman, p. 36, pl. 7, fig. 5.
 1986 *Spiroloculina angulata* Cushman, Debenay, p. 23, pl. 6, fig. 3.
 1993 *Spiroloculina* cf. *S. angulata* Cushman, Hottinger et al., p. 44-45, pl. 24, figs. 11-14.

Figure 22 a. Distribution of *Adelosina mediterraneensis* (Le Calvez J. and Y.) in the Eastern Aegean Sea, Turkish Coasts.

Figure 22 b. Distribution of *Adelosina partschi* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 22 c. Distribution of *Adelosina pulchella* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 22 d. Distribution of *Spiroloculina angulata* d'Orsbigny in the Eastern Aegean Sea, Turkish Coasts.



22 a



22 b



22 c



22 d

Occurrence: Gökçeada, S. 13 (13.00 m), S. 15 (3.00 m), S. 19 (40.00 m), S. 21 (15.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 30 (3.00 m), S. 32 (16.00 m): it is rarely recorded between 3.00 m and 40.00 m. It is found only in the infralittoral zone.

Spiroloculina angulosa Terquem
(Pl. 6, figs. 6-8)

1878 *Spiroloculina angulosa*, Terquem, p. 53, pl. 5, fig. 7.

1958 *Spiroloculina angulosa* Terquem, Le Calvez J. and Y., p. 204, pl. 8, fig. 92.

1991 *Spiroloculina angulosa* Terquem, Cimerman and Langer, p. 29, pl. 21, figs. 10-13.

2002 *Spiroloculina angulosa* Terquem, Avşar, p. 63, pl. 1, fig. 6.

Occurrence: Gulf of Saros, S. 25 (188.00 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 62 (110.00 m), S. 72 (500.00 m); Gökçeada, S. 16 (4.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.00 m), S. 3 (44.00 m), S. 5 (26.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 7 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 10 (66.40 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (262.30 m), S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 9 (69.00 m): this taxon is recorded from between depth-range of 3.00m and 262.30 m and abundant in infralittoral-upper epibathyal zones.

Figure 23 a. Distribution of *Spiroloculina angulosa* Terquem in the Eastern Aegean Sea, Turkish Coasts.

Figure 23 b. Distribution of *Spiroloculina antillarum* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 23 c. Distribution of *Spiroloculina corrugata* Cushman and Todd in the Eastern Aegean Sea, Turkish Coasts.

Figure 23 d. Distribution of *Spiroloculina depressa* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



23 a



23 b



23 c



23 d

Spiroloculina antillarum d'Orbigny

- 1839 *Spiroloculina antillarum* d'Orbigny, p. 166, pl. 9, figs. 3, 4.
1968 *Spiroloculina antillarum* d'Orbigny, Albani, p. 14, fig. 28.
1986 *Spiroloculina antillarum* d'Orbigny, Debenay, p. 23, pl. 6, fig. 8.
2000 *Spiroloculina antillarum* d'Orbigny, Cann et al., pl. 2, figs. g, h, i.

Occurrence: Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 9 (0.50 m): this species is rare in the infrabathyal zone of Eastern Aegean Sea.

Spiroloculina corrugata Cushman and Todd
(Pl. 6, fig. 9)

- 1944a *Spiroloculina corrugata*, Cushman and Todd, p. 61, pl. 8, figs. 22-25.
1949 *Spiroloculina corrugata* Cushman and Todd, Said, p. 15, pl. 1, fig. 33.
1951a *Spiroloculina corrugata* Cushman and Todd, Asano, p. 13, figs. 91, 92.
1978 *Spiroloculina corrugata* Cushman and Todd, Cheng and Zheng, p. 169, pl. 7, figs. 10-12.

Occurrence: Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), Çeşme, S. 2 (0.50 m), S. 7 (0.50 m), Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m): it occurs in few samples recorded from infralittoral-upper circalittoral zones.

Spiroloculina depressa d'Orbigny
(Pl. 6, fig.10)

- 1826 *Spiroloculina depressa* d'Orbigny, p. 298, no. 1.
1944 *Spiroloculina depressa* d'Orbigny, Cushman and Todd, p. 28, pl. 1, figs. 1, 6, pl. 5, figs., 1-9.
1974 *Spiroloculina depressa* d'Orbigny, Colom, p. 208, figs. 62 a, b.
1988 *Spiroloculina depressa* d'Orbigny, Loeblich and Tappan, p. 33, pl. 340, figs. 2-5.
1991 *Spiroloculina depressa* d'Orbigny, Cimerman and Langer, p. 29, pl. 22, figs. 9-12.
2001 *Spiroloculina depressa* d'Orbigny, Debenay et al., p. 1, fig. 30.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 18 (88.10 m), S. 21 (97.40 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 35 (195.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 60 (55.00 m), S. 63 (96.00 m), S. 66 (65.00 m), S. 70 (13.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m), S. 20 (71.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m), S. 9 (67.00 m); Gulf of Datça, S. 7

(56.40 m): it is frequent in infralittoral and lower circalittoral zones, rare in the upper epibathyal zone.

Spiroloculina dilatata d'Orbigny
(Pl. 6, fig. 11)

- 1846 *Spiroloculina dilatata*, d'Orbigny, p. 271, pl. 16, figs. 16-18.
1923 *Spiroloculina dilatata* d'Orbigny, Wiesner, p. 35, pl. 4, fig. 26.
1991 *Spiroloculina dilatata* d'Orbigny, Cimerman and Langer, p. 30, pl. 22, figs. 5-8.

Occurrence: Gulf of Saros, S. 42 (27.50 m), S. 44 (26.20 m), S. 51 (12.30 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 19 (73.00 m), S. 24 (38.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m): it is frequent in the infralittoral zone.

Spiroloculina excavata d'Orbigny
(Pl. 7, figs. 1-2)

- 1846 *Spiroloculina excavata*, d'Orbigny, p. 271, pl. 16, figs. 19-21.
1893 *Spiroloculina excavata* d'Orbigny, Schlumberger, p. 201, pl. 3, fig. 68.
1923 *Spiroloculina excavata* d'Orbigny, Wiesner, p. 34, pl. 5, figs. 23, 24.
1958 *Spiroloculina excavata* d'Orbigny, Le Calvez, J. and Y., p. 205, pl. 8, fig. 89.
1974 *Spiroloculina excavata* d'Orbigny, Colom, p. 208, figs. 62 c, d, h, I.
1979 *Spiroloculina excavata* d'Orbigny, Alfirevic, p. 67, pl. 5, fig. 4.
1991 *Spiroloculina excavata* d'Orbigny, Cimerman and Langer, p. 30, pl. 23, figs. 1-3.
1993 *Spiroloculina excavata* d'Orbigny, Sgarrella and Moncharmont-Zei, p. 169, pl. 5, fig. 6.
1995 *Spiroloculina excavata* d'Orbigny, Meriç et al., p. 109, pl. 2, figs. 4 a-b.
2002 *Spiroloculina excavata* d'Orbigny, Kaminski et al., p. 29, pl. 1, fig. 11.
2002 *Spiroloculina excavata* d'Orbigny, Avşar, p. 63, pl. 1, figs. 7-8.

Occurrence: Gulf of Saros, S. 3 (36.40 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 64 (75.00 m), S. 66 (65.00 m), S. 72 (500.00 m), S. 74 (200.00 m), S. 75 (42.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m),

S. 21 (47.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 35 (80.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 12 (64.20 m), S. 13 (31.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 7 (198.00 m), S. 8 (78.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m): it is frequent in the depth-range of 15.00-334.50 m and occurs in infralittoral-upper epibathyal zones.

Spiroloculina ornata d'Orbigny
(Pl. 7, figs. 3-4)

- 1839a *Spiroloculina ornata*, d'Orbigny, p. 167, pl. 12, fig. 7.
 1958 *Spiroloculina ornata* d'Orbigny, Le Calvez, J. and Y., p. 207, pl. 8, fig. 83.
 1977a *Spiroloculina ornata* d'Orbigny, Le Calvez, Y., p. 94, pl. 18, figs. 1-4.
 1991 *Spiroloculina ornata* d'Orbigny, Cimerman and Langer, p. 30, pl. 23, figs. 8-11.

Occurrence: Gulf of Saros, S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 39 (37.70 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 51 (12.30 m), S. 57 (52.00 m), S. 64 (75.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 15 (3.00 m), S. 16 (4.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 4 (85.50 m), S. 6 (892.00 m), S. 19 (73.00 m), S. 22 (45.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 16 (82.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 4 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (262.30 m), S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 2 (79.10 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): it is frequently encountered in the different localities of Eastern Aegean Sea. It is

frequent in infralittoral-lower epibathyal zones.

Spiroloculina pellucida Said

1950 cf. *Spiroloculina pellucida* Said, Said, p. 7, pl. 1, fig. 12.

Occurrence: Gulf of Saros, S. 65 (61.00 m); Gökçeada, S. 29 (11.00 m); this species is very rare in infralittoral and upper circalittoral zones.

Spiroloculina rostrata Reuss

1850 *Spiroloculina rostrata*, Reuss, p. 382, pl. 49, fig. 7.

1944 *Spiroloculina rostrata* Reuss, Cushman and Todd, p. 25, pl. 4, figs. 17-21.

1993 *Spiroloculina rostrata* Reuss, Sgarella and Moncharmont-Zei, p. 169, pl. 5, fig. 5.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 24 (56.00 m); this species is rare in the upper circalittoral zone.

Spiroloculina tenuiseptata Brady
(Pl. 7, figs. 5-7)

1884 *Spiroloculina tenuiseptata*, Brady, p. 153, pl. 10, fig. 5.

1923 *Spiroloculina tenuiseptata* Brady, Wiesner, p. 32, pl. 4, fig. 15.

1958 *Spiroloculina tenuiseptata* Brady, Le Calvez J. and Y., p. 207, pl. 8, fig. 87.

1958 *Spiroloculina tenuiseptata* Brady, Le Calvez, Y., p. 62, pl. 1, fig. 7.

1991 *Spiroloculina tenuiseptata* Brady, Cimerman and Langer, p. 31, pl. 24, figs. 6-9.

1993 *Spiroloculina tenuiseptata* Brady, Sgarella and Moncharmont-Zei, p. 169, pl. 5, fig. 7.

2002 *Spiroloculina tenuiseptata* Brady, Kaminski et al., p. 30, pl. 1, fig. 10.

Occurrence: Gulf of Saros, S. 5 (43.00 m), S. 7 (90.00 m), S. 9 (71.80 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (198.00 m), S. 36 (74.00 m).

Figure 24 a. Distribution of *Spiroloculina dilatata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 24 b. Distribution of *Spiroloculina excavata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 24 c. Distribution of *Spiroloculina ornata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 24 d. Distribution of *Spiroloculina pellucida* Said in the Eastern Aegean Sea, Turkish Coasts.



24 a



24 b



24 c



24 d

m), S. 37 (59.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 43 (51.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 58 (60.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 63 (96.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 4 (85.50 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 9 (72.00 m), S. 13 (79.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 12 (64.20 m), S. 16 (82.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2(63.50 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 13 (72.50 m), S. 14 (82.00 m), S. 15 (83.70 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 4 (71.80 m), S. 5 (128.80 m); this species is generally abundant in infralittoral-upper epibathyal zones of Eastern Aegean Sea.

Family Hauerinidae Schwager, 1876

Subfamily Siphonapertinae Saidova, 1975

Genus *Siphonaperta* Vella, 1957

Siphonaperta agglutinans (d'Orbigny)

(Pl. 7, fig. 8)

1839a *Quinqueloculina agglutinans*, d'Orbigny, p. 195, pl. 12, figs. 11, 12.

1958 *Quinqueloculina agglutinans* d'Orbigny, Le Calvez, J. and Y., p. 166, pl. 9, figs. 103, 104.

1977a *Quinqueloculina agglutinans* d'Orbigny, Le Calvez, Y., p.54, pl. 7, figs. 1-4.

1991 *Siphonaperta agglutinans* (d'Orbigny), Cimerman and Langer, p. 31, pl. 25, figs. 1-3.

Occurrence: Gökçeada, S. 3 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 9 (72.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 24 (56.00 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 6 (0.50 m); Gulf of Gökova, S. 2 (27.00 m): it is rare in infralittoral and upper circalittoral zones of Eastern Aegean Sea.

Siphonaperta aspera (d'Orbigny)

(Pl. 7, figs. 9-10)

1826 *Quinqueloculina aspera*, d'Orbigny, p. 301, no. 11.

1958 *Quinqueloculina aspera* d'Orbigny, Le Calvez, J. and Y., p. 168, pl. 9, figs., 101, 102.

1991 *Siphonaperta aspera* (d'Orbigny), Cimerman and Langer, 1991, p. 31, pl. 25, figs. 4-6.

1993 *Siphonaperta aspera* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 185, pl. 6, fig. 12.

2001 *Siphonaperta aspera* (d'Orbigny), Debenay et al., pl. 1, figs. 25 and 29.

Occurrence: Gulf of Saros, S. 14 (84.00 m), S. 17 (33.90 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 40 (77.30 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 63 (96.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 19 (40.00 m), S. 20 (3.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 6 (92.00 m), S. 17 (39.00 m), S. 21 (47.00 m), S. 221 (45.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 19 (19.00 m), S. 10 (32.00 m), S. 14 (37.70 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 14 (21.00 m). Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 12 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m); it is frequently encountered in Eastern Aegean Sea, frequent in infralittoral and upper circalittoral zones, but, rare in the lower circalittoral zone.

Siphonaperta dilatata (Le Calvez J. and Y.)

1958 *Quinqueloculina aspera* d'Orbigny var. *dilatata*, Le Calvez J. and Y., p. 169, pl. 11, figs. 119-121.

1991 *Siphonaperta dilatata* (d'Orbigny), Cimerman and Langer, p. 31, pl. 26, figs. 1-3.

Occurrence: Gökçeada, S. 28 (10.00 m), S. 32 (16.00 m); poorly recorded from the infralittoral zone of the Eastern Aegean Sea.

Figure 25 a. Distribution of *Spiroloculina rostrata* Reuss in the Eastern Aegean Sea, Turkish Coasts.

Figure 25 b. Distribution of *Spiroloculina tenuiseptata* Brady in the Eastern Aegean Sea, Turkish Coasts.

Figure 25 c. Distribution of *Siphonaperta aglutinans* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 25 d. Distribution of *Siphonaperta aspera* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



25 a



25 b



25 c



25 d

Siphonaperta irregularis (d'Orbigny)

- 1826 *Quinqueloculina irregularis*, d'Orbigny, p. 136, no. 25.
1958 *Quinqueloculina irregularis* d'Orbigny, Le Calvez, J. and Y., p. 166, pl. 3, figs. 1, 2.
1974 *Quinqueloculina irregularis* d'Orbigny, Colom, p. 200, figs. 59 c, d.
1991 *Siphonaperta irregularis* (d'Orbigny), Cimerman and Langer, p. 32, pl. 26, figs. 4-6.

Occurrence: Gökçeada, S. 3 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m): this species is recorded from only two localities in the infralittoral and upper circalittoral zones.

Subfamily Hauerininae Schwager, 1876
Genus *Cycloforina* Luczkowska, 1972
Cycloforina colomi (Le Calvez J. and Y.)

- 1958 *Quinqueloculina colomi*, Le Calvez, J. and Y., p. 176, pl. 3, figs. 15, 16; pl. 4, figs. 17-19.
1974 *Quinqueloculina (Adelosina) colomi* Le Calvez J. and Y., Colom, p. 187, figs. 57 a-d.
1991 *Cycloforina colomi* (Le Calvez J. and Y.), Cimerman and Langer, p. 32, pl. 27, figs. 4-6.

Occurrence: Bozcaada, S. 10 (0.50 m): it occurs rarely in the infralittoral zone of the Bozcaada region.

Cycloforina contorta (d'Orbigny)
(Pl. 7, figs. 11-13)

- 1846 *Quinqueloculina contorta*, d'Orbigny, p. 298, pl. 20, figs. 4-6.
1923 *Quinqueloculina contorta* d'Orbigny, Wiesner, p. 46, pl. 6, fig. 56.
1958 *Quinqueloculina contorta* d'Orbigny, Le Calvez, J. and Y., p. 171, pl. 12, figs. 140-142.
1988 *Cycloforina contorta* (d'Orbigny), Loeblich and Tappan, p. 33, pl. 342, figs. 4-9.

Figure 26 a. Distribution of *Siphonaperta dilatata* (Le Calvez, J. and Y.) in the Eastern Aegean Sea, Turkish Coasts.

Figure 26 b. Distribution of *Siphonaperta irregularis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 26 c. Distribution of *Cycloforina colomi* (Le Calvez, J. and Y.) in the Eastern Aegean Sea, Turkish Coasts.

Figure 26 d. Distribution of *Cycloforina contorta* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



26 a



26 b



26 c



26 d

1991 *Cycloforina contorta* (d'Orbigny), Cimerman and Langer, p. 32, pl. 27, figs. 7-11.

2002 *Cycloforina contorta* (d'Orbigny), Avşar, p. 63, pl. 1, figs. 9-10.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 7 (90.00 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 18 (88.10 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 65 (61.00 m), S. 79 (29.00 m); Gökçeada, S. 15 (3.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (70.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 13 (31.00 m), S. 17 (47.40 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 7 (56.40 m); Marmaris Bay, S. 3 (98.30 m), S. 4 (871.80 m), S. 6 (64.00 m), S. 8 (69.00 m): it is widespread in Eastern Aegean Sea. It is frequent in infralittoral and upper circalittoral zones. This species is also recorded rarely in lower circalittoral and upper epibathyal zones.

Cycloforina rugosa (d'Orbigny)
(Pl. 8, fig. 1)

1826 *Quinqueloculina rugosa*, d'Orbigny, p. 302, no. 24.

1923 *Quinqueloculina rugosa* d'Orbigny, Wiesner, p. 46, pl. 6, fig. 54.

1958 *Quinqueloculina rugosa* d'Orbigny, Le Calvez, J. and Y., p. 171, pl. 12, figs. 137-139.

1991 *Cycloforina rugosa* (d'Orbigny), Cimerman and Langer, p. 33, pl. 28, figs. 3-4.

Occurrence: Gökçeada, S. 14 (55.00 m), S. 18 (30.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 17 (39.00 m), S. 21 (47.00 m): it is found rarely in the infralittoral zone.

Cycloforina tenuicollis (Wiesner)

1923 *Miliolina tenuicollis*, Wiesner, p. 48, pl. 6, fig. 66.

1909 *Miliolina ferussacii*, Sidebottom, p. 17, pl. 5, fig. 7.

1970 *Quinqueloculina tenuicollis* (Wiesner), v. Daniels, p. 75, pl. 3, fig. 5.

1991 *Cycloforina tenuicollis* (Wiesner), Cimerman and Langer, p. 33, pl. 28, figs. 5-6.

Occurrence: Gökçeada, S. 25 (25.00 m), Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 22 (45.00 m), S. 36 (82.00 m): it occurs in a few samples recovered from infralittoral and upper circalittoral zones.

Cycloforina villafranca (Le Calvez, J. and Y.)
(Pl. 8, figs. 2-3)

1958 *Quinqueloculina villafranca*, Le Calvez, J. and Y., p. 180, pl. 4, figs. 22, 23.

1991 *Cycloforina villafranca* (Le Calvez, J. and Y.), Cimerman and Langer, p. 33, pl. 28, figs. 7-9.

1993 *Quinqueloculina villafranca* Le Calvez, J. and Y., Sgarella and Moncharmont-Zei, p. 176, pl. 7, figs. 3-4.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 7 (90.00 m), S. 14 (84.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 60 (55.00 m), S. 80 (98.00 m); Gökçeada, S. 32 (16.00 m), Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m); Gulf of Edremit, S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 13 (80.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datca, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (898.30 m), S. 4 (71.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m): this taxon occurs in many samples. It is frequent in infralittoral and upper circalittoral zones, but, rare in lower circalittoral and upper epibathyal zones.

Genus *Lachlanella* Vella, 1957
Lachlanella bicornis (Walker and Jacob)
(Pl. 8, figs. 4-7)

1896 *Miliolina bicornis* (Walker and Jacob), Dezelic, p. 70.

1923 *Miliolina bicornis* Williamson, Wiesner, p. 51, pl. 7, fig. 77.

1958 *Quinqueloculina bicornis* (Walker and Jacob), Le Calvez, J. and Y., p. 180, pl. 4, figs. 28, 32.

1958 *Quinqueloculina bicornis* (Walker and Jacob), Le Calvez, Y., p. 157, pl. 1, figs. 8, 9.

- 1960 *Quinqueloculina bicornis* (Walker and Jacob), Barker, pl. 6, fig. 9.
 1971 *Quinqueloculina bicornis* (Walker and Jacob), Murray, p. 57, pl. 20, figs. 1-5.
 1991 *Lachlanella bicornis* (Walker and Jacob), Cimerman and Langer, p. 34, pl. 29, figs. 1-3.

Occurrence: Gulf of Saros, S. 14 (84.00 m), S. 20 (92.00 m), S. 35 (195.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 45 (33.50 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 6 (92.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 33 (39.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 14 (37.70 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 3 (139.50 m), S. 5 (59.30 m), S. 6 (56.10 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m): this species is abundant in infralittoral and upper circalittoral zones. It is also recorded from lower circalittoral-lower epibathyal zones.

Lachlanella undulata (d'Orbigny)
(Pl. 8, fig. 8)

- 1826 *Quinqueloculina undulata*, d'Orbigny, p. 302, no. 27.
 1893 *Quinqueloculina undulata* d'Orbigny, Schlumberger, p. 213, pl. 2, figs. 60, 61.
 1923 *Miliolina undulata* (d'Orbigny), Wiesner, p. 53, pl. 7, fig. 81.
 1958 *Quinqueloculina undulata* d'Orbigny, Le Calvez, J. and Y., p. 179, pl. 13, figs. 146-148.
 1958 *Quinqueloculina undulata* d'Orbigny, Le Calvez, Y., p. 159.
 1974 *Quinqueloculina undulata* d'Orbigny, Colom, p. 202, figs. 58 h-k.
 1991 *Lachlanella undulata* (d'Orbigny), Cimerman and Langer, p. 34, pl. 30, figs. 3-6.

- Figure 27 a. Distribution of *Cycloforina rugosa* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 27 b. Distribution of *Cycloforina tenuicollis* (Wiesner) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 27 c. Distribution of *Cycloforina villafranca* (Le Calvez J. and Y.) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 27 d. Distribution of *Lachlanella bicornis* (Walker and Jacob) in the Eastern Aegean Sea, Turkish Coasts.



27 a



27 b



27 c



27 d

- 1995 *Lachlanella undulata* (d'Orbigny), Meriç et al., p. 109, pl. 4, figs. 4 a-c.
2001 *Lachlanella undulata* (d'Orbigny), Debenay et al., p. 2, fig. 9.
2002 *Lachlanella undulata* (d'Orbigny), Avşar, p. 63, pl. 1, fig. 11.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 10 (68.50 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 22 (118.50 m), S. 27 (144.80 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 79 (29.00 m); Gökçeada, S. 24 (68.00 m), S. 25 (25.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 7 (18.00 m), S. 13 (79.00 m), S. 18 (69.00 m), S. 21 (47.00 m), S. 28 (39.00 m), S. 32 (46.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 4 (76.30 m), S. 12 (64.20 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.00 m), S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m); Marmaris Bay, S. 2 (79.10 m), S. 4 (71.80 m); it is abundant in infralittoral and upper circalittoral zones, but, rare in lower circalittoral-upper epibathyal zones.

Lachlanella variolata (d'Orbigny)
(Pl. 8, figs. 9-10; Pl. 9, figs. 1-3)

- 1826 *Quinqueloculina variolata*, d'Orbigny, p. 302, no. 26.
1839a *Triloculina carinata*, d'Orbigny, p. 179, pl. 10, figs. 15-17.
1923 *Miliolina reticulata* (d'Orbigny), Wiesner, p. 52, pl. 7, fig. 78.
1970 *Quinqueloculina reticulata* d'Orbigny, Cherif, pl. 9, fig. 1.
1974 *Quinqueloculina reticulata* d'Orbigny, Colom, p. 201, figs. 56 a-d.
1977a *Quinqueloculina variolata* d'Orbigny, Le Calvez, Y., p. 102, figs. 15-17.
1991 *Lachlanella variolata* (d'Orbigny), Cimerman and Langer, p. 35, pl. 31, figs. 1-12.
2002 *Lachlanella variolata* (d'Orbigny), Avşar, p. 63, pl. 1, fig. 12.

Occurrence: Gökçeada, S. 23 (10.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 33 (39.00 m); Gulf of Edremit, S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 5 (26.50 m); Çeşme, S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Gökova, S. 1 (42.00 m), S. 5 (34.50 m); Gulf of Datça, S. 4 (40.00 m); it occurs frequently in the infralittoral zone.

Genus *Massilina* Schlumberger, 1893
Massilina gualtieriana (d'Orbigny)
(Pl. 9, figs. 5-6)

- 1839a *Quinqueloculina gualtieriana*, d'Orbigny, p. 186, pl. 11, figs. 1-3.

- 1932 *Quinqueloculina gualtieriana* d'Orbigny, Cushman, p. 23, pl. 6, figs. 1a-c.
 1977a *Quinqueloculina gualtieriana* d'Orbigny, Le Calvez, Y., p. 75, pl. 12, figs. 4-8.
 1991 *Massilina gualtieriana* (d'Orbigny), Cimerman and Langer, p. 35, pl. 29, figs. 6-9.

Occurrence: Gulf of Saros, S. 42 (27.50 m); Gökçeada, S. 3 (0.50 m), S. 4 (0.50 m), S. 15 (3.00 m), S. 19 (40.00 m), S. 23 (10.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 3 (18.50 m), S. 5 (18.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m), S. 6 (65.00 m): it is frequent in infralittoral and rare in upper circalittoral zones of Eastern Aegean Sea.

Massilina secans (d'Orbigny)
(Pl. 9, figs. 7-8)

- 1826 *Quinqueloculina secans*, d'Orbigny, p. 303, no. 43.
 1958 *Massilina secans* (d'Orbigny), Le Calvez, J. and Y., p. 204, pl. 7, fig. 66.
 1971 *Massilina secans* (d'Orbigny), Murray, p. 67, pl. 25, figs. 1-6.
 1987 *Massilina secans* (d'Orbigny), Yanko and Troitskaja, pl. 2, fig. 9.
 1988 *Massilina secans* (d'Orbigny), Loeblich and Tappan, p. 335, pl. 344, figs. 1-3.
 1991 *Massilina secans* (d'Orbigny), Cimerman and Langer, p. 35, pl. 30, figs. 7-12.
 1993 *Massilina secans* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 180, pl. 9, fig. 10.
 2001 *Massilina secans* (d'Orbigny), Debenay et al., pl. 2, fig. 19.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 42 (27.50 m), S. 44 (26.20 m); Gökçeada, S. 19 (40.00 m), S. 25 (25.00 m), S. 34 (41.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 34 (38.00 m); Gulf of Edremit, S. 6 (16.00 m), S. 7 (19.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 4 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m): it is rarely found in the infralittoral zone.

Genus *Quinqueloculina* d'Orbigny, 1826
Quinqueloculina berthelotiana d'Orbigny
(Pl. 9, figs. 9-10)

- 1839b *Quinqueloculina berthelotiana*, d'Orbigny, p. 142, pl. 3, figs. 25-27.
 1923 *Quinqueloculina berthelotiana* d'Orbigny, Wiesner, p. 48, pl. 6, fig. 67.
 1958 *Quinqueloculina berthelotiana* d'Orbigny, Le Calvez, J. and Y., p. 173, pl. 10, figs. 115-117.
 1974 *Quinqueloculina berthelotiana* d'Orbigny, Colom, p. 188, figs. 59 e-g.

- 1991 *Quinqueloculina berthelotiana* d'Orbigny, Cimerman and Langer, p. 36, pl. 32, figs. 5-7.
- 1993 *Quinqueloculina berthelotiana* d'Orbigny, Sgarella and Moncharmont-Zei, p. 170, pl. 6, figs. 1-2.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 5 (43.00 m), S. 16 (71.10 m), S. 37 (59.00 m), S. 39 (37.70 m), S. 41 (81.00 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 65 (61.00 m), S. 79 (29.00 m); Gökçeada, S. 3, (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 20 (3.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 3 (59.60 m), S. 6 (92.00 m), S. 17 (39.00 m), S. 24 (56.00 m), S. 33 (39.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m), S. 14 (37.70 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 8 (35.80 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 3 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 2 (79.10 m), S. 3 (98.30 m), S. 6 (64.00 m), S. 8 (69.00 m); this species occurs abundantly in Eastern Aegean Sea, mostly in the infralittoral zone. It is rear in upper-lower circalittoral zones.

Quinqueloculina bidentata d'Orbigny
(Pl. 9, figs.11-12)

- 1839a *Quinqueloculina bidentata*, d'Orbigny, p. 197, pl. 12, figs. 18-20.
- 1929 *Quinqueloculina bidentata* d'Orbigny, Cushman, p. 22, pl. 1, fig. 2.
- 1977a *Quinqueloculina bidentata* d'Orbigny, Le Calvez, Y., p. 64, pl. 65, figs. 1, 2.
- 1991 *Quinqueloculina bidentata* d'Orbigny, Cimerman and Langer, p. 36, pl. 32, figs. 10-14.
- 1992 *Quinqueloculina bidentata* d'Orbigny, Hatta and Ujiie, p. 66, pl. 7, figs. 3 a and b.

- Figure 28 a. Distribution of *Lachlanella undulata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts
- Figure 28 b. Distribution of *Lachlanella variolata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 28 c. Distribution of *Massilina gualtieriana* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 28 d. Distribution of *Massilina secans* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



28 a



28 b



28 c



28 d

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 22 (118.50 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 42 (27.50 m), S. 45 (33.50 m), S. 72 (500.00 m), S. 79 (29.00 m); Gökçeada, S. 1 (0.50 m), S. 16 (4.00 m), S. 23 (10.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m), S. 29 (50.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m), S. 10 (32.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 4 (46.20 m), S. 5 (34.50 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 2 (79.10 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is abundant in infralittoral and upper circalittoral zones, rare in lower circalittoral-upper epibathyal zones.

Quinqueloculina disparilis d'Orbigny
(Pl. 10, figs. 1-3)

- 1826 *Quinqueloculina disparilis*, d'Orbigny, p. 302, no. 21.
 1893 *Quinqueloculina disparilis* d'Orbigny, Schlumberger, p. 212, pl. 2, figs. 55-57.
 1923 *Quinqueloculina disparilis* d'Orbigny, Wiesner, p. 47, pl. 6, figs. 60, 61.
 1958 *Quinqueloculina disparilis* d'Orbigny, Le Calvez, J. and Y., p. 180, pl. 4, figs. 26, 27.
 1974 *Quinqueloculina disparilis* d'Orbigny, Colom, p. 200, figs. 55 a-g.
 1991 *Quinqueloculina disparilis* d'Orbigny, Cimerman and Langer, p. 36-37, pl. 33, figs. 1-4.
 1993 *Quinqueloculina disparilis* d'Orbigny, Sgarella and Moncharmont-Zei, p. 170, pl. 8, fig. 2.

Occurrence: Gulf of Saros, S. 51 (12.30 m), S. 67 (550.00 m); Gökçeada, S. 3 (0.50 m), S. 16 (4.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 3 (18.50 m), S. 5 (18.00 m), S. 14 (21.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 3 (80.40 m), S. 6 (65.00 m), S. 8 (78.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 6 (64.00 m): this species occurs frequently in the infralittoral zone. It is recorded rarely in upper circalittoral-upper epibathyal zones.

Quinqueloculina eburnea (d'Orbigny)
(Pl. 10, figs. 4-5)

- 1987 *Quinqueloculina oblonga eburnea* (d'Orbigny), Baccaert, pl. 46, figs. 3-5.

2001 *Quinqueloculina eburnea* (d'Orbigny), Meriç and Avşar, p. 128, 131, pl. 2, figs. 18-19.

Occurrence: Gökçeada, S. 3 (0.50 m), S. 13 (13.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 29 (11.00 m), S. 30 (3.00 m): it occurs rarely in the infralittoral zone.

Quinqueloculina jugosa Cushman
(Pl. 10, figs. 6-7)

1878 *Quinqueloculina costata*, Terquem, p. 63, pl. 6, figs. 3, 5.

1944 *Quinqueloculina seminulum* Linné var. *jugosa*, Cushman, p. 13, pl. 2, fig. 15.

1958 *Quinqueloculina seminulum* Linné var. *jugosa* Cushman, Le Calvez, J. and Y., p. 178, pl. 4, figs. 20, 21.

1991 *Quinqueloculina jugosa* Cushman, Cimerman and Langer, p. 37, pl. 33, figs. 12-14.

2002 *Quinqueloculina jugosa* Cushman, Avşar, p. 63, pl. 1, fig. 13.

Occurrence: Gulf of Saros, S. 17 (33.90 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 79 (29.00 m); Gökçeada, S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 3 (59.60 m), S. 13 (79.00 m), S. 17 (839.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 10 (32.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Datça, S. 9 (147.00 m); this species occurs frequently in infralittoral and rarely in upper-lower epibathyal zones.

Quinqueloculina laevigata d'Orbigny
(Pl. 10, figs. 8-9)

1839b *Quinqueloculina laevigata*, d'Orbigny, p. 143, pl. 3, figs. 32, 33.

1923 *Miliolina laevigata* (d'Orbigny), Wiesner, p. 55, pl. 8, figs. 94-96.

1929 *Quinqueloculina laevigata* d'Orbigny, Cushman, p. 30, pl. 4, fig. 3.

1958 *Quinqueloculina laevigata* d'Orbigny, Le Calvez, J. and Y., p. 184, pl. 10.

Figure 29 a. Distribution of *Quinqueloculina berthelotiana* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 29 b. Distribution of *Quinqueloculina bidentata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 29 c. Distribution of *Quinqueloculina disparilis* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 29 d. Distribution of *Quinqueloculina eburnea* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



29 a



29 b



29 c



29 d

figs. 112-114.

1991 *Quinqueloculina laevigata* d'Orbigny, Cimerman and Langer, p. 37, pl. 33, figs. 8-11.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 14 (84.00 m), S. 17 (33.90 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), s. 15 (3.00 m), S. 16 (4.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 13 (79.00 m), S. 34 (38.00 m); Çeşme, S. 2 (0.50 m), S. 3 (0.50 m), s. 4 (0.50 m), S. 5 (80.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 3 (113.00 m): it occurs rarely in Eastern Aegean Sea. This species is recorded generally in the infralittoral zone. It is rare in upper-lower circalittoral zones.

Quinqueloculina lamarckiana d'Orbigny
(Pl. 10, figs. 10-11)

1839a *Quinqueloculina lamarckiana*, d'Orbigny, p. 189, pl. 11, figs. 14, 15.

1921 *Quinqueloculina lamarckiana* d'Orbigny, Cushman, p. 419, pl. 87, figs. 2, 3.

1981 *Quinqueloculina lamarckiana* d'Orbigny, Chasens, pl. 1, figs. 5-9.

1984 *Quinqueloculina lamarckiana* d'Orbigny, Ross and Kennett, pl. 2, fig. 4.

1992 *Quinqueloculina lamarckiana* d'Orbigny, Hatta and Ujiie, p. 67, pl. 7, figs. 7 a and b.

2000 *Quinqueloculina lamarckiana* d'Orbigny, Cann et al., pl. 3, figs. e, f, g, h.

2002 *Quinqueloculina lamarckiana* d'Orbigny, Avşar, p. 63, pl. 1, figs. 14-15.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 67 (550.00 m), S. 74 (200.00 m), S. 79 (29.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 18 (3.00 m), S. 19 (40.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 2 (32.40 m), S. 7 (18.00 m), S. 17 (39.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 31 (75.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 6 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 11 (47.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m); Marmaris Bay, S. 2 (79.10 m), S. 8 (69.00 m): it is widespread in the different gulfs of Eastern Aegean Sea. It is reported generally from the infralittoral zone. It is rare in upper circalittoral-lower epibathyal zones.

Quinqueloculina limbata d'Orbigny
(Pl. 10, fig. 12)

- 1826 *Quinqueloculina limbata*, d'Orbigny, p. 302, no. 20.
1904 *Quinqueloculina limbata* d'Orbigny, Fornasini, p. 66, pl. 3, fig. 9.
1923 *Miliolina limbata* (d'Orbigny), Wiesner, p. 45, pl. 6, fig. 51.
1991 *Quinqueloculina limbata* d'Orbigny, Cimerman and Langer, p. 37, pl. 34, figs. 1-5.
1994 *Quinqueloculina limbata* d'Orbigny, Loeblich and Tappan, p. 49, pl. 78, figs. 10-12.
2002 *Quinqueloculina limbata* d'Orbigny, Avşar, p. 63, pl. 1, figs. 16-17.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 38 (53.40 m), S. 51 (12.30 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 16 (47.00 m), S. 18 (69.00 m), S. 21 (47.00 m), S. 28 (39.00 m), S. 29 (50.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.00 m); Gulf of Gökova, S. 1 (42.00 m), S. 3 (80.40 m); Marmaris Bay, S. 3 (98.30 m), S. 8 (69.00 m): it occurs frequently in the infralittoral zone and rarely in the upper circalittoral zone.

Quinqueloculina neapolitana Sgarella and Moncharmont-Zei
(Pl. 11, fig. 1)

- 1993 *Quinqueloculina neapolitana*, Sgarella and Moncharmont-Zei, p. 172, pl. 5, figs. 10-12.

Occurrence: Gulf of Saros, S. 25 (188.00 m): its occurrence is always very rare in the lower circalittoral zone.

Quinqueloculina poeyana d'Orbigny

- 1839a *Quinqueloculina poeyana*, d'Orbigny, p. 191, pl. 11, figs. 25-27.
1977a *Quinqueloculina poeyana* d'Orbigny, Le Clvez, Y., p. 82-83, pl. 14, figs. 1-4.
1988 *Quinqueloculina poeyana* d'Orbigny, Haig, p. 234, pl. 7, figs. 15-17.
1990 *Quinqueloculina poeyana* d'Orbigny, Debenay, pl. 2, fig. 6.
1993 *Quinqueloculina poeyana* d'Orbigny, Sgarella and Moncharmont-Zei, p.

Figure 30 a. Distribution of *Quinqueloculina jugosa* Cushman, in the Eastern Aegean Sea, Turkish Coasts.

Figure 30 b. Distribution of *Quinqueloculina laevigata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 30 c. Distribution of *Quinqueloculina lamarckiana* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 30 d. Distribution of *Quinqueloculina limbata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



30 a



30 b



30 c



30 d

174, pl. 6, figs. 3-4.

2000 *Quinqueloculina poeyana* d'Orbigny, Cann et al., pl. 3, figs. m, n, o, p.

Occurrence: Gulf of Saros, S. 13 (156.00 m): it occurs always rare in the lower circalittoral zone.

Quinqueloculina seminula (Linné)

(Pl. 11, figs. 2-4)

1893 *Quinqueloculina seminulum* (Linné), Schlumberger, p. 208, pl. 4, figs. 80, 81.

1923 *Miliolina seminulum* (Linné), Wiesner, p. 66, pl. 12, fig. 148.

1960 *Quinqueloculina seminulum* (Linné), Barker, pl. 5, fig. 6.

1970 *Quinqueloculina seminulum* (Linné), v. Daniels, p. 75, pl. 3, fig. 4.

1987 *Quinqueloculina seminulum* (Linné), Yanko and Troitskaja, pl. 2, figs. 3 and 4.

1990 *Quinqueloculina seminula* (Linné), Debenay, pl. 2, fig. 8.

1990 *Quinqueloculina seminula* (Linné), Galluzzo et al., pl. 1, fig. 14.

1991 *Quinqueloculina seminula* (Linné), Cimerman and Langer, p. 38, pl. 34, figs. 9-12.

1992 *Quinqueloculina seminulum* (Linné), Hatta and Ujiie, p. 69, pl. 9, figs. 1a-2 b.

1993 *Quinqueloculina seminulum* (Linné), Sgarella and Moncharmont-Zei, p. 174.

1999 *Quinqueloculina seminula* (Linné), Hayward et al., p. 103, pl. 5, figs. 9-10.

2001 *Quinqueloculina seminula* (Linné), Debenay et al., pl. 2, figs. 11-12.

2002 *Quinqueloculina seminula* (Linné), Avşar, p. 63, pl. 1, figs. 18-20.

Occurrence: Gulf of Saros, S. 6 (70.00 m), S. 8 (55.70 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.00 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.00 m), S. 54 (94.50 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 58 (60.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 63 (96.00 m), S. 64 (75.00 m), S. 67 (550.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 75 (42.00 m), S. 78 (63.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 3 (0.50 m), S. 8 (0.50 m), S. 11 (0.50 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 18 (30.00 m), S. 20 (3.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m), S. 33 (28.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (37.50 m), S. 6 (92.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 25 (74.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 35 (80.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S.

8 (49.30 m), S. 9 (49.60 m), S. 10 (32.00 m), S. 13 (31.00 m), S. 16 (82.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.00 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 5 (26.50 m); Çeşme, S. 4 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 12 (62.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 3 (80.40 m), S. 4 (46.20 m), S. 6 (65.00 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 4 (40.00 m), S. 7 (56.40 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is abundant in the different depth-ranges, and occurs frequently both in infralittoral-upper circalittoral zones and lower circalittoral-lower epibathial zones.

Quinqueloculina stalkerii Loeblich and Tappan
(Pl. 11, fig. 5)

1993 *Quinqueloculina stalkerii* Loeblich and Tappan, Sgarella and Moncharmont-Zei, p. 174, pl. 5, figs. 13-14.

Occurrence: Gökçeada, S. 28 (10.00 m), Gulf of Izmir S. 4 (40.00 m): this species is recorded poorly from the infralittoral zone.

Quinqueloculina stelligera Schlumberger

1893 *Quinqueloculina stelligera* Schlumberger, p. 210, pl. 2, figs. 58, 59.

1923 *Miliolina schlumbergeri*, Wiesner, p. 49, pl. 6, fig. 73.

1958 *Quinqueloculina stelligera* Schlumberger, Le Calvez, J. and Y., p. 174, pl. 11, figs. 125, 126.

1970 *Quinqueloculina schlumbergeri* Wiesner, Haake, p. 196, pl. 1, figs. 3, 4.

1991 *Quinqueloculina stelligera* Schlumberger, Cimerman and Langer, p. 38, pl. 34, figs. 13-15.

1993 *Quinqueloculina stelligera* Schlumberger, Sgarella and Moncharmont-Zei, p. 175, pl. 6, figs. 13-14.

2001 *Quinqueloculina stelligera* Schlumberger, Debenay et al., pl. 2, figs. 3-4.

2002 *Quinqueloculina stelligera* Schlumberger, Kaminski et al., p. 29, pl. 2, fig. 3.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 27 (70.00 m), S. 31 (75.00 m), S. 33 (39.00 m): it occurs rarely in Eastern Aegean Sea, and is recorded from infralittoral and upper circalittoral zones.

Quinqueloculina viennensis Le Calvez J. and Y.
(Pl. 11, figs. 6-7)

- 1958 *Quinqueloculina viennensis*, Le Calvez, J. and Y., p. 187, pl. 5, figs. 42, 44, 45.
1993 *Quinqueloculina viennensis* Le Calvez J. and Y., Sgarella and Moncharmont-Zei, p. 176, pl. 7, fig. 8.

Occurrence: Gulf of Saros, S. 18 (88.10 m), S. 38 (53.40 m); Gökçeada, S. 29 (11.00 m), s. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 34 (38.00 m); it is found rarely in infralittoral and upper circalittoral zones.

Quinqueloculina vulgaris d'Orbigny
(Pl. 11, fig. 8)

- 1826 *Quinqueloculina vulgaris*, d'Orbigny, p. 302, no. 33.
1893 *Quinqueloculina vulgaris* d'Orbigny, Schlumberger, p. 207, pl. 2, figs. 65, 66.
1904 *Miliolina seminulum* (Linné) var. *cornuta*, Sidebottom, p. 11, figs. 11, 12.
1923 *Miliolina vulgaris* (d'Orbigny), Wiesner, p. 66, pl. 12, fig. 149.
1929 *Quinqueloculina vulgaris* d'Orbigny, Cushman, p. 25, pl. 2, fig. 3.
1949 *Quinqueloculina vulgaris* d'Orbigny, Said, p. 11, pl. 1, fig. 26.
1958 *Quinqueloculina vulgaris* d'Orbigny, Le Calvez J. and Y., p. 185, pl. 5, figs. 36, 37.
1974 *Quinqueloculina vulgaris* var. *cornuta* Sidebottom, Colom, p. 203, figs. 54 j-o.
1991 *Quinqueloculina vulgaris* d'Orbigny, Cimerman and Langer, p. 38-39, pl. 35, figs. 13-14.

Occurrence: Gulf of Saros, S. 3 (34.60 m): it occurs only in one sample collected from the infralittoral zone of the Gulf of Saros.

- Figure 31 a. Distribution of *Quinqueloculina neapolitana* Sgarella and Moncharmont-Zein in the Eastern Aegean Sea, Turkish Coasts.
Figure 31 b. Distribution of *Quinqueloculina poeyana* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
Figure 31 c. Distribution of *Quinqueloculina seminula* (Linné) in the Eastern Aegean Sea, Turkish Coasts.
Figure 31 d. Distribution of *Quinqueloculina stalkerii* Loeblich and Tappan in the Eastern Aegean Sea, Turkish Coasts.



31 a



31 b



31 c



31 d

Subfamily Miliolinellinae Vella, 1957

Genus *Biloculinella* Wiesner, 1931

Biloculinella depressa (Wiesner)

(Pl. 11, fig. 9)

1923 *Biloculinella labiata* Schlumberger var. *depressa*, Wiesner, p. 90, pl. 18, fig. 263.

1958 *Biloculinella labiata* (Schlumberger) var. *depressa* Wiesner, Le Calvez, J. and Y., p. 202, pl. 16, figs. 193, 194.

1991 *Biloculinella depressa* (Wiesner), Cimerman and Langer, p. 39, pl. 36, fig. 11.

Occurrence: Gulf of Saros, S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 62 (110.00 m), S. 68 (210.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m), S. 10 (57.00 m), S. 19 (73.00 m), S. 27 (70.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m); Gulf of Gökova, S. 7 (198.00 m): it is frequent and reported from upper circalittoral to upper epibathial zones.

Biloculinella elongata (Wiesner)

1923 *Biloculinella labiata* Schlumberger var. *elongata*, Wiesner, p. 89, pl. 18, fig. 258.

1991 *Biloculinella elongata* (Wiesner), Cimerman and Langer, p. 39, pl. 36, figs. 3-4.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 31 (75.00 m), S. 32 (46.00 m): it occurs in a few samples in the upper circalittoral zone.

Biloculinella globula (Bornemann)

(Pl. 11, figs. 10-11)

1855 *Biloculina globulus*, Bornemann, p. 349, pl. 19, figs. 3 a, b.

1891 *Biloculina globulus* Bornemann, Schlumberger, p. 575, pl. 12, figs. 97-100.

1958 *Biloculinella globula* (Bornemann), Le Calvez, J. and Y., p. 201, pl. 7, fig. 76.

Figure 32 a. Distribution of *Quinqueloculina stelligera* Schlumberger in the Eastern Aegean Sea, Turkish Coasts.

Figure 32 b. Distribution of *Quinqueloculina viennensis* Le Calvez, J. and Y. in the Eastern Aegean Sea, Turkish Coasts.

Figure 32 c. Distribution of *Quinqueloculina vulgaris* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 32 d. Distribution of *Biloculinella depressa* (Wiesner) in the Eastern Aegean Sea, Turkish Coasts.



32 a



32 b



32 c



32 d

1991 *Biloculinella globula* (Bornemann), Cimerman and Langer, p. 40, pl. 36, figs. 1-2.

1993 *Biloculinella globula* (Bornemann), Sgarella and Moncharmont-Zei, p. 188.

2002 *Biloculinella globula* (Bornemann), Kaminski et al., p. 23, pl. 2, fig. 1.

2002 *Biloculinella globula* (Bornemann), Avşar, p. 63, pl. 1, fig. 21.

Occurrence: Gulf of Saros, S. 11 (79.10 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 35 (195.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 66 (65.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 36 (46.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 12 (64.20 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 5 (137.00 m), S. 7 (305.20 m), S. 8 (29.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m): it is frequent in infralittoral and upper circalittoral zones, and occurs rarely in lower circalittoral and upper epibathial zones.

Biloculinella inflata (Wright)

(Pl. 11, figs. 12-13)

1902 *Biloculina inflata*, Wright, p. 183, pl. 13, figs. 1-4.

1993 *Biloculinella inflata* (Wright), Sgarella and Moncharmont-Zei, p. 188, pl. 10, fig. 12.

Occurrence: Gulf of Saros, S. 30 (90.50 m), S. 34 (82.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 27 (70.00 m), S. 36 (82.00 m): this species is poorly recorded from upper and lower circalittoral zones.

Biloculinella labiata (Schlumberger)

(Pl. 12, figs. 1-2)

1891 *Biloculina labiata*, Schlumberger, p. 556, pl. 9, figs. 60-62, text-figs. 13, 14.

1923 *Biloculina labiata* Schlumberger var. *simplex*, Wiesner, p. 89, pl. 18, fig. 261.

1958 *Biloculinella labiata* (Schlumberger) var. *simplex* Wiesner, Le Calvez J. and Y., p. 202, pl. 16, figs. 193, 194.

1958 *Biloculinella labiata* (Schlumberger), Parker, p. 255, pl. 1, figs. 10, 11.

1988 *Biloculinella labiata* (Schlumberger), Loeblich and Tappan, p. 337, pl. 348, figs. 1-4.

1991 *Biloculinella labiata* (Schlumberger), Cimerman and Langer, p. 40, pl. 36, fig. 121.

1993 *Biloculinella labiata* (Schlumberger), Sgarella and Moncharmont-Zei, p. 188.

2002 *Biloculinella labiata* (Schlumberger), Avşar, p. 63, pl. 1, fig. 22.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 9 (71.80 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 39 (37.70 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 63 (96.00 m), S. 65 (61.00 m), S. 69 (72.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 24 (56.00 m), S. 27 (70.00 m); Gulf of Edremit, S. 3 (230.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 6 (45.60 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 3 (80.40 m), S. 8 (78.30 m); Gulf of Datça, S. 6 (56.10 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 8 (69.00 m): it occurs frequently in the upper circalittoral zone. It is also reported from lower circalittoral-upper epibathial zones.

Genus *Miliolinella* Wiesner, 1931

Miliolinella elongata Kruit

(Pl. 12, fig. 3)

1955 *Miliolinella circularis* (Bornemann) var. *elongata*, Kruit, p. 110, pl. 1, figs. 15 a, b.

1971 *Miliolinella circularis* (Bornemann) var. *elongata* Kruit, Murray, p. 73, pl. 28, figs. 1-4.

1991 *Miliolinella elongata* Kruit, Cimerman and Langer, p. 41, pl. 37, fig. 8.

1993 *Miliolinella circularis elongata* Kruit, Sgarella and Moncharmont-Zei, p. 187, pl. 10, fig. 5.

Occurrence: Gulf of Saros, S. 19 (96.50 m), S. 20 (92.00 m), S. 40 (77.30 m); Gökçeada, S. 17 (4.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 4 (40.00 m); Gulf of Kuşadası and Güllük Bay, S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m); Gulf of Datça, S. 7 (56.40 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m): this species occurs frequently in the different localities of Eastern Aegean Sea. It is reported from infralittoral, upper and lower circalittoral and upper epibathial zones.

Figure 33 a. Distribution of *Biloculinella elongata* (Wiesner) in the Eastern Aegean Sea, Turkish Coasts.

Figure 33 b. Distribution of *Biloculinella globula* (Bornemann) in the Eastern Aegean Sea, Turkish Coasts.

Figure 33 c. Distribution of *Biloculinella inflata* (Wright) in the Eastern Aegean Sea, Turkish Coasts.

Figure 33 d. Distribution of *Biloculinella labiata* (Schlumberger) in the Eastern Aegean Sea, Turkish Coasts.



33 a



33 b



33 c



33 d

Miliolinella labiosa (d'Orbigny)
(Pl. 12, fig. 4)

- 1839a *Triloculina labiosa*, d'Orbigny, p. 178, pl. 10, figs. 12-14.
1923 *Miliolina labiosa* (d'Orbigny), Wiesner, p. 71, pl. 134, fig. 171.
1929 *Triloculina labiosa* d'Orbigny, Cushman, p. 60, pl. 15, fig. 3.
1958 *Triloculina labiosa* d'Orbigny, Le Calvez, J. and Y., p. 196, pl. 14, figs. 168, 169.
1988 *Miliolinella labiosa* d'Orbigny, Haig, p. 224, pl. 2, fig. 15.
1991 *Miliolinella labiosa* (d'Orbigny), Cimerman and Langer, p. 41, pl. 38, figs. 1-3.
2000 *Miliolinella labiosa* (d'Orbigny), Cann et al., pl. 5, figs. g, h, i, j.

Occurrence: Marmaris Bay, S. 2 (79.10 m): this species is rarely recorded in one sample. It occurs in the upper circalittoral zone.

Miliolinella semicostata (Wiesner)
(Pl. 12, figs. 5-8)

- 1923 *Miliolinella semicostata*, Wiesner, p. 72, pl. 14, figs. 177, 178.
1958 *Triloculina semicostata* (Wiesner), Le Calvez, J. and Y., p. 194, pl. 15, figs. 170-172.
1991 *Miliolinella semicostata* (Wiesner), Cimerman and Langer, p. 42, pl. 38, figs. 10-15.
1993 *Miliolinella semicostata* (Wiesner), Sgarella and Moncharmont-Zei, p. 187, pl. 10, fig. 7.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), s. 22 (118.50 m), S. 23 (383.00 m), S. 68 (210.00 m), S. 80 (98.00 m); Gökçeada, S. 15 (3.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 5 (18.00 m), S. 8 (35.80 m), s. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 10 (66.40 m); Gulf of Gökova, S. 3 (80.60 m); it occurs frequently in the infralittoral zone, and is reported also from upper-lower circalittoral and upper epibathial zones.

Miliolinella subrotunda (Montagu)
(Pl. 12, figs. 9-11)

- 1803 *Vermiculum subrotundum*, Montagu, p. 521.
1923 *Miliolina subrotunda* (Walker and Boys), Wiesner, p. 69, pl. 13, figs. 165-169.
1970 *Miliolinella subrotunda* (Walker and Boys), v. Daniels, p. 77, pl. 4, fig. 2, text-fig. 52.

- 1970 *Miliolinella subrotunda* (Montagu), Murray, p. 73, pl. 28, figs. 5, 6.
 1987 *Miliolinella subrotunda* (Montagu), Yanko and Troitskaja, pl. 3, figs. 4-6.
 1991 *Miliolinella subrotunda* (Montagu), Cimerman and Langer, p. 42, pl. 38, figs. 4-9.
 1993 *Miliolinella subrotunda* (Montagu), Sgarella and Moncharmont-Zei, p. 187.
 1995 *Miliolinella subrotunda* (Montagu), Meriç et al., p. 109, pl. 5, figs. 2 a-d.
 1999 *Miliolinella subrotunda* (Montagu), Hayward et al., p. 96, pl. 3, fig. 24.
 2001 *Miliolinella subrotunda* (Montagu), Debenay et al., pl. 2, fig. 5.
 2002 *Miliolinella subrotunda* (Montagu), Avşar, p. 63, pl. 1, figs. 23-24.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 18 (88.10 m), S. 31 (83.80 m), S. 39 (37.70 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 51 (12.30 m), S. 66 (65.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), s. 4 (0.50 m), S. 5 (0.50 m), S. 8 (0.50 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 1 (0.50 m), S. 13 (0.50 m), S. 15 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 2. (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), s. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is abundant in Eastern Aegean Sea, and is reported mainly from infralittoral and upper-lower circalittoral zones. It is also rarely recorded from the lower epibathial zone.

Figure 34 a. Distribution of *Miliolinella elongata* Kruit in the Eastern Aegean Sea, Turkish Coasts.

Figure 34 b. Distribution of *Miliolinella labiosa* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 34 c. Distribution of *Miliolinella semicostata* (Wiesner) in the Eastern Aegean Sea, Turkish Coasts.

Figure 34 d. Distribution of *Miliolinella subrotunda* (Montagu) in the Eastern Aegean Sea, Turkish Coasts.



34 a



34 b



34 c



34 d

Miliolinella webbiana (d'Orbigny)
(Pl. 12, fig. 12; Pl. 13, figs. 1-2)

- 1839b *Triloculina webbiana*, d'Orbigny, p. 140, pl. 3, figs. 13-15.
1923 *Miliolina webbiana* (d'Orbigny), Wiesner, p. 72, pl. 14, fig. 179.
1958 *Triloculina webbiana* d'Orbigny, Le Calvez, J. and Y., p. 195, pl. 15, figs. 176-178.
1974 *Triloculina webbiana* d'Orbigny, Le Calvez, Y., p. 90, pl. 23, figs. 1-4.
1991 *Miliolinella webbiana* (d'Orbigny), Cimerman and Langer, p. 42, pl. 39, figs. 1-3.
1992 *Miliolinella webbiana* (d'Orbigny), Hatta and Ujiie, p. 71, pl. 10, figs. 5a, b.
1993 *Miliolinella webbiana* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 187, pl. 10, fig. 6.
2002 *Miliolinella webbiana* (d'Orbigny), Avşar, p. 63, pl. 2, fig. 1.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 3 (0.50 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 22 (45.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 2 (8100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (873.00 m), S. 2 (831.30 m), S. 6 (45.60 m), S. 8 (29.00 m), S. 11 (47.00 m), S. 12 (62.10 m); Gulf of Gökova, S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m); it is abundant in different localities of Eastern Aegean Sea, and is reported from infralittoral to upper epibathial zones.

- Figure 35 a. Distribution of *Miliolinella webbiana* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
Figure 35 b. Distribution of *Pseudotriloculina laevigata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
Figure 35 b. Distribution of *Pseudotriloculina oblonga* (Montagu) in the Eastern Aegean Sea, Turkish Coasts.
Figure 35 d. Distribution of *Pseudotriloculina rotunda* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



35 a



35 b



35 c



35 d

Genus *Pseudotriloculina* Cherif, 1970
Pseudotriloculina laevigata (d'Orbigny)
(Pl. 13, fig. 3)

- 1826 *Triloculina laevigata*, d'Orbigny, p. 300, no. 15.
1923 *Miliolina laevigata* (d'Orbigny), Wiesner, p. 55, pl. 8, figs. 94-96
1958 *Triloculina laevigata* d'Orbigny, Le Calvez, J. and Y., p. 19, pl. 6, figs. 62-64.
1991 *Pseudotriloculina laevigata* (d'Orbigny), Cimerman and Langer, p. 43, pl. 39, figs. 8-12.
2002 *Pseudotriloculina laevigata* (d'Orbigny), Avşar, p. 63, pl. 2, fig. 2.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 35 (195.00 m), S. 42 (27.50 m), S. 51 (12.30 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 72. (500 m); Gökçeada, S. 3 (0.50 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Bozcaada, S. 11 (7.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 3 (59.60 m), S. 9 (72.00 m), S. 17 (39.00 m), S. 22 (45.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 4 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00m), S. 7 (305.20 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 5 (59.30 m); S. 7 (56.40 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 8 (69.00 m): it is widespread in different gulfs and localities of Eastern Aegean Sea. This species occurs in infralittoral, upper-lower circalittoral and upper-lower epibathial zones.

Pseudotriloculina oblonga (Montagu)
(Pl. 13, figs. 4-6)

- 1803 *Vermiculum oblongum*, Montagu, p. 522, pl. 14, fig. 9.
1839a *Triloculina oblonga* (Montagu), d'Orbigny, p. 175, pl. 10, figs. 3, 54.
1958 *Triloculina oblonga* (Montagu), Le Calvez, J. and Y., pl. 6, figs. 60, 61.
1958 *Triloculina oblonga* (Montagu), Le Calvez, Y., p. 115, figs. 1, 2.
1991 *Pseudotriloculina oblonga* (Montagu), Cimerman and Langer, p. 43, pl. 40, figs. 1-4.

Occurrence: Gulf of Saros, S. 8 (55.70 m), S. 14 (84.00 m), S. 17 (33.90 m), S. 39 (37.70 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 51 (12.30 m), S. 63 (96.00 m), S. 66 (65.00 m), S. 79 (29.00 m), S. 90 (98.00 m); Gökçeada, S. 8 (0.50 m), S. 17 (4.00 m), S. 21 (15.00 m), S. 23 (10.00 m), S. 25 (25.00 m), S. 28 (10.00 m); Bozcaada, S. 10 (0.50 m), S. 13 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 28 (39.00 m), S. 29 (50.00 m).

m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 4 (76.30 m), S. 6 (15.00 m), s. 7 (19.00 m), S. 14 (37.70 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 4 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 12 (62.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is very abundant and is reported generally from infralittoral and upper circalittoral zones. It is rare in the upper epibathial zone.

Pseudotriloculina rotunda (d'Orbigny)

(Pl. 13, figs. 7-9)

1826 *Triloculina rotunda*, d'Orbigny, p. 299, no. 4.

1893 *Triloculina rotunda* d'Orbigny, Schlumberger, p. 206, pl. 1, figs. 48-50.

1958 *Triloculina rotunda* d'Orbigny, Le Calvez, J. and Y., p. 192, pl. 6, figs. 57, 58.

1974 *Triloculina rotunda* d'Orbigny, Colom, p. 204, figs. 59 n, o.

1991 *Pseudotriloculina rotunda* (d'Orbigny), Cimerman and Langer, p. 43, pl. 40, figs. 5-6.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 67 (550.00 m), S. 68 (210.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 5 (0.50 m), S. 9 (0.50 m), S. 13 (13.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 25 (25.00 m), S. 29 (9.00 m), S. 27 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2(32.40 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (198.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 7 (305.20 m), S. 11 (47.00 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 6 (56.10 m); Marmaris Bay, S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 6 (64.00 m), S. 8 (69.00 m): it occurs abundantly in infralittoral and upper circalittoral zones. It is rare in lower circalittoral-upper epibathial zones.

Pseudotriloculina sidebottomi (Martinotti)
(Pl. 13, figs. 10-11)

- 1940 *Miliolina subrotunda* Montagu, Sidebottom, p. 8, pl. 2, figs. 1-7.
1920 *Sigmoilina sidebottomi*, Martinotti, p. 280, pl. 2, fig. 29, text-figs. 59-61.
1974 *Miliolinella sidebottomi* (Martinotti), Colom, p. 207, figs. 61a-n.
1991 *Pseudotriloculina sidebottomi* (Martinotti), Cimerman and Langer, p. 43-44,
pl. 40, figs. 9-10.

Occurrence: Gulf of Saros, S. 44 (26.20 m), S. 54 (94.50 m); Gökçeada, S. 29 (11.00 m); Bozcaada, S. 2 (0.50 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 14 (21.00 m); Gulf of İzmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 4 (40.00 m); it occurs frequently in the infralittoral zone.

Pseudotriloculina subgranulata (Cushman)
(Pl. 13, fig. 12)

- 1918 *Triloculina subgranulata*, Cushman, p. 290, pl. 96, fig. 4
1993 *Pseudotriloculina subgranulata* (Cushman), Hottinger et al., p. 59, pl. 47,
figs. 8-13; pl. 48, figs. 1-8.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 22 (45.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 6 (15.00 m); Gulf of Datça, S. 5 (59.30 m); Marmaris Bay, S. 3 (98.30 m); this species is very rare in infralittoral and upper circalittoral zones.

Genus *Pyrgo* DeFrance, 1824
Pyrgo anomala (Schlumberger)
(Pl. 13, fig.12; Pl. 14, figs. 1-2)

- 1891 *Biloculina anomala*, Schlumberger, p. 182, pl. 11, figs. 84, 86; pl. 12, fig. 101.
1917 *Biloculina anomala* Schlumberger, Cushman, p. 79, pl. 32, fig. 1.
1923 *Biloculina anomala* Schlumberger, Wiesner, p. 88, pl. 17, fig. 254; pl. 18, fig. 255.
1958 *Pyrgo anomala* (Schlumberger), Le Calvez, J. and Y., p. 200, pl. 7, fig. 77.
1958 *Pyrgo anomala* (Schlumberger), Parker, p. 255, pl. 1, figs. 22, 23.
1984 *Pyrgo anomala* (Schlumberger), Ross and Kennett, pl. 2, fig. 11.
1991 *Pyrgo anomala* (Schlumberger), Cimerman and Langer, p. 44, pl. 41, figs. 3-5.
1993 *Pyrgo anomala* (Schlumberger), Sgarella and Moncharmont-Zei, p. 180, pl. 9, fig. 3.
1999 *Pyrgo anomala* (Schlumberger), Hayward et al., p. 97, pl. 4, figs. 1-2.
2002 *Pyrgo anomala* (Schlumberger), Avşar, p. 63, pl. 2, fig. 3.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 43 (51.50 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 63 (96.00 m), S. 69 (72.00 m), S. 80 (98.00 m); Gökçeada, S. 16 (40.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m), S. 19 (73.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 7 (305.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is abundant in infralittoral and upper circalittoral zones. It is also found in the lower circalittoral and upper epibathial zones.

Pyrgo comata (Brady)

- 1881 *Biloculina comata*, Brady, p. 45.
 1884 *Biloculina comata* Brady, Brady, p. 144, pl. 3, figs. 9a, b.
 1891 *Biloculina comata* Brady, Schlumberger, p. 565, pl. 10, figs. 72, 73, text-figs. 26-28.
 1917 *Biloculina comata* Brady, Cushman, p. 81, pl. 34, fig. 1.
 1929 *Pyrgo comata* (Brady), Cushman, p. 73, pl. 19, fig. 8.
 1960 *Pyrgo comata* (Brady), Barker, pl. 3, figs. 9a, b.
 1990 *Pyrgo comata* (Brady), Thomas et al., pl. 8, fig. 2.
 1999 *Pyrgo comata* (Brady), Hayward et al, p. 98, pl. 4, figs. 3-4.

Occurrence: Gulf of Saros, S. 69 (72.00 m): this species is very rare in the upper circalittoral zone.

Pyrgo elongata (d'Orbigny)
 (Pl. 14, figs. 3-5)

- 1826 *Biloculina elongata*, d'Orbigny, p. 298, no. 4.
 1891 *Biloculina elongata* d'Orbigny, Schlumberger, p. 571, pl. 11, figs. 87, 88; pl. 12, fig. 89, text-figs. 35-36.
 1917 *Biloculina elongata* d'Orbigny, Cushman, p. 78, pl. 31, fig. 1, text-fig. 40.
 1923 *Biloculina elongata* d'Orbigny, Wiesner, p. 87, pl. 17, fig. 247.
 1929 *Pyrgo elongata* (d'Orbigny), Cushman, p. 70, pl. 19, figs. 2, 3.
 1958 *Pyrgo elongata* (d'Orbigny), Le Calvez, J. and Y., p. 200.
 1974 *Pyrgo elongata* (d'Orbigny), Colom, p. 204, figs. 57 n, o.
 1987 *Pyrgo elongata* (d'Orbigny), Yanko and Troitskaja, pl. 2, figs. 5-6.
 2002 *Pyrgo elongata* (d'Orbigny), Avşar, p. 64, pl. 2, fig. 4.

Occurrence: Gulf of Saros, S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 25 (188.00 m),

S. 27 (144.80 m), B. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 41 (81.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 65 (61.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 78 (63.00 m), S. 80 (98.00 m); Gökçeada, S. 28 (10.00 m); Gökçeada-Bozcaada-Çanakale triangle, S. 5 (137.50 m), S. 8 (58.00 m), S. 10 (57.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 5 (125.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 8 (29.00 m); Gulf of Datça, S. 3 (139.50 m), S. 9 (147.00 m); this species occurs frequently in different localities of Eastern Aegean Sea. It is reported frequently from infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper epibathyal zones.

Pyrgo inornata (d'Orbigny)
(Pl. 14, figs. 6-7)

1846 *Biloculina inornata*, d'Orbigny, p. 266, pl. 16, figs. 7-9.

1993 *Pyrgo inornata* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 182, pl. 9, fig. 2.

2002 *Pyrgo inornata* (d'Orbigny), Avşar, p. 64, pl. 2, fig. 5.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.00 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 45 (39.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 68 (210.00 m), S. 77 (53.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 25 (74.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m); Gulf of Datça, S. 1 (252.30 m); Marmaris Bay, S. 3 (98.30 m); it occurs frequently in upper circalittoral and rarely lower circalittoral and upper epibathyal zones.

Genus *Pyrgoella* Cushman and White, 1936
Pyrgoella sphaera (d'Orbigny)
(Pl. 14, figs. 8-9)

1839c *Biloculina sphaera*, d'Orbigny, p. 65, pl. 8, figs. 13-16.

1891 *Planispirina sphaera* (d'Orbigny), Schlumberger, p. 577, figs. 45, 46.

1958 *Pyrgoella sphaera* (d'Orbigny), Le Calvez, J. and Y., p. 198, pl. 7, fig. 72.

Figure 36 a. Distribution of *Pseudotriloculina sidebottomi* (Martinotti) in the Eastern Aegean Sea, Turkish Coasts.

Figure 36 b. Distribution of *Pseudotriloculina subgranulata* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 36 c. Distribution of *Pyrgo anomala* (Schlumberger) in the Eastern Aegean Sea, Turkish Coasts.

Figure 36 d. Distribution of *Pyrgo comata* (Brady) in the Eastern Aegean Sea, Turkish Coasts.



36 a



36 b



36 c



36 d

- 1958 *Pyrgoella sphaera* (d'Orbigny), Parker, p. 256, pl. 1, fig. 14.
 1979 *Pyrgoella sphaera* (d'Orbigny), Alfievic, p. 75, pl. 5, fig. 5.
 1988 *Pyrgoella sphaera* (d'Orbigny), Loeblich and Tappan, p. 343, pl. 351, figs. 1-4.
 1991 *Pyrgoella sphaera* (d'Orbigny), Cimerman and Langer, p. 45, pl. 41, figs. 1-2.
 1993 *Pyrgoella sphaera* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 184.

Occurrence: Gulf of Saros, S. 25 (188.00 m), S. 34 (82.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 69 (72.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 36 (82.00 m): it occurs between 12.30 m and 188.00 m in northeastern Aegean Sea, and is poorly recorded from infralittoral to lower circalittoral zones.

Genus *Triloculina* d'Orbigny, 1826
Triloculina adriatica Le Calvez, J. and Y.
 (Pl. 14, fig. 10; Pl. 15, fig. 1)

- 1923 *Miliolina tricarinata* (d'Orbigny), Wiesner, p. 62, pl. 10, fig. 128.
 1958 *Triloculina adriatica*, Le Calvez, J. and Y., p. 188, pl. 14, figs. 158, 159.
 1991 *Triloculina adriatica* Le Calvez, J. and Y., Cimerman and Langer, p. 45-46, pl. 42, figs. 9-10.

Occurrence: Gulf of Saros, S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m): it is recorded only from the Gulf of Saros. It is rare in infralittoral and upper circalittoral zones.

Triloculina bermudezi Acosta
 (Pl. 15, fig. 2)

- 1993 *Triloculina bermudezi* Acosta, Sgarella and Moncharmont-Zei, p. 186, pl. 9, fig. 12.

Occurrence: Bozcaada, S. 4 (0.50 m), S. 9 (0.50 m), S. 13 (0.50 m); Dikili and Çandarlı Bays, S. 14 (21.00 m), Gulf of Kuşadası and Güllük Bay, S. 11 (47.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 5 (59.30 m): it occurs rarely in Eastern Aegean Sea, and generally in infralittoral zone.

Figure 37 a. Distribution of *Pyrgo elongata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 37 b. Distribution of *Pyrgo inornata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 37 c. Distribution of *Pyrgoella sphaera* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 37 d. Distribution of *Triloculina adriatica* Le Calvez, J. and Y. in the Eastern Aegean Sea, Turkish Coasts.



37 a



37 b



37 c



37 d

Triloculina cf. fichteliana d'Orbigny

- 1839a *Triloculina fichteliana* d'Orbigny, d'Orbigny, p. 171, pl. 9, figs. 8-10.
1859 *Triloculina fichteliana* d'Orbigny, Graham and Milante, p. 53, pl. 7, fig. 10.
1993 *Triloculina fichteliana* d'Orbigny, Hottinger et al., p. 65, pl. 66, figs. 10-15.

Occurrence: Gulf of Datça, S. 1 (252.30 m); it is found only in one sample collected from the upper epibathyal zone of the Gulf of Datça.

Triloculina marioni Schlumberger
(Pl. 15, figs. 3-5)

- 1893 *Triloculina marioni*, Schlumberger, p. 204, pl. 1, figs. 38-41.
1958 *Triloculina marioni* Schlumberger, Le Calvez, J. and Y., p. 191, pl. 6, figs. 54-56.
1991 *Triloculina marioni* Schlumberger, Cimerman and Langer, pl. 46, pl. 43, figs. 1-5.
2002 *Triloculina marioni* Schlumberger, Avşar, p. 64, pl. 2, fig. 6.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 8 (55.70 m), S. 10 (68.50 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 21 (97.40 m), S. 25 (188.00 m), S. 31 (83.80 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 47 (24.20 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 79 (29.00 m); Gökçeada, S. 3 (0.50 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 18 (30.00 m), S. 19 (40.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 5 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 3 (59.60 m), S. 4 (85.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 11 (56.60 m), S. 12 (64.20 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 16 (82.00 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m),

S. 5 (26.50 m); Çeşme, S. 2 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 4 (226.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 4 (71.80 m), S. 6 (64.00 m), S. 8 (69.00 m); it is very abundant in the different localities of Eastern Aegean Sea, and generally recorded from infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper-lower epibathyal zones.

Triloculina cf. *ornata* Le Calvez J. and Y.

1958 *Triloculina ornata*, Le Calvez, J. and Y., p. 190, pl. 14, figs. 160, 161.

1991 *Triloculina ornata* Le Calvez, J. and Y., Cimerman and Langer, p. 46, pl. 43, figs. 6-7.

Occurrence: Gulf of Saros, S. 27 (144.80 m), S. 28 (115.50 m): this species is very rare in the lower circalittoral zone.

Triloculina plicata Terquem
(Pl. 15, figs. 6-8)

1878 *Triloculina plicata*, Terquem, p. 61, pl. 6, figs. 2 a and b.

1923 *Triloculina plicata* Terquem, Wiesner, p. 62, pl. 11, figs. 129, 130.

1958 *Triloculina plicata* Terquem, Le Calvez, J. and Y., p. 189, pl. 14, figs. 162, 163.

1991 *Triloculina plicata* Terquem, Cimerman and Langer, p. 46, pl. 43, figs. 8-10.

1993 *Triloculina plicata* Terquem, Sgarella and Moncharmont-Zei, p. 186, pl. 10, fig. 2.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 44 (26.50 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 67 (550.00 m); Gökçeada, S. 8 (0.50 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 5 (18.00 m), S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 8 (29.00 m), S. 11 (47.00 m); Gulf

Figure 38 a. Distribution of *Triloculina bermudezi* Acosta in the Eastern Aegean Sea, Turkish Coasts.

Figure 38 b. Distribution of *Triloculina* cf. *fichteliana* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 38 c. Distribution of *Triloculina marioni* Schlumberger in the Eastern Aegean Sea, Turkish Coasts.

Figure 38 d. Distribution of *Triloculina* cf. *ornata* Le Calvez, J. and Y. in the Eastern Aegean Sea, Turkish Coasts.



38 a



38 b



38 c



38 d

of Gökova, S. 3 (80.40 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 9 (147.00 m); Marmaris Bay, S. 4 (71.80 m); it occurs frequently in infralittoral and upper circalittoral zones, and rarely in lower circalittoral and lower epibathyal zones.

Triloculina schreiberiana d'Orbigny
(Pl. 15, figs. 9-10)

- 1839a *Triloculina schreiberiana*, d'Orbigny, p. 174, pl. 9, figs. 20-22.
1893 *Triloculina schreiberiana* d'Orbigny, Schlumberger, p. 204, pl. 1, figs. 42-44.
1923 *Triloculina schreiberiana* d'Orbigny, Wiesner, p. 60, pl. 9, fig. 114.
1958 *Triloculina schreiberiana* d'Orbigny, Le Calvez, J. and Y., p. 194, pl. 7, fig. 67.
1977a *Triloculina schreiberiana* d'Orbigny, Le Calvez, Y., p. 121, figs. 1-3.
1991 *Triloculina schreiberiana* d'Orbigny, Cimerman and Langer, p. 46, pl. 44, figs. 1-2.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 6 (70.00 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 17 (33.90 m), S. 29 (92.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 51 (12.30 m), S. 78 (63.00 m), S. 79 (29.00 m); Gökçeada, S. 16 (4.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 6 (15.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Gökova, S. 2 (27.00 m); it occurs frequently in the infralittoral zone and rarely in upper and lower circalittoral zones.

Triloculina serrulata McCulloch

- 1977 *Triloculina serrulata*, McCulloch, p. 558, pl. 225, figs. 1, 2, 4.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 33 (39.00 m); poorly recorded deeper than 39.00 m to 79.00 m and is rare in infralittoral and upper circalittoral zones.

Triloculina tricarinata d'Orbigny
(Pl. 15, figs. 11-12)

- 1826 *Triloculina tricarinata*, d'Orbigny, p. 299, no. 6.
1923 *Miliolina angularis* (d'Orbigny), Wiesner, p. 63, pl. 11, fig. 133.
1958 *Triloculina tricarinata* d'Orbigny, Le Calvez, J. and Y., p. 189, pl. 5, figs. 47, 48.
1990 *Triloculina tricarinata* d'Orbigny, Thomas et al., pl. 8, fig. 5.
1991 *Triloculina tricarinata* d'Orbigny, Cimerman and Langer, p. 46-47, pl. 44, figs. 3-4.

1993 *Triloculina tricarinata* d'Orbigny, Hatta and Ujiie, p. 74-75, pl. 12, figs. 8a, b.

1993 *Triloculina tricarinata* d'Orbigny, Hottinger et al., p. 655, pl. 68, figs. 7-12.

1999 *Triloculina tricarinata* d'Orbigny, Hayward et al., p. 106, pl. 5, figs. 29-30.

2000 *Triloculina tricarinata* d'Orbigny, Cann et al., pl. 5, figs. c, d.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 8 (55.70 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 18 (88.10 m), S. 21 (97.40 m), S. 28 (115.50 m), S. 45 (33.50 m), S. 54 (94.50 m), s. 67 (550.00 m); Gökçeada, S. 3 (0.50 m), S. 25 (25.00 m), S. 26 (9.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 17 (39.00 m), S. 22 (45.00 m), S. 27 (70.00 m), S. 33 (39.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 3 (230.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 9 (49.00 m); Gulf of Kuşadası and Güllük Bay, S. 13 (72.50 m); it occurs frequently in some gulfs. This species is mainly reported in infralittoral and upper circalittoral zones. But, it also occurs rarely in lower circalittoral and upper-lower epibathyal zones.

Genus *Wellmanellinella* Cherif, 1970

Wellmanellinella striata (Sidebottom)

(Pl. 15, figs. 13-14)

1904 *Planispirina striata*, Sidebottom, p. 21, pl. 5, figs. 12-14.

1970 *Wellmanellinella striata* (Sidebottom), Cherif, p. 56, pl. 28, fig. 2.

1974 *Ficherina striata* (Sidebottom), Colom, p. 211, fig. 69 f.

1988 *Wellmanellinella striata* (Sidebottom), Loeblich and Tappan, p. 346, pl. 354, figs. 13-15.

1991 *Wellmanellinella striata* (Sidebottom), Cimerman and Langer, p. 47, pl. 44, figs. 6-8.

Occurrence: Gökçeada, S. 29 (11.00 m); it occurs very poorly in the infralittoral zone.

Subfamily Sigmoidinitinae Luczkowska, 1974

Genus *Sigmoidina* Schlumberger, 1887

Sigmoidina sigmoidea (Brady)

(Pl. 16, figs. 1-2)

1884 *Planispirina sigmoidea*, Brady, p. 197, pl. 2, figs. 1-3; p. 194, text-fig. 5c.

Figure 39 a. Distribution of *Triloculina plicata* Terquem in the Eastern Aegean Sea, Turkish Coasts.

Figure 39 b. Distribution of *Triloculina schreiberiana* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 39 c. Distribution of *Triloculina serrulata* McCulloch in the Eastern Aegean Sea, Turkish Coasts.

Figure 39 d. Distribution of *Triloculina tricarinata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



39 a



39 b



39 c



39 d

1929 *Sigmoilina sigmoidea* (Brady), Cushman, p. 50, pl. 11, figs. 3-6.
1993 *Sigmoilina sigmoidea* (Brady), Sgarella and Moncharmont-Zei, p. 184, pl. 9,
fig. 13.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 13 (156.00 m), S. 21 (97.00 m), S. 22 (118.50 m), S. 24 (386.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 40 (77.30 m), S. 66 (65.00 m), S. 69 (72.00 m), S. 74 (200.00 m), S. 80 (98.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 8 (29.00 m): it occurs frequently in upper-lower circalittoral and upper epibathyal zones.

Genus *Sigmoilinita* Seiglie, 1965
Sigmoilinita costata (Schlumberger)
(Pl. 16, figs. 3-5)

1893 *Sigmoilina costata*, Schlumberger, p. 203, pl. 1, figs. 51, 52.
1958 *Sigmoilina costata* Schlumberger, Le Calvez, J. and Y., p. 20, pl. 7, figs. 69,
70.
1991 *Sigmoilinita costata* (Schlumberger), Cimerman and Langer, p. 47, pl. 45,
figs. 1-6.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 50 (41.00 m), S. 54 (94.50 m), S. 56 (41.00 m), S. 59 (98.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 7 (0.50 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 14 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 14 (37.70 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (69.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 8 (69.00 m). This species occurs abundantly in different localities of Eastern Aegean Sea, and is reported mostly from infralittoral-upper circalittoral zones. It is rare in lower circalittoral and lower epibathyal zones.

Sigmoilinita edwardsi (Schlumberger)
(Pl. 16, figs. 6-7)

1997 *Sigmoilinita edwardsi* (Schlumberger), Avşar, p. 70, pl. 3, fig. 1.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 35 (195.00 m), S. 66 (65.00 m), S. 75 (42.00 m); Gökçeada, S. 4 (0.50 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 15 (47.00 m); Gulf of Edremit, S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 7 (35.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Çeşme, S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 9 (67.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 9 (147.00 m); it is frequent in the various localities, and is reported generally from infralittoral to upper circalittoral zones. It also occurs frequently in lower circalittoral-upper epibathyal zones.

Sigmoilinita tenuis (Czjzek)

- 1848 *Quinqueloculina tenuis*, Czjzek, p. 149, pl. 13, figs. 31-34.
1923 *Spiroloculina tenuis* (Czjzek), Wiesner, p. 30, pl. 4, fig. 9.
1958 *Sigmoilina tenuis* (Czjzek), Le Calvez, J. and Y., p. 210.
1979 *Sigmoilina tenuis* (Czjzek), Allěrevic, p. 77, pl. 8, fig. 5.
1988 *Sigmoilinita tenuis* (Czjzek), Loeblich and Tappan, p. 348, pl. 356, figs. 17 and 18.
1991 *Sigmoilinita tenuis* (Czjzek), Cimerman and Langer, p. 48, pl. 45, figs. 7-10.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 35 (80.00 m), S. 36 (82.00 m); it is poorly recorded from two localities of northeastern Aegean Sea. It occurs in the upper circalittoral zone.

Subfamily Sigmoilopsinae Vella, 1957

Genus *Sigmoilopsis* Finlay, 1947

Sigmoilopsis schlumbergeri (Silvestri)
(Pl. 16, figs. 8-9)

- 1904 *Sigmoilina schlumbergeri*, Silvestri, p. 267.
1929 *Sigmoilina schlumbergeri* Silvestri, Cushman, p. 49, pl. 11, figs. 1-3.
1958 *Sigmoilina schlumbergeri* Silvestri, Le Calvez, J. and Y., p. 2110, pl. 8, fig. 94.
1958 *Sigmoilina schlumbergeri* Silvestri, Le Calvez, Y., p. 162.
1960 *Sigmoilopsis schlumbergeri* (Silvestri), Barker, pl. 8, fig. 1.
1984 *Sigmoilopsis schlumbergeri* (Silvestri), Todd and Kennett, pl. 2, fig. 13.
1988 *Sigmoilopsis schlumbergeri* (Silvestri), Loeblich and Tappan, p. 350, pl. 356, figs. 8-13.

- 1990 *Sigmoilopsis schlumbergeri* (Silvestri), Galluzzo, et al., pl. 1, fig. 18.
 1990 *Sigmoilopsis schlumbergeri* (Silvestri), Thomas et al., pl. 8, fig. 4.
 1991 *Sigmoilopsis schlumbergeri* (Silvestri), Cimerman and Langer, p. 48, pl. 46, figs. 10-14.
 1993 *Sigmoilopsis schlumbergeri* (Silvestri), Sgarella and Moncharmont-Zei, p. 185, pl. 9, fig. 4.

Occurrence: Gulf of Saros, S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 43 (51.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 64 (75.00 m), S. 65 (61.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 73 (600.00 m), S. 74 (200.00 m), S. 75 (42.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 25 (74.00 m), S. 27 (70.00 m), S. 31 (75.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 13 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 8 (29.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 4 (71.80 m): this species is abundant. It is reported frequently from infralittoral and upper circalittoral zones. It is also frequent in the lower circalittoral to lower epibathyal zones.

Family Tubinellidae Rhumbler, 1906

Genus *Articulina* d'Orbigny 1826

Articulina alticostata Cushman

(Pl. 16, fig. 10)

- 1944 *Articulina alticostata*, Cushman, p. 16, pl. 4, figs. 10-13.
 1978 *Articulina alticostata* Cushman, Graham and Militante, p. 33, pl. 3, fig. 2.

- Figure 40 a. Distribution of *Wellmanellinella striata* (Sidebottom) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 40 b. Distribution of *Sigmoilina sigmoidea* (Brady) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 40 c. Distribution of *Sigmoilinita costata* (Schlumberger) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 40 d. Distribution of *Sigmoilinita edwardsi* (Schlumberger) in the Eastern Aegean Sea, Turkish Coasts.



40 a



40 b



40 c



40 d

Occurrence: Gulf of Datça, S. 4 (40.00 m): this species is recorded only in one sample of the infralittoral zone of the Gulf of Datça.

Articulina carinata Wiesner
(Pl. 16, figs.11-12)

- 1923 *Articulina sagra* d'Orbigny var. *carinata*, Wiesner, p. 74, pl. 19, fig. 188.
1970 *Articulina pasifica* Cushman, v. Daniels, p. 78, text-fig. 53.
1991 *Articulina carinata* Wiesner, Cimerman and Langer, p. 48, pl. 47, figs. 1-5.
2002 *Articulina carinata* Wiesner, Avşar, p. 64, pl. 2, fig. 7.

Occurrence: Gökçeada, S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 22 (45.00 m), S. 26 (72.00 m), S. 29 (50.00 m), S. 32 (46.00 m), S. 34 (38.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 11 (47.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m): this species is frequent in the infralittoral zone.

Articulina tubulosa (Seguenza)

- 1958 *Articulina tubulosa* (Seguenza), Parker, p. 255, pl. 1, figs. 12-13, 18-19.
1984 *Articulina tubulosa* (Seguenza), Ross and Kennett, pl. 1, figs. 9-11.
1993 *Articulina tubulosa* (Seguenza), Sgarella and Moncharmont-Zei, p. 190, pl. 10, fig. 10.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 31 (75.00 m): it occurs only in one sample of the upper circalittoral zone of the northeastern Aegean Sea.

Genus *Parrina* Cushman, 1931
Parrina bradyi (Millett)
(Pl. 16, figs. 13-15)

- 1898 *Nubecularia bradyi*, Millett, p. 261, pl. 5, figs. 6a, b.
1923 *Miliolina hibrida* (Terquem), Wiesner, p. 71, pl. 14, figs. 172-175.
1960 *Parrina bradyi* (Millett), Barker, pl. 1, figs. 5, 6.
1970 *Parrina bradyi* (Millett), v. Daniels, p. 78, pl. 4, fig. 3.
1988 *Parrina bradyi* (Millett), Loeblich and Tappan, p. 351, pl. 358, figs. 16-18.
1991 *Parrina bradyi* (Millett), Cimerman and Langer, p. 49, pl. 47, figs. 6-7.

Occurrence: Gökçeada, S. 26 (9.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 5 (18.00 m), S. 8 (35.80 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 11 (47.00 m): it is rare and recorded from the infralittoral zone.

Superfamily SORITACEA Ehrenberg, 1839

Family Peneroplidae Schultze, 1854

Genus *Coscinospira* Ehrenberg, 1839

Coscinospira hemprichii Ehrenberg

- 1839 *Coscinospira hemprichii*, Ehrenberg, p. 131, pl. 2, fig. 2.
1949 *Spirolina arietina* (Batsch), Said, p. 24, pl. 2, figs. 35, 39.
1972 *Cribrospirolina distinctiva*, Haman, p. 111, text-figs. 1, 3.
1984 *Peneroplis pertusus* (Forskal), Reiss and Hottinger, p. 242, figs. G25 d-g.
1988 *Coscinospira hemprichii* Ehrenberg, Loeblich and Tappan, p. 369, pl. 390, figs. 7-10.
1991 *Coscinospira hemprichii* Ehrenberg, Cimerman and Langer, p. 49, pl. 47, figs. 8-11.
1993 *Coscinospira hemprichii* Ehrenberg, Hottinger et al., p. 69, pl. 76, figs. 1-12; pl. 77, figs. 1-8.

Occurrence: Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m): it occurs rarely in the infralittoral zone. It is recorded only in one sample.

Genus *Laevipeneroplis* Sulc, 1936

Laevipeneroplis karreri (Wiesner)

(Pl. 17, fig. 1)

- 1923 *Peneroplis karreri*, Wiesner, p. 96, pl. 20, fig. 285.
1991 *Laevipeneroplis karreri* (Wiesner), Cimerman and Langer, p. 49, pl. 48, figs. 1-7.

Occurrence: Gökçeada, S. 26 (9.00 m), S. 29 (11.00 m); Bozcaada, S. 10 (0.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 4 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m): it is rare in Eastern Aegean Sea, and reported frequently from the infralittoral zone.

Figure 41 a. Distribution of *Sigmoilinita tenuis* (Czjzek) in the Eastern Aegean Sea, Turkish Coasts.

Figure 41 b. Distribution of *Sigmoilopsis schlumbergeri* (Silvestri) in the Eastern Aegean Sea, Turkish Coasts.

Figure 41 c. Distribution of *Articulina alticostata* Cushman in the Eastern Aegean Sea, Turkish Coasts.

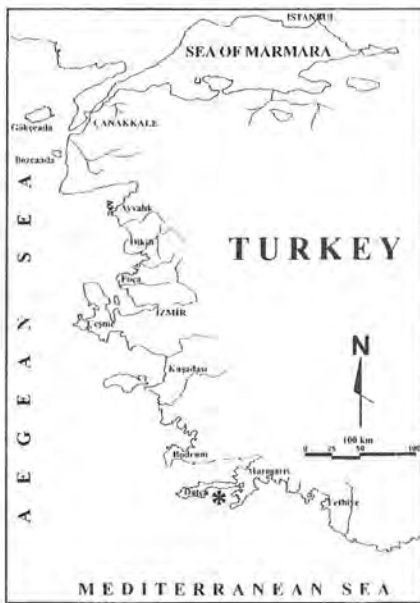
Figure 41 d. Distribution of *Articulina carinata* Wiesner in the Eastern Aegean Sea, Turkish Coasts.



41 a



41 b



41 c



41 d

Genus *Peneroplis* de Montfort, 1803

Peneroplis pertusus (Forsk.)

(Pl. 17, figs. 2-4)

- 1775 *Nautilus pertusus*, Forskal, p. 125.
1917 *Peneroplis pertusus* (Forsk.), Cushman, p. 86, pl. 36, fig. 1; pl. 37, figs. 1, 2, 6.
1974 *Peneroplis pertusus* (Forsk.), Colom, p. 219, fig. 64.
1981 *Peneroplis pertusus* (Forsk.), Chasens, pl. 1, fig. 13.
1991 *Peneroplis pertusus* (Forsk.), Cimerman and Langer, p. 49, pl. 49, figs. 1-8.
1993 *Peneroplis pertusus* (Forsk.), Sgarella and Moncharmont-Zei, p. 190, pl. 10, fig. 13.

Occurrence: Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 18 (30.00 m), S. 19 (40.00 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 12 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m), S. 15 (0.50 m), S. 16 (0.50 m), S. 17 (0.50 m); Gulf of Edremit, S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 3 (18.50 m), S. 5 (18.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 11 (0.50 m), S. 12 (0.50 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 9 (147.00 m); Marmaris Bay, S. 8 (69.00 m): this species occurs frequently in different localities of Eastern Aegean Sea and is recorded mostly from the infralittoral zone and very rarely in upper-lower circalittoral zones.

Peneroplis planatus (Fichtel and Moll)

(Pl. 17, figs. 5-7)

- 1798 *Nautilus planatus*, Fichtel and Moll, p. 91, pl. 16, figs. a-h.
1826 *Peneroplis planatus* (Fichtel and Moll), d'Orbigny, p. 285, no. 1.
1858 *Peneroplis planatus* (Fichtel and Moll), Williamson, p. 45, pl. 3, figs. 84, 85.
1949 *Peneroplis planatus* (Fichtel and Moll), Said, p. 24, pl. 2, fig. 38.
1960 *Peneroplis planatus* (Fichtel and Moll), Barker, pl. 13, fig. 15.
1974 *Peneroplis planatus* (Fichtel and Moll), Colom, p. 219, figs. 64 h-i, k.
1981 *Peneroplis planatus* (Fichtel and Moll), Chasens, pl. 1, fig. 12.
1987 *Peneroplis planatus* (Fichtel and Moll), Baccaert, p. 58, pl. 17, figs. 1-4; pl. 18, fig. 1.
1988 *Peneroplis planatus* (Fichtel and Moll), Loeblich and Tappan, p. 371, pl. 391, figs. 7, 8.
1991 *Peneroplis planatus* (Fichtel and Moll), Cimerman and Langer, p. 50, pl. 50, figs. 1-6.

- 1993 *Peneroplis planatus* (Fichtel and Moll), Sgarella and Moncharmont-Zei, p. 190, pl. 10, fig. 14.
 1993 *Peneroplis planatus* (Fichtel and Moll), Hottinger et al., p. 70, pl. 79, figs. 1-16; pl. 80, figs. 1-8.
 1997 *Peneroplis planatus* (Fichtel and Moll), Haunold et al., p. 197, fig. 8.
 2000 *Peneroplis planatus* (Fichtel and Moll), Cann et al., pl. 5, figs. o, p.

Occurrence: Gulf of Saros, S. 80 (98.00 m), Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 15 (3.00 m), S. 17 (4.00 m), S. 21 (15.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 12 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m), S. 15 (0.50 m), S. 16 (0.50 m), S. 17 (0.50 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 3 (18.50 m), S. 5 (18.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 12 (62.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 6 (64.00 m), S. 8 (69.00 m): this species occurs abundantly in various localities of Eastern Aegean Sea, and is reported generally from the infralittoral zone and rarely in upper-lower circalittoral zones.

Family Soritidae Ehrenberg, 1839
Subfamily Soritinae Ehrenberg, 1839
Genus Sorites Ehrenberg, 1839
Sorites orbiculus Ehrenberg
 (Pl. 17, fig. 8)

- 1775 *Nautilus orbiculus*, Forskal, p. 125.
 1839 *Sorites orbiculus*, Ehrenberg, p. 134, pl. 3, fig. 2.
 1852 *Orbiculina complanata*, Williamson, p. 115.
 1961 *Sorites orbiculus* Ehrenberg, Lehman, p. 641, pl. 8, figs. 1-8.
 1965 *Sorites orbiculus* Ehrenberg, Cole, p. 20-21, pl. 6, figs. 1-5, 7, 9; pl. 7, figs. 1-8, 10-12; pl. 8, figs. 7-9.
 1977 *Sorites orbiculus* Ehrenberg, Hottinger, p. 94, figs. 9, 30 D, E, 32 B.

- Figure 42 a. Distribution of *Articulina tubulosa* (Seguenza) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 42 b. Distribution of *Parrina bradyi* (Millet) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 42 c. Distribution of *Coscinospira hemprichii* Ehrenberg in the Eastern Aegean Sea, Turkish Coasts.
 Figure 42 d. Distribution of *Laevipeneroplis karreri* (Wiesner) in the Eastern Aegean Sea, Turkish Coasts.



42 a



42 b



42 c



42 d

- 1984 *Sorites orbiculus* Ehrenberg, Reiss and Hottinger, p. 205, figs. 65 a-d.
 1985 *Sorites orbiculus* Ehrenberg, Caprona d'Ersu, p. 355-356, pl. 9, figs 10-16; pl. 10, figs. 1-18; pl. 11, figs. 1-3; pl. 15, figs. 9-11.
 1987 *Sorites orbiculus* Ehrenberg, Baccaert, pl. 28, figs. 1, 2; pl. 29, figs. 1 a, b.
 1988 *Sorites orbiculus* Ehrenberg, Loeblich and Tappan, p. 382, pl. 419, figs. 4-10.
 1991 *Sorites orbiculus* Ehrenberg, Cimerman and Langer, p. 50, pl. 51, figs. 1-5.
 1993 *Sorites orbiculus* Ehrenberg, Sgarella and Moncharmont-Zei, p. 190, pl. 10, fig. 15.
 1993 *Sorites orbiculus* Ehrenberg, Hottinger et al., p. 72, pl. 83, figs. 1-13.
 1997 *Sorites orbiculus* Ehrenberg, Haunold et al., p. 199, fig. 10.

Occurrence: Gökçeada, S. 30 (3.00 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 11 (0.50 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Marmaris Bay, S. 8 (69.00 m): it occurs rarely in Eastern Aegean Sea and is reported from the infralittoral zone.

Order LAGENIDA Lankester, 1885

Superfamily NODOSARIACEA Ehrenberg, 1838

Family Nodosariidae Ehrenberg, 1838

Subfamily Nodosariinae Ehrenberg, 1838

Genus *Dentalina* Risso, 1826

Dentalina albatrossi (Cushman)

(Pl. 17, fig. 9)

- 1884 *Nodosaria vertebralis* Batsch, Brady, p. 514, pl. 63, fig. 35; pl. 64, figs. 11-14.
 1923 *Nodosaria vertebralis* (Batsch) var. *albatrossi*, Cushman, p. 87, pl. 15, fig. 1.
 1993 *Dentalina albatrossi* (Cushman), Sgarella and Moncharmont-Zei, p. 191, pl. 11, fig. 5.

Occurrence: Gulf of Kuşadası and Güllük Bay, S. 9 (67.00 m): this species is very rare in Eastern Aegean Sea and it is poorly recorded in the upper circalittoral zone.

Dentalina flintii (Cushman)

(Pl. 17, figs. 10-12)

- 1923 *Nodosaria flintii*, Cushman, p. 85, pl. 14, fig. 1.
 1960 *Nodosaria flintii* Cushman, Barker, pl. 64, figs. 20-22.
 1991 *Dentalina flintii* (Cushman), Cimerman and Langer, p. 50-51, pl. 52, figs. 1-3.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 18 (69.00 m); Gulf of Edremit, S. 2 (100.40 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m); Marmaris Bay, S. 2 (79.10 m): it is found in the depth-range of between

29.00 m and 252.30 m with low frequency. It is reported rarely from infralittoral to upper epibathyal zones.

Dentalina inornata d'Orbigny
(Pl. 18, figs. 1-3)

1846 *Dentalina inornata*, d'Orbigny, p. 44, pl. 1, figs. 50-51.

1985 *Dentalina inornata* d'Orbigny, p. 28, pl. 9, figs. 5-8.

1993 *Dentalina inornata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 192, pl. 11, fig. 11.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 21 (97.40 m), S. 25 (188.00 m), S. 28 (115.50 m), S. 64 (75.00 m), S. 68 (210.00 m); Gulf of Edremit, S. 2 (100.40 m); this species is rarely reported only from Gulf of Saros and Gulf of Edremit. It occurs in upper circalittoral-upper epibathyal zones.

Dentalina mucronata Neugeboren
(Pl. 18, figs. 4-5)

1884 *Nodosaria mucronata* (Neugeboren), Brady, p. 506, pl. 62, figs. 27-31.

1960 *Dentalina mucronata* Neugeboren, Hofker, p. 245, fig. 66.

1993 *Dentalina mucronata* Neugeboren, Sgarella and Moncharmont-Zei, p. 194, pl. 11, fig. 12.

Occurrence: Marmaris Bay, S. 1 (106.40 m): this species is very rare and recorded only in one sample coming from the Marmaris Bay. It occurs in the lower circalittoral zone.

Genus *Laevidentalina* Loeblich and Tappan, 1986
Laevidentalina inflexa (Reuss)

1866 *Nodosaria inflexa*, Reuss, p. 131, pl. 2, fig. 1

1913 *Nodosaria inflexa* Reuss, Barker, pl. 62, fig. 9.

1991 *Laevidentalina inflexa* (Reuss), Cimerman and Langer, p. 51, pl. 52, figs. 4-6.

1994 *Laevidentalina inflexa* (Reuss), Loeblich and Tappan, p. 65, pl. 114, figs. 10-16; pl. 115, fig. 6.

1999 *Laevidentalina inflexa* (Reuss), Hayward et al., p. 109-110, pl. 6, figs. 20-21

Figure 43 a. Distribution of *Peneroplis pertusus* (Forsk.) in the Eastern Aegean Sea, Turkish Coasts.

Figure 43 b. Distribution of *Peneroplis planatus* (Fichtel and Moll) in the Eastern Aegean Sea, Turkish Coasts.

Figure 43 c. Distribution of *Sorites orbiculus* Ehrenberg in the Eastern Aegean Sea, Turkish Coasts.

Figure 43 d. Distribution of *Dentalina albatrossi* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.



43 a



43 b



43 c



43 d

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 14 (71.00 m): it occurs only one sample of this region in upper circalittoral zone.

Genus *Nodosaria* Lamarck, 1812
Nodosaria raphanus (Linné)
(Pl. 18, fig. 6)

1758 *Nautilus raphanus*, Linné, p. 711, pl. 1, fig. 6 d-h.

1993 *Nodosaria raphanus* (Linné), Sgarella and Moncharmont-Zei, p. 191, pl. 11, fig. 1.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 6 (70.00 m), S. 11 (79.60 m), S. 14 (84.00 m), S. 21 (97.40 m), S. 28 (115.50 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 57 (52.00 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m); Gulf of Gökova, S. 5 (34.50 m); Gulf of Datça, S. 1 (252.30 m). This species is rare in Eastern Aegean Sea and occurs in the infralittoral zone. It is also reported from upper-lower circalittoral zones and rarely from the upper epibathyal zone.

Genus *Pseudonodosaria* Boomgaard, 1949
Pseudonodosaria comatula (Cushman)
(Pl. 18, figs. 7-8)

1923 *Nodosaria comatula*, Cushman, p. 83, pl. 14, fig. 5.

1993 *Pseudonodosaria comatula* (Cushman), Sgarella and Moncharmont-Zei, p. 195, pl. 12, fig. 13.

1994 *Pseudonodosaria comatula* Cushman, Loeblich and Tappan, p. 66, pl. 116, figs. 13-16.

Occurrence: Gulf of Saros, S. 51 (12.30 m), S. 54 (94.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m), S. 20 (71.00 m), S. 25 (74.00 m): it is found rarely, in depth-range of between 12.30 m and 94.50 m. It is recorded from infralittoral and upper circalittoral zones.

Family Vaginulinidae Reuss, 1860
Subfamily Lenticulininae Chapman, Parr and Collins, 1934
Genus *Lenticulina* Lamarck, 1804
Lenticulina calcar (Linné)

1758 *Nautilus calcar*, Linné, p. 709.

1884 *Cristellaria calcar*, Brady, p. 55, pl. 70, figs. 9-12.

1960 *Lenticulina calcar* (Linné), Barker, pl. 70, figs. 9-12.

1974 *Robulus calcar* (Linné), Colom, p. 95, figs. 11 I, j, k.

1991 *Lenticulina calcar* (Linné), Cimerman and Langer, p. 51, pl. 53, figs. 1-4.

1993 *Lenticulina calcar* (Linné), Sgarella and Moncharmont-Zei, p. 194, pl. 12.

fig. 11.

1994 *Lenticulina calcar* (Linné), Loeblich and Tappan, p. 68, pl. 120, figs. 1-8.

Occurrence: Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m): poorly recorded in depth-range of between 34.50 m and 198.00 m and found only in the Gulf of Gökova. It occurs in infralittoral-lower circalittoral zones.

Lenticulina cultrata (Montfort)
(Pl. 18, figs. 9-10)

1808 *Robulus cultratus*, Montfort, p. 214, pl. 25, no. 14, 15.

1839b *Robulina cultrata* (Montfort), d'Orbigny, p. 26, pl. 5, figs. 19, 20.

1974 *Lenticulina cultrata* (Montfort), Le Calvez, Y., p. 58, text-fig. 1.

1991 *Lenticulina cultrata* (Montfort), Cimerman and Langer, p. 51, pl. 53, figs. 5-6.

1993 *Lenticulina cultrata* (Montfort), Sgarella and Moncharmont-Zei, p. 194.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 17 (33.90 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 40 (77.30 m), S. 49 (45.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 62 (110.00 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 20 (71.00 m); Gulf of Edremit, S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 8 (29.00 m); Gulf of Gökova, S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 71 (71.80 m), S. 5 (128.80 m): this species is generally abundant in Eastern Aegean Sea and occurs frequently in infralittoral, upper-lower circalittoral and upper epibathyal zones.

Lenticulina gibba (d'Orbigny)

1826 *Cristellaria gibba*, d'Orbigny, p. 292, no. 17.

1839a *Cristellaria gibba*, d'Orbigny, p. 40, pl. 7, figs. 20, 21.

1913 *Cristellaria gibba* d'Orbigny, Cushman, p. 105, pl. 25, fig. 4.

1974 *Robulus gibbus* (d'Orbigny), Colom, p. 96, fig. 11 g.

1977b *Lenticulina gibba* (d'Orbigny), Le Calvez, Y., p. 25, fig. 1.

Figure 44 a. Distribution of *Dentalina flintii* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 44 b. Distribution of *Dentalina inornata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 44 c. Distribution of *Dentalina mucronata* Neugeboren in the Eastern Aegean Sea, Turkish Coasts.

Figure 44 d. Distribution of *Laeviidentalina inflexa* (Reuss) in the Eastern Aegean Sea, Turkish Coasts.



44 a



44 b



44 c



44 d

- 1991 *Lenticulina gibba* (d'Orbigny), Cimerman and Langer, p. 51, pl. 53, figs. 7-11.
 1993 *Lenticulina gibba* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 194.
 2002 *Lenticulina gibba* (d'Orbigny), Kaminski et al., p. 27, pl. 2, fig. 6.

Occurrence: Gökçeada, S. 32 (16.00 m): it occurs poorly only one in locality of the infralittoral zone of the Eastern Aegean Sea.

Lenticulina orbicularis (d'Orbigny)
(Pl. 18, fig. 11)

- 1826 *Robulina orbicularis*, d'Orbigny, p. 288, pl. 15, figs. 8, 9.
 1974 *Robulus orbicularis* (d'Orbigny), Colom, p. 97, fig. 11 a-e.
 1991 *Lenticulina orbicularis* (d'Orbigny), Cimerman and Langer, p. 51-52, pl. 53, fig. 12.
 1993 *Lenticulina orbicularis* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 194, pl. 12, fig. 8.

Occurrence: Gulf of Edremit, S. 5 (125.00 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 9 (147.00 m): it is rare in infralittoral, upper-lower circalittoral and upper epibathyal zones.

Genus *Saracenaria* Defrance, 1824
Saracenaria italica Defrance
(Pl. 19, fig. 1)

- 1960 *Saracenaria italica* Defrance, Hofker, p. 248, fig. 81 A.
 1964 *Saracenaria italica* Defrance, Colom, p. 527, fig. 15 (1, 2).
 1993 *Saracenaria italica* Defrance, Sgarella and Moncharmont-Zei, p. 195, pl. 12, fig. 9.
 1994 *Saracenaria italica* Defrance, Loeblich and Tappan, p. 69, pl. 125, figs. 9-16.
 1999 *Saracenaria italica* Defrance, Hayward et al., p. 114, pl. 6, figs. 42-43.

Occurrence: Gulf of Datça, S. 1 (252.30 m): it occurs very rare in Eastern Aegean Sea and in upper epibathyal zone.

- Figure 45 a. Distribution of *Nodosaria raphanus* (Linné) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 45 b. Distribution of *Pseudonodosaria comatula* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 45 c. Distribution of *Lenticulina calcar* (Linné) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 45 d. Distribution of *Lenticulina cultrata* (Montfort) in the Eastern Aegean Sea, Turkish Coasts.



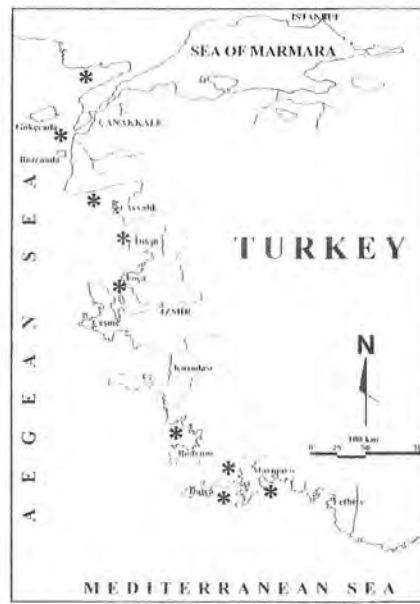
45 a



45 b



45 c



45 d

Subfamily Marginulininae Wedekind, 1936

Genus *Amphicoryna* Schlumberger, 1881

Amphicoryna scalaris (Batsch)

(pl. 19, figs. 2-7)

1791 *Nautilus (Ortoceras) scalaria*. Batsch, p. 91, pl. 2, fig. 4 a, b.

1960 *Amphicoryna scalaris* (Batsch), Barker, pl. 63, figs. 28-31.

1970 *Amphicoryna scalaris* (Batsch), v. Daniels, p. 78, pl. 4, fig. 4,

1974 *Nodosaria striaticollis* (d'Orbigny), Le Calvez, Y., p. 32, pl. 8, figs. 1-5.

1988 *Amphicoryna scalaris* (Batsch), Loeblich and Tappan, p. 410, pl. 450, figs. 11-14.

1991 *Amphicoryna scalaris* (Batsch), Cimerman and Langer, p. 52, pl. 54, figs. 1-9.

1992 *Amphicoryna scalaris* (Batsch), Hatta and Ujiie, p. 166, pl. 21, figs. 8 a, b.

1993 *Amphicoryna scalaris* (Batsch), Sgarella and Moncharmont-Zei, p. 191, pl. 11, figs. 2-3.

2002 *Amphicoryna scalaris* (Batsch), Avşar, p. 64, pl. 2, figs. 8-9.

Occurrence: Gulf of Saros, S. 10 (68.50 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 20 (92.00 m), S. 22 (118.50 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 40 (77.30 m), S. 72 (500.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 15 (47.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 26 (72.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.00 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 4 (71.80 m), S. 5 (128.80 m): this species occur abundantly in the different gulfs of Eastern Aegean Sea. It is reported from infralittoral to upper-lower circalittoral zones and is poor in upper-lower epibathyal zones.

Genus *Astacolus* de Montfort, 1808

Astacolus crepidulus (Fichtel and Moll)

(Pl. 19, fig. 8)

1798 *Nautilus crepidula*, Fichtel and Moll, p. 107, pl. 19, figs. g-i.

1923 *Cristellaria crepidula* (Fichtel and Moll), Cushman, p. 117, pl. 35, figs. 3-4.

1960 *Astacolus crepidulus* (Fichtel and Moll), Barker, pl. 67, fig. 20; pl. 68, figs. 1 and 2.

1970 *Planularia crepidula* (Fichtel and Moll), v. Daniels, p. 78, pl. 4, fig. 5.

1971 *Astacolus crepidulus* (Fichtel and Moll), Murray, p. 77, pl. 29, figs. 5, 6.

1988 *Astacolus crepidulus* (Fichtel and Moll), Loeblich and Tappan, p. 410, pl. 450, figs. 7, 8.

- 1991 *Astacolus crepidulus* (Fichtel and Moll), Cimerman and Langer, p. 52, pl. 54, figs. 10-14.
 1992 *Astacolus crepidulus* (Fichtel and Moll), Dawson, p. 132.
 1993 *Astacolus crepidulus* (Fichtel and Moll), Sgarella and Moncharmont-Zei, p. 191, pl. 11, fig. 4.
 1994 *Astacolus crepidulus* (Fichtel and Moll), Jones, pl. 67, fig. 20.
 1994 *Astacolus crepidulus* (Fichtel and Moll), Loeblich and Tappan, p. 72, pl. 130, figs. 1-10.
 1999 *Astacolus crepidulus* (Fichtel and Moll), Hayward et al., p. 112, pl. 6, figs. 28-29.
 2001 *Astacolus crepidulus* (Fichtel and Moll), Debenay et al., pl. 3, fig. 30.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 40 (77.30 m), S. 54 (94.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 22 (45.00 m); Gulf of Edremit, S. 6 (15.00 m); Gulf of Gökova, S. 7 (78.30 m); Gulf of Datça, S. 1 (252.30 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m); it occurs frequently in some gulfs of Eastern Aegean Sea. It is generally recorded in infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper epibathyal zones.

Astacolus insolitus (Schwager)

- 1866 *Cristellaria insolita*, Schwager, p. 242, pl. 6, fig. 85.
 1941 *Astacolus insolitus* (Schwager), Galloway and Heminway, p. 334, pl. 8, fig. 9.
 1979 *Astacolus insolitus* (Schwager), Hayward and Buzas, p. 40, pl. 5, figs. 58-60.
 1980 *Astacolus insolitus* (Schwager), Srinivasan and Sharma, p. 28, pl. 5, figs. 12, 13.
 1992 *Astacolus insolitus* (Schwager), Hatta and Ujiie, p. 166, pl. 21, figs. 9 a-c, 10.
 1994 *Astacolus insolitus* (Schwager), Jones, pl. 67, fig. 17.
 1999 *Astacolus insolitus* (Schwager), Hayward et al., p. 112, pl. 6, fig. 30.

Occurrence: Gulf of Gökova, S. 3 (80.40 m): this species is reported only from the Gulf of Gökova and it occurs in one sample coming from the upper circalittoral zone.

Astacolus sublegumen (Parr)
 (Pl. 19, fig. 9)

- 1884 *Vaginulina legumen* (Linné), Brady, p. 530, pl. 65, figs. 13, 14.
 1950 *Vaginulopsis sublegumen*, Parr, p. 325, pl. 11, fig. 18.
 1960 *Vaginulinopsis sublegumen* Parr, Barker, p. 138, pl. 66, figs. 13, 14.
 1992 *Astacolus sublegumen* (Parr), Hatta and Ujiie, p. 166, pl. 22, figs. 1, 2 a, b.

Occurrence: Gulf of Edremit, S. 18 (29.00 m); Gulf of Gökova, S. 5 (34.50 m): this species is poorly recorded only from two localities. It is recorded in the infralittoral zone.

Genus *Marginulina* d'Orbigny, 1826

Marginulina costata (Batsch)

(Pl. 19, figs. 10-12)

1791 *Nautilus costatus*, Batsch, p. 1, 4, pl. 1, figs. 1 a-g.

1960 *Marginulina costata* (Batsch), Hofker, p. 247, fig. 76.

1993 *Marginulina costata* (Batsch), Sgarella and Moncharmont-Zei, p. 195, pl. 12, fig. 5.

Occurrence: Gulf of Datça, S. 1 (252.30 m), S. 7 (56.40 m); Marmaris Bay, S. 3 (98.30 m), S. 4 (71.80 m): it occurs in four samples coming from two regions of Eastern Aegean Sea. It is found in the upper circalittoral zone. It also occurs rarely in the upper epibathyal zone.

Family Lagenidae Reuss, 1862

Genus *Lagena* Walker and Jacob, 1798

Lagena nebulosa Cushman

1923 *Lagena laevis* (Montagu) var. *nebulosa*, Cushman, p. 29, pl. 5, figs. 4-5.

1940 *Lagena nebulosa* Cushman, Buchner, p. 421, pl. 2, figs. 31, 32.

1993 *Lagena nebulosa* Cushman, Sgarella and Moncharmont-Zei, p. 198, pl. 11, fig. 18.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 36 (82.00 m): its occurrence is very rare in the upper circalittoral zone.

Lagena semistriata Williamson

1848 *Lagena striata* (Montagu) var. b. *semistriata*, Williamson, p. 14, pl. 1, figs. 9, 10.

1940 *Lagena laevis* (Montagu) forma *semistriata* Williamson, Buchner, p. 418, pl. 3, figs. 39-43.

1993 *Lagena semistriata* Williamson, Sgarella and Moncharmont-Zei, p. 198, pl. 12, fig. 1.

2001 *Lagena semistriata* Williamson, Debenay et al., pl. 3, fig. 15.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 27 (70.00 m): this species

Figure 46 a. Distribution of *Lenticulina gibba* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 46 b. Distribution of *Lenticulina orbicularis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 46 c. Distribution of *Saracenaria italica* Defrance in the Eastern Aegean Sea, Turkish Coasts.

Figure 46 d. Distribution of *Amphicoryna scalaris* (Batsch) in the Eastern Aegean Sea, Turkish Coasts.



46 a



46 b



46 c



46 d

occurs poorly in the upper circalittoral zone of Eastern Aegean Sea.

Lagena striata d'Orbigny
(Pl. 20, figs. 1-2)

- 1839c *Oolina striata*, d'Orbigny, pl. 5, fig. 12.
1923 *Lagena substriata* Williamson, Cushman, p. 56, pl. 10, fig. 11.
1970 *Lagena striata* (d'Orbigny), v. Daniels, p. 79, pl. 4, fig. 9 a.
1987 *Lagena striata* (d'Orbigny), Yanko and Troitskaja, pl. 3, fig. 16.
1990 *Lagena striata* (d'Orbigny), Thomas et al., pl. 8, fig. 9.
1991 *Lagena striata* (d'Orbigny), Cimerman and Langer, p. 53, pl. 55, figs. 6, 7.
1993 *Lagena striata* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 198, pl. 12, figs. 2, 3.
2002 *Lagena striata* (d'Orbigny), Kaminski et al., p. 27, pl. 2, fig. 4.
2002 *Lagena striata* (d'Orbigny), Avşar, p. 64, pl. 2, fig. 10.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 18 (88.10 m), S. 21 (97.40 m), S. 22 (118.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 9 (72.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 27 (70.00 m), S. 35 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Dağa, S. 1 (252.30 m), S. 8 (246.40 m), S. 9 (147.00 m); Marmaris Bay, S. 5 (128.80 m); it occurs frequently in different localities of Eastern Aegean Sea and is recorded from infralittoral to upper epibathyal zones.

Superfamily POLYMORPHINACEA d'Orbigny, 1839

Family Polymorphinidae d'Orbigny, 1839

Subfamily Polymorphininae d'Orbigny, 1839

Genus *Globulina* d'Orbigny, 1839

Globulina myristiformis (Williamson)

(Pl. 20, fig. 3)

- 1858 *Polymorphina myristiformis*, Williamson, p. 73, pl. 6, figs. 156, 157
1960 *Globulina gibba* d'Orbigny var. *myristiformis* (Williamson), Barker, p. 73, figs. 9, 10.
1972 *Globulina myristiformis* (Williamson), Rosset-Moulinier, p. 154, pl. 8, fig. 18.
1974 *Globulina gibba* var. *myristiformis* (Williamson), Colom, p. 113, fig. 15b.

Figure 47 a. Distribution of *Astacolus crepidulus* (Fichtel and Moll) in the Eastern Aegean Sea, Turkish Coasts.

Figure 47 b. Distribution of *Astacolus insolitus* (Schwager) in the Eastern Aegean Sea, Turkish Coasts.

Figure 47 c. Distribution of *Astacolus sublegumen* (Parr) in the Eastern Aegean Sea, Turkish Coasts.

Figure 47 d. Distribution of *Marginulina costata* (Batsch) in the Eastern Aegean Sea, Turkish Coasts.



47 a



47 b



47 c



47 d

- 1991 *Globulina ? myristiformis* (Williamson), Cimerman and Langer, p. 53-54, pl. 56, figs. 13, 14.
 1995 *Globulina myristiformis* (Williamson), Meriç et al., 1995, p. 109, pl. 6, fig. 6.
 2001 *Globulina myristiformis* (Williamson), Debenay et al., pl. 3, fig. 12.

Occurrence: Gulf of Saros, S. 14 (84.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 6 (92.00 m): it occurs poorly in two localities corresponding to the upper circalittoral zone.

Globulina punctata d'Orbigny

- 1846 *Globulina punctata*, d'Orbigny, p. 229, pl. 13, figs. 17, 18.
 1930 *Globulina gibba* var. *punctata* d'Orbigny, Cushman and Ozawa, p. 69, pl. 17, figs. 4, 5.
 1974 *Globulina gibba* var. *punctata* d'Orbigny, Colom, p. 113, figs. 15 e, f, l.
 1991 *Globulina ? punctata* d'Orbigny, Cimerman and Langer, p. 54, pl. 56, figs. 5-7.
 2001 *Globulina punctata* d'Orbigny, Meriç and Avşar, p. 128.

Occurrence: Gökçeada, S. 29 (11.00 m): this species occurs rarely and only in one sample belonging to the infralittoral zone.

Genus *Polymorphina* d'Orbigny, 1826

Polymorphina sp. 1
 (Pl. 20, fig. 4)

- 1991 *Polymorphina* sp. 1, Cimerman and Langer, p. 54, pl. 56, figs. 8-10.

Occurrence: Gulf of Edremit, S. 1 (334.50 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 8 (35.80 m): it is rarely found in two localities. It is recorded in infralittoral and upper epibathyal zones.

Polymorphina sp. 2
 (Pl. 20, fig. 5)

- 1991 *Polymorphina* sp. 2, Cimerman and Langer, p. 54, pl. 57, fig. 1.

Figure 48 a. Distribution of *Lagena nebulosa* Cushman in the Eastern Aegean Sea, Turkish Coasts.

Figure 48 b. Distribution of *Lagena semistriata* Williamson in the Eastern Aegean Sea, Turkish Coasts.

Figure 48 c. Distribution of *Lagena striata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 48 d. Distribution of *Globulina myristiformis* (Williamson) in Eastern Aegean Sea, Turkish Coasts.



48 a



48 b



48 c



48 d

Occurrence: Gökçeada, S. 29 (11.00 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m); Gulf of Gökova, S. 3 (80.40 m): this species occurs poorly and is reported from infralittoral to upper circalittoral zones.

Polymorphina sp. 3

1991 *Polymorphina* sp. 3, Cimerman and Langer, p. 54, pl. 57, figs. 2-4.

Occurrence: Gulf of Saros, S. 14 (84.00 m), S. 17 (33.90 m), S. 40 (77.30 m), S. 43 (51.50 m), S. 48 (40.00 m), S. 50 (41.00 m), S. 72 (500.00 m), S. 79 (29.00 m); Gökçeada, S. 3 (0.50 m), S. 13 (12.00 m), S. 14 (55.00 m), S. 16 (4.00 m), S. 18 (30.00 m), S. 23 (10.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Bozcaada, S. 3 (0.50 m), S. 4 (0.50 m), S. 9 (0.50 m), S. 13 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 22 (45.00 m); Gulf of Edremit, S. 18 (29.00 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m): this species is recorded frequently in different localities of Eastern Aegean Sea. It occurs frequently in infralittoral and upper circalittoral zones, and rarely in lower circalittoral and upper epibathyal zones.

Polymorphina sp. 5

1991 *Polymorphina* sp. 5, Cimerman and Langer, p. 54, pl. 57, figs. 5-7.

Occurrence: Gulf of Saros, S. 17 (33.90 m), S. 40 (77.30 m), S. 50 (41.00 m), S. 51 (12.30 m); Gökçeada, S. 16 (4.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Bozcaada, S. 3 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 33 (39.00 m): it occurs generally in the infralittoral zone and rarely in the upper circalittoral zone.

Polymorphina sp. 7

1991 *Polymorphina* ? sp. 7, Cimerman and Langer, p. 55, pl. 56, figs. 1-4.

Occurrence: Gulf of Saros, S. 39 (37.70 m), S. 42 (27.50 m): it occurs poorly only in one locality of Eastern Aegean Sea. It is recorded from the infralittoral zone.

Family Ellipsolagenidae A. Silvestri, 1923

Subfamily Oolininae Loeblich and Tappan, 1961

Genus *Favulina* Patterson and Richardson, 1987

Favulina hexagona (Montagu)

(Pl. 20, figs. 6-7)

1848 *Entosalenia squamosa* (Montagu) var. *hexagona* Williamson, Williamson, p. 20, pl. 2, fig. 23.

- 1858 *Entosalenia squamosa* (Montagu) var. *hexagona* Williamson, Williamson, pl. 1, fig. 32.
 1884 *Lagena hexagona* (Williamson), Brady, p. 472, pl. 58, fig. 33.
 1960 *Oolina hexagona* (Williamson), Barker, p. 120, pl. 58, fig. 33.
 1977 *Oolina* cf. *hexagona* (Williamson), McCulloch, p. 80, pl. 54, fig. 11.
 1990 *Oolina hexagona* (Williamson), Thomas et al., pl. 8, fig. 13.
 1991 *Favulina hexagona* (Montagu), Cimerman and Langer, p. 55, pl. 58, figs. 8-9.
 1992 *Favulina hexagona* (Williamson), Hatta and Ujiie, p. 168, pl. 23, figs. 4 a, b
 1994 *Favulina hexagona* (Williamson), Loeblich and Tappan, p. 86, pl. 151, figs. 11, 12.
 1995 *Favulina hexagona* (Montagu), Meriç et al., pl. 6, figs. 7 a, b, c.
 2002 *Favulina hexagona* (Montagu), Kaminski et al., p. 26, pl. 2, fig. 8.
 2002 *Favulina hexagona* (Montagu), Avşar, p. 64, pl. 2, fig. 11.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 26 (72.00 m), S. 27 (70.00 m); Gulf of Edremit, S. 3 (230.00 m): this species occurs poorly in two localities of northeastern Aegean Sea. It is recorded from upper circalittoral to upper epibathyal zones.

Favulina squamosa (Montagu)
(Pl. 20, figs. 8-9)

- 1957 *Lagena squamosa* Montagu, Mineraria, pl. 19, fig. 2.
 2001 *Favulina squamosa* (Montagu), Debenay et al., pl. 3, fig. 6.

Occurrence: Gulf of Edremit, S. 3 (230.00 m): this species is recorded only in one locality. It occurs very poorly in the upper epibathyal zone.

Subfamily Ellipsolageninae A. Silvestri, 1923

Genus *Fissurina* Reuss, 1850
Fissurina lucida (Williamson)

- 1858 *Entosolenia marginata* var. *lucida*, Williamson, p. 10, pl. 1, figs. 22, 23.
 1987 *Fissurina lucida* (Williamson), Yanko and Troitskaja, pl. 5, figs. 1-12.
 1991 *Fissurina lucida* (Williamson), Cimerman and Langer, p.55-56, pl.59, fig. 1.
 1994 *Fissurina lucida* (Williamson), Loeblich and Tappan, p. 90, pl. 156, figs. 1-3.

- Figure 49 a. Distribution of *Globulina punctata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
 Figure 49 b. Distribution of *Polymorphina* sp. 1 in the Eastern Aegean Sea, Turkish Coasts.
 Figure 49 c. Distribution of *Polymorphina* sp. 2 in the Eastern Aegean Sea, Turkish Coasts.
 Figure 49 d. Distribution of *Polymorphina* sp. 3 in the Eastern Aegean Sea, Turkish Coasts.



49 a



49 b



49 c



49 d

1999 *Fissurina lucida* (Williamson), Hayward et al., p. 119, pl. 7, figs. 20-21.
2001 *Fissurina lucida* (Williamson), Debenay et al., pl. 3, fig. 27.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m): its occurrence is always very rare in Eastern Aegean Sea and reported from the infralittoral zone.

Fissurina neptunii (Buchner)

1940 *Lagena neptunii*, Buchner, p. 484, pl. 15, figs. 294-296.
1993 *Fissurina neptunii* (Buchner), Sgarella and Moncharmont-Zei, p. 202, pl. 13, fig. 6.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 35 (80.00 m): this species is always very rare in the upper circalittoral zone.

Fissurina orbignyana Seguenza

1940 *Lagena orbignyana* (Seguenza), Buchner, p. 504, pl. 20, figs. 410-412.
1971 *Fissurina orbignyana* Seguenza, Murray, p. 99, pl. 40, figs. 1-5.
1991 *Palliolatella orbignyana* Seguenza, Cimerman and Langer, p. 56, pl. 59, figs. 6-7.
1999 *Fissurina orbignyana* Seguenza, Hayward et al., p. 120, pl. 7, fig. 24.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 27 (70.00 m): this species occurs only in one locality and is very rare in the upper circalittoral zone.

Fissurina sidebottomi (Buchner)

1940 *Lagena sidebottomi*, Buchner, p. 484, pl. 16, figs. 297-299.
1993 *Fissurina sidebottomi* (Buchner), Sgarella and Moncharmont-Zei, p. 204, pl. 13, fig. 7.

Occurrence: Gulf of Saros, Harmantaşı locality, Line 1, S. 8 (45.00 m), S. 9 (50.00 m): this species is very rare. It occurs mostly in depth-range of between 45.00 m and 50.00 m, and is recorded in the infralittoral zone.

Figure 50 a. Distribution of *Polymorphina* sp. 5 in the Eastern Aegean Sea, Turkish Coasts.

Figure 50 b. Distribution of *Polymorphina* sp. 7 in the Eastern Aegean Sea, Turkish Coasts.

Figure 50 c. Distribution of *Favulina hexagona* (Montagu) in the Eastern Aegean Sea, Turkish Coasts.

Figure 50 d. Distribution of *Favulina squamosa* (Montagu) in the Eastern Aegean Sea, Turkish Coasts.



50 a



50 b



50 c



50 d

Subfamily Parafissurininae R. W. Jones, 1984

Genus *Parafissurina* Parr, 1947

Parafissurina lateralis (Cushman)

1913 *Lagena lateralis*, Cushman, p. 9, pl. 1, fig. 1.

1940 *Lagena lateralis* Cushman, Buchner, p. 520, pl. 23, figs. 487-503.

1993 *Parafissurina lateralis* (Cushman), Sgarella and Moncharmont-Zei, p. 205, pl. 13, fig. 11.

1994 *Parafissurina lateralis* (Cushman), Loeblich and Tappan, p. 94, pl. 164, figs. 1-10.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m); it occurs in depth-range of between 58.00 m and 72.00 m corresponding to the upper circalittoral zone.

Parafissurina staphyllearia (Schwager)

1866 *Fissurina staphyllearia*, Schwager, p. 209, pl. 5, fig. 24.

1940 *Lagena staphyllearia* (Schwager), Buchner, p. 523, pl. 24, figs. 507-521.

1993 *Parafissurina staphyllearia* (Schwager), Sgarella and Moncharmont-Zei, p. 205, pl. 13, fig. 12.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 23 (58.00 m); it is very rare in northeastern Aegean Sea and reported from the upper circalittoral zone.

Family Glandulinidae Reuss, 1860

Subfamily Glandulininae Reuss, 1860

Genus *Glandulina* d'Orbigny, 1839

Glandulina laevigata (d'Orbigny)

1826 *Nodosaria laevigata*, d'Orbigny, p. 252, pl. 10, figs. 1-3.

1964 *Glandulina laevigata* (d'Orbigny), Loeblich and Tappan, 1964, fig. 421, figs. 1 and 2.

1993 *Glandulina laevigata* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 206.

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 38 (53.40 m); it occurs rarely in the

Figure 51 a. Distribution of *Fissurina lucida* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 51 b. Distribution of *Fissurina neptunii* (Buchner) in the Eastern Aegean Sea, Turkish Coasts.

Figure 51 c. Distribution of *Fissurina orbignyana* Seguenza in the Eastern Aegean Sea, Turkish Coast.

Figure 51 d. Distribution of *Fissurina sidebottomi* (Buchner) in the Eastern Aegean Sea, Turkish Coasts.



51 a



51 b



51 c



51 d

Gulf of Saros and is reported from upper circalittoral to upper epibathyal zones.

Order ROBERTINIDA Mikhalevich, 1980
Superfamily CERATOBULMINACEA Cushman, 1927
Family Epistominidae Wedekind, 1937
Subfamily Epistomininae Wedekind, 1937
Genus *Hoeglundina* Brotzen, 1948
Hoeglundina elegans (d'Orbigny)

- 1826 *Rotalia (Turbinulina) elegans*, d'Orbigny, p. 276, no. 54.
1931 *Epistomina elegans* (d'Orbigny), Cushman, p. 65, pl. 13, figs. 6 a-i.
1960 *Hoeglundina elegans* (d'Orbigny), Barker, pl. 105, figs. 3-6.
1974 *Hoeglundina elegans* (d'Orbigny), Colom, p. 173, figs. 44 v, w.
1988 *Hoeglundina elegans* (d'Orbigny), Loeblich and Tappan, p. 446, pl. 478, figs. 1-3.
1990 *Hoeglundina elegans* (d'Orbigny), Galluzzo et al., pl. 1, figs. 23-24.
1990 *Hoeglundina elegans* (d'Orbigny), Thomas et al., pl. 7, fig. 12.
1991 *Hoeglundina elegans* (d'Orbigny), Cimerman and Langer, p. 56-57, pl. 59, figs. 10-12.
1994 *Hoeglundina elegans* (d'Orbigny), Loeblich and Tappan, p. 98, pl. 174, figs. 1-6.
1999 *Hoeglundina elegans* (d'Orbigny), Hayward et al., p. 123, pl. 8, figs. 5-7.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 23 (383.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 36 (74.00 m), s. 69 (72.00 m), S. 72 (500.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 31 (75.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 6 (15.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 7 (198.00 m); Gulf of Datça, S. 1 (252.00 m), S. 8 (246.40 m); this species occurs frequently in the different localities of Eastern Aegean Sea. It is recorded rarely in the infralittoral zone, but, frequently from upper circalittoral-upper epibathyal zones.

Order BULIMINIDA Fursenko, 1958
Superfamily BOLIVINACEA Glaessner, 1937
Family Bolivinidae Glaesner, 1937
Genus *Brizalina* O. G. Costa, 1856
Brizalina alata (Seguenza)
(Pl. 20, fig. 1)

- 1862 *Vulvulina alata*, Seguenza, p. 115, pl. 2, fig. 5.
1960 *Bolivina alata* (Seguenza), Hofker, p. 248, figs. 85-88.
1960 *Bolivina alata* (Seguenza), Barker, pl. 53, figs. 2-4.
1991 *Brizalina alata* (Seguenza), Cimerman and Langer, p. 59, pl. 61, figs. 12-14.
1993 *Bolivina alata* (Seguenza), Sgarella and Moncharmont-Zei, p. 207, pl. 14, fig. 8.

- 1995 *Brizalina alata* (Seguenza), Meriç et al., p. 109, pl. 6, figs. 8 a-d.
 2002 *Brizalina alata* (Seguenza), Kaminski et al., p. 23, pl. 2, fig. 12.
 2002 *Brizalina alata* (Seguenza), Avşar, p. 64, pl. 2, fig. 12.

Occurrence: Gulf of Saros, S. 55 (22.00 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 65 (61.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 75 (42.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 23 (58.00 m), S. 26 (72.00 m), S. 31 (75.00 m), S. 35 (80.00 m), S. 36 (82.00 m): this species is common in northeastern Aegean Sea. It is reported frequently from infralittoral-upper circalittoral zones, and it is rarely in upper epibathyal zone.

Brizalina spathulata (Williamson)

- 1858 *Textularia variabilis* var. *spathulata*, Williamson, p. 76, pl. 6, figs. 164, 165.
 1937b *Bolivina spathulata* (Williamson), Cushman, p. 162, pl. 15, figs. 20-24.
 1974 *Brizalina spathulata* (Williamson), Colom, p. 121, figs. 18 h, l.
 1991 *Brizalina spathulata* (Williamson), Cimerman and Langer, p. 60, pl. 62, figs. 3-5.
 1993 *Bolivina spathulata* (Williamson), Sgarella and Moncharmont-Zei, p. 210, pl. 14, fig. 3.
 1995 *Brizalina spathulata* (Williamson), Meriç et al., p. 109, pl. 7, figs. 1 a-b.
 1999 *Bolivina spathulata* (Williamson), Hayward et al., p. 126, pl. 8, fig. 17.
 2001 *Brizalina spathulata* (Williamson), Debenay et al., pl. 4, fig. 1.
 2002 *Brizalina spathulata* (Williamson), Kaminski et al., p. 24, pl. 2, fig. 9.
 2002 *Brizalina spathulata* (Williamson), Avşar, p. 64, pl. 2, fig. 13.

Occurrence: Gulf of Saros, S. 55 (22.00 m), S. 56 (41.00 m), S. 58 (60.00 m), S. 59 (98.00 m), S. 61 (70.00 m), S. 64 (75.00 m), S. 67 (550.00 m), S. 68 (210.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 73 (600.00 m), S. 74 (200.00 m), S. 75 (42.00 m), S. 76 (53.00 m), S. 77 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 31 (75.00 m), S. 32

- Figure 52 a. Distribution of *Parafissurina lateralis* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 52 b. Distribution of *Parafissurina staphyllearia* (Schwager) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 52 c. Distribution of *Glandulina laevigata* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 52 d. Distribution of *Hoeglundina elegans* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



52 a



52 b



52 c



52 d

(45.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m): this species occurs frequently in two localities of northeastern Aegean Sea. It is mostly reported in infralittoral and upper circalittoral zones. It also occurs frequently in upper-lower epibathyal zones.

Brizalina striatula (Cushman)

- 1922a *Bolivina striatula*, Cushman, p. 27, pl. 3, fig. 10.
1922b *Bolivina striatula* Cushman, Cushman, p. 43.
1937b *Bolivina striatula* Cushman, Cushman, p. 154, pl. 18, figs. 30, 31.
1974 *Bolivina striatula* Cushman, Colom, p. 120, figs. 17 a-g.
1991 *Brizalina striatula* (Cushman), Cimerman and Langer, p. 60, pl. 62, figs. 6-9.
1993 *Bolivina striatula* Cushman, Sgarella and Moncharmont-Zei, p. 210, pl. 14, fig. 16.
1999 *Bolivina striatula* Cushman, Hayward et al., p. 127, pl. 8, fig. 21.
2002 *Brizalina striatula* (Cushman), Kaminski et al., p. 24, pl. 2, fig. 10.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 27 (70.00 m), S. 36 (82.00 m): it is reported poorly from two localities in the upper circalittoral zone.

Superfamily CASSIDULINACEA d'Orbigny, 1839

Family Cassidulinidae d'Orbigny, 1839

Subfamily Cassidulininae d'Orbigny, 1839

Genus *Cassidulina* d'Orbigny, 1826

Cassidulina carinata Silvestri

- 1971 *Cassidulina carinata* Silvestri, Murray, p. 187, pl. 78, figs. 1-5.
1984 *Cassidulina carinata* Silvestri, Ross and Kennett, pl. 1, figs. 14-15.
1993 *Cassidulina carinata* Silvestri, Sgarella and Moncharmont-Zei, p. 236, pl. 23, figs. 8 and 9.
1994 *Cassidulina carinata* Silvestri, Loeblich and Tappan, p. 114, pl. 220, figs. 7-12.
1995 *Cassidulina carinata* Silvestri, Meriç et al., p. 109, pl. 7, figs. 2 a-b.
1999 *Cassidulina carinata* Silvestri, Hayward et al., p. 127, pl. 8, figs. 23-24.
2002 *Cassidulina carinata* Silvestri, Kaminski et al, p. 24, pl. 3, figs. 1-2.
2002 *Cassidulina carinata* Silvestri, Avşar, p. 64, pl. 2, fig. 14.

Figure 53 a. Distribution of *Brizalina alata* (Seguenza) in the Eastern Aegean Sea, Turkish Coasts.

Figure 53 b. Distribution of *Brizalina spathulata* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 53 c. Distribution of *Brizalina striatula* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 53 d. Distribution of *Cassidulina carinata* Silvestri in the Eastern Aegean Sea, Turkish Coasts.



53 a



53 b



53 c



53 d

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 58 (60.00 m), S. 64 (75.00 m), S. 67 (550.00 m), S. 70 (13.00 m), S. 73 (600.00 m), S. 75 (42.00 m), S. 76 (53.00 m), S. 77 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m): this species occurs frequently in the northeastern Aegean Sea. It is reported frequently from infralittoral and upper circalittoral zones. It also occurs rarely in upper-lower epibathyal zones.

Genus *Globocassidulina* Voloshinova, 1960

Globocassidulina subglobosa (Brady)

(Pl. 21, fig. 2)

- 1884 *Cassidulina subglobosa*, Brady, p. 430, pl. 54, fig. 17 a-c.
1922b *Cassidulina subglobosa* Brady, Cushman, p. 127, pl. 24, fig. 6.
1958 *Cassidulina subglobosa* Brady, Parker, p. 272, pl. 4, fig. 13.
1972 *Cassidulina subglobosa* Brady, Rosset-Moulinier, p. 185, pl. 11, fig. 20.
1991 *Globocassidulina subglobosa* (Brady), Cimerman and Langer, p. 61, pl. 63, figs. 4-6.
1993 *Globocassidulina subglobosa* (Brady), Sgarella and Moncharmont-Zei, p. 236 and 238, pl. 24, figs. 1-2.
1994 *Globocassidulina subglobosa* (Brady), Hatta and Ujiie, p. 13, pl. 2, fig. 5.
2002 *Globocassidulina subglobosa* (Brady), Avşar, p. 64, pl. 2, fig. 15.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (48.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m): it occurs frequently in one of the sampled localities of northeastern Aegean Sea. This form is recorded mostly in infralittoral-upper circalittoral zones.

Superfamily TURRILINACEA Cushman, 1923

Family Stainforthiidae Reiss, 1963

Genus *Stainforthia* Hofker, 1956

Stainforthia complanata (Egger)

- 1937b *Virgulina complanata* Egger, Cushman, p. 26-27, pl. 4, figs. 13-17.
1958 *Virgulina complanata* Egger, Parker, p. 272, pl. 4, fig. 20.
1960 *Virgulina complanata* Egger, Hofker, p. 249, fig. 99.

- 1990 *Stainforthia complanata* (Egger), Galluzzo et al., pl. 2, fig. 12.
1993 *Stainforthia complanata* (Egger), Sgarella and Moncharmont-Zei, p. 214,
pl. 15, fig. 4.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 22 (45.00 m), S. 29 (50.00 m): this species is rare in the infralittoral zone.

Superfamily BULIMINACEA Jones, 1875
Family Siphogenerinoididae Saidova, 1981
Subfamily Tubulogenerininae Saidova, 1981
Genus *Rectuvigerina* Mathews, 1945
Rectuvigerina phlegeri Le Calvez
(Pl. 21, fig. 3)

- 1993 *Rectuvigerina phlegeri* Le Calvez, Sgarella and Moncharmont-Zei, p. 215,
pl. 16, figs. 3-4.
1995 *Rectuvigerina phlegeri* Le Calvez, Meriç et al., p. 109, pl. 7, figs. 4 a-c.
2002 *Rectuvigerina phlegeri* Le Calvez, Kaminski et al., p. 29, pl. 3, fig. 9.
2002 *Rectuvigerina phlegeri* Le Calvez, Avşar, p. 64, pl. 2, fig. 16.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 56 (41.00 m), S. 76 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m): this species occurs rarely, and is reported in infralittoral to upper epibathyal zones.

Subfamily Siphogenerinoidinae Saidova, 1981
Genus *Rectobolivina* Cushman, 1927
Rectobolivina columellaris (Brady)
(Pl. 21, figs. 4-5)

- 1884 *Sagrina columellaris*, Brady, p. 581-582, pl. 75, figs. 15-17.
1993 *Rectobolivina columellaris* (Brady), Sgarella and Moncharmont-Zei, p. 210,
pl. 14, fig. 6

Occurrence: Gulf of Saros, S. 74 (200.00 m): this species is very rare in the lower circalittoral zone.

Family Buliminidae Jones, 1875
Genus *Bulimina* d'Orbigny, 1826
Bulimina aculeata d'Orbigny

- 1826 *Bulimina aculeata*, d'Orbigny, p. 269, no. 7.
1922b *Bulimina aculeata* d'Orbigny, Cushman, p. 96, pl. 22, figs. 1-2.
1960 *Bulimina aculeata* d'Orbigny, Barker, pl. 51, figs. 7-9.
1970 *Bulimina aculeata* d'Orbigny, v. Daniels, p. 82, pl. 5, fig. 8.
1974 *Bulimina aculeata* d'Orbigny, Colom, p. 115, fig. 16 g.
1984 *Bulimina aculeata* d'Orbigny, Ross and Kennett, pl. 2, fig. 6.

- 1987 *Bulimina aculeata* d'Orbigny, Yanko and Troitskaja, pl. 24, fig. 4.
 1990 *Bulimina aculeata* d'Orbigny, Galluzzo et al., pl. 2, fig. 13.
 1991 *Bulimina aculeata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 211, pl. 15, fig. 1.
 2002 *Bulimina aculeata* d'Orbigny, Kaminski et al., p. 24, pl. 3, fig. 3.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 15 (47.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m): this species is rare, mostly in depth-range of between 47.00 m and 82.00 m, corresponding to the upper circalittoral zone.

Bulimina costata d'Orbigny
(Pl. 21, figs. 6-7)

- 1958 *Bulimina costata* d'Orbigny, Parker, p. 261, pl. 2, figs. 19-20.
 1984 *Bulimina costata* d'Orbigny, Ross and Kennett, pl. 2, fig. 5.
 1991 *Bulimina* cf. *alazaensis* Cushman, Cimerman and Langer, p. 62, pl. 64, figs. 1-2.
 1993 *Bulimina costata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 211, pl. 15, fig. 3.
 2002 *Bulimina costata* d'Orbigny, Kaminski et al., p. 24, pl. 3, figs. 5-6.
 2002 *Bulimina costata* d'Orbigny, Avşar, p. 64, pl. 2, figs. 17-18.

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 24 (386.00 m), S. 26 (631.00 m), S. 56 (41.00 m), S. 73 (600.00 m), S. 74 (200.00 m): this taxon occurs in depths deeper than 41.00 m. It is frequent between 200.00 m and 631.00 m, and recorded rarely in the infralittoral and frequently in upper-lower epibathyal zones.

Bulimina elongata d'Orbigny
(Pl. 21, figs. 8-9)

- 1846 *Bulimina elongata*, d'Orbigny, p. 187, pl. 11, figs. 19-20.
 1922b *Bulimina elongata* d'Orbigny, Cushman, p. 107.
 1960 *Bulimina elongata* d'Orbigny, Barker, pl. 51, figs. 1-2.
 1972 *Bulimina elongata* d'Orbigny, Rosset-Moulinier, p. 163, pl. 9, fig. 18.
 1974 *Bulimina elongata* d'Orbigny, Colom, p. 116, fig. 16 a.

Figure 54 a. Distribution of *Globocassidulina subglobosa* (Brady) in the Eastern Aegean Sea, Turkish Coasts.

Figure 54 b. Distribution of *Stainforthia complanata* (Egger) in the Eastern Aegean Sea, Turkish Coasts.

Figure 54 c. Distribution of *Rectuvigerina phlegeri* Le Calvez in the Eastern Aegean Sea, Turkish Coasts.

Figure 54 d. Distribution of *Rectobolivina columellaris* (Brady) in the Eastern Aegean Sea, Turkish Coasts.



54 a



54 b



54 c



54 d

- 1991 *Bulimina elongata* d'Orbigny, Cimerman and Langer, p. 62, pl. 64, figs. 3-8.
 1993 *Bulimina elongata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 211, pl. 15, figs. 10-11.
 1995 *Bulimina elongata* d'Orbigny, Meriç et al., p. 110, pl. 7, figs. 5 a-c.
 1999 *Bulimina elongata* d'Orbigny, Haywart et al., p. 132, pl. 9, figs. 6-7.
 2001 *Bulimina elongata* d'Orbigny, Debenay et al., pl. 4, fig. 9.
 2002 *Bulimina elongata* d'Orbigny, Kaminski et al., p. 24, pl. 3, fig. 4.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 11 (79.60 m), S. 13 (158.00 m), S. 15 (39.50 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 35 (195.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 48 (40.00 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 59 (98.00 m), S. 65 (61.00 m), S. 66 (65.00 m), S. 69 (72.00 m), S. 76 (53.00 m); Gökçeada, S. 25 (25.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 23 (58.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m): it occurs very frequently in infralittoral and upper circalittoral zones, and rarely in lower circalittoral-upper epibathyal zones.

Bulimina marginata d'Orbigny
(Pl. 21, fig. 10)

- 1826 *Bulimina marginata*, d'Orbigny, p. 269, pl. 12, figs. 10-12.
 1979 *Bulimina marginata* d'Orbigny, Hageman, p. 90, pl. 2, fig. 7.
 1981 *Bulimina marginata* d'Orbigny, Sejrup et al., pl. 1, fig. 8.
 1984 *Bulimina marginata* d'Orbigny, Ross and Kennett, pl. 2, fig. 7.
 1987 *Bulimina marginata* forma *marginata* d'Orbigny, Jorissen, p. 46, pl. 4, fig. 6 a and b.
 1988 *Bulimina marginata* forma *marginata* d'Orbigny, Jorissen, p. 75, pl. 4, fig. 6; pl. 12, figs. 7, 14-17; pl. 13, figs. 5, 10, 11, 13-15; pl. 14, figs. 1-3, 7, 9-11; pl. 15, figs. 1-2, 5-6.
 1990 *Bulimina marginata* d'Orbigny, Galluzzo et al., pl. 2, fig. 15.
 1991 *Bulimina marginata* d'Orbigny, Cimerman and Langer, p. 62, pl. 64, figs. 9-11.
 1993 *Bulimina marginata* d'Orbigny, Sgarella and Moncharmont-Zei, p. 212, pl. 15, figs. 5-7.
 1994 *Bulimina marginata* d'Orbigny, Loeblich and Tappan, p. 124, pl. 242, figs. 1-4.
 1995 *Bulimina marginata* d'Orbigny, Meriç et al., p. 109, pl. 7, fig. 6 a-d.
 2001 *Bulimina marginata* d'Orbigny, Debenay et al., pl. 4, fig. 11.
 2002 *Bulimina marginata* d'Orbigny, Avşar, p. 64, pl. 2, fig. 19.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 62 (110.00 m), S. 65 (61.00 m), S. 66 (65.00 m), S. 70 (13.00 m), S.

76 (53.00 m), S. 77 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 23 (58.00 m), S. 27 (70.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m): this species is frequent and occurs in depth-range of between 13.00 m and 334.50 m. It is common in infralittoral and upper circalittoral zones, and rare in the lower circalittoral zone. It is also reported from the upper epibathyal zone.

Genus *Globobulimina* Cushman, 1927
Globobulimina affinis (d'Orbigny)
(Pl. 21, figs. 11-12)

- 1839c *Bulimina affinis*, d'Orbigny, p. 105, pl. 2, figs. 25-26.
1958 *Globobulimina affinis* (d'Orbigny), Parker, p. 262, pl. 2, figs. 24-25.
1984 *Globobulimina affinis* (d'Orbigny), Ross and Kennett, pl. 1, fig. 13.
1993 *Globobulimina affinis* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 212, pl. 15, figs. 8-9.
2002 *Globobulimina affinis* (d'Orbigny), Kaminski et al., p. 26, pl. 3, fig. 8.

Occurrence: Gulf of Saros, S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.00 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 38 (53.40 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 48 (40.00 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 56 (41.00 m), S. 60 (55.00 m), S. 62 (110.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 74 (200.00 m), S. 75 (42.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 27 (70.00 m); Gulf of Edremit, S. 1 (334.50 m): it is abundant in various localities, generally in the northeastern part of Eastern Aegean Sea. This species occurs rarely in the infralittoral zone and is reported frequently in upper-lower circalittoral and upper-lower epibathyal zones.

Globobulimina pseudospinescens (Emiliani)
(Pl. 21, fig. 13; Pl. 22, fig. 1)

- 1958 *Globobulimina pseudospinescens* (Emiliani), Parker, p. 262, pl. 2, figs. 26-27.
1984 *Globobulimina pseudospinescens* (Emiliani), Ross and Kennett, pl. 1, fig. 12.
1993 *Globobulimina pseudospinescens* (Emiliani), Sgarella and Moncharmont-Zei, p. 212, pl. 15, fig. 12.

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m),

S. 53 (440.00 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 62 (110.00 m), S. 68 (210.00 m), S. 75 (42.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 10 (57.00 m): it is relatively frequent in the northeastern part of Aegean Sea. This species is rare in the infralittoral zone and common in lower circalittoral and upper epibathyal zones.

Family Uvigerinidae Haeckel, 1894
Subfamily Uvigerininae Haeckel, 1894
Genus *Euvigerina* Thalmann, 1953
Euvigerina sp.
(Pl. 21, figs. 2-3)

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 14 (84.00 m), S. 16 (71.10 m), S. 20 (92.00 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 28 (115.50 m), S. 59 (98.00 m), S. 62 (110.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 75 (42.00 m): it is frequently recorded in depth-range of between 42.00 m and 500.00 m in the Gulf of Saros. It is rare in upper-lower circalittoral and upper-lower epibathyal zones.

Genus *Uvigerina* d'Orbigny, 1826
Uvigerina mediterranea Hofker
(Pl. 22, figs. 4-5)

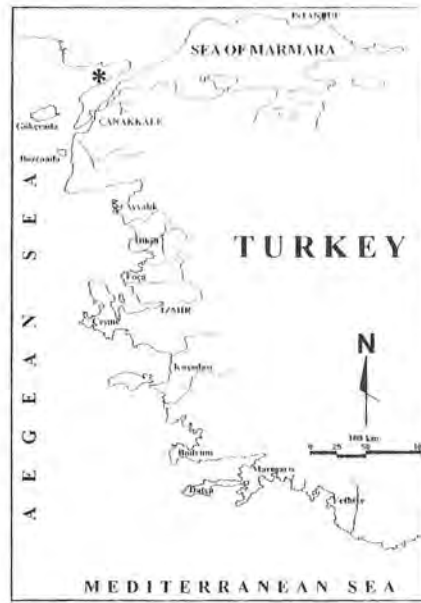
- 1932 *Uvigerina mediterranea*, Hofker, p. 1187, text-figs. 32 a-g.
1958 *Uvigerina mediterranea* Hofker, Parker, p. 263, pl. 2, figs. 39-40.
1974 *Uvigerina mediterranea* Hofker, Colom, p. 122, figs. 19 h-n.
1984 *Uvigerina mediterranea* Hofker, Ross and Kennett, pl. 2, figs. 1-2.
1987 *Uvigerina mediterranea* Hofker, Jorissen, pl. 1, fig. 2.
1991 *Uvigerina mediterranea* Hofker, Cimerman and Langer, p. 63, pl. 65, figs. 7-9.
1993 *Uvigerina mediterranea* Hofker, Sgarella and Moncharmont-Zei, p. 214, pl. 16, figs. 1-2.
1995 *Uvigerina* cf. *mediterranea* Hofker, Meriç et al., p. 109, pl. 8, fig. 3.
2002 *Uvigerina mediterranea* Hofker, Kaminski et al., p. 30, pl. 3, fig. 10.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m)

- Figure 55 a. Distribution of *Bulimina aculeata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
Figure 55 b. Distribution of *Bulimina costata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
Figure 55 c. Distribution of *Bulimina elongata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
Figure 55 d. Distribution of *Bulimina marginata* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



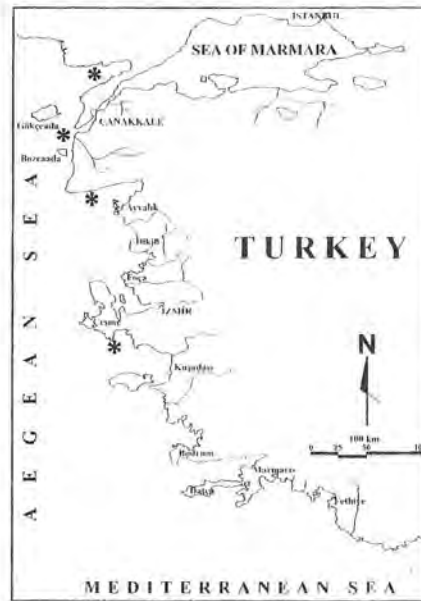
55 a



55 b



55 c



55 d

m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 53 (440.00 m), S. 62 (110.00 m), S. 63 (96.00 m), S. 66 (65.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 73 (600.00 m), S. 74 (200.00 m), S. 75 (42.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 17 (39.00 m), S. 26 (72.00 m), S. 31 (75.00 m); Gulf of Edremit, S. 1 (334.50 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m): this species is abundant in different localities of Eastern Aegean Sea. It occurs rarely in the infralittoral zone, and frequently from upper-lower circalittoral and upper epibathyal zones.

Uvigerina peregrina Cushman
(Pl. 22, fig. 6)

- 1923 *Uvigerina peregrina*, Cushman, p. 166, pl. 42, figs. 7-10.
1981 *Uvigerina peregrina* Cushman, Sejrup et al., pl. 2, fig. 12.
1984 *Uvigerina peregrina* Cushman, Ross and Kennett, pl. 2, figs. 3-4.
1990 *Uvigerina peregrina* Cushman, Galluzzo et al., p. 2, fig. 17.
1990 *Uvigerina peregrina* Cushman, Thomas et al., pl. 6, figs. 5-6.
1993 *Uvigerina peregrina* Cushman, Sgarella and Moncharmont-Zei, p. 215, pl. 16, fig. 5.
1995 *Uvigerina peregrina* Cushman, Meriç et al., p. 109, pl. 8, figs. 3 a, b.
2001 *Uvigerina peregrina* Cushman, Debenay et al., pl. 4, fig. 17.

Occurrence: Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m); Gulf of Daça, S. 1 (252.30 m), S. 8 (246.40 m): poorly recorded in depth-range of between 29.00 m and 252.30 m. It is reported rarely in the infralittoral zone. It also occurs generally in upper-lower circalittoral and upper epibathyal zones.

Subfamily Angulogerininae Galloway, 1933
Genus *Angulogerina* Cushman, 1927
Angulogerina angulosa (Williamson)
(Pl. 22, fig. 7)

- 1858 *Uvigerina angulosa*, Williamson, p. 67, pl. 5, fig. 140.
1958 *Angulogerina angulosa* (Williamson), Le Calvez, Y., p. 180.
1960 *Trifarina angulosa* (Williamson), Barker, pl. 74, figs. 15-16.

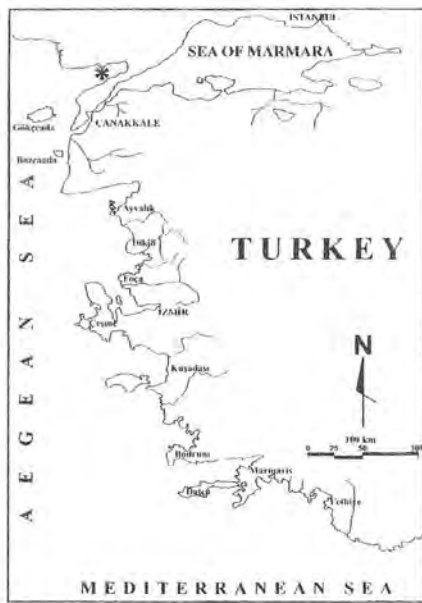
- Figure 56 a. Distribution of *Globobulimina affinis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
Figure 56 b. Distribution of *Globobulimina pseudospinescens* (Emiliani) in the Eastern Aegean Sea, Turkish Coasts.
Figure 56 c. Distribution of *Euuvigerina* sp. in the Eastern Aegean Sea, Turkish Coasts.
Figure 56 d. Distribution of *Uvigerina mediterranea* Hofker in the Eastern Aegean Sea, Turkish Coasts.



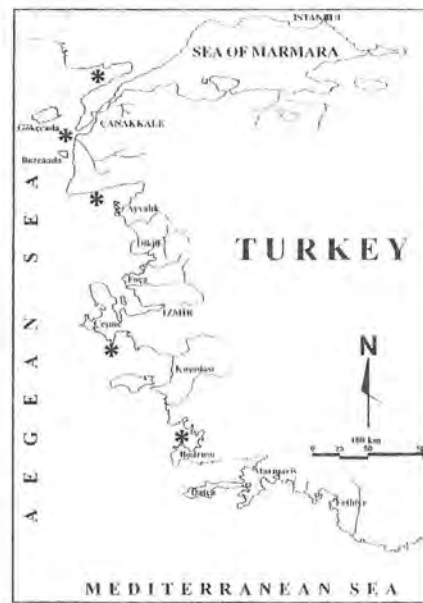
56 a



56 b



56 c



56 d

- 1970 *Trifarina angulosa* (Williamson), v. Daniels, p. 83, pl. 6, fig. 4.
 1979 *Trifarina angulosa* (Williamson), Alfirevic, p. 121, pl. 25, fig. 3.
 1988 *Angulogerina angulosa* (Williamson), Loeblich and Tappan, 1987, p. 525, pl. 574, figs. 5-9.
 1991 *Angulogerina angulosa* (Williamson), Cimerman and Langer, p. 63, pl. 66, figs. 3-4.
 1993 *Angulogerina angulosa* (Williamson), Sgarella and Moncharmont-Zei, p. 215, pl. 16, fig. 8.
 1994 *Angulogerina angulosa* (Williamson), Loeblich and Tappan, p. 128, pl. 250, figs. 13-20.
 2001 *Angulogerina angulosa* (Williamson), Debenay et al., pl. 4, fig. 15.
 2002 *Angulogerina angulosa* (Williamson), Avşar, p. 64, pl. 2, fig. 20.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 21 (47.00 m), S. 34 (38.00 m), S. 36 (82.00 m): its occurrence is always rare in infralittoral and upper circalittoral zones.

Family Reussellidae Cushman, 1933

Genus *Reussella* Galloway, 1933

Reussella spinulosa (Reuss)

(Pl. 22, fig. 8)

- 1850 *Verneuilina spinulosa*, Reuss, p. 374, pl. 47, fig. 12.
 1970 *Reussella spinulosa* (Reuss), v. Daniels, p. 83, pl. 6, fig. 2.
 1979 *Reussella spinulosa* (Reuss), Alfirevic, p. 117, pl. 25, fig. 2.
 1988 *Reussella spinulosa* (Reuss), Loeblich and Tappan, p. 527, pl. 575, figs. 9-12.
 1991 *Reussella spinulosa* (Reuss), Cimerman and Langer, p. 63, pl. 66, figs. 5-8.
 1993 *Reussella spinulosa* (Reuss), Sgarella and Moncharmont-Zei, p. 214, pl. 15, fig. 14.
 1999 *Reussella spinulosa* (Reuss), Hayward et al., p. 135, pl. 9, fig. 28.
 2002 *Reussella spinulosa* (Reuss), Avşar, p. 64, pl. 2, fig. 21.

Occurrence: Gulf of Saros, S. 9 (71.80 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 70 (13.00 m); Gökçeada, S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m); Gulf of Datca, S. 2 (45.00 m): it is abundant in depth-range of between 11.00 m and 82.00 m and reported generally from infralittoral and upper circalittoral zones.

Superfamily FURSENKOINACEA Loeblich and Tappan, 1961

Family Fursenkoinidae Loeblich and Tappan, 1961

Genus *Fursenkoina* Loeblich and Tappan, 1961

Fursenkoina acuta (d'Orbigny)

(Pl. 22, fig. 9)

- 1846 *Polymorphina acuta*, d'Orbigny, p. 234, pl. 13, figs. 4-5.
1848 *Virgulina schreibersiana*, Czjzek, p. 147, pl. 13, figs. 18-21.
1971 *Fursenkoina schreibersiana* (Czjzek), Murray, p. 185, pl. 77, figs. 6-10.
1972 *Virgulina schreibersiana* Czjzek, Rosset-Moulinier, p. 184.
1985 *Fursenkoina acuta* (d'Orbigny), Papp and Schmid, p. 82, pl. 75, figs. 1-6.
1991 *Fursenkoina acuta* (d'Orbigny), Cimerman and Langer, p. 64, pl. 67, figs. 1-2.
1993 *Fursenkoina acuta* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 235, pl. 23, fig. 7.
2002 *Fursenkoina acuta* (d'Orbigny), Kaminski et al., p. 26, pl. 3, figs. 11-12.

Occurrence: Gulf of Saros, S. 55 (22.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 10 (57.00 m), S. 11 (63.00 m), S. 15 (47.00 m), S. 23 (58.00 m), S. 28 (39.00 m), S. 34 (38.00 m): this species is poorly recorded in depth-range of between 22.00 m and 63.00 m in two localities. It is reported from infralittoral and upper circalittoral zones.

Order ROTALIIDA Lankester, 1885

Superfamily DISCORBACEA Ehreneweg, 1838

Family Bagginidae Cushman, 1927

Subfamily Baggininae Cushman, 1927

Genus *Cancris* de Montfort, 1808

Cancris sagra (d'Orbigny)

(Pl. 22, fig. 10)

- 1995 *Cancris* cf. *sagra* (d'Orbigny), Meric et al., p. 109, pl. 8, fig. 6.

Occurrence: Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 18 (29.00 m): it occurs poorly in three localities of the Gulf of Edremit and is reported poorly in infralittoral and upper epibathyal zones.

Figure 57 a. Distribution of *Uvigerina peregrina* Cushman in the Eastern Aegean Sea, Turkish Coasts.

Figure 57 b. Distribution of *Angulogerina angulosa* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 57 c. Distribution of *Reussella spinulosa* (Reuss) in the Eastern Aegean Sea, Turkish Coasts.

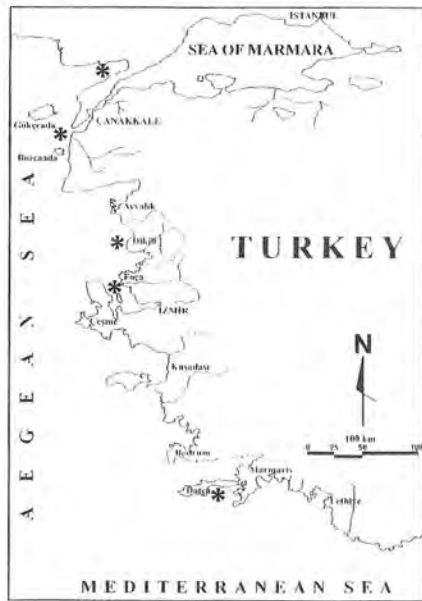
Figure 57 d. Distribution of *Fursenkoina acuta* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



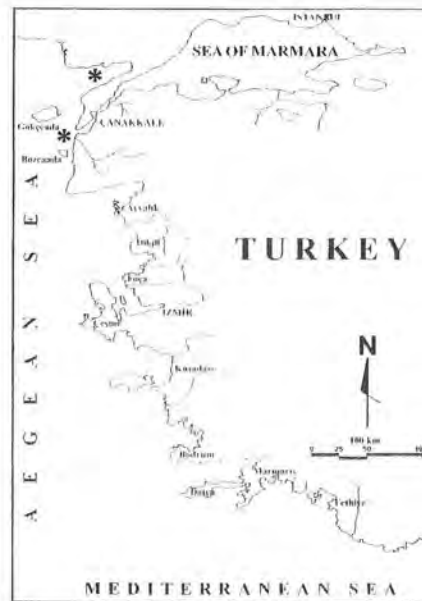
57 a



57 b



57 c



57 d

Genus *Valvulineria* Cushman, 1926
Valvulineria bradyana (Fornasini)
(Pl. 22, figs. 11-12)

- 1900 *Discorbina bradyana*, Fornasini, p. 393, text-fig. 43.
1982 *Valvulineria bradyana* (Fornasini), Agip, pl. 39, figs. 3 d, p, v.
1988 *Valvulineria bradyana* (Fornasini), Jorissen, p. 26, pl. 4, figs. 1-2.
1991 *Valvulineria bradyana* (Fornasini), Cimerman and Langer, p. 64, pl. 67, figs. 8-10.
1993 *Valvulineria bradyana* (Fornasini), Sgarella and Moncharmont-Zei, p. 220, pl. 18, figs. 1-2.
1995 *Valvulineria bradyana* (Fornasini), Meriç et al., p. 109, pl. 8, figs. 7 a-b.
2002 *Valvulineria bradyana* (Fornasini), Avşar, p. 64, pl. 2, figs. 22-23.

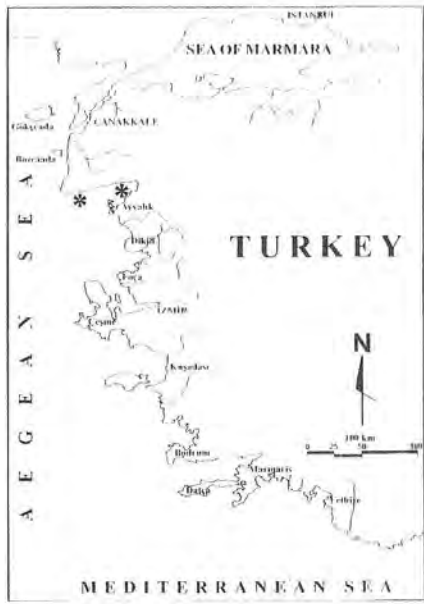
Occurrence: Gulf of Saros, S. 1 (27.00 m), S. 2 (15.50 m), S. 3 (34.80 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 25 (188.00 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 49 (45.00 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 65 (61.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 75 (42.00 m), S. 76 (53.00 m), S. 77 (53.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 32 (46.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 13 (31.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m), S. 10 (22.50 m), S. 12 (25.50 m), S. 13 (80.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m); Gulf of Gökova, S. 8 (78.30 m), Marmaris Bay, S. 1 (106.40 m), S. 8 (69.00 m): it is abundant in the depth-range of between 12.30 m and 334.50 m and reported mostly in infralittoral and upper circalittoral zones. It is rare in lower circalittoral-upper epibathyal zones.

Figure 58 a. Distribution of *Canceris sagra* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 58 b. Distribution of *Valvulineria bradyana* (Fornasini) in the Eastern Aegean Sea, Turkish Coasts.

Figure 58 c. Distribution of *Eponides concameratus* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

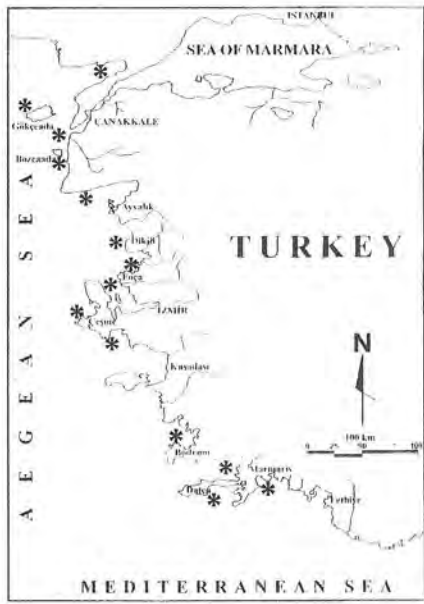
Figure 58 d. Distribution of *Planopulvinulina dispansa* (Brady) in the Eastern Aegean Sea, Turkish Coasts.



58 a



58 b



58 c



58 d

Family Eponididae Hofker, 1951
Subfamily Eponininae Hofker, 1951
Genus *Eponides* de Montfort, 1808
Eponides concameratus (Williamson)
(Pl. 22, figs. 13-14)

- 1858 *Rotalina concamerata*, Williamson, p. 52, pl. 4, figs. 101-102.
1960 *Eponides repandus* var. *concamerata* (Williamson), Barker, pl. 104, fig. 19.
1979 *Eponides repanda* var. *concamerata* (Williamson), Blanc-Vernet et al., p. 199, figs. 24-25.
1984 *Eponides repandus* (Fichtel and Moll), Rögl and Hansen, pl. 3, fig. 4; pl. 4, figs. 1-2.
1991 *Eponides concameratus* (Williamson), Cimerman and Langer, p. 64, pl. 67, figs. 11-14.
1993 *Eponides repandus* var. *concamerata* (Williamson), Sgarella and Moncharmont-Zei, p. 232, pl. 22, figs. 4-5.
2002 *Eponides concameratus* (Williamson), Avşar, p. 64, pl. 2, figs. 24-25.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 14 (84.00 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 28 (115.50 m), S. 30 (90.50 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 42 (27.50 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 63 (96.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m), S. 32 (16.00 m); Bozcaada, S. 3 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 3 (59.60 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 25 (74.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 6 (65.00 m), S. 7 (198.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m); this species occurs very abundantly in Eastern Aegean Sea. It is reported mostly in infralittoral-upper circalittoral zones and rarely from lower circalittoral-upper epibathyal zones.

Subfamily Sestronophorinae Saidova, 1981

Genus *Planopulvinulina* Schubert, 1921

Planopulvinulina dispansa (Brady)

(Pl. 23, figs. 1-2)

- 1884 *Pulvinulina dispansa*, Brady, p. 687, pl. 115, fig. 3.
1987 *Planopulvinulina dispansa* (Brady), Loeblich and Tappan, p. 551, pl. 597, figs. 1-10.
1991 *Planopulvinulina dispansa* (Brady), Cimerman and Langer, p. 65, pl. 69, figs. 1-3.
1994 *Planopulvinulina dispansa* (Brady), Loeblich and Tappan, p. 136, pl. 271, figs. 4-11.

Occurrence: Gulf of Saros, S. 51 (12.30 m): its occurrence is always very rare in the infralittoral zone.

Family Mississippinidae Saidova, 1981

Subfamily Stomatorbinae Saidova, 1981

Genus *Stomatorbina* Doreen, 1948

Stomatorbina concentrica (Parker and Jones)

(Pl. 23, figs. 3-4)

- 1864 *Pulvinulina concentrica* Parker and Jones, Brady, p. 470, pl. 48, figs. 14 a and b.
1931a *Eponides concentrica* Parker and Jones, Cushman, p. 43, pl. 9, fig. 4.
1960 *Mississippina concentrica* (Parker and Jones), Barker, pl. 105, figs. 1 a-c.
1974 *Stomatorbina concentrica* (Parker and Jones), Colom, p. 173, figs. 44 q-u.
1991 *Stomatorbina concentrica* (Parker and Jones), Cimerman and Langer, p. 65, pl. 68, figs. 7-9.
1992 *Stomatorbina concentrica* (Parker and Jones), Hatta and Ujiie, p. 180, pl. 30, figs. 5a-c.
1993 *Stomatorbina concentrica* (Parker and Jones), Sgarella and Moncharmont-Zei, p. 232, pl. 26, figs. 9-10.
1994 *Stomatorbina concentrica* (Parker and Jones), Loeblich and Tappan, p. 136, pl. 273, figs. 1-7.
1995 *Stomatorbina concentrica* (Parker and Jones), Meriç et al., p. 109, pl. 8, figs. 8 a-b.
1999 *Stomatorbina concentrica* (Parker and Jones), Hayward et al., p. 139, pl. 10, figs. 7-8.

Occurrence: Gulf of Saros, S. 35 (195.00 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 62 (110.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 17 (4.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 22 (45.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 31 (75.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m); Gulf of

Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 3 (139.50 m); Marmaris Bay, S. 1 (106.40 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m): this species is relatively frequent in Eastern Aegean Sea. It is reported generally from infralittoral and upper circalittoral zones. It also occurs rarely in lower circalittoral-upper epibathyal zones.

Stomatorbina sp.
(Pl. 23, figs. 5-8)

1992 *Stomatorbina* sp., Hatta and Ujii, p. 181, pl. 30, figs. 6 a-c.

Occurrence: Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m): it is rare in upper and lower circalittoral zones.

Family Neoeponididae Loeblich and Tappan, 1994

Genus *Neoeponides* Reiss, 1960

Neoeponides bradyi Le Calvez

(Pl. 24, figs. 1-4)

1884 *Pulvinulina berthelotiana* (d'Orbigny), Brady, p. 701, pl. 106, fig. 1.

1960 *Eponides berthelotianus* (d'Orbigny), Barker, pl. 106, fig. 1.

1974 *Eponides bradyi* Le Calvez, Le Calvez, p. 63.

1984 *Neoeponides bradyi* Le Calvez, Rögl and Hansen, p. 33, pl. 7, figs. 1-6.

1990 *Neoeponides bradyi* Le Calvez, Hottinger et al., p. 336, pl. 1, figs. 1-5.

1993 *Neoeponides bradyi* Le Calvez, Hottinger et al., p. 112-113, pl. 146, figs. 8-12; pl. 147, figs. 1-3.

1994 *Neoeponides bradyi* Le Calvez, Loeblich and Tappan, p. 138, pl. 279, figs. 1-9.

2002 *Neoeponides bradyi* Le Calvez, Avşar, p. 64, pl. 3, figs. 1-2.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m), S. 55 (22.00 m), S. 64 (75.00 m), S. 77 (53.00 m); Gökçeada, S. 3 (0.50 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 20 (3.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 5 (125.00 m), S. 7 (19.00 m), S. 8 (49.30 m), S. 10 (49.60 m), S. 14 (37.70 m), S. 17 (47.30 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m); Gulf of Izmir and vicinity of

Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 8 (69.00 m): it is abundant in the different localities of Eastern Aegean Sea, and is reported mostly from infralittoral to upper circalittoral zones. It occurs rarely in lower circalittoral and upper epibathyal zones.

Family Rosalinidae Reiss, 1963

Genus *Gavelinopsis* Hofker, 1951

Gavelinopsis praegeri (Heron-Allen and Earland)

- 1913 *Discorbina praegeri*, Heron-Allen and Earland, p. 122, pl. 10, figs. 8-10.
1958 *Gavelinopsis praegeri* (Heron-Allen and Earland), Parker, p. 264, pl. 3, figs. 24-25.
1960 *Gavelinopsis praegeri* (Heron-Allen and Earland), Hofker, p. 252, fig. 114.
1972 *Gavelinopsis praegeri* (Heron-Allen and Earland), Rosset-Moulinier, p. 167, pl. 9, figs. 27-28.
1988 *Gavelinopsis praegeri* (Heron-Allen and Earland), Loeblich and Tappan, p. 560, pl. 608, figs. 6-12.
1991 *Gavelinopsis praegeri* (Heron-Allen and Earland), Cimerman and Langer, p. 66, pl. 70, figs. 3-4.
1993 *Gavelinopsis praegeri* (Heron-Allen and Earland), Sgarella and Moncharmont-Zei, p. 218, pl. 17, figs. 1-2.
1994 *Gavelinopsis praegeri* (Heron-Allen and Earland), Loeblich and Tappan, p. 138, pl. 281, figs. 1-10.
1999 *Gavelinopsis praegeri* (Heron-Allen and Earland), Hayward et al., p. 140, pl. 10, figs. 15-17.
2001 *Gavelinopsis praegeri* (Heron-Allen and Earland), Debenay et al, pl. 5, figs. 3-4.
2002 *Gavelinopsis praegeri* (Heron-Allen and Earland), Avşar, p. 64, pl. 3, figs. 3-4.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m).

Figure 59 a. Distribution of *Stomatorbina concentrica* (Parker and Jones) in the Eastern Aegean Sea, Turkish Coasts.

Figure 59 b. Distribution of *Stomatorbina* sp. in the Eastern Aegean Sea, Turkish Coasts.,

Figure 59 c. Distribution of *Neoeponides bradyi* Le Calvez in the Eastern Aegean Sea, Turkish Coasts.

Figure 59 d. Distribution of *Gavelinopsis praegeri* (Heron-Allen and Earland) in the Eastern Aegean Sea, Turkish Coasts.



59 a



59 b



59 c



59 d

m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m): it is relatively frequent in Eastern Aegean Sea, and is reported generally from the infralittoral and upper circalittoral zones.

Genus *Neoconorbina* Hofker, 1951

Neoconorbina terquemi (Rzehak)

(Pl. 24, figs. 5-6)

- 1876 *Rosalina orbicularis*, Terquem, p. 75, pl. 9, figs. 4 a, b.
1888 *Disorbina terquemi*, Rzehak, p. 228.
1958 *Disorbis orbicularis* (Terquem), Le Calvez, Y., p. 183.
1958 *Neoconorbina terquemi* (Rzehak), Parker, p. 267, pl. 3, figs. 26-27.
1972 *Neoconorbina terquemi* (Rzehak), v. Daniels, p. 186, pl. 9, figs. 29-30.
1974 *Disorbis orbicularis* (Terquem), Colom, p. 125, fig. 21 k.
1988 *Neoconorbina terquemi* (Rzehak), Loeblich and Tappan, p. 560, pl. 609, figs. 8-10.
1991 *Neoconorbina terquemi* (Rzehak), Cimerman and Langer, p. 66, pl. 70, figs. 5-7.
1993 *Neoconorbina terquemi* (Rzehak), Sgarella and Moncharmont-Zei, p. 218, pl. 17, fig. 3.
1994 *Neoconorbina terquemi* (Rzehak), Loeblich and Tappan, p. 139, pl. 284, figs. 1-12.
2001 *Neoconorbina terquemi* (Rzehak), Debenay et al., pl. 5, figs. 7-8.
2002 *Neoconorbina terquemi* (Rzehak), Avşar, p. 64, pl. 3, figs. 5-6.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 44 (26.20 m), S. 72 (500.00 m); Gökçeada, S. 24 (68.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 9 (72.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 8 (29.00 m), S. 11 (47.00 m); Gulf of Gökova, S. 3 (80.40 m), S. 4 (46.20 m), S. 6 (65.00 m); Marmaris Bay, S. 3 (98.30 m), S. 8 (69.00 m): It occurs always frequently in Eastern Aegean Sea, and is reported generally from infralittoral to upper circalittoral zones. It is rare in lower circalittoral-lower epibathyal zones.

Genus *Rosalina* d'Orbigny, 1826

Rosalina bradyi Cushman

(Pl. 24, figs. 7-8)

- 1884 *Discorbina globularis*, Brady, p. 178, pl. 86, figs. 8 a-c.
1915 *Discorbis globularis* (d'Orbigny) var. *bradyi*, Cushman, p. 12.
1951 *Discopulvinulina bradyi* (Cushman), Hofker, p. 452, figs. 310 a, b.
1960 *Rosalina bradyi* (Cushman), Barker, pl. 86, figs. 8 a-c.
1954 *Rosalina bradyi* (Cushman), Hornibrook and Vella, p. 26.
1991 *Rosalina bradyi* (Cushman), Cimerman and Langer, p. 66, pl. 71, figs. 1-5.
1993 *Rosalina bradyi* (Cushman), Sgarella and Moncharmont-Zei, p. 218, pl. 17, figs. 4-5.
1994 *Rosalina bradyi* (Cushman), Hatta and Ujiie, p. 14, pl. 3, fig. 4.
1995 *Rosalina bradyi* (Cushman), Meriç et al., p. 109, pl. 8, fig. 9 a-b.
1999 *Rosalina bradyi* (Cushman), Hayward et al., p. 142, pl. 11, figs. 1-3.
2001 *Rosalina bradyi* (Cushman), Debenay et al., pl. 5, fig. 1 and 2.
2002 *Rosalina bradyi* (Cushman), Avşar, p. 64, pl. 3, figs. 7-8.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 13 (156.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 20 (92.00 m), S. 24 (386.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 30 (90.50 m), S. 33 (70.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 57 (52.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 19 (40.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 12 (0.50 m), S. 14 (0.50 m), S. 16 (0.50 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 4 (85.50 m), S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 17 (47.40 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11

(47.00 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m); it occurs abundantly in Eastern Aegean Sea and is reported generally abundant from infralittoral and upper circalittoral zones. It is rare in lower circalittoral, upper-lower epibathyal zones.

Rosalina floridensis (Cushman)

(Pl. 24, figs. 9-10)

- 1922b *Discorbis floridana*, Cushman, p. 39, pl. 5, figs. 11-12.
1931 *Rosalina bertheloti* (d'Orbigny) var. *floridensis*, Cushman, p. 17, pl. 3, figs. 5 a-c.
1960 *Discopulvinulina bertheloti* (d'Orbigny), Hofker, p. 253, pl. 4, figs. 127 a-c.
1991 *Rosalina floridensis* (Cushman), Cimerman and Langer, p. 67, pl. 70, figs. 8-10.
1993 *Rosalina floridana* (Cushman), Sgarella and Moncharmont-Zei, p. 218-219, pl. 17, fig. 6.

Occurrence: Gulf of Saros, S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m); Gökçeada, S. 15 (3.00 m), S. 16 (4.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakakale triangle, S. 2 (32.40 m), S. 5 (137.50 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 15 (83.70 m), Gulf of Datça, S. 4 (40.00 m), S. 5 (59.30 m). This species is frequent. It is reported frequently in infralittoral and upper circalittoral zones, however, it is rare in lower circalittoral and upper epibathyal zones.

Rosalina globularis d'Orbigny

(Pl. 24, fig. 11)

- 1826 *Rosalina globularis*, d'Orbigny, p. 271, pl. 13, figs. 1-4.
1990 *Rosalina globularis* d'Orbigny, Galluzzo et al., pl. 2, figs. 29-30.
1993 *Rosalina globularis* d'Orbigny, Sgarella and Moncharmont-Zei, p. 219, pl. 17, figs. 7-8.
1994 *Rosalina globularis* d'Orbigny, Loeblich and Tappan, p. 140, pl. 286, figs. 7-15.
2001 *Rosalina globularis* d'Orbigny, Debenay et al., pl. 5, fig. 13.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 63 (96.00 m), S. 65 (61.00 m), S. 76 (53.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 11 (0.50 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 23 (10.00 m), S. 30 (3.00 m); Bozcaada, S. 3

(0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 5 (137.50 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 31 (71.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 2 (100.40 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 13 (80.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 4 (40.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 5 (34.50 m); Gulf of Datça, S. 5 (59.30 m): this species occurs abundantly in different gulfs of Eastern Aegean Sea. It is common in infralittoral and upper circalittoral zones and is reported rarely from lower circalittoral and upper epibathyal zones.

Rosalina macropora (Hofker)

- 1951 *Discopulvinulina macropora*, Hofker, p. 460, figs. 312-313.
 1960 *Discopulvinulina macropora*, Hofker, p. 253, pl. D, figs. 122 a-c.
 1987 *Rosalina globularis semiporata* (Egger), Wenger, p. 305, pl. 15, figs. 10-12.
 1991 *Rosalina macropora* (Hofker), Cimerman and Langer, p. 67, pl. 71, figs. 6-7.

Occurrence: Gulf of Saros, S. 17 (33.90 m), S. 18 (88.10 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 29 (50.00 m), S. 34 (38.00 m): its occurrence is always rare and is reported from infralittoral and upper circalittoral zones.

Rosalina obtusa d'Orbigny
 (Pl. 24, fig. 12; Pl. 25, figs. 1-3)

- 1846 *Rosalina obtusa*, d'Orbigny, p. 179, pl. 11, figs. 4-6.
 1985 *Rosalina obtusa* d'Orbigny, Papp and Schmid, p. 67-68, pl. 61, figs. 7-12.
 1987 *Rosalina bradyi* (Cushman), Jorissen, pl. 3, figs. 6 a-b.
 1991 *Rosalina bradyi* (Cushman), Cimerman and Langer, p. 66, pl. 71, figs. 1-5.
 1993 *Rosalina obtusa* d'Orbigny, Sgarella and Moncharmont-Zei, p. 219, pl. 17, figs. 9-10.

Occurrence: Gulf of Datça, S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 2

- Figure 60 a. Distribution of *Neoconorbina terquemi* (Rzehak) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 60 b. Distribution of *Rosalina bradyi* Cushman in the Eastern Aegean Sea, Turkish Coasts.
 Figure 60 c. Distribution of *Rosalina floridensis* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 60 d. Distribution of *Rosalina globularis* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.



60 a



60 b



60 c



60 d

(79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 6 (64.00 m); it is generally very rare in infralittoral and upper circalittoral zones.

Genus *Pararosalina* McCulloch, 1977
Pararosalina dimorphaformis McCulloch
(Pl. 25, figs. 4-6)

1977 *Pararosalina dimorphaformis* McCulloch, p. 336, pl. 121, fig. 7
2002a *Pararosalina dimorphaformis* McCulloch, Meriç et al., pl. 3, figs. 5a and b.

Occurrence: Gulf of Saros, Harmantaşı, Line II, S. 4 (25.00 m); Line IV, S. 1 (10.00 m), S. 3 (35.00 m), S. 10 (100.00 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 10 (0.50 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m); Gulf of İzmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 5 (137.00 m), S. 6 (45.60 m); Gulf of Gökova, S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 5 (59.30 m); Marmaris Bay, S. 8 (69.00 m); this species occurs rarely in the infralittoral zone to upper-lower circalittoral zones.

Genus *Tretomphalus* Möbius, 1880
Tretomphalus bulloides (d'Orbigny)
(Pl. 25, figs. 7-9)

1839a *Rosalina bulloides*, d'Orbigny, p. 98, pl. 3, figs. 2-5.
1977b *Tretomphalus bulloides* (d'Orbigny), Le Calvez, p. 80, pl. 10, figs. 1, 6-8.
1985 *Rosalina (Tretomphalus) bulloides* (d'Orbigny), Banner et al., p. 164, pl. 1, figs. 1-5.
1988 *Tretomphalus bulloides* (d'Orbigny), Loeblich and Tappan, p. 262, pl. 612, figs. 1-11.
1991 *Tretomphalus bulloides* (d'Orbigny), Cimerman and Langer, p. 67, pl. 72, figs. 3-5.
1992 *Tretomphalus bulloides* (d'Orbigny), Hatta and Ujiie, p. 183-184, pl. 33, figs. 3a-c.
1993 *Tretomphalus concinnus* (Brady), Sgarella and Moncharmont-Zei, p. 219, pl. 17, figs. 11-12.
1993 *Tretomphalus bulloides* (d'Orbigny), Hottinger et al., p. 112, pl. 146, figs.

Figure 61 a. Distribution of *Rosalina macropora* (Hofker) in the Eastern Aegean Sea, Turkish Coasts.

Figure 61 b. Distribution of *Rosalina obtusa* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 61 c. Distribution of *Pararosalina dimorphaformis* McCulloch in the Eastern Aegean Sea, Turkish Coasts.

Figure 61 d. Distribution of *Tretomphalus bulloides* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.



61 a



61 b



61 c



61 d

1-7.

Occurrence: Gökçeada, S. 5 (0.50 m), S. 7 (0.50 m), S. 9 (0.50 m), S. 21 (15.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 29 (11.00 m); this species is rare and occurs in the depth-range of between 0.50 m and 68.00 m. It is reported as more frequent in the infralittoral zone and rare in the upper circalittoral zone.

Superfamily GLABRATELLACEA Loeblich and Tappan, 1964

Family Glabratellidae Loeblich and Tappan, 1964

Genus *Conorbella* Hofker, 1951

Conorbella erecta (Sidebottom)

1908 *Discorbina erecta*, Sidebottom, p. 16, pl. 5, figs. 6-7.

1991 *Conorbella erecta* (Sidebottom), Cimerman and Langer, p. 68, pl. 72, figs. 6-8.

2001 *Conorbella erecta* (Sidebottom), Avşar and Ergin, p. 759 and 766

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 34 (38.00 m); its occurrence is always rare in the infralittoral zone.

Conorbella imperatoria (d'Orbigny)

(Pl. 25, figs. 10-11)

1846 *Rosalina imperatoria*, d'Orbigny, p. 176, pl. 190, figs. 16-18.

1908 *Discorbina imperatoria* (d'Orbigny), Sidebottom, p. 13, pl. 5, figs. 1-2.

1985 *Schackoinella imperatoria* (d'Orbigny), Papp and Schmid, p. 226, pl. 60, figs. 2-5.

1991 *Conorbella imperatoria* (d'Orbigny), Cimerman and Langer, p. 68, pl. 72, figs. 9-11.

2002 *Conorbella imperatoria* (d'Orbigny), Avşar, p. 64, pl. 3, figs. 9-10.

Occurrence: Gulf of Saros, Harmantaşı, Line I, S. 11 (70.00 m) and S. 12 (80.00 m); Gökçeada, S. 11 (0.50 m), S. 16 (4.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Gökova, S. 1 (42.00 m); Marmaris Bay, S. 3 (98.30 m), S. 7 (29.90 m); its depth-range is between 0.50 m and 98.30 m and is reported from the infralittoral zone to upper circalittoral zone.

Genus *Planoglabratella* Sciglie and Bermudez, 1965

Planoglabratella opercularis (d'Orbigny)

(Pl. 26, figs. 1-6)

1839a *Rosalina opercularis*, d'Orbigny, p. 93, pl. 3, figs. 24-25; pl. 4, fig. 11.

1974 *Glabratella obtusa opercularis* (d'Orbigny), Colom, fig. 22 h-o.

- 1993 *Planoglabratella opercularis* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 222, pl. 19, figs. 4-5.
 1994 *Planoglabratella opercularis* (d'Orbigny), Hatta and Ujiie, p. 15, pl. 4, figs. 2-3.
 2002 *Planoglabratella opercularis* (d'Orbigny), Avşar, p. 64, pl. 3, figs. 11-13.

Occurrence: Gulf of Saros; S. 39 (37.70 m), S. 52 (61.10 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 5 (137.50 m), S. 16 (47.00 m), S. 18 (69.00 m), S. 21 (47.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 34 (38.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 8 (35.80 m), S. 9 (49.00 m); Gulf of Kuşadası and Güllük Bay, S. 6 (45.60 m), S. 8 (29.00 m), S. 10 (66.40 m); Gulf of Gökova, S. 4 (46.20 m), S. 5 (34.50 m); this species is relatively frequent in infralittoral and uppercircalittoral zones. It is rare in the lower circalittoral zone.

Superfamily SIPHONINACEA Cushman, 1927

Family Siphoninidae Cushman, 1927

Subfamily Siphoninae Cushman, 1927

Genus Siphonina Reuss, 1850

Siphonina reticulata (Czjzek)

(Pl. 26, fig. 7)

- 1848 *Rotalina reticulata*, Czjzek, p. 145, pl. 13, figs. 7-9.
 1850 *Siphonina fimbriata*, Reuss, p. 372, pl. 47, fig. 6.
 1931 *Siphonina reticulata* (Czjzek), Cushman, p. 68, pl. 14, figs. 1 a-c.
 1958 *Siphonina reticulata* (Czjzek), Parker, p. 273, pl. 4, fig. 25.
 1960 *Siphonina reticulata* (Czjzek), Holker, p. 257, figs. 151-152.
 1971 *Siphonina reticulata* (Czjzek), Murray, p. 139, pl. 58, figs. 5-7.
 1988 *Siphonina reticulata* (Czjzek), Loeblich and Tappan, p. 571, pl. 624, figs. 4-6.
 1991 *Siphonina reticulata* (Czjzek), Cimerman and Langer, p. 69, pl. 73, figs. 11-13.
 1993 *Siphonina reticulata* (Czjzek), Sgarella and Moncharmont-Zei, p. 222 and 224, p. 19, figs. 7-8.

Occurrence: Gulf of Saros, S. 18 (88.10 m); Harmantaşı, Line I, S. 2 (15.00 m); Line II, S. 2 (15.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 9 (72.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 35 (80.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m), S. 8 (29.00 m), S.

Figure 62 a. Distribution of *Conorbella erecta* (Sidebottom) in the Eastern Aegean Sea, Turkish Coasts.

Figure 62 b. Distribution of *Conorbella imperatoria* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 62 c. Distribution of *Planoglabratella opercularis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

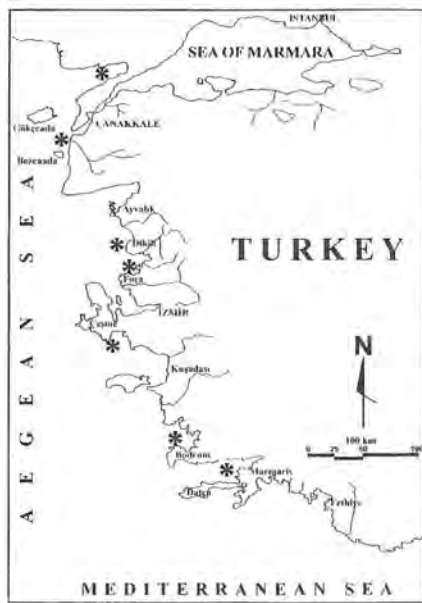
Figure 62 d. Distribution of *Siphonina reticulata* (Czjzek) in the Eastern Aegean Sea, Turkish Coasts.



62 a



62 b



62 c



62 d

10 (66.40 m): this species is rare and its depth-range is between 15.00 m and 137.50 m. It is mostly recorded in infralittoral and upper circalittoral zones. It is also present rarely in the lower circalittoral zone.

Superfamily DISCORBINELLECEA Sigal, 1952

Family Parreloididae Hofker, 1956

Genus *Cibicoides* Thalmann, 1939

Cibicoides pachyderma (Rzehak)

(Pl. 26, figs. 8-9)

1974 *Cibicoides pseudoungerianus* Cushman, Colom, p. 149, fig. 31 g-i.

1993 *Cibicoides pachyderma* (Rzehak), Sgarrella and Moncharmont-Zei, p. 241 and 242, pl. 25, figs. 12-13.

Occurrence: Gulf of Saros; S. 7 (90.00 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 59 (98.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 74 (200.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Datça, S. 1 (252.30 m), S. 4 (40.00 m), S. 9 (147.00 m); Marmaris Bay, S. 5 (128.80 m); its occurrence is always frequent. This species recorded rarely in the infralittoral zone. It is reported frequently from upper-lower circalittoral and upper epibathyal zones. It is very rare in the lower epibathyal zone.

Cibicoides pseudoungerianus (Cushman)

(Pl. 26, fig. 10)

1884 *Truncatulina ungeriana* (d'Orbigny), Brady, p. 664, pl. 94, figs. 9 a-c.

1931 *Cibicoides pseudoungeriana* (Cushman), Cushman, p. 123, pl. 22, figs. 3-7.

1960 *Cibicoides pseudoungerianus* (Cushman), Barker, p. 194, pl. 94, figs. 9 a-c.

1991 *Cibicoides pseudoungerianus* (Cushman), Cimerman and Langer, p. 69, pl. 74, figs. 2-3.

Occurrence: Gulf of Saros, S. 23 (383.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 40 (77.30 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 74 (200.00 m), S. 75 (42.00 m), S. 80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 18 (69.00 m), S. 19 (73.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 31 (75.00 m); Gulf of Gökova, S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 9 (147.00 m); Marmaris Bay, S. 5 (128.80 m); this species occurs rarely in the infralittoral zone. It is reported generally from upper and lower circalittoral zones. It also occurs frequently in the upper epibathyal zone.

Family Discorbinellidae Sigal, 1952
Subfamily Discorbinellinae Sigal, 1952
Genus *Discorbinella* Cushman and Martin, 1935
Discorbinella bertheloti (d'Orbigny)
(Pl. 26, fig. 11; Pl. 27, figs. 1-2)

- 1839b *Rosalina bertheloti*, d'Orbigny, p. 135, pl. 1, figs. 28-30.
1974 *Discorbinella bertheloti* (d'Orbigny), Le Calvez, p. 59, pl. 14, figs. 1-4.
1988 *Discorbinella bertheloti* (d'Orbigny), Loeblich and Tappan, p. 577, pl. 630, figs. 4-6.
1991 *Discorbinella bertheloti* (d'Orbigny), Cimerman and Langer, p. 70, pl. 86, figs. 1-4.
1993 *Discorbinella bertheloti* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 216, pl. 16, figs. 11-12.
1994 *Discorbinella bertheloti* (d'Orbigny), Loeblich and Tappan, p. 147 and 148, pl. 309, figs. 13-15.
1999 *Discorbinella bertheloti* (d'Orbigny), Hayward et al., p. 152, pl. 14, figs. 1-3.
2002 *Discorbinella bertheloti* (d'Orbigny), Avşar, p. 64, pl. 3, figs. 14-15.

Occurrence: Gulf of Saros, S. 57 (52.00 m), S. 62 (110.00 m), S. 64 (75.00 m), S. 66 (65.00 m), S. 72 (500.00 m), S. 78 (63.00 m), S. 79 (29.00 m); Gökçeada, S. 16 (4.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 4 (85.50 m), S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 9 (49.60 m), S. 14 (37.70 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 7 (35.00 m), S. 11 (52.00 m); Gulf of İzmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (46.00 m); Gulf of Kuşadası and Güllük Bay, S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 3 (80.40 m); Gulf of Datça, S. 3 (130.50 m), S. 7 (56.40 m); Marmaris Bay, S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m); this species occurs with a higher frequency in the different localities of Eastern Aegean Sea. It is reported mostly from infralittoral to upper circalittoral zones. It is rare in lower circalittoral and upper epibathyal zones.

Superfamily PLANORBULINACEA Schwager, 1877

Family Planulinidae Bermudez, 1952

Genus *Hyalinea* Hofker, 1951

Hyalinea balthica (Schröter)

(Pl. 27, fig. 3)

- 1783 *Nautilus balthicus*, Schröter, p. 20, fig. 2.
1931 *Anomalina balthica* (Schröter), Cushman, p. 108, pl. 19, fig. 3.
1958 *Hyalinea balthica* (Schröter), Parker, p. 275, pl. 4, fig. 39.
1960 *Hofkerinella baltica* (Schröter), Hofker, p. 255, fig. 137.
1971 *Hyalinea balthica* (Schröter), Murray, p. 173, pl. 72, figs. 5-8.
1974 *Hyalinea balthica* (Schröter), Colom, p. 151, fig. 37.
1984 *Hyalinea balthica* (Schröter), Ross and Kennett, pl. 3, figs. 4-5.
1988 *Hyalinea balthica* (Schröter), Loeblich and Tappan, p. 580, pl. 632, figs. 5-8.
1991 *Hyalinea balthica* (Schröter), Cimerman and Langer, p. 70, pl. 74, figs. 4, 7; figs. 5-6.
1993 *Hyalinea balthica* (Schröter), Sgarella and Moncharmont-Zei, p. 234, pl. 22, fig. 12.
1995 *Hyalinea balthica* (Schröter), Meriç et al., p. 109, pl. 9, figs. 2 a-f.
2002 *Hyalinea balthica* (Schröter), Kaminski et al., p. 26, pl. 3, fig. 13.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 7 (90.00 m), S. 9 (71.80 m), S. 10 (61.50 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 62 (110.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 72 (500.00 m), S. 75 (42.00 m), S. 77 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 11 (63.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m); Gulf of Kuşadası and Güllük Bay, S. 5 (137.00 m); this species is poorly recorded in depth-range of between 58.00 m and 334.50 m. It is recorded rarely in the infralittoral zone and frequently in upper and lower circalittoral and upper epibathyal zones.

Genus *Planulina* d'Orbigny, 1826

Planulina ariminensis d'Orbigny

(Pl. 27, figs. 4-5)

- 1826 *Planulina ariminensis*, d'Orbigny, p. 280, no. 1, pl. 14, figs. 1-3.
1958 *Planulina ariminensis* d'Orbigny, Parker, p. 276, pl. 4, fig. 43.
1990 *Planulina ariminensis* d'Orbigny, Galluzzo et al., pl. 3, fig. 17.
1993 *Planulina ariminensis* d'Orbigny, Sgarella and Moncharmont-Zei, p. 234, pl. 22, fig. 9.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 36 (74.00 m); Gulf of Edremit, S. 3 (230.00 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), Gulf of Gökova, S. 7 (198.00 m); this species is rare and occurs in the depth-range of between 74.00 m and 631.00 m in Eastern Aegean Sea. It is frequent in upper and lower circalittoral and also in upper and lower epibathyal zones.

Family Cibicididae Cushman, 1927
Subfamily Cibicidinae Cushman, 1927
Genus *Cibicides* de Montfort, 1808
Cibicides advenum (d'Orbigny)
(Pl. 27, figs. 6-7)

- 1839a *Truncatulina advena*, d'Orbigny, p. 87, pl. 6, figs. 3-5.
1958 *Cibicides advenum* (d'Orbigny), Le Calvez, Y., p. 187.
1977b *Cibicides advenum* (d'Orbigny), Le Calvez, Y., p. 122, figs. 1-5.
1991 *Cibicides advenum* (d'Orbigny), Cimerman and Langer, p. 70, pl. 74, figs. 8-10.
1995 *Cibicides advenum* (d'Orbigny), Meriç et al., p. 109, pl. 9, figs. 4 a-c.
2002 *Cibicides advenum* (d'Orbigny), Avşar, p. 64, pl. 3, figs. 16-17.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 24 (386.00 m), S. 30 (90.50 m), S. 57 (52.00 m), S. 63 (96.00 m), S. 66 (65.00 m), S. 67 (550.00 m), S. 72 (500.00 m); Gökçeada, S. 1 (0.50 m), S. 2 (0.50 m), S. 4 (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 21 (15.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 3 (0.50 m), S. 5 (0.50 m), S. 13 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 5 (85.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (50.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m); Gulf of Datça, S. 2 (45.00 m); Marmaris Bay, S. 1 (106.40 m); it occurs abundantly in the depth-range of between 0.50 m and 334.50 m in the various localities of Eastern Aegean Sea. It is reported from infralittoral to upper epibathyal zones.

Cibicides refulgens Montfort

- 1808 *Cibicides refulgens*, Montfort, p. 123, fig. 122.
1896 *Truncatulina refulgens* (Montfort), Dezelic, p. 86.
1931 *Cibicides refulgens* Montfort, Cushman, p. 116, pl. 21, fig. 2.

- Figure 63 a. Distribution of *Cibicidoides pachyderma* (Rzehak) in the Eastern Aegean Sea, Turkish Coasts.
Figure 63 b. Distribution of *Cibicidoides pseudoungerianus* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.
Figure 63 c. Distribution of *Discorbinella bertheloti* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
Figure 63 d. Distribution of *Hyalinea balthica* (Schröter) in the Eastern Aegean Sea, Turkish Coasts.



63 a



63 b



63 c



63 d

- 1958 *Cibicides refulgens* Montfort, Le Calvez, Y., p. 189.
 1960 *Cibicides refulgens* Montfort, Barker, pl. 92, figs. 7-9.
 1974 *Cibicides refulgens* Montfort, Colom, p. 150, figs. 31 o-t.
 1988 *Cibicides refulgens* Montfort, Loeblich and Tappan, p. 582, pl. 634, figs. 1-3.
 1991 *Cibicides refulgens* Montfort, Cimerman and Langer, p. 70, pl. 75, figs. 5-9.
 1994 *Cibicides refulgens* Montfort, Loeblich and Tappan, p. 149, pl. 318, figs. 7-9.
 2001 *Cibicides refulgens* Montfort, Debenay et al., pl. 6, fig. 1.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 23 (383.00 m); it is poorly recorded in the depth-range 214.70 and 383.00 m in northeastern Aegean Sea. It is also found in the upper epibathyal zone.

Genus *Lobatula* Fleming, 1828
Lobatula lobatula (Walker and Jacob)
 (Pl. 27, figs. 8-11)

- 1798 *Nautilus lobatulus*, Walker and Jacob, p. 462, pl. 14, fig. 36.
 1896 *Truncatulina lobatula* (Walker and Jacob), Dezelic, p. 87.
 1958 *Cibicides lobatulus* (Walker and Jacob), Le Calvez, Y., p. 188.
 1960 *Cibicides lobatulus* (Walker and Jacob), Barker, pl. 92, fig. 10; pl. 93, figs. 1, 4, 5; pl. 95, figs. 4-5.
 1970 *Cibicides lobatulus* (Walker and Jacob), v. Daniels, p. 89, pl. 8, fig. 3.
 1974 *Cibicides lobatulus* (Walker and Jacob), Colom, p. 147, figs. 29 a-g, I; fig. 30.
 1979 *Cibicides lobatulus* (Walker and Jacob), Alfirevic, p. 148, pl. 33, fig. 3.
 1981 *Cibicides lobatulus* (Walker and Jacob), Sejrup et al., pl. 1, fig. 4.
 1984 *Cibicides lobatulus* (Walker and Jacob), Reiss and Hottinger, fig. G. 29 d.
 1987 *Cibicides lobatulus* (Walker and Jacob), Yanko and Troitskaja, pl. 9, fig. 3.
 1988 *Lobatula lobatula* (Walker and Jacob), Loeblich and Tappan, p. 583, pl. 637, figs. 10-13.
 1990 *Cibicides lobatulus* (Walker and Jacob), Thomas et al., pl. 10, fig. 4.
 1991 *Lobatula lobatula* (Walker and Jacob), Cimerman and Langer, p. 71, pl. 75, figs. 1-4.
 1992 *Cibicides lobatulus* (Walker and Jacob), Hatta and Ujiie, p. 188-189, pl. 37, figs. 4a-5c.
 1993 *Cibicides lobatulus* (Walker and Jacob), Sgarella and Moncharmont-Zei, p. 234, pl. 22, figs. 10-11.
 1993 *Lobatula lobatula* (Walker and Jacob), Hottinger et al., p. 117, pl. 154, figs. 5-11.
 1994 *Lobatula lobatula* (Walker and Jacob), Loeblich and Tappan, p. 150, pl. 316, figs. 8-11; pl. 319, figs. 1-7.
 1995 *Lobatula lobatula* (Walker and Jacob), Meriç et al., p. 109, pl. 9, figs. 3 a-d.
 2001 *Lobatula lobatula* (Walker and Jacob), Debenay et al., pl. 6, fig. 2.
 2002 *Lobatula lobatula* (Walker and Jacob), Kaminski et al., p. 4, figs. 1 a-b and 2

a and b.

2002 *Lobatula lobatula* (Walker and Jacob), Avşar, p. 64, pl. 3, figs. 18-19.

Occurrence: Gulf of Saros, S. 1 (27.00 m), S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.49 m), S. 18 (88.10 m), S. 19 (96.00 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 55 (22.00 m), S. 57 (52.00 m), S. 62 (110.00 m), S. 66 (65.00 m), S. 67 (550.00 m), S. 70 (13.00 m), S. 72 (500.00 m), S. 75 (42.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 18 (30.00 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 3 (0.50 m), S. 5 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 13 (0.50 m), S. 14 (0.50 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 4 (85.50 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 20 (71.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 35 (80.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 9 (49.60 m), S. 10 (32.00 m), S. 14 (37.70 m), S. 17 (47.40 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 10 (22.50 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 6 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 7 (198.00 m); Gulf of Datça, S. 1

Figure 64 a. Distribution of *Planulina ariminensis* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.

Figure 64 b. Distribution of *Cibicides advenum* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 64 c. Distribution of *Cibicides refulgens* Montfort in the Eastern Aegean Sea, Turkish Coasts.

Figure 64 d. Distribution of *Lobatula lobatula* (Walker and Jacob) in the Eastern Aegean Sea, Turkish Coasts.



64 a



64 b



64 c



64 d

(252.30 m), S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 8 (246.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 8 (69.00 m): this species occurs with higher frequencies in the Eastern Aegean Sea. It is reported mostly from infralittoral to upper circalittoral zones. It is also frequent in lower circalittoral and upper-lower epibathyal zones.

Subfamily Annulocibicidinae Suidova, 1981

Genus *Cyclocibicides* Cushman, 1927

Cyclocibicides vermiculatus (d'Orbigny)

(Pl. 27, figs. 12-13)

- 1826 *Planorbulina vermiculatus*, d'Orbigny, p. 280, no. 3.
1927 *Cyclocibicides vermiculatus* (d'Orbigny), Cushman, p. 93.
1960 *Cyclocibicides vermiculatus* (d'Orbigny), Barker, pl. 115, figs. 2 a-b.
1988 *Cyclocibicides vermiculatus* (d'Orbigny), Loeblich and Tappan, p. 586, pl. 640, figs. 15-17.
1991 *Cyclocibicides vermiculatus* (d'Orbigny), Cimerman and Langer, p. 71, pl. 76, figs. 2-7.
1993 *Cyclocibicides vermiculatus* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 234-235, pl. 23, fig. 1.

Occurrence: Gulf of Saros, S. 42 (27.50 m), S. 50 (41.00 m); Haramantaşı locality, central part (20.10 m); Line I, S. 7 (40.00 m); Line III, S. 4 (30.00 m); Gökçeada, S. 25 (25.00 m), S. 29 (11.00 m): this species is rare and occurs in the different depths. It is reported from the infralittoral zone.

Family Planorbulinidae Schwager, 1877

Subfamily Planorbulininae Schwager, 1877

Genus *Planorbulina* d'Orbigny, 1826

Planorbulina mediterranensis d'Orbigny

(Pl. 27, fig. 14; Pl. 28, figs. 1-5)

- 1826 *Planorbulina mediterranensis*, d'Orbigny, p. 280, no. 2.
1896 *Planorbulina mediterranensis* d'Orbigny, Dezelic, p. 86.
1931 *Planorbulina mediterranensis* d'Orbigny, Cushman, p. 129, pl. 24, figs. 5-8.
1960 *Planorbulina mediterranensis* d'Orbigny, Barker, pl. 92, figs. 1-3.
1960 *Planorbulina mediterranensis* d'Orbigny, Hofker, p. 254, figs. 128-129.
1974 *Planorbulina mediterranensis* d'Orbigny, Colom, p. 158, figs. 39-40.
1974 *Planorbulina mediterranensis* d'Orbigny, Le Calvez, Y., p. 43, pl. 11, figs. 1-3.
1979 *Planorbulina mediterranensis* d'Orbigny, Alfirevic, p. 150, pl. 33, fig. 4.
1988 *Planorbulina mediterranensis* d'Orbigny, Loeblich and Tappan, p. 588, pl. 645, figs. 1-4; pl. 646, figs. 1-2.
1991 *Planorbulina mediterranensis* d'Orbigny, Cimerman and Langer, p. 71-72, pl. 78, figs. 1-8.

- 1992 *Planorbulina mediterraneensis* d'Orbigny, Hatta and Ujiie, p. 189, pl. 38, figs. 2 a-c.
- 1993 *Planorbulina mediterraneensis* d'Orbigny, Sgarella and Moncharmont-Zei, p. 235, pl. 23, fig. 4.
- 1995 *Planorbulina mediterraneensis* d'Orbigny, Meriç et al., p. 109, pl. 10, figs. 2 a-b.
- 2001 *Planorbulina mediterraneensis* d'Orbigny, Debenay et al., pl. 6, fig. 3.
- 2002 *Planorbulina mediterraneensis* d'Orbigny, Kaminski et al., p. 28, pl. 4, figs. 3 a-b.

Occurrence: Gulf of Saros, S. 4 (50.90 m), S. 7 (90.00 m), S. 10 (68.50 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 20 (92.00 m), S. 21 (97.40 m), S. 25 (188.00 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 54 (94.50 m), S. 55 (22.00 m), S. 57 (52.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 19 (40.00 m), S. 21 (15.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m), S. 5 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 15 (47.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (71.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 8 (49.30 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 13 (80.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 4

- Figure 65 a. Distribution of *Cyclocibicides vermiculatus* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 65 b. Distribution of *Planorbulina mediterraneensis* d'Orbigny in the Eastern Aegean Sea, Turkish Coasts.
- Figure 65 c. Distribution of *Cibicidella variabilis* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 65 d. Distribution of *Cymbaloporella* sp. in the Eastern Aegean Sea, Turkish Coasts.



65 a



65 b



65 c



65 d

(40.00 m), S. 5 (59.30 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 5 (128.80 m), S. 8 (69.00 m): this species occurs with higher frequencies in the different localities of Eastern Aegean Sea. It is reported mostly in infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper epibathyal zones.

Genus *Cibicidella* Cushman, 1927

Cibicidella variabilis (d'Orbigny)

(Pl. 28, figs. 6-11)

- 1839b *Truncatulina variabilis*, d'Orbigny, p. 135, pl. 2, fig. 29.
1896 *Truncatulina variabilis* d'Orbigny, Dezelic, p. 87.
1974 *Cibicidella variabilis* (d'Orbigny), Colom, p. 150, figs. 33-34.
1974 *Cibicidella variabilis* (d'Orbigny), La Calvez, Y., p. 96, pl. 26, figs. 1-4.
1988 *Planorbulina variabilis* (d'Orbigny), Loeblich and Tappan, p. 588, pl. 645, figs. 5-6.
1991 *Cibicidella variabilis* (d'Orbigny), Cimerman and Langer, p. 72, pl. 77, figs. 1-10.
1993 *Cibicidella variabilis* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 234, pl. 23, figs. 2-3.

Occurrence: Gulf of Saros, S. 35 (195.00 m), S. 36 (74.00 m); Harmantaşı locality, Line II, S. 7 (40.00 m), S. 8 (45.00 m); Gökçeada, S. 17 (4.00 m), S. 25 (25.00 m); Bozcaada, S. S. 15 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m); Gulf of Edremit, S. 3 (230.00 m), S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m); Gulf of Gökova, S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 6 (64.00 m), S. 8 (69.00 m): it occurs more frequently in depths, between 0.50 m and 230.00 m in the different localities of Eastern Aegean Sea. This species is more frequent in infralittoral and upper circalittoral zones and rare in lower circalittoral and upper epibathyal zones.

Family Cymbaloporidae Cushman, 1927

Subfamily Cymbaloporininae, Cushman, 1927

Genus *Cymbaloporetta* Cushman, 1928

Cymbaloporetta sp.

(Pl. 29, fig. 1)

- 1987 *Cymbaloporetta* gr. *bradyi* (Cushman), Baccaert, pl. 91, figs. 3-5.
1991 *Cymbaloporetta* sp. 1, Cimerman and Langer, p. 72, pl. 80, figs. 1-5.
1997 *Cymbaloporetta* sp., Haunold et al, p. 196, fig. 7.

Occurrence: Gulf of Datça, S. 7 (56.40 m): this species occurs only in one sample

in the upper circalittoral zone.

Superfamily ACERVULINACEA Schultze, 1854

Family Acervulinidae Schultze, 1854

Genus *Acervulina* Schultze, 1854

Acervulina inhaerens Schultze

(Pl. 29, fig. 2)

- 1854 *Acervulina inhaerens*, Schultze, p. 68, pl. 6, fig. 12
1884 *Gypsina inhaerens* (Schultze), Brady, p. 718, pl. 102, figs. 1-6.
1915 *Gypsina inhaerens* (Schultze), Cushman, p. 74, pl. 21, figs. 6-7.
1931 *Acervulina inhaerens* Schultze, Cushman, p. 134, pl. 25, fig. 2.
1954 *Acervulina inhaerens* Schultze, Cushman, Todd and Post, p. 372, pl. 91, figs. 37-38.
1957 *Acervulina inhaerens* Schultze, Todd, pl. 93, fig. 15.
1978 *Acervulina inhaerens* Schultze, Cheng and Zheng, p. 236, pl. 22, figs. 3-4.
1988 *Acervulina inhaerens* Schultze, Loeblich and Tappan, p. 597, pl. 659, figs. 1-6.
1994 *Acervulina inhaerens* Schultze, Loeblich and Tappan, p. 154, pl. 332, figs. 1-5.
1999 *Acervulina inhaerens* Schultze, Hayward et al., p. 156, pl. 15, figs. 2-3.
2001 *Acervulina inhaerens* Schultze, Debenay et al., pl. 4, fig. 31.

Occurrence: Gulf of Saros, S. 67 (550.00 m), S. 71 (90.00 m); Harmantaşı locality, central part (22.10 m); Gulf of Edremit, S. 6 (15.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 8 (35.80 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 5 (26.50 m); Marmaris Bay, S. 2 (79.10 m); it is poorly recorded in depth-range of between 15.00 m and 550.00 m. It occurs in infralittoral and upper circalittoral zones. It is also very rare in the lower epibathyal zone.

Genus *Planogypsina* Bermudez, 1952

Planogypsina acervalis (Brady)

- 1884 *Planorbulina acervalis*, Brady, p. 657, pl. 92, fig. 4.
1949 *Planorbulina mediterraneanensis* d'Orbigny, Said, p. 44, pl. 4, fig. 25.
1979 *Planorbulina acervalis* Brady, Pereira, p. 287, pl. 41, figs. L, M.
1984 *Planorbulina acervalis* Brady, Reiss and Hottinger, p. 252, figs. G 32 a-b.
1993 *Planogypsina acervalis* (Brady), Hottinger et al., p. 125, pl. 169, figs. 1-9; pl. 170, figs. 1-8.

Occurrence: Gulf of Saros, Harmantaşı locality, Line IV, S. 3 (35.00 m) and S. 4 (40.00 m); it is poorly recorded in a depth-range of 35.00-40.00 m corresponding to the infralittoral zone.

Planogypsina squamiformis (Chapman)
(Pl. 29, fig. 3)

- 1901 *Gypsina vesicularis* var. *squamiformis*, Chapman, p. 200, pl. 19, fig. 15.
1901 *Gypsina vesicularis* var. *monticulus*, Chapman, p. 200, pl. 19, fig. 14.
1949 *Planorbulina acervalis* Brady, Said, p. 43, pl. 4, fig. 28.
1964 *Planogypsina squamiformis* (Chapman), Loeblich and Tappan, p. C 698, fig. 568.
1979 *Planorbulina* aff. *P. acervalis* Brady, Pereira, p. 288, pl. 41, figs. N-Q.
1984 *Acervulina inhaerens* Schultze, Reiss and Hottinger, p. 252, figs. G 1e, G 32 c.
1993 *Planogypsina* cf. *P. squamiformis* (Chapman), Hottinger et al., p. 126, pl. 171, figs. 1-9.

Occurrence: Gulf of Saros, Harmantaşı locality, Line I, S. 9 (50.00 m); Line IV, S. 6 (50.00 m), S. 7 (60.00 m), S. 8 (70.00 m) and S. 9 (80.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 8 (35.80 m); this species is very rare in Eastern Aegean Sea and is reported from the upper circalittoral zone.

Genus *Sphaerogypsina* Galloway, 1933
Sphaerogypsina globula (Reuss)
(Pl. 29, fig. 4)

- 1848 *Ceripora globulus*, Reuss, p. 33, pl. 5, fig. 7.
1896 *Gypsina globulus* (Reuss), Dezelic, p. 89.
1960 *Sphaerogypsina globulus* (Reuss), Barker, pl. 101, fig. 8.
1974 *Sphaerogypsina globula* (Reuss), Colom, p. 160, fig. 42 b.
1988 *Sphaerogypsina globula* (Reuss), Loeblich and Tappan, p. 598, pl. 662, figs. 4-6.
1991 *Sphaerogypsina globula* (Reuss), Cimerman and Langer, p. 72, pl. 80, figs. 6-9.
1992 *Sphaerogypsina globulus* (Reuss), Hatta and Ujüie, p. 192-193, pl. 41, figs. 7-8.
1993 *Sphaerogypsina globula* (Reuss), Sgarella and Moncharmont-Zei, p. 235, pl. 23, fig. 6.
1993 *Sphaerogypsina globulus* (Reuss), Hottinger et al., p. 128, pl. 173, figs. 1-10.
1994 *Sphaerogypsina globula* (Reuss), Loeblich and Tappan, p. 154, pl. 334, figs. 4-6.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 30 (90.50 m), S. 35 (195.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 54 (94.50 m); Gökçeada, S. 3 (0.50 m), S. 16 (4.00 m); Bozcaada, S. 2 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 28 (39.00 m), S. 31 (75.00 m), S. 34 (38.00 m); Dikili and Çandarlı

Bays, S. 9 (49.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (31.30 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 5 (128.80 m); it occurs frequently at depths between 0.50 m and 195.00 m and is reported mostly from infralittoral to upper circalittoral zones. It is rare in the lower circalittoral zone.

Superfamily ASTERIGERINACEA d'Orbigny, 1839

Family Asterigerinatidae Reiss, 1963

Genus *Asterigerinata* Bermudez, 1949

Asterigerinata adriatica Haake

1991 *Asterigerinata* sp. 1, Cimerman and Langer, p. 73, pl. 82, figs. 5-6.

1993 *Asterigerinata adriatica* Haake, Sgarella and Moncharmont-Zei, p. 224, pl. 19, figs. 11-12.

Occurrence: Gulf of Saros, Harmantaşı locality, Line II, S. 7 (40.00 m): its occurrence is always rare in the infralittoral zone.

Asterigerinata mamilla (Williamson)

(Pl. 29, figs. 5-6)

1858 *Rosalina mamilla*, Williamson, p. 54, pl. 4, figs. 109-111.

1931 *Discorbis mamilla* (Williamson), Cushman, p. 23, pl. 5, fig. 11.

1958 *Discorbis mamilla* (Williamson), Le Calvez, Y., p. 182.

1970 *Asterigerinata mamilla* (Williamson), v. Daniels, p. 86, pl. 6, fig. 11.

1972 *Asterigerinata mamilla* (Williamson), Rosset-Moulinier, p. 172, pl. 10, figs. 6-7; pl. 13, figs. 1-9.

1974 *Discorbis mamilla* (Williamson), Colom, p. 124, figs. 21 x, y.

1979 *Asterigerinata mamilla* (Williamson), Alfievic, p. 125, pl. 25, fig. 4.

1991 *Asterigerinata mamilla* (Williamson), Cimerman and Langer, p. 73, pl. 82, figs. 1-4.

1993 *Asterigerinata mamilla* (Williamson), Sgarella and Moncharmont-Zei, p. 224, pl. 19, figs. 9-10.

1995 *Asterigerinata mamilla* (Williamson), Meriç et al., p. 109, pl. 10, figs. 4 a-b.

2001 *Asterigerinata mamilla* (Williamson), Debenay et al., pl. 4, figs. 20-21.

2002 *Asterigerinata mamilla* (Williamson), Avşar, p. 64, pl. 3, fig. 20; pl. 4, fig. 1.

Figure 66 a. Distribution of *Acervulina inhaerens* Schultze in the Eastern Aegean Sea, Turkish Coasts.

Figure 66 b. Distribution of *Planogypsina acervalis* (Brady) in the Eastern Aegean Sea, Turkish Coasts.

Figure 66 c. Distribution of *Planogypsina squamiformis* (Chapman) in the Eastern Aegean Sea, Turkish Coasts.

Figure 66 d. Distribution of *Sphaerogypsina globula* (Reuss) in the Eastern Aegean Sea, Turkish Coasts.



66 a



66 b



66 c



66 d

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 17 (33.90 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 55 (22.00 m), S. 63 (96.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 3 (0.50 m), S. 11 (0.50 m), S. 16 (4.00 m), S. 23 (10.00 m), S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 3 (59.60 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 2 (100.40 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 14 (37.70 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 3 (113.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 14 (82.10 m); Gulf of Gökova, S. 3 (80.40 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 5 (59.30 m); Marmaris Bay, S. 1 (106.40 m), S. 3 (98.30 m), S. 8 (69.00 m); this species occurs abundantly in different localities of Eastern Aegean Sea. It is reported mostly from infralittoral to upper circalittoral zones. It is also recorded rarely in lower circalittoral-upper epibathyal zones.

Family Amphisteginidae Cushman, 1927

Genus *Amphistegina* d'Orbigny, 1826

Amphistegina lobifera Larsen

(Pl. 29, figs. 7-10)

- 1880 *Amphistegina lessonii* d'Orbigny, Möbius, p. 99, pl. 10, figs. 11-14; pl. 11, figs. 1-3.
 1972 *Amphistegina cf. radiata* Terquem, Hansen and Reiss, pl. 10, figs. 3-4.
 1976 *Amphistegina lobifera*, Larsen, p. 4, pl. 3, figs. 1-5; pl. 7, fig. 3; pl. 8, fig. 3.
 1977 *Amphistegina lobifera* Larsen, Larsen and Drooger, p. 225, fig. 1/1ab.
 1984 *Amphistegina lobifera* Larsen, Reiss and Hottinger, p. 217, fig. G 11, G 12 a-c.
 1988 *Amphistegina lobifera* Larsen, Morariu and Hottinger, p. 695, fig. 1 A, B, fig. 2.
 1993 *Amphistegina lobifera* Larsen, Hottinger et al., p. 133, pl. 188, figs. 1-6.
 1997 *Amphistegina lobifera* Larsen, Haunold et al., p. 196, fig. 7.

Occurrence: Gökçeada, S. 30 (3.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m); Marmaris Bay, S. 4 (71.80 m), S. 6 (64.00 m), S. 8 (69.00 m); it is poorly recorded in depth-range of between 3.00 m and 71.80 m. It is also reported from the infralittoral to upper circalittoral zones.

Superfamily NONIONACEA Schultze, 1854

Family Nonionidae Schultze, 1854

Subfamily Nonioninae Schultze, 1854

Genus *Nonion* de Montfort, 1808

Nonion depressulum (Walker and Jacob)

(Pl. 29, figs. 11-12)

- 1798 *Nautilus depressulus*, Walker and Jacob, p. 641, pl. 14, fig. 33.
1972 *Nonion depressulum* (Walker and Jacob), Rosset-Moulinier, p. 186, pl. 21, figs. 1-4; pl. 22, figs. 1-2.
1976 *Nonion depressulum* (Walker and Jacob), Hansen and Lykke-Andersen, p. 21, pl. 19, figs. 3, 6.
1978 *Haynesina depressula* (Walker and Jacob), Banner and Culver, p. 200, pl. 10, figs. 1-8.
1991 *Haynesina depressula* (Walker and Jacob), Cimerman and Langer, p. 81, pl. 83, figs. 1-4.
1993 *Nonion depressulum* (Walker and Jacob), Sgarella and Moncharmont-Zei, p. 238, pl. 24, figs. 3-4.
1999 *Haynesina depressula* (Walker and Jacob), Hayward et al., p. 158, pl. 15, figs. 10-11.
2001 *Haynesina depressula* (Walker and Jacob), Debenay et al., pl. 6, fig. 13.
2002 *Haynesina depressula* (Walker and Jacob), Kaminski et al., p. 26, pl. 4, figs. 4-5.

Occurrence: Gulf of Saros, S. 53 (440.00 m), S. 63 (96.00 m); Harmantaşı locality; Line I, S. 1 (5.00 m), Line II, S. 4 (25.00 m), S. 10 (60.00 m); Gökçeada, S. 3 (0.50 m), S. 5 (0.50 m), S. 27 (9.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanaakkale triangle, S. 7 (18.00 m), S. 10 (57.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 22 (45.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m); Gulf of Edremit, S. 3 (230.00 m): this species is rare and occurs in depth-range of between 0.50 m and 440.00 m. It is reported mainly from infralittoral-upper circalittoral zones. It also occurs rarely in lower circalittoral-upper epibathyal zones.

Genus *Nonionella* Cushman, 1926

Nonionella turgida (Williamson)

- 1858 *Rotalina turgida*, Williamson, p. 50, pl. 4, figs. 95-97.
1939 *Nonionella turgida* (Williamson), Cushman, p. 32, pl. 9, figs. 2-3.
1960 *Nonionella turgida* (Williamson), Hofker, p. 262, figs. 181-182.
1960 *Nonionella turgida* (Williamson), Barker, p. 109, figs. 17-19.
1971 *Nonionella turgida* (Williamson), Murray, p. 193, pl. 81, figs. 1-5.
1987 *Nonionella turgida* (Williamson), Jorissen, pl. 4, figs. 11-13.
1991 *Nonionella turgida* (Williamson), Cimerman and Langer, p. 74, pl. 84, figs. 6-8.
1993 *Nonionella turgida* (Williamson), Sgarella and Moncharmont-Zei, p. 240, pl. 24, fig. 5.

- 1995 *Nonionella turgida* (Williamson), Meriç et al, p. 109, pl. 11, figs. 3 a-c.
 1999 *Nonionella turgida* (Williamson), Hayward et al., p. 159, pl. 15, figs. 16-17.
 2001 *Nonionella turgida* (Williamson), Debenay et al., pl. 6, fig. 14.

Occurrence: Gulf of Saros, S. 55 (22.00 m), S. 76 (53.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 8 (58.00 m), S. 14 (47.00 m), S. 22 (47.00 m), S. 23 (45.00 m), S. 29 (50.00 m), S. 32 (46.00 m), S. 35 (80.00 m), S. 36 (82.00 m); it is poorly recorded in depth-range of between 18.00 m and 82.00 m in infralittoral and upper circalittoral zones.

Subfamily Astrononioninae Saidova, 1981

Genus *Astrononion* Cushman and Edwards, 1937

Astrononion stelligerum (d'Orbigny)

(Pl. 29, figs. 13-14; Pl. 30, figs. 1-2)

- 1839b *Nonionina stelligera*, d'Orbigny, p. 128, pl. 3, fig. 12.
 1930 *Nonion stelligerum* (d'Orbigny), Cushman, p. 7, pl. 8, figs. 8-12; pl. 3, figs. 1-3.
 1937 *Astrononion stelligerum* (d'Orbigny), Cushman and Edwards, p. 31, pl. 3, fig. 7 a.
 1960 *Astrononion stelligerum* (d'Orbigny), Barker, pl. 109, figs. 3-4.
 1974 *Astrononion stelligerum* (d'Orbigny), Le Calvez, Y., p. 37, pl. 9, figs. 1-4.
 1991 *Astrononion stelligerum* (d'Orbigny), Cimerman and Langer, p. 74, pl. 84, figs. 13-15.
 1993 *Astrononion stelligerum* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 238, pl. 24, fig. 10.
 1994 *Astrononion stelligerum* (d'Orbigny), Loeblich and Tappan, p. 158, pl. 344, figs. 11-14.

Occurrence: Gulf of Saros, S. 67 (55.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 25 (25.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 7 (18.00 m), S. 13 (79.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 3 (230.00 m), S. 7 (19.00 m), S. 9 (49.60 m), S. 17 (47.40

Figure 67 a. Distribution of *Asterigerinata adriatica* Haake in the Eastern Aegean Sea, Turkish Coasts.

Figure 67 b. Distribution of *Asterigerinata mamilla* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.

Figure 67 c. Distribution of *Amphistegina lobifera* Larsen in the Eastern Aegean Sea, Turkish Coasts.

Figure 67 d. Distribution of *Nonion depressulum* (Walker and Jacob) in the Eastern Aegean Sea, Turkish Coasts.



67 a



67 b



67 c



67 d

m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 11 (47.00 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 5 (59.30 m); Marmaris Bay, S. 3 (98.30 m), S. 5 (128.80 m), S. 8 (69.00 m): it occurs abundantly in depth-range of between 3.00 m and 550.00 m. This species is reported mostly from infralittoral to upper circalittoral zones. It is also recorded in lower circalittoral and upper epibathyal zones.

Subfamily Pulleniinae Schwager, 1877

Genus *Melonis* de Montfort, 1808

Melonis pompilioides (Fichtel and Moll)

(Pl. 30, figs. 3-6)

- 1798 *Nautilus pompilioides*, Fichtel and Moll, p. 31, pl. 2, figs. a-c.
 1808 *Melonis etruscus* (Fichtel and Moll), Montfort, p. 66.
 1959 *Nonion pompilioides* (Fichtel and Moll), Norvang, p. 145, figs. 1-6.
 1976 *Melonis pompilioides* (Fichtel and Moll), Hansen and Lykke-Andersen, p. 24, pl. 22, figs. 10-13.
 1984 *Melonis barleanus* (Fichtel and Moll), Roegel and Hansen, p. 30, pl. 2, figs. 1-2.
 1988 *Melonis pompilioides* (Fichtel and Moll), Loeblich and Tappan, p. 621, pl. 696, figs. 7-8.
 1990 *Melonis pompilioides* (Fichtel and Moll), Galluzzo et al., pl. 4, figs. 6-7.
 1990 *Melonis pompilioides* (Fichtel and Moll), Thomas et al., pl. 10, fig. 16.
 1991 *Melonis pompilioides* (Fichtel and Moll), Cimerman and Langer, p. 74, pl. 85, figs. 1-4.
 1994 *Melonis pompilioides* (Fichtel and Moll), Loeblich and Tappan, p. 159, pl. 347, figs. 8-10.
 2002 *Melonis pompilioides* (Fichtel and Moll), Avşar, p. 65, pl. 4, figs. 2-3.

Occurrence: Gulf of Saros, S. 2 (15.50 m), S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 12 (156.00 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 45 (33.50 m), S. 50 (41.00 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 59 (98.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 62 (110.00 m), S. 63 (96.00 m), S. 64 (75.00 m), S. 65 (61.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 73 (600.00 m), S. 75 (42.00 m), S. 77 (53.00 m), S. 78 (63.00 m), S.

80 (98.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 4 (85.50 m), S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 16 (82.00 m); Dikili and Çandarlı Bays, S. 8 (35.80 m); Gulf of İzmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 15 (83.70 m); Gulf of Gökova, S. 3 (80.40 m), S. 5 (34.50 m), S. 8 (78.30 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 5 (128.80 m), S. 6 (64.00 m): its occurrence is always abundant in the different localities of Eastern Aegean Sea. This species occurs mostly in infralittoral and upper circalittoral zones. It is rare in lower circalittoral, upper and lower epibathyal zones.

Genus *Pullenia* Parker and Jones, 1862

Pullenia quinqueloba (Reuss)

(Pl. 30, figs. 7-8)

1851 *Nonionina quinqueloba*, Reuss, p. 71, pl. 5, fig. 31.

1958 *Pullenia quinqueloba* (Reuss), Parker, p. 273, pl. 4, figs. 32-33.

1990 *Pullenia quinqueloba* (Reuss), Akimoto, p. 208, pl. 17, fig. 13.

1990 *Pullenia quinqueloba* (Reuss), Thomas et al., pl. 7, fig. 11; Pl. 10, fig. 19.

1993 *Pullenia quinqueloba* (Reuss), Sgarella and Moncharmont-Zei, p. 240, pl. 24, figs. 8-9.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 27 (70.00 m): this species is very rare in the upper circalittoral zone.

Superfamily CHILOSTOMELLACEA Brady, 1881

Family Chilostomellidae Brady, 1881

Subfamily Chilostomellinae Brady, 1881

Genus *Chilostomella* Reuss, 1849

Chilostomella mediterraneensis Cushman and Todd

(Pl. 30, fig. 9)

1958 *Chilostomella mediterraneensis* Cushman and Todd, Parker, p. 273, pl. 4, fig. 24.

1984 *Chilostomella mediterraneensis* Cushman and Todd, Ross and Kennett, pl. 1, figs. 7-8.

1993 *Chilostomella mediterraneensis* Cushman and Todd, Sgarella and Moncharmont-Zei, p. 238, pl. 24, fig. 11.

1995 *Chilostomella mediterraneensis* Cushman and Todd, Meriç et al., p. 109, pl.

11, figs. 4 a-b.

Occurrence: Gulf of Saros, S. 7 (90.00 m), S. 12 (214.70 m), S. 13 (156.00 m), S. 16 (71.10 m), S. 18 (88.10 m), S. 23 (383.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 62 (110.00 m), S. 75 (42.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 27 (70.00 m), S. 36 (82.00 m): its occurrence is always rare in infralittoral, upper-lower circalittoral and upper epibathyal zones.

Family Gavellinidae Hofker, 1956
Subfamily Gyroidinoidinae Saidova, 1981
Genus *Gyroidinoides* Brotzen, 1942
Gyroidinoides soldanii (d'Orbigny)
(Pl. 30, figs. 10-11)

- 1826 *Gyroidina soldanii*, d'Orbigny, p. 278, no. 5.
1846 *Rotalia soldanii* (d'Orbigny), d'Orbigny, p. 155, pl. 8, figs. 10-12.
1984 *Gyroidina soldanii* (d'Orbigny), Ross and Kennett, pl. 3, figs. 9-10.
1985 *Gyroidina soldanii* d'Orbigny, Papp and Schmid, p. 60, pl. 50, figs. 4-9.
1990 *Gyroidina soldanii* d'Orbigny, Galluzzo et al., pl. 4, figs. 18-19.
1990 *Gyroidina soldanii* d'Orbigny, Thomas et al., pl. 10, fig. 22.
1991 *Gyroidinoides soldanii* (d'Orbigny), Cimerman and Langer, p. 75, pl. 85, figs. 5-6.
1993 *Gyroidinoides* cf. *G. soldanii* (d'Orbigny), Hottinger et al., p. 139, pl. 198, figs. 1-9.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 13 (156.00 m), S. 19 (96.50 m), S. 22 (118.50 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 25 (188.00 m), S. 26 (631.00 m), S. 27 (144.80 m), S. 28 (115.50 m), S. 35 (195.00 m), S. 62 (110.00 m), S. 66 (65.00 m), S. 68 (210.00 m), S. 70 (13.00 m), S. 73 (600.00 m), S. 74 (200.00 m), S. 75 (42.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m); Gulf of Kuşadası and Güllük Bay, S. 4 (226.00 m), S. 5 (137.00 m), S. 8 (29.00 m); Gulf of Gökova, S. 5 (34.50 m), S. 7 (198.00 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 8 (246.40 m), S. 9 (147.00 m); Marmaris Bay, S. 5 (128.80 m): it is poorly recorded in the depth-range of 29.00-631.00 m, and frequently in infralittoral and upper circalittoral zones. It is reported rarely in lower circalittoral-lower epibathyal zones.

- Figure 68 a. Distribution of *Nonionella turgida* (Williamson) in the Eastern Aegean Sea, Turkish Coasts.
Figure 68 b. Distribution of *Astrononion stelligerum* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
Figure 68 c. Distribution of *Melonis pompilioides* (Fichtel and Moll) in the Eastern Aegean Sea, Turkish Coasts.
Figure 68 d. Distribution of *Pullenia quinqueloba* (Reuss) in the Eastern Aegean Sea, Turkish Coasts.



68 a



68 b



68 c



68 d

Subfamily Gavellininae Hofker, 1956

Genus *Gyroidina* d'Orbigny, 1826

Gyroidina umbonata (Silvestri)

1958 *Gyroidina umbonata* (Silvestri), Parker, p. 266, pl. 3, figs. 19-20.

1990 *Gyroidina umbonata* (Silvestri), Galluzzo et al., pl. 4, figs. 20-21.

1993 *Gyroidina umbonata* (Silvestri), Sgarella and Moncharmont-Zei, p. 241, pl. 25, figs. 1-2.

2002 *Gyroidina umbonata* (Silvestri), Avşar, p. 65, pl. 4, fig. 4.

Occurrence: Gökçeada-Bozcaada-Çanakkale triangle, S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m): its occurrence is always rare in the Eastern Aegean Sea and is reported from infralittoral and upper circalittoral zones.

Superfamily ROTALIACEA Ehrenberg, 1839

Family Rotaliidae Ehrenberg, 1839

Subfamily Pararotaliinae Reiss, 1963

Genus *Pararotalia* Le Calvez, Y., 1949

Pararotalia spinigera (Le Calvez)

1949 *Pararotalia spinigera*, Le Calvez, Y., p. 32.

Occurrence: Gulf of Saros, Harmantaşı locality, Line III; S. 1 (10.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 13 (79.00 m), S. 16 (47.00 m): it occurs only in three samples collected from depth-range between 10.00 m and 79.00 m. Corresponding to infralittoral and upper circalittoral zones.

Subfamily Ammoniinae Saidova, 1981

Genus *Ammonia* Brünnich, 1772

Ammonia compacta Hofker

(Pl. 30, figs. 12-15; Pl. 31, figs. 1-2)

1960 *Ammonia gaimardi* (d'Orbigny), Barker, pl. 106, figs. 9 a-c.

1969 *Streblus compactus*, Hofker, p. 99, figs. 242, 243.

1987 *Ammonia compacta* (Hofker), Yanko and Troitskaja, p. 44, pl. 11, figs. 1-10.

Figure 69 a. Distribution of *Chilostomella mediterraneensis* Cushman and Todd in the Eastern Aegean Sea, Turkish Coasts.

Figure 69 b. Distribution of *Gyroidinoides soldanii* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.

Figure 69 c. Distribution of *Gyroidina umbonata* (Silvestri) in the Eastern Aegean Sea, Turkish Coasts.

Figure 69 d. Distribution of *Pararotalia spinigera* (Le Calvez) in the Eastern Aegean Sea, Turkish Coasts.



69 a



69 b



69 c



69 d

1993 *Ammonia gaimardi* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 228, pl. 20, figs. 7-8.

1995 *Ammonia compacta* (Hofker), Meriç et al., p. 109, pl. 12, 3 a-c.

2002 *Ammonia compacta* (Hofker), Kaminski et al., p. 22, pl. 5, fig. 8.

2002 *Ammonia compacta* (Hofker), Avşar, p. 65, pl. 4, figs. 7-9.

Occurrence: Gulf of Saros, S. 1 (27.00 m), S. 2 (15.50 m), S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 23 (383.00 m), S. 27 (144.80 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 49 (45.00 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 58 (60.00 m), S. 60 (55.00 m), S. 63 (96.00 m), S. 65 (61.00 m), S. 67 (550.00 m), S. 68 (210.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 76 (53.00 m), S. 77 (53.00 m), S. 78 (63.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 3 (0.50 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 19 (40.00 m), S. 21 (15.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 32 (16.00 m); Bozcaada, S. 1 (0.50 m), S. 2 (0.50 m), S. 8 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 16 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 3 (59.60 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 12 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 10 (32.00 m), S. 11 (55.60 m), S. 12 (64.20 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 16 (82.00 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 10 (32.50 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 4 (40.00 m), S. 5 (26.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 6 (45.630 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 6 (56.10 m), S. 7 (56.40 m); Marmaris Bay, S. 2 (79.10 m), S. 6 (64.00 m), S. 8 (69.00 m): this species is generally abundant in the different localities of Aegean Sea. It is reported mostly from infralittoral to upper circalittoral zones. It occurs frequently in lower circalittoral, upper and lower epibathyal zones.

Ammonia parkinsoniana (d'Orbigny)
(Pl. 31, figs. 3-7)

- 1839a *Rosalina parkinsoniana*, d'Orbigny, p. 99, pl. 4, figs. 25-27.
1977b *Ammonia parkinsoniana* (d'Orbigny), Le Calvez, Y., p. 92, pl. 11, figs. 1-3.
1990 *Ammonia parkinsoniana* (d'Orbigny), Debenay, pl. 2, figs. 1-2.
1991 *Ammonia parkinsoniana* (d'Orbigny), Cimerman and Langer, p. 76, pl. 87, figs. 7-9.
1993 *Ammonia parkinsoniana* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 228, pl. 20, figs. 3-4.
1994 *Ammonia parkinsoniana* (d'Orbigny), Loeblich and Tappan, p. 165, pl. 368, figs. 7-16.
1995 *Ammonia parkinsoniana* (d'Orbigny), Meriç et al., p. 109, pl. 12, figs. 5 a-c.
2002 *Ammonia parkinsoniana* (d'Orbigny), Kaminski et al., p. 22.
2002 *Ammonia parkinsoniana* (d'Orbigny), Avşar, p. 65, pl. 4, figs. 7-9.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 7 (90.00 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 27 (144.80 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 8 (0.50 m), S. 11 (0.50 m), S. 13 (13.00 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 18 (30.00 m), S. 19 (40.00 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 32 (16.00 m), S. 33 (28.00 m), S. 34 (41.00 m); Bozcaada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 12 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 3 (59.60 m), S. 4 (85.50 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 12 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 5 (34.50 m); Gulf of Datça, S. 1 (252.30 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m): this species occurs abundantly in the different localities of Eastern Aegean Sea. It is generally recorded from infralittoral to upper circalittoral

zones. It is rare in lower circalittoral, upper and lower epibathyal zones.

Ammonia tepida Cushman
(Pl. 31, figs. 8-11)

- 1926 *Rotalia beccarii* (Linné) var. *tepida*, Cushman, p. 79, pl. 1.
1931 *Rotalia beccarii* (Linnaeus) var. *tepida* Cushman, Cushman, p. 61, pl. 13, figs. 3 a-c.
1965 *Streblus beccarii tepida* (Cushman), Todd, p. 29, pl. 6, fig. 1; pl. 7, fig. 2.
1972 *Ammonia beccarii* (Linné) var. *tepida* Cushman, Rosset-Moulinier, p. 174.
1978 *Ammonia tepida* (Cushman), Cheng and Zheng, p. 221, pl. 24, figs. 10-11; pl. 32, fig. 7.
1987 *Ammonia tepida* (Cushman), Yanko and Troitskaja, pl. 12, figs. 7-12.
1991 *Ammonia tepida* (Cushman), Cimerman and Langer, p.76, pl. 87, figs. 10-12.
1993 *Ammonia beccarii* var. *tepida* (Cushman), Sgarella and Moncharmont-Zei, p. 226, pl. 20, figs. 5-6.
1994 *Ammonia tepida* (Cushman), Loeblich and Tappan, p. 166, pl. 371, figs. 1-10.
2002 *Ammonia tepida* Cushman, Kaminski et al., p. 22, pl. 5, fig. 7.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 32 (67.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 41 (81.00 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 50 (41.00 m), S. 52 (61.10 m), S. 55 (22.00 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 67 (550.00 m), S. 71 (90.00 m), S. 72 (500.00 m); Gökçeada, S. 7 (0.50 m), S. 16 (4.00 m), S. 28 (10.00 m), S. 30 (3.00 m); Bozcaada, S. 2 (0.50 m), S. 10 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 7 (18.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 22 (45.00 m), S. 33 (39.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 10 (32.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.20 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 13 (72.50 m); Gulf of Gökova, S. 2 (27.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 8 (69.00 m); it occurs frequently in infralittoral and upper circalittoral zones of the different localities of Eastern Aegean Sea. It is rare in lower circalittoral, upper and lower epibathyal zones.

Genus *Challengerella* Billman, Hottinger and Oesterle, 1980
Challengerella bradyi Billman, Hottinger and Oesterle
(Pl. 31, figs. 12-15)

- 1949 *Rotalia beccarii* (Linné), Said, p. 37, pl. 4, fig. 5.
1971 *Ammonia beccarii* (Linné), Hansen and Reiss, p. 331, pl. 1, figs. 1-3, pl. 3, figs. 3-6; pl. 5, figs. 1-4.

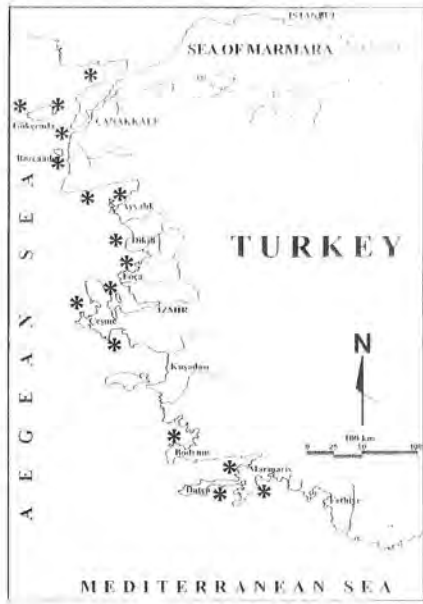
- 1980 *Challengerella bradyi*, Billman, Hottinger and Oesterle, p. 91, pl. 12, figs. 1-6, 8-10, 13-14.
 1984 *Challengerella bradyi* Billman, Hottinger and Oesterle, Reiss and Hottinger, p. 244., fig. G 28 a-d.
 1993 *Challengerella bradyi* Billman, Hottinger and Oesterle, Hottinger et al., p. 144, pl. 204, figs. 1-13; pl. 205, figs. 2-7.
 1997 *Challengerella bradyi* Billman, Hottinger and Oesterle, Haunold et al., p. 202, fig. 13.
 2002 *Challengerella bradyi* Billman, Hottinger and Oesterle, Avşar, p. 65, pl. 4, figs. 10-11.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 17 (33.90 m), S. 58 (60.00 m); Gökçeada, S. 1 (0.50 m), S. 6 (0.50 m), S. 19 (40.00 m), S. 29 (11.00 m); Bozcaada, S. 2 (0.50 m), S. 8 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 7 (18.00 m), S. 13 (79.00 m), S. 22 (45.00 m), S. 25 (74.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 32 (46.00 m); Gulf of Edremit, S. 8 (49.30 m), S. 10 (32.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 7 (35.00 m), S. 9 (49.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m); Çeşme, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (65.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 13 (72.50 m); Gulf of Datça, S. 1 (252.30 m), S. 2 (45.00 m), S. 7 (56.40 m); Marmaris Bay, S. 7 (29.90 m): it occurs frequently in the many localities and is reported mostly from infralittoral to upper circalittoral zones. It is very rare in the upper epibathyal zone.

Family Elphidiidae Galloway, 1933
Subfamily Elphidiinae Galloway, 1933
Genus *Cribroelphidium* Cushman, 1948
Cribroelphidium poeyanum (d'Orbigny)
 (Pl. 32, figs. 1-2)

- 1987 *Cribroelphidium poeyanum* (d'Orbigny), Yanko and Troitskaja, pl. 21, figs. 4-6.
 1995 *Cribroelphidium poeyanum* (d'Orbigny), Meriç et al., p. 109, pl. 12, fig. 6.
 2002 *Cribroelphidium poeyanum* (d'Orbigny), Avşar, p. 65, pl. 4, figs. 12-13.

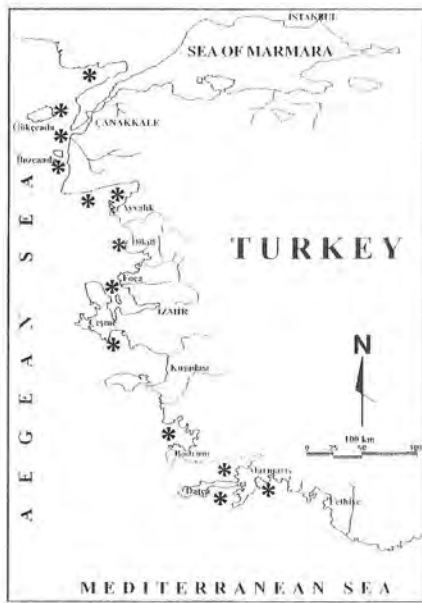
- Figure 70 a. Distribution of *Ammonia compacta* Hofker in the Eastern Aegean Sea, Turkish Coasts.
 Figure 70 b. Distribution of *Ammonia parkinsoniana* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 70 c. Distribution of *Ammonia tepida* Cushman in the Eastern Aegean Sea, Turkish Coasts.
 Figure 70 d. Distribution of *Challengerella bradyi* Billman, Hottinger and Oesterle in the Eastern Aegean Sea, Turkish Coasts.



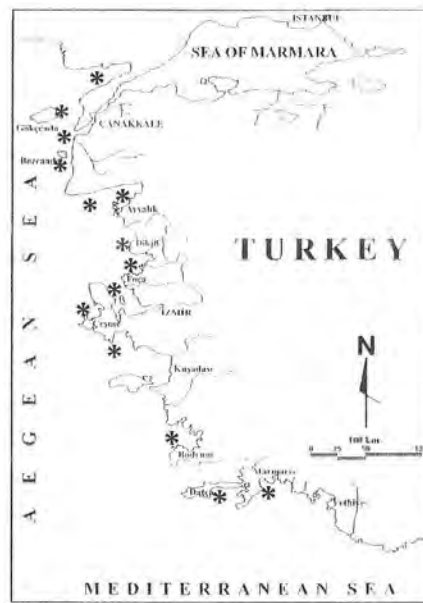
70 a



70 b



70 c



70 d

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 15 (39.50 m), S. 17 (33.90 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 43 (51.50 m), S. 45 (33.50 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 55 (22.00 m), S. 60 (55.00 m), S. 77 (53.00 m), S. 80 (98.00 m); Gökçeada, S. 16 (4.00 m), S. 29 (11.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 4 (85.50 m), S. 23 (58.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 29 (50.00 m), S. 32 (46.00 m), S.34 (38.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 12 (25.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 3 (44.00 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m), S. 14 (82.10 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 6 (65.00 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m); Marmaris Bay, S. 6 (64.00 m); this species occurs frequently in the Eastern Aegean Sea, and is reported more frequently in infralittoral and upper circalittoral zones. It occurs also rarely in the upper epibathyal zone.

Genus *Porosonion* Putrya, 1956
Porosonion subgranosum (Egger)
(Pl. 32, figs. 3-4)

1987 *Porosonion subgranosum* (Egger), Yanko and Troitskaja, pl. 19, figs. 1-3.
1995 *Porosonion subgranosum* (Egger), Meriç et al., p. 109, figs. 2 a-c.
2002 *Porosonion subgranosum* (Egger), Avşar, p. 65, pl. 4, figs. 14-15.

Occurrence: Gulf of Saros, S. 1 (27.00 m), S. 3 (34.60 m), S. 17 (33.40 m), S. 40 (77.30 m), S. 56 (41.00 m), S. 60 (55.00 m), S. 64 (75.00 m), S. 72 (500.00 m), S. 76 (53.00 m), S. 80 (98.00 m); Gökçeada, S. 8 (0.50 m), S. 16 (4.00 m), S. 28 (10.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 5 (137.50 m), S. 7 (18.00 m), S. 8 (58.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 23 (47.00 m), S. 24 (56.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (46.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Dikili and Çandarlı Bays, S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 1 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 12 (62.10 m); Gulf of Gökova, S. 3 (80.40 m), S. 4 (46.20 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 8 (69.00 m); its occurrence is always frequent in the infralittoral and upper circalittoral zones. It is recorded rarely from lower circalittoral and upper epibathyal zones.

Genus *Elphidium* de Montfort, 1808
Elphidium aculeatum (d'Orbigny)
(Pl. 32, figs. 5-8)

- 1846 *Polystomella aculeata*, d'Orbigny, p. 131, pl. 6, figs. 27-28.
1972 *Elphidium aculeatum* (d'Orbigny), Rosset-Moulinier, p. 175.
1979 *Elphidium aculeatum* (d'Orbigny), Alfievic, p. 127, pl. 27, fig. 2.
1991 *Elphidium aculeatum* (d'Orbigny), Cimerman and Langer, p. 77, pl. 89, figs. 1-4.
2002 *Elphidium aculeatum* (d'Orbigny), Avşar, p. 65, pl. 4, figs. 16-17.

Occurrence: Gulf of Saros, S. 13 (156.00 m), S. 17 (33.90 m), S. 30 (90.50 m), S. 51 (12.30 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 18 (30.00 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 23 (10.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Bozcaada, S. 4 (0.50 m), S. 14 (0.50 m), S. 16 (0.50 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 9 (72.00 m), S. 14 (47.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 28 (39.00 m); Gulf of Edremit, S. 6 (15.00 m), S. 7 (19.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 3 (44.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 4 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 5 (137.00 m); Gulf of Gökova, S. 2 (27.00 m), S. 5 (34.50 m): it is abundant in the Eastern Aegean Sea and is reported from infralittoral to upper circalittoral zones. It is recorded rarely in lower circalittoral and lower epibathyal zones.

Elphidium advenum (Cushman)
(Pl. 32, figs. 9-10)

- 1922b cf. *Polystomella advena*, Cushman, p. 56, pl. 9, figs. 11-12.
1939 cf. *Elphidium advenum* (Cushman), Cushman, p. 60, pl. 16, figs. 31-35.
1949 cf. *Elphidium advenum* (Cushman), Said, p. 23, pl. 2, fig. 33.
1987 *Elphidium advenum* (Cushman), Baccaert, p. 248, pl. 102, figs. 1-2.
1991 *Elphidium* cf. *E. advenum* (Cushman), Cimerman and Langer, p. 77, pl. 89, figs. 5-7.
1992 *Elphidium advenum* (Cushman), Hatta and Ujiie, p. 203, pl. 49, figs. 3a-4b.
1994 *Elphidium advenum* (Cushman), Loeblich and Tappan, p. 168, pl. 379, figs. 1-4.
1995 *Elphidium advenum* (Cushman), Meriç et al., p. 109, pl. 13, fig. 3.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 12 (214.70 m), S. 15 (39.50 m), S. 17 (33.90 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.50 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 50

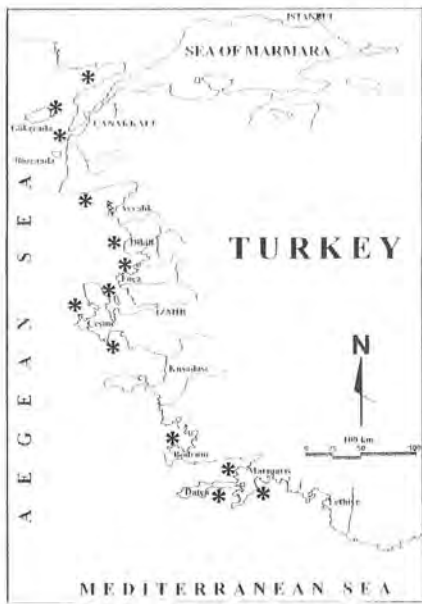
(41.00 m), S. 54 (94.50 m), S. 57 (52.00 m), S. 60 (55.00 m), S. 72 (500.00 m), S. 79 (29.00 m); Gökçeada, S. 3 (0.50 m), S. 16 (4.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 2 (32.40 m), S. 3 (59.60 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 15 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 3 (230.00 m), S. 6 (15.00 m), S. 8 (49.30 m), S. 10 (32.00 m), S. 14 (37.70 m), S. 15 (49.70 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 4 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 10 (22.50 m), S. 11 (52.00 m), S. 12 (25.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 3 (113.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 9 (67.00 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 4 (46.20 m), S. 5 (34.50 m); Gulf of Datça, S. 2 (45.00 m), S. 4 (40.00 m), S. 7 (56.40 m); Marmaris Bay, S. 3 (98.30 m), S. 6 (64.00 m), S. 8 (69.00 m): it occurs with higher frequencies in the Eastern Aegean Sea. This species is recorded mostly in infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper-lower epibathyal zones.

Elphidium complanatum (d'Orbigny)
(Pl. 32, figs. 11-12)

- 1839b *Polystomella complanata*. d'Orbigny, p. 129, pl. 2, figs. 35-36.
 1939 *Elphidium complanatum* (d'Orbigny), Cushman, p. 56, pl. 15, figs. 18-19.
 1958 *Elphidium complanatum* (d'Orbigny), Parker, p. 270, pl. 4, fig. 5.
 1993 *Elphidium complanatum* (d'Orbigny), Sgarella and Moncharmont-Zei, p. 228, pl. 20, figs. 9-10.
 1995 *Elphidium complanatum* (d'Orbigny), Meriç et al., p. 109, pl. 13, figs. 4 a-b.
 2002 *Elphidium complanatum* (d'Orbigny), Avşar, p. 65, pl. 4, figs. 18-19.

Occurrence: Gulf of Saros, S. 33 (70.00 m), S. 51 (12.30 m), S. 67 (550.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 16 (4.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m); Bozcaada, S. 2 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m),

- Figure 71 a. Distribution of *Cribroelphidium poeyanum* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 71 b. Distribution of *Porosononion subgranosum* (Egger) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 71 c. Distribution of *Elphidium aculeatum* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
 Figure 71 d. Distribution of *Elphidium advenum* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.



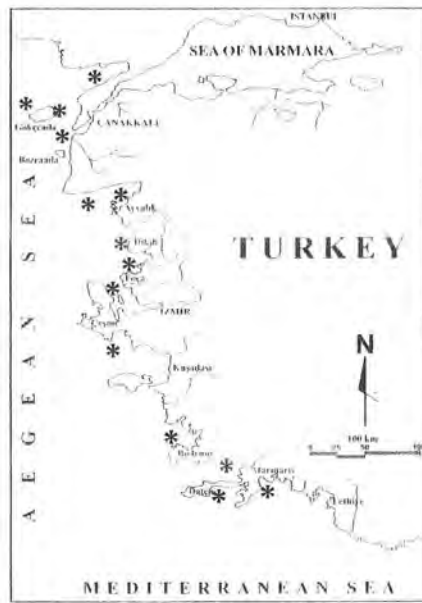
71a



71b



71c



71d

S. 14 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 13 (79.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 36 (82.00 m); Gulf of Edremit, S. 3 (230.00 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 10 (32.00 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 8 (35.80 m), S. 12 (25.50 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 2 (63.50 m), S. 5 (26.50 m); Çeşme, S. 11 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 2 (31.30 m), S. 6 (45.650 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 13 (72.50 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 6 (65.00 m); Gulf of Dağca, S. 2 (45.00 m), S. 4 (40.00 m), S. 5 (59.30 m); Marmaris Bay, S. 4 (71.80 m), S. 8 (69.00 m): its occurrence is always frequent. This species is reported abundantly from infralittoral to upper circalittoral zones. It occurs also in lower circalittoral and lower epibathyal zones.

Elphidium crispum (Linné)

(Pl. 33, figs. 3-6)

1758 *Nautilus crispus*, Linné, p. 709.

1960 *Elphidium crispum* (Linné), Barker, pl. 110, figs. 6-7.

1970 *Elphidium crispum* (Linné), v. Daniels, p. 87, pl. 7, fig. 7.

1974 *Elphidium crispum* (Linné), Colom, p. 143, figs. 26 e-j, m, n.

1976 *Elphidium crispum* (Linné), Hansen and Lykke-Andersen, p. 6, pl. 1, figs. 10-12; pl. 2, figs. 1-2.

1981 *Elphidium crispum* (Linné), Chasens, pl. 1, fig. 4.

1991 *Elphidium crispum* (Linné), Cimerman and Langer, p. 77-78, pl. 90, figs. 1-6.

1992 *Elphidium crispum* (Linné), Hatta and Ujiie, p. 203, pl. 49, figs. 5 a-b.

1993 *Elphidium crispum* (Linné), Sgarella and Moncharmont-Zei, p. 228, pl. 20, fig. 11.

1994 *Elphidium crispum* (Linné), Loeblich and Tappan, p. 168, 169, pl. 378, figs. 4-6.

1995 *Elphidium crispum* (Linné), Meriç et al., p. 109, pl. 13, figs. 5 a-c.

1999 *Elphidium crispum* (Linné), Hayward et al., p. 165, pl. 17, figs. 9-10.

2000 *Elphidium crispum* (Linné), Cann et al., pl. 7, figs. f, g.

2002 *Elphidium crispum* (Linné), Avşar, p. 65, pl. 4, fig. 20.

Occurrence: Gulf of Saros, S. 1 (27.00 m), S. 2 (15.50 m), S. 3 (34.60 m), S. 4 (50.90 m), S. 5 (43.00 m), S. 6 (70.00 m), S. 7 (90.00 m), S. 8 (55.70 m), S. 9 (71.80 m), S. 10 (68.50 m), S. 11 (79.60 m), S. 12 (214.70 m), S. 14 (84.00 m), S. 15 (39.50 m), S. 16 (71.10 m), S. 17 (33.90 m), S. 18 (88.10 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 23 (383.00 m), S. 24 (386.00 m), S. 29 (92.00 m), S. 30 (90.50 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 33 (70.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 37 (59.00 m), S. 38 (53.40 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 43 (51.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 47 (24.50 m), S. 48 (40.00 m), S. 49 (45.00 m), S. 50 (41.00 m), S.

51 (12.30 m), S. 52 (61.10 m), S. 53 (440.00 m), S. 54 (94.50 m), S. 55 (22.00 m), S. 56 (41.00 m), S. 57 (52.00 m), S. 58 (60.00 m), S. 60 (55.00 m), S. 61 (70.00 m), S. 63 (56.00 m), S. 64 (75.00 m), S. 67 (550.00 m), S. 69 (72.00 m), S. 70 (13.00 m), S. 71 (90.00 m), S. 72 (500.00 m), S. 76 (53.00 m), S. 77 (53.00 m), S. 78 (63.00 m), S. 79 (29.00 m), S. 80 (98.00 m); Gökçeada, S. 1 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 7 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 11 (0.50 m), S. 12 (0.50 m), S. 14 (55.00 m), S. 15 (3.00 m), S. 16 (4.00 m), S. 17 (4.00 m), S. 18 (30.00 m), S. 19 (4.00 m), S. 20 (3.00 m), S. 21 (15.00 m), S. 22 (3.00 m), S. 23 (10.00 m), S. 24 (68.00 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 31 (13.00 m), S. 33 (28.00 m); Bozcaada, S. 1 (0.50 m), S. 2 (0.50 m), S. 3 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 10 (0.50 m), S. 11 (7.00 m), S. 12 (0.50 m), S. 13 (0.50 m), S. 14 (0.50 m), S. 15 (0.50 m), S. 16 (0.50 m), S. 17 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 1 (49.50 m), S. 2 (32.40 m), S. 3 (59.60 m), S. 4 (85.50 m), S. 5 (137.50 m), S. 6 (92.00 m), S. 7 (18.00 m), S. 9 (72.00 m), S. 10 (57.00 m), S. 11 (63.00 m), S. 13 (79.00 m), S. 14 (47.00 m), S. 16 (47.00 m), S. 17 (39.00 m), S. 18 (69.00 m), S. 19 (73.00 m), S. 20 (71.00 m), S. 21 (47.00 m), S. 22 (45.00 m), S. 23 (58.00 m), S. 24 (56.00 m), S. 25 (74.00 m), S. 26 (72.00 m), S. 27 (70.00 m), S. 28 (39.00 m), S. 29 (50.00 m), S. 31 (75.00 m), S. 32 (45.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 35 (80.00 m), S. 36 (82.00 m), S. 37 (81.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 3 (230.00 m), S. 4 (76.30 m), S. 5 (125.00 m), S. 6 (15.00 m), S. 7 (19.00 m), S. 8 (49.30 m), S. 9 (49.60 m), S. 11 (55.60 m), S. 12 (64.20 m), S. 13 (31.00 m), S. 14 (37.70 m), S. 15 (49.70 m), S. 16 (82.00 m), S. 17 (47.40 m), S. 18 (29.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 6 (34.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 9 (49.00 m), S. 10 (22.50 m), S. 11 (52.00 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m), S. 5 (26.50 m); Çeşme, S. 2 (0.50 m), S. 4 (0.50 m), S. 5 (0.50 m), S. 6 (0.50 m), S. 7 (0.50 m), S. 8 (0.50 m), S. 9 (0.50 m), S. 11 (0.50 m), S. 12 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 1 (73.00 m), S. 2 (31.30 m), S. 3 (113.00 m), S. 5 (137.00 m), S. 6 (45.60 m), S. 7 (305.20 m), S. 8 (29.00 m), S. 9 (67.00 m), S. 10 (66.40 m), S. 11 (47.00 m), S. 12 (62.10 m), S. 13 (72.50 m), S. 14 (82.10 m), S. 15 (83.70 m); Gulf of Gökova, S. 1 (42.00 m), S. 2 (27.00 m), S. 3 (80.40 m), S. 4 (46.20 m), S. 5 (34.50 m), S. 6 (65.00 m), S. 8 (78.30 m); Gulf of Datça, S. 2 (45.00 m), S. 3 (139.50 m), S. 4 (40.00 m), S. 5 (59.30 m), S. 6 (56.10 m), S. 7 (56.40 m), S. 9 (147.00 m); Marmaris Bay, S. 1 (106.40 m), S. 2 (79.10 m), S. 3 (98.30 m), S. 4 (71.80 m), S. 5 (128.80 m), S. 6 (64.00 m), S. 7 (29.90 m), S. 8 (69.00 m). This species occurs more abundantly in the different gulfs and bays of Eastern Aegean Sea. It is reported abundantly from infralittoral to upper circalittoral zones. It occurs frequently in lower circalittoral and upper epibathyal zones.

Elphidium depressulum Cushman
(Pl. 33, figs. 7-8)

1933 *Elphidium advenum* Cushman var. *depressulum*, Cushman, p. 51, pl. 12,

fig. 4.

- 1964 *Elphidium advena* (Cushman) var. *depressula* Cushman, LeRoy, p. F-28, pl. 10, figs. 6-7.
1991 *Elphidium depressulum* Cushman, Cimerman and Langer, p. 78, pl. 90, figs. 7-8.
1994 *Elphidium depressulum* Cushman, Loeblich and Tappan, p. 169, pl. 379, figs. 5-11, pl. 386, figs. 9-10.

Occurrence: Gulf of Saros, S. 3 (34.60 m), S. 14 (84.00 m), S. 79 (29.00 m); Gökçeada, S. 3 (0.50 m), S. 7 (0.50 m), S. 9 (0.50 m), S. 10 (0.50 m), S. 25 (25.00 m), S. 26 (9.00 m), S. 27 (9.00 m), S. 28 (10.00 m), S. 29 (11.00 m), S. 30 (3.00 m), S. 32 (16.00 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 7 (18.00 m), S. 13 (79.00 m), S. 15 (47.00 m), S. 17 (39.00 m), S. 19 (73.00 m), S. 22 (45.00 m), S. 24 (56.00 m), S. 29 (50.00 m), S. 33 (39.00 m), S. 34 (38.00 m), S. 36 (82.00 m); Dikili and Çandarlı Bays, S. 1 (16.00 m), S. 2 (39.50 m), S. 3 (18.50 m), S. 5 (18.00 m), S. 7 (35.00 m), S. 8 (35.80 m), S. 10 (22.50 m), S. 12 (25.50 m), S. 14 (21.00 m); Gulf of Izmir and vicinity of Karaburun Peninsula, S. 1 (51.50 m), S. 2 (63.50 m), S. 3 (44.00 m), S. 4 (40.00 m); Çeşme, S. 1 (0.50 m), S. 5 (0.50 m); Gulf of Kuşadası and Güllük Bay, S. 7 (305.20 m), S. 9 (67.00 m), S. 10 (66.40 m); Gulf of Gökova, S. 1 (42.00 m), S. 4 (46.20 m), S. 6 (65.00 m); Gulf of Datça, S. 4 (40.00 m); Marmaris Bay, S. 4 (71.80 m): it occurs frequently in Eastern Aegean Sea. This species is reported from infralittoral and upper circalittoral zones. It occurs rarely in the upper epibathyal zone.

Elphidium jenseni (Cushman)

- 1924 *Elphidium jenseni*, Cushman, p. 49, pl. 16, figs. 4, 6.
1933 *Elphidium jenseni* Cushman, Cushman, p. 48, pl. 11, figs. 6-7.
1939 *Elphidium jenseni* Cushman, Cushman, p. 62, pl. 17, figs. 14-15.
1954 *Elphidium jenseni* Cushman, Todd and Post, p. 346, pl. 86, fig. 32.
1987 *Elphidium jenseni* Cushman, Baccaert, p. 254, pl. 103, figs. 6 a-b.
1991 *Elphidium jenseni* Cushman, Cimerman and Langer, p. 78, pl. 92, figs. 1-3.
1992 *Elphidium jenseni* Cushman, Hatta and Ujiie, p. 203, pl. 49, figs. 6 a-b.
1994 *Elphidium jenseni* Cushman, Loeblich and Tappan, p. 169, pl. 381, figs. 1-5.
1997 *Elphidium jenseni* Cushman, Haunold et al., p. 202, fig. 13.

Occurrence: Dikili and Çandarlı Bays, S. 4 (18.50 m): this species is very rare. It occurs only in one sample coming from the infralittoral zone.

Elphidium macellum (Fichtel and Moll)
(Pl. 33, fig. 9)

- 1798 *Elphidium macellum* var. *beta*, Fichtel and Moll, p. 66, pl. 10, figs. h-k.
1939 *Elphidium macellum* (Fichtel and Moll), Cushman, p. 51-52, pl. 14, figs. 1-3; pl. 15, figs. 9-10.

- 1984 *Elphidium macellum* (Fichtel and Moll), Rögel and Hansen, p. 50, pl. 14, fig. 4; pl. 15, figs. 1-2.
- 1987 *Elphidium crispum* forma *macellum* (Fichtel and Moll), Jorissen, pl. 3, figs. 9 a-b.
- 1991 *Elphidium macellum* (Fichtel and Moll), Cimerman and Langer, p. 78-79, pl. 89, fig. 9.
- 1993 *Elphidium macellum* (Fichtel and Moll), Sgarella and Moncharmont-Zei, p. 229, pl. 20, fig. 12.
- 1995 *Elphidium macellum* (Fichtel and Moll), Meriç et al., p. 109, pl. 13, figs. 6 a-b.
- 2000 *Elphidium macellum* (Fichtel and Moll), Cann et al., pl. 7, figs. j, k.
- 2002 *Elphidium macellum* (Fichtel and Moll), Kaminski et al., p. 25, pl. 5, fig. 11.

Occurrence: Gulf of Saros, S. 12 (214.70 m), S. 14 (84.00 m), S. 19 (96.50 m), S. 21 (97.40 m), S. 23 (383.00 m), S. 28 (115.50 m), S. 29 (92.00 m), S. 31 (83.80 m), S. 32 (67.00 m), S. 34 (82.00 m), S. 35 (195.00 m), S. 36 (74.00 m), S. 39 (37.70 m), S. 40 (77.30 m), S. 41 (81.00 m), S. 42 (27.50 m), S. 44 (26.20 m), S. 45 (33.50 m), S. 46 (40.20 m), S. 48 (40.00 m), S. 49 (45.00 m), S. 50 (41.00 m), S. 51 (12.30 m), S. 53 (440.00 m), S. 54 (94.50 m); Gökçeada, S. 3 (0.50 m), S. 8 (0.50 m), S. 11 (0.50 m), S. 26 (9.00 m), S. 29 (11.00 m), S. 32 (16.00 m); Bozcaada, S. 2 (0.50 m); Gökçeada-Bozcaada-Çanakkale triangle, S. 4 (85.50 m), S. 10 (57.00 m), S. 21 (47.00 m), S. 24 (56.00 m), S. 27 (70.00 m), S. 29 (50.00 m), S. 34 (38.00 m); Gulf of Edremit, S. 1 (334.50 m), S. 2 (100.40 m), S. 4 (76.30 m), S. 8 (49.30 m), S. 17 (47.40 m); Gulf of Kuşadası and Güllük Bay, S. 9 (67.00 m), S. 13 (72.50 m), S. 15 (83.70 m): it is reported frequently from infralittoral and upper circalittoral zones. It is rare in lower circalittoral and upper epibathyal zones.

Elphidium maioricense Colom

- 1942 *Elphidium maioricensis*, Colom, p. 34, pl. 10, figs. 189-193.
- 1974 *Elphidium maioricensis* Colom, Colom, p. 144, figs. 26 a-d.
- 1991 *Elphidium maioricensis* Colom, Cimerman and Langer, p. 79, pl. 91, fig. 7.
- 1993 *Elphidium maioricense* Colom, Sgarella and Moncharmont-Zei, p. 229, pl. 21, figs. 10-13.

- Figure 72 a. Distribution of *Elphidium complanatum* (d'Orbigny) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 72 b. Distribution of *Elphidium crispum* (Linné) in the Eastern Aegean Sea, Turkish Coasts.
- Figure 72 c. Distribution of *Elphidium depressulum* Cushman in the Eastern Aegean Sea, Turkish Coasts.
- Figure 72 d. Distribution of *Elphidium jenseni* (Cushman) in the Eastern Aegean Sea, Turkish Coasts.



72 a



72 b



72 c



72 d

Occurrence: Gulf of Saros, S. 63 (96.00 m): this species is recorded only in one sample in northeastern Aegean Sea. It is rare in the upper circalittoral zone.

Elphidium cf. pulvereum Todd
(Pl. 33, fig. 10)

1958 *Elphidium pulvereum* Todd, Parker, p. 271, pl. 4, fig. 6.

1991 *Elphidium* sp., Cimerman and Langer, p. 80, pl. 93, figs. 8-9.

1993 *Elphidium pulvereum* Todd, Sgarella and Moncharmont-Zei, p. 230, pl. 21, fig. 6.

2001 *Elphidium pulvereum* Todd, Debenay et al., pl. 6, fig. 6.

Occurrence: Gulf of Saros, Harmantaşı locality, central part (20.10 m); Gökçeada, S. 28 (10.00 m): its occurrence is always very rare in the infralittoral zone.

Figure 73 a. Distribution of *Elphidium macellum* (Fichtel and Moll) in the Eastern Aegean Sea, Turkish Coasts.

Figure 73 b. Distribution of *Elphidium maioricense* Colom in the Eastern Aegean Sea, Turkish Coasts.

Figure 73 c. Distribution of *Elphidium pulvereum* Todd in the Eastern Aegean Sea, Turkish Coasts.



73 a



73 b



73 c

CONCLUSIONS

Of the 244 benthic foraminifers in the Eastern Aegean Sea, along the Turkish Coasts, the dominant species include *Elphidium crispum* (Linné) (264 stations), *Lobatula lobatula* (Walker and Jacob) (215 stations), *Rosalina bradyi* Cushman (193 stations), *Textularia bocki* Höglund (189 stations), *Ammonia compacta* Hofker (188 stations), *Triloculina marioni* Schlumberger (183 stations), *Adelosina cliarensis* (Heron-Allen and Earland) (165 stations), *Planorbulina mediterraneensis* (d'Orbigny) (164 stations), *Quinqueloculina seminula* (Linné) (161 stations), *Ammonia parkinsoniana* (d'Orbigny) (149 stations), *Miliolinella subrotunda* (Montagu) (141 stations), *Adelosina mediterraneensis* (Le Calvez J. and Y.) (140 stations), *Spiroloculina excavata* d'Orbigny (132 stations), *Melonis pompilioides* (Fichtel and Moll) (129 stations), *Adelosina pulchella* d'Orbigny (112 stations); the recessive species include *Hyperammina friabilis* Haake, *Reophax dentaliformis* (Brady), *Haplophragmoides canariensis* (d'Orbigny), *Alveophragmium scitulum* (Brady), *Patellina corrugata* Williamson, *Trisegmentina compressa* Wiesner, *Wiesnerella auriculata* (Egger), *Edentostomina cultrata* (Brady), *Adelosina carinata-striata* Wiesner, *A. italica* (Terquem), *Quinqueloculina neapolitana* Sgaerella and Moncharmont-Zei, *Q. poeyana* d'Orbigny, *Q. vulgaris* d'Orbigny, *Miliolinella labiosa* (d'Orbigny), *Pyrgo comata* (Brady), *Triloculina* cf. *fichteliana* d'Orbigny, *Wellmanellinella striata* (Sidebottom), *Articulina tubulosa* (Seguenza), *Dentalina albatrossi* (Cushman), *D. mucronata* Neugeboren, *Laevidentalina inflexa* (Reuss), *Lenticulina gibba* (d'Orbigny), *Saracenaria italica* Defrance, *Astacolus insolithus* (Schwager), *Lagena nebulosa* Cushman, *L. semistriata* Williamson, *Globulina punctata* d'Orbigny, *Favulina squamosa* (Montagu), *Fissurina lucida* (Williamson), *F. neptunii* (Buchner), *F. orbignyana* Seguenza, *Rectobolivina columellaris* (Brady), *Planopulvinulina dispansa* (Brady), *Neonorbellina orbicularis* (Terquem), *Conorbella erecta* (Sidebottom), *Asterigerinata adriatica* Haake, *Pullenia quinqueloba* (Reuss), *Elphidium jensenii* (Cushman), *E. maioricense* Colom (1 station); *Psammosphaera fusca* Schulze, *Lagenammina atlantica* (Cushman), *Bigenerina cylindrica* Cushman, *Spiroloculina pellucida* Said, *S. rostrata* Reuss, *Siphonaperta dilatata* (Le Calvez J. and Y.), *S. irregularis* (d'Orbigny), *Quinqueloculina stalkerii* Loeblich and Tappan, *Biloculinella elongata* (Wiesner), *Triloculina* cf. *ornata* Le Calvez J. and Y., *T. serrulata* McCulloch, *Sigmoilinita tenuis* (Czjzek), *Articulina alticostata* Rhumbler, *Lenticulina calcar* (Linné), *Astacolus sublegumen* (Parr), *Globulina myristiformis* (Williamson), *Fissurina sidebottomi* (Buchner), *Parafissurina lateralis* (Cushman), *P. staphyllearia* (Schwager), *Glandulina laevigata* (d'Orbigny), *Brizalina striatula* (Cushman), *Cibicides refulgens* Montfort, *Planogypsina acervalis* (Brady), *Elphidium pulvereum* Todd (2 stations); *Trochammina inflata* (Montagu), *Eggerelloides advenus* (Cushman), *Adelosina elegans* (Williamson), *Stainforthia complanata* (Egger), *Fursenkoina acuta* (d'Orbigny), *Cancris sagra* (d'Orbigny) (3 stations).

Another significance of this foraminifer population is the existence of *Astacolus insolithus* (Schwager), *A. sublegumen* (Parr), *Stomatorbina* sp., *Planogypsina acervalis* (Brady), *P. squamiformis* (Chapman) and *Amphistegina*

lobifera Larsen in various locations in the Eastern Aegean Sea. Genera and species such as *Astacolus insolitus* (Schwager), *A. sublegumen* (Parr) and *Stomatorbina* sp. are recently found in the Pacific Ocean (Hatta and Ujiie, 1992). On the other hand, *Planogypsina acervalis* (Brady), *P. squamiformis* (Chapman) and *Amphistegina lobifera* Larsen have commonly been found in the Red Sea (Hottinger et al., 1993). *Amphistegina lobifera* Larsen, commonly known as "Lessepsian Migrants" (Reiss and Hottinger, 1984) have been previously reported from the Eastern Mediterranean (Alavi, 1988; Yanko, 1995; Avşar, 1997; Avşar et al., 2001). This species is also found within several gulfs in the Aegean Sea including Gulf of Gökova (stations 2 and 5), Gulf of Datça (stations 2 and 4), and Marmaris Bay (stations 4, 6, and 8) as well as in the southeastern shores of Gökçeada Island (station 30) (Meriç and Avşar, 2001). Found at least in 4 different locations along the Turkish Coasts in Eastern Mediterranean, this species is hypothesized to have migrated northward from Northern Red Sea into Mediterranean, following the opening of the Suez Canal, and consequently settled in the Haifa Bay, Gulfs of Iskenderun and Antalya, later moving east to the Marmaris Bay, Gulf of Datça, Gulf of Gökova, as well as to the eastern shores of Gökçeada Island (Meriç et al., 2002). *Astacolus insolitus* (Schwager) is found in only in one sample in the Gulf of Gökova (station 3). Similarly, *Astacolus sublegumen* (Parr) is found only in one sample collected from the Gulf of Edremit (station 18) further north. An interesting finding is the discovery of a yet unnamed *Stomatorbina* sp. (Hatta and Ujiie, 1992) in large quantities in all five samples recovered from the Marmaris Bay (stations 1, 2, 3, 4, and 5). Moreover, species *Planogypsina acervalis* (Brady) and *P. squamiformis* (Chapman), belonging to the genus *Planogypsina* were found for the first time, around submarine freshwater springs located on a submerged hill called "Harmantaşı" at 20.10 m depth in northern Gulf of Saros (Meriç et al., 2002).

Species such as *Coscinospira hemprichii* Ehrenberg, *Laevipeneroplis karreri* (Wiesner), *Peneroplis pertusus* (Forsk.) (Forsk.), *P. planatus* (Fichtel and Moll), and *Sorites orbiculus* Ehrenberg, that are observed in various locations in the Eastern Aegean Sea, also have significance in the region. For instance, *Coscinospira hemprichii* Ehrenberg was found in the Ilıca Bay, in the vicinity of Çeşme on the Karaburun Peninsula. Here, the species is present around submarine thermal springs at 58-60 °C temperature and at a depth of 2.50 meters. This indicates that the species is able to survive only here because of different ecological environment conditions created around submarine thermal springs in various locations in the Eastern Aegean (Avşar and Meriç, 2001). Another species, *Laevipeneroplis karreri* (Wiesner), was found in several locations and depths around east and northwest of the Gökçeada Island (stations 26 and 29), southwest of the Bozcaada Island (station 10), Gulf of Kuşadası (station 2), and in the Gulf of Datça (stations 2 and 4). Furthermore, it should be noted that, large quantities of *Peneroplis pertusus* (Forsk.) and *P. planatus* (Fichtel ve Moll) were found in samples obtained from the east of Gökçeada Island, east and southwest of Bozcaada Island, north of Gulf of Edremit, Dikili Bay, vicinity of Karaburun Peninsula, Çeşme (Ilıca Bay) and in the Güllük Bay, Gulfs of Gökova, Datça and Marmaris Bay. In particular, red-brownish coloration of *Peneroplis* tests obtained from the vicinity of Gökçeada and Bozcaada Islands is due to dissolved iron minerals commonly found in thermal springs that

change the ecological setting of the region (Meriç and Avşar, 2001; Meriç et al., 2002a). As an addition, the very existence of *Sorites orbiculus* Ehrenberg in east of Gökçeada (station 30), Çeşme (Ilica Bay) (in 5 samples), in the Gulf of Gökova (stations 2 and 5) and around the Marmaris Bay (station 8) can be submitted as evidence for altered ecological settings following the development of faulting related submarine hot springs. Existence of these four genera and species, typical of the Eastern Mediterranean, under pointwise changing ecological setting, is interpreted to be existence of many hot springs in the tectonically active Aegean Sea.

The peninsula in the east of Gulf of Kolpos, which is located in the southeastern corner of the Lesbos Island, contains numerous thermal springs. These are brackish springs and their temperature vary in the range of 39.7-69.0 °C (Meriç et al., 2002b). On the other hand, hot springs located in south of Milos Island (western Aegean) are only at 10.00 meters depth and contain a variety of species (Thiermann et al., 1997). This environment resembles the concept of an oasis that contain many different lifeforms in the middle of a desert. Similarly, hydrothermal springs on many gulfs of the Methana Peninsula, located on the Hellenic Volcanic Arc, as well as on several other localities off the coast of Milos, Kos and Yali Islands have been documented by Varnavas et al. (1999).

As a conclusion, it is hypothesized that the larva of a species of lifeforms, including foraminifers, most of which has originated in the Mediterranean Sea, Atlantic and Indian Oceans, as well as in Red Sea, found new living environments in the hot spots of the Aegean as they drifted from south to north. The hot springs of the Aegean most probably formed as a result of young faulting in the region.

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PLATES

(1-33)

PLATE 1

1. *Rhabdammina abyssorum* Sars. External view, x 75, Gulf of Saros, S. 16.
2. *Psammosphaera fusca* Schulze. External view, x 50, Gulf of Saros, S. 29.
3. *Lagenammina fusiformis* (Williamson). External view, x 100, Gulf of Saros, S. 11.
4. *Lagenammina fusiformis* (Williamson). External view, x 90, Dikili Bay, S. 2.
5. *Ammodiscus planorbis* Höglund. External view, x 150, Gulf of Saros, S. 19.
6. *Ammodiscus planorbis* Höglund. External view, x 85, Gökçeada-Bozcaada-Çanakkale triangle, S. 5.
7. *Ammodiscus planorbis* Höglund. External view, x 100, Gulf of Gökova, S. 10.
8. *Reophax scorpiurus* Montfort. External view, x 75, Gulf of Saros, S. 4.
- 9-10. *Labrospira subglobosa* (Sars). External views, x 150, Gulf of Datça, S. 6.
11. *Ammoscalaria pseudospiralis* (Williamson). External view, x 60, Gulf of Saros, S. 20.
12. *Discammina compressa* (Goes). External view, x 75, Dikili Bay, S. 8.
13. *Spiroplectinella sagittula* (d'Orbigny). External view, x 70, Dikili Bay, S. 8.

PLATE 1

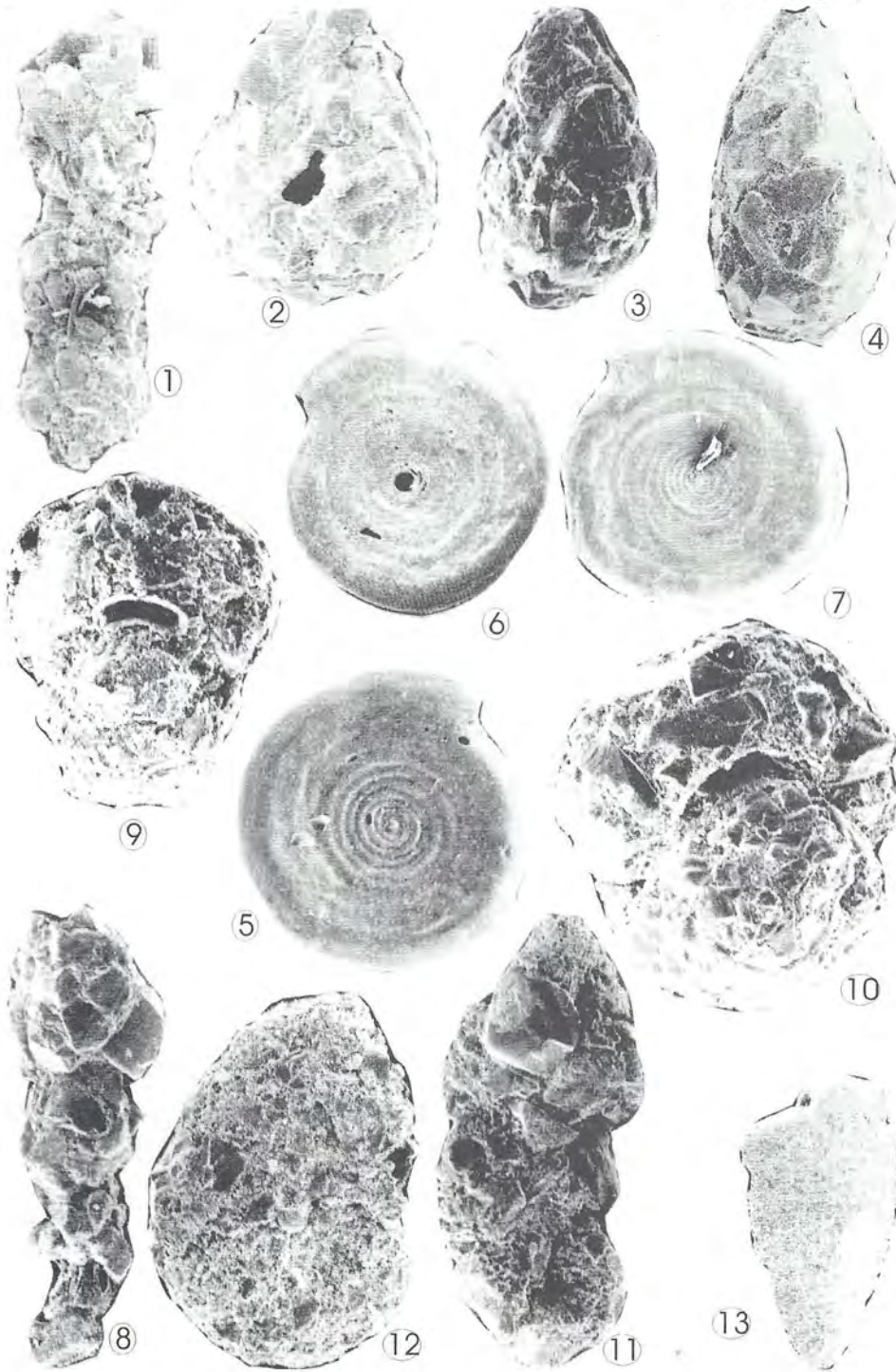


PLATE 2

- 1-2. *Spiroplectinella sagittula* (d'Orbigny). External views, x 75, Gökçeada, S. 32.
3. *Eggerelloides scabrus* (Williamson). External view, x 130, Gulf of Saros, S. 17.
4. *Eggerelloides scabrus* (Williamson). External view, x 120, Gökçeada, S. 28.
5. *Eggerelloides scabrus* (Williamson). External view, x 65, Gulf of Edremit, S. 18.
6. *Bigenerina cylindrica* Cushman. External view, x 75, Gulf of Saros, S. 26.
7. *Bigenerina nodosaria* d'Orbigny. External view, x 75, Gulf of Saros, S. 4.
8. *Textularia bocki* Höglund. External view, x 80, Dikili Bay, S. 6.
9. *Textularia bocki* Höglund. External view, x 60, Dikili Bay, S. 7.
10. *Textularia bocki* Höglund. External view, x 70, Dikili Bay, S. 8.
- 11-12. *Textularia conica* d'Orbigny. External views, x 70, Gulf of Datça, S. 3.
13. *Textularia pseudorugosa* Lacroix. External view, x 55, Gulf of İzmir, S. 2.
- 14-15. *Textularia pseudorugosa* Lacroix. External views, x 50, Marmaris Bay, S. 4.

PLATE 2

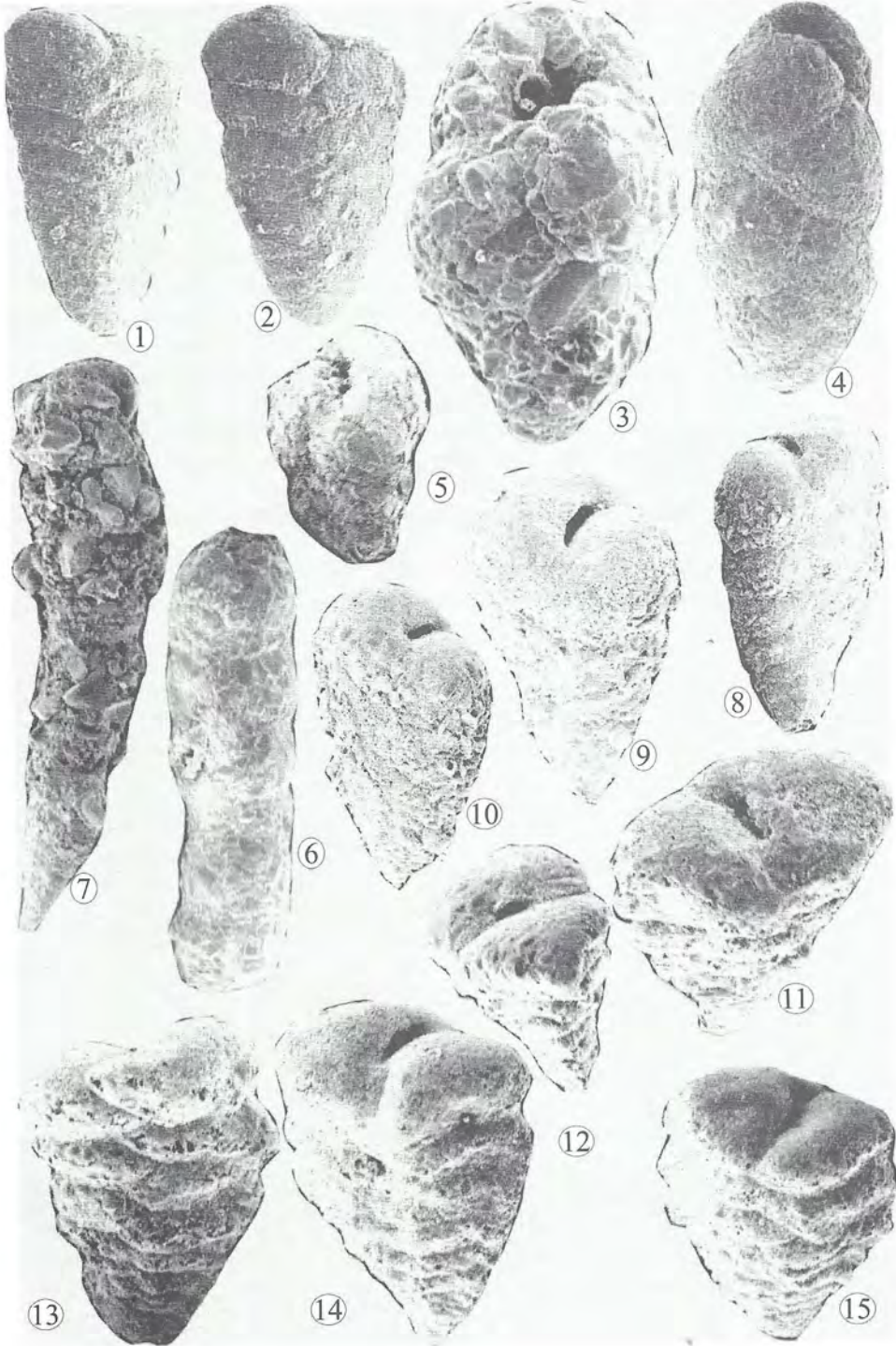


PLATE 3

1. *Textularia truncata* Höglund. External view, x 100, Dikili Bay, S. 8.
2. *Textularia truncata* Höglund. External view, x 145, Gökçeada, S. 32.
3. *Siphotextularia concava* (Karrer). External view, x 95, Gökçeada, S. 25.
4. *Siphotextularia concava* (Karrer). External view, x 100, Gulf of İzmir, S. 1.
5. *Connemarella rudis* (Wright). External view, x 55, Çandarlı Bay, S. 9.
6. *Connemarella rudis* (Wright). External view, x 65, Gulf of İzmir, S. 2.
7. *Connemarella rudis* (Wright). External view, x 55, Güllük Bay, S. 12.
8. *Pseudoclavulina crustata* Cushman. External view, x 70, Gulf of Saros, S. 13.
9. *Pseudoclavulina crustata* Cushman. Abnormal individual, external view, x 24, Gulf of Gökova, S. 6.
10. *Spirillina limbata* Brady. External view, x 120, Marmaris Bay, S. 1.
- 11-12. *Spirillina vivipara* Ehrenberg. External views, x 70, Gulf of Kuşadası, S. 3.

PLATE 3

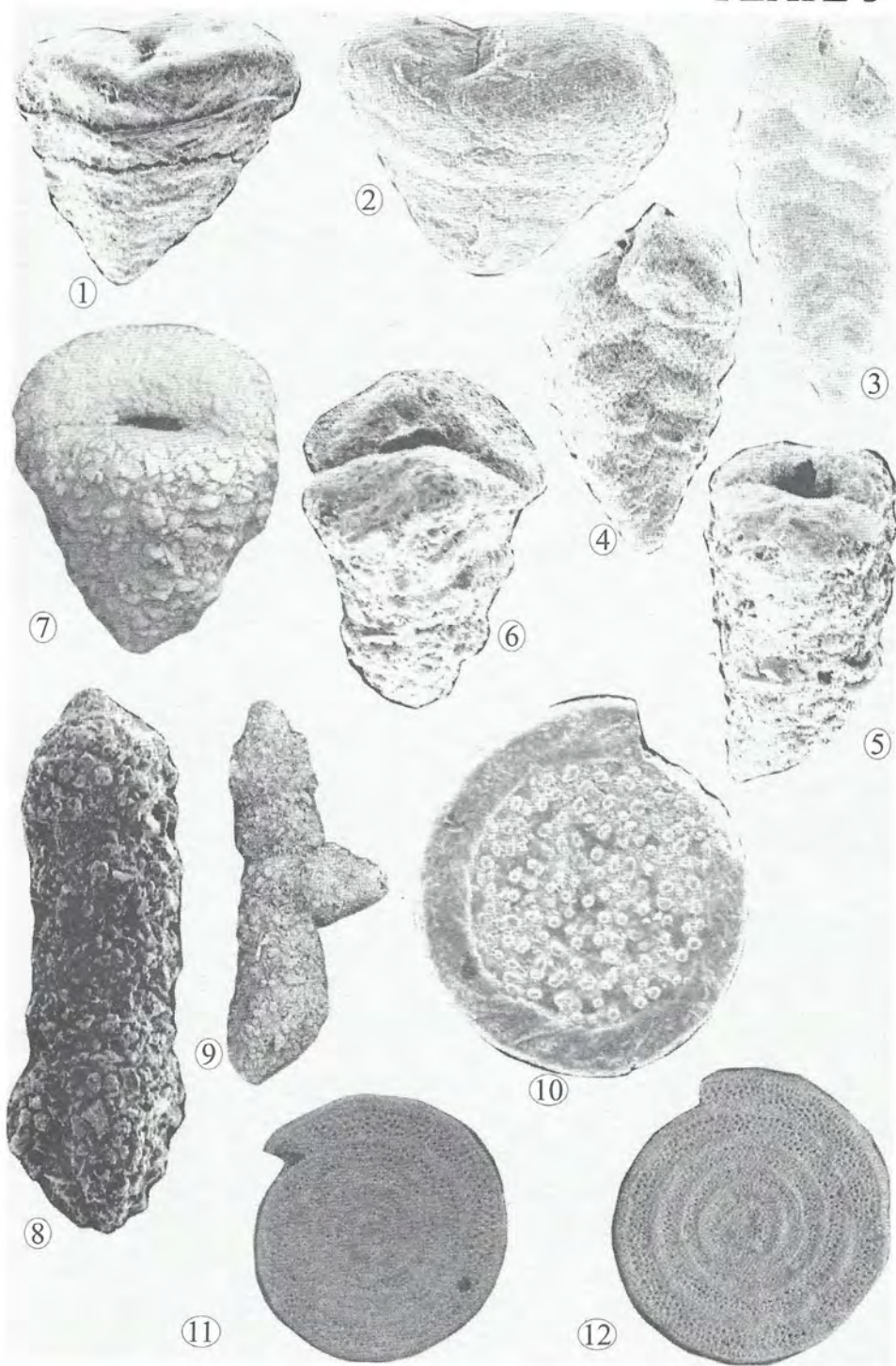


PLATE 4

1. *Cornuspira foliacea* Philippi. External view, x 35, Gulf of Saros, S. 21.
2. *Cornuspira foliacea* Philippi. External view, x 40, Güllük Bay, S. 15.
3. *Cornuspira involvens* (Reuss). External view, x 75, Gulf of Saros, S. 12.
4. *Cornuspira involvens* (Reuss). External view, x 45, Güllük Bay, S. 9.
- 5-6. *Trisegmentina compressa* Wiesner. External views, x 140, Gökçeada, S. 29.
7. *Vertebralina striata* d'Orbigny. External view, x 75, Bozcaada, S. 2.
8. *Vertebralina striata* d'Orbigny. External view, x 75, Çandarlı Bay, S. 12.
9. *Wiesnerella auriculata* (Egger). External view, x 150, Gökçeada, S. 25.
10. *Nubecularia lucifuga* Defrance. External view, dorsal side, x 90, Dikili Bay, S. 1.
11. *Nubecularia lucifuga* Defrance. External view dorsal side, x 85, Dikili Bay, S. 1.
12. *Nubecularia lucifuga* Defrance. External view, x 70, attached side, Çandarlı Bay, S. 14.

PLATE 4

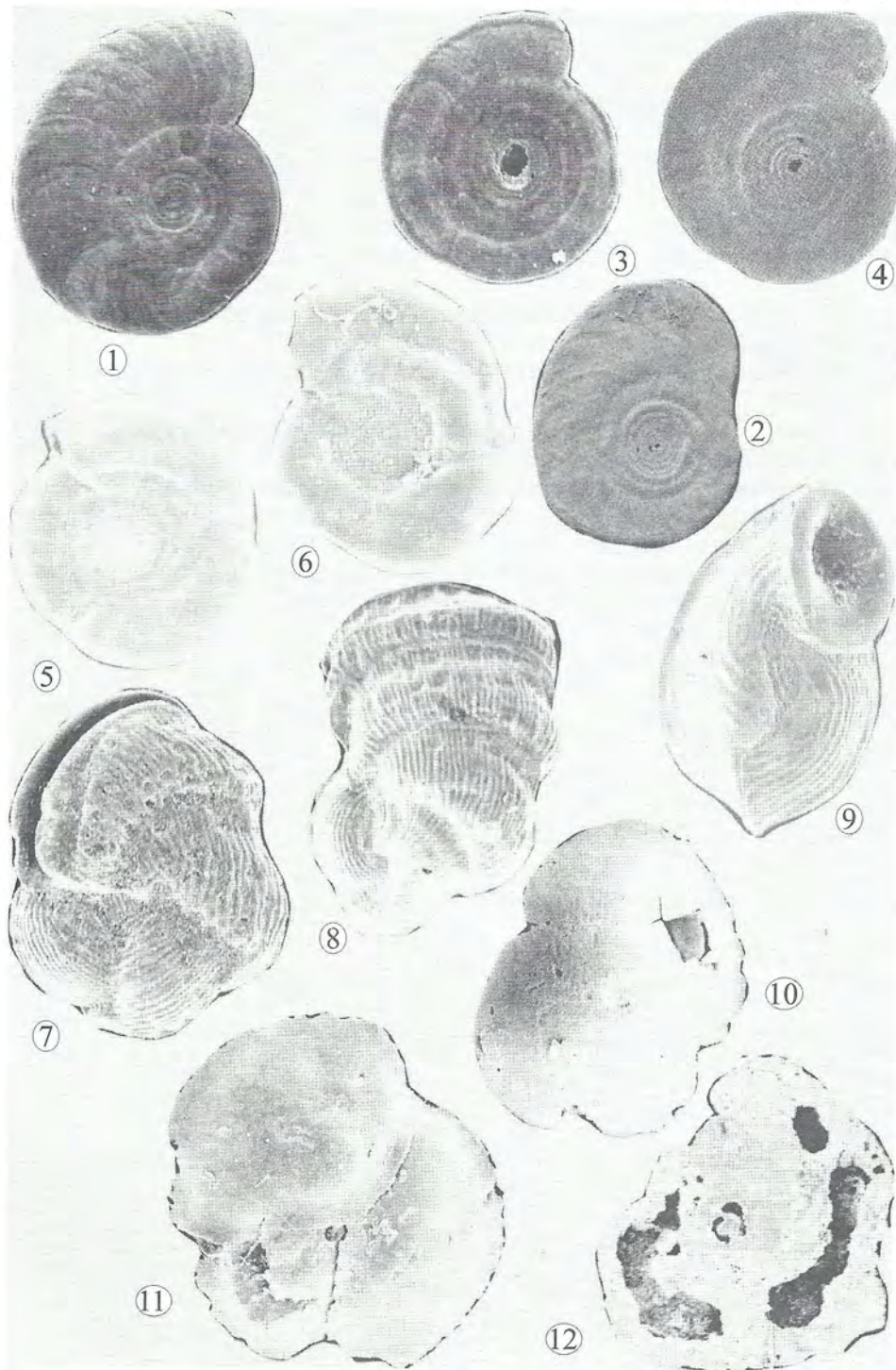


PLATE 5

1. *Edenstostomina cultrata* (Brady). External view, x 100, Marmaris Bay, S. 7.
- 2-3. *Adelosina cliarensis* (Heron-Allen and Earland). External views, x 85, Gökçeada, S. 16.
- 4-5. *Adelosina cliarensis* (Heron-Allen and Earland). External views, x 80, Dikili Bay, S. 8.
6. *Adelosina duthiersi* Schlumberger. External view, x 40, Gulf of Saros, S. 3.
7. *Adelosina duthiersi* Schlumberger. External view, x 50, Bozcaada, S. 11.
8. *Adelosina italica* (Terquem). External view, x 75, Gulf of Saros, S. 3.
- 9-10. *Adelosina mediterraneensis* (Le Calvez, J. and Y.). External views; 9, x 75; 10, x 95, Gulf of Saros, S. 25.
- 11-13. *Adelosina mediterraneensis* (Le Calvez, J. and Y.). External views; 11, x40, Dikili Bay, S. 5; 12, x 40, Dikili Bay, S. 7; 13, x 70, Dikili Bay, S. 8.

PLATE 5

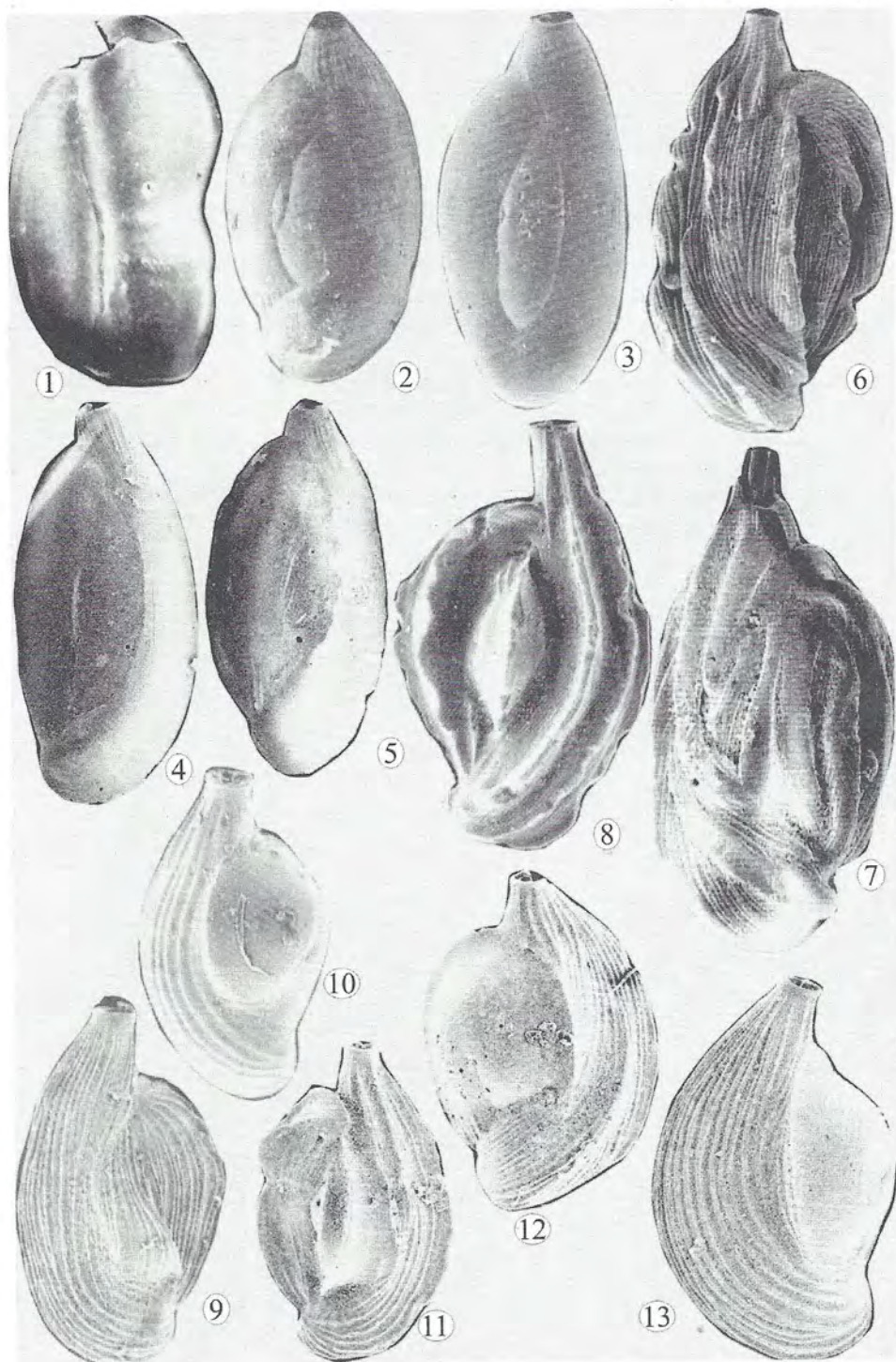


PLATE 6

1. *Adelosina partschi* (d'Orbigny). External view, x 40, Bozcaada, S. 11.
- 2-3. *Adelosina pulchella* d'Orbigny. External views, x 50, Gulf of Saros, S. 18.
4. *Adelosina pulchella* d'Orbigny. External view, x 60, Bozcaada, S. 10.
5. *Adelosina pulchella* d'Orbigny. External view, x 65, Gulf of İzmir, S. 1.
6. *Spiroloculina angulosa* Terquem. External view, x 100, Gökçeada-Bozcaada-Çanakkale triangle, S. 2.
7. *Spiroloculina angulosa* Terquem. External view, x 65, Gulf of İzmir, S. 2.
8. *Spiroloculina angulosa* Terquem. External view, x 75, Gulf of Dağça, S. 1.
9. *Spiroloculina corrugata* Cushman and Todd. External view, x 75, vicinity of Karaburun Peninsula, S. 3.
10. *Spiroloculina depressa* d'Orbigny. External view, x 65, Gulf of Saros, S. 18.
11. *Spiroloculina dilatata* d'Orbigny. External view, x 80, Çandarlı Bay, S. 14.

PLATE 6

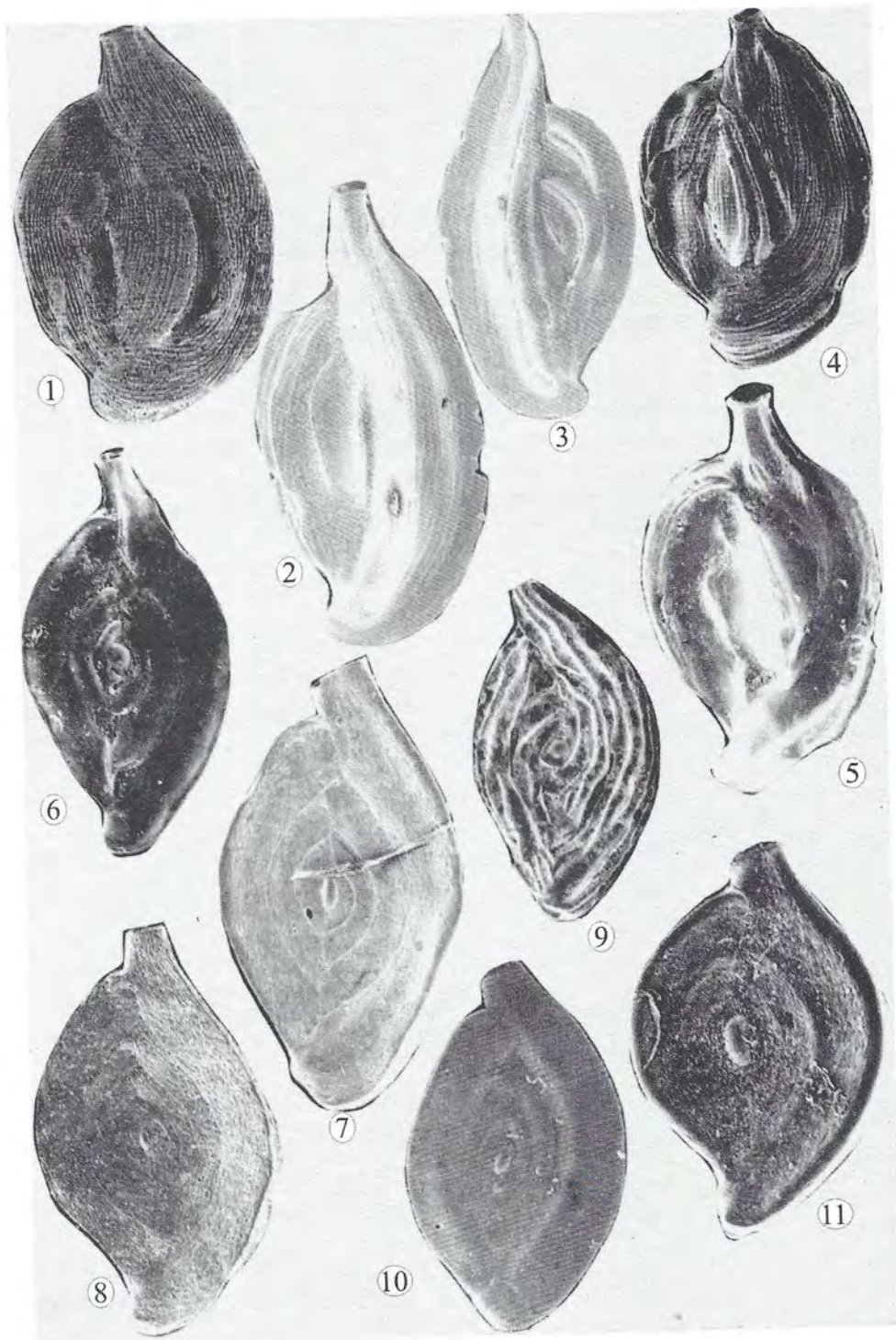


PLATE 7

1. *Spiroloculina excavata* d'Orbigny. Edge view, x 150, Dikili Bay, S. 8.
2. *Spiroloculina excavata* d'Orbigny. External view, x 75, Çandarlı Bay, S. 14.
- 3-4. *Spiroloculina ornata* d'Orbigny. External views, x 100, Dikili Bay, S. 8.
- 5-6. *Spiroloculina tenuiseptata* Brady. External views, x 100, Çandarlı Bay, S. 13.
7. *Spiroloculina tenuiseptata* Brady. External view, x 90, Gulf of İzmir, S. 2.
8. *Siphonaperta agglutinans* (d'Orbigny). External view, x 75, Bozcaada, S. 10.
- 9-10. *Siphonaperta aspera* (d'Orbigny). External views, x 95, Gökçeada, S. 32.
- 11-12. *Cycloforina contorta* (d'Orbigny). External views, x 105, Gökçeada, S. 32.
13. *Cycloforina contorta* (d'Orbigny). External view, x 70, Dikili Bay, S. 5.

PLATE 7

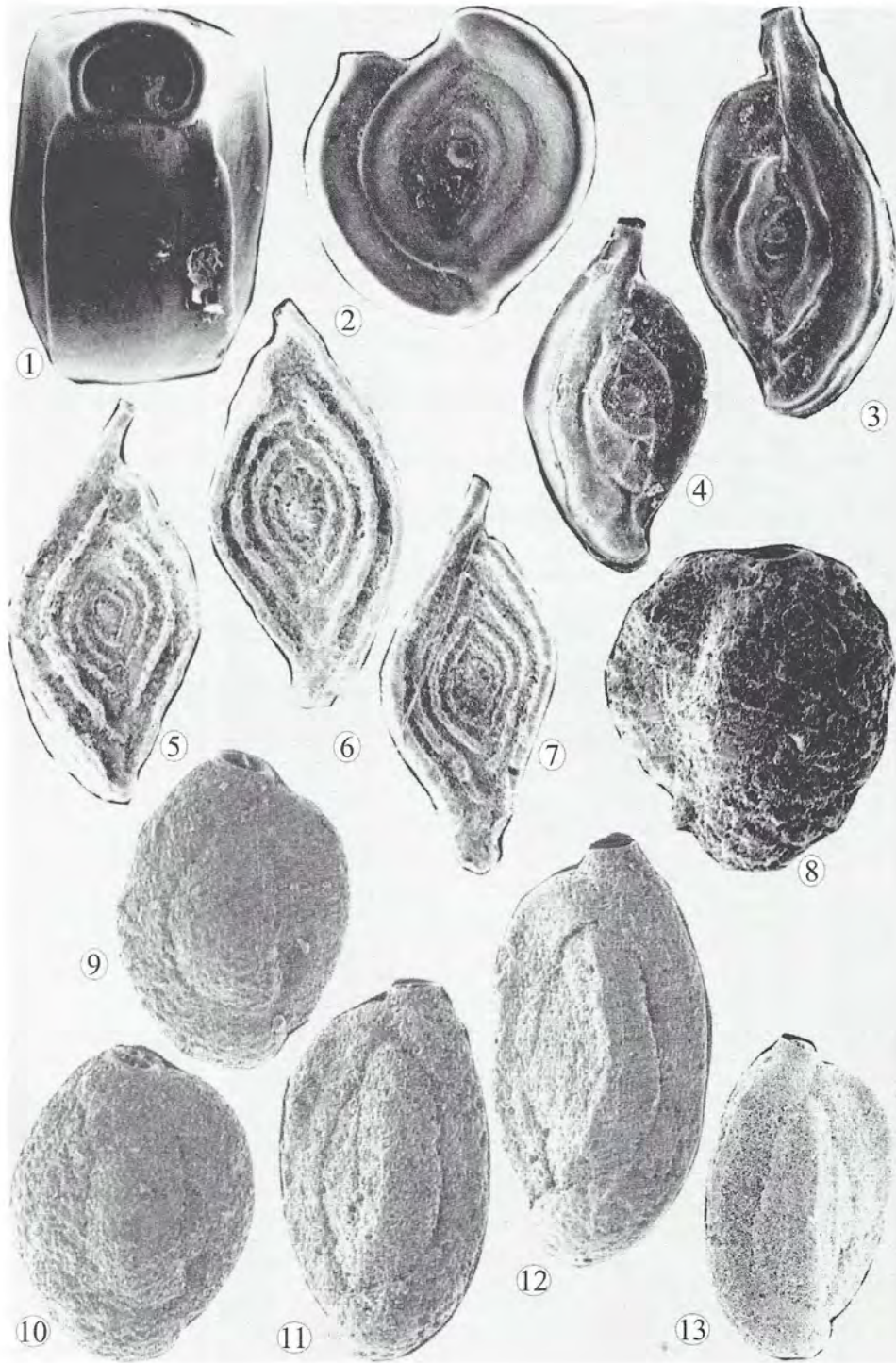


PLATE 8

1. *Cycloforina rugosa* (d'Orbigny). External view, x 120, Gökçeada-Bozcaada-Çanakkale triangle, S. 1.
2. *Cycloforina villafranca* (Le Calvez, J. and Y.). External view, x 80, Çandarlı Bay, S. 13.
3. *Cycloforina villafranca* (Le Calvez, J. and Y.). External view, x 60, Gulf of Saros, S. 3.
4. *Lachlanella bicornis* (Walker and Jacob). External view, x 80, Dikili Bay, S. 5.
- 5-6. *Lachlanella bicornis* (Walker and Jacob). External views, x 60, Gulf of Edremit, S. 2.
7. *Lachlanella bicornis* (Walker and Jacob). External view, x 65, Gulf of İzmir, S. 2.
8. *Lachlanella bicornis* (Walker and Jacob). External view, x 120, Dikili Bay, S. 8.
9. *Lachlanella bicornis* (Walker and Jacob). External view, x 100, Dikili Bay, S. 8.
10. *Lachlanella variolata* (d'Orbigny). Enlargement of external view, x 700, Dikili Bay, S. 8.

PLATE 8

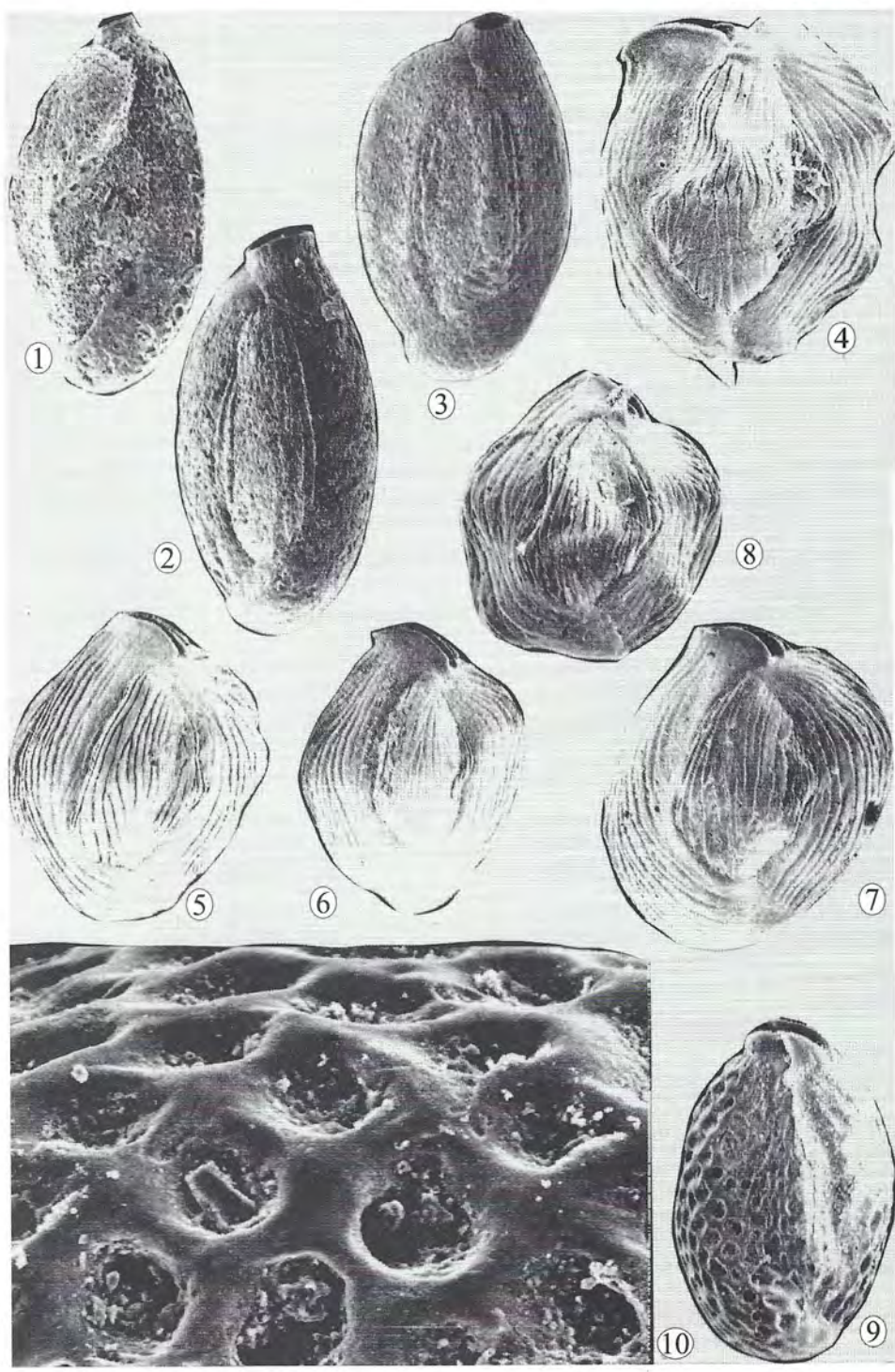


PLATE 9

1. *Lachlanella variolata* (d'Orbigny). External view, x 100, Dikili Bay, S. 8.
2. *Lachlanella variolata* (d'Orbigny). External view, x 55, vicinity of Karaburun Peninsula, S. 3.
3. *Lachlanella variolata* (d'Orbigny). External view, x 50, Gulf of Datça, S. 4.
4. *Massilina gualtieriana* (d'Orbigny). External view, x 80, Dikili Bay, S. 1.
5. *Massilina gualtieriana* (d'Orbigny). External view, x 40, Dikili Bay, S. 1.
6. *Massilina gualtieriana* (d'Orbigny). External view, x 40, Bozcaada, S. 4.
7. *Massilina secans* (d'Orbigny). External view, x 30, Gökçeada, S. 25.
8. *Massilina secans* (d'Orbigny). External view, x 50, vicinity of Karaburun Peninsula, S. 5.
- 9-10. *Quinqueloculina berthelotiana* d'Orbigny. External views, x 75, Gökçeada, S. 32.
- 11-12. *Quinqueloculina bidentata* d'Orbigny. External views, x 110, Gökçeada, S. 29.

PLATE 9

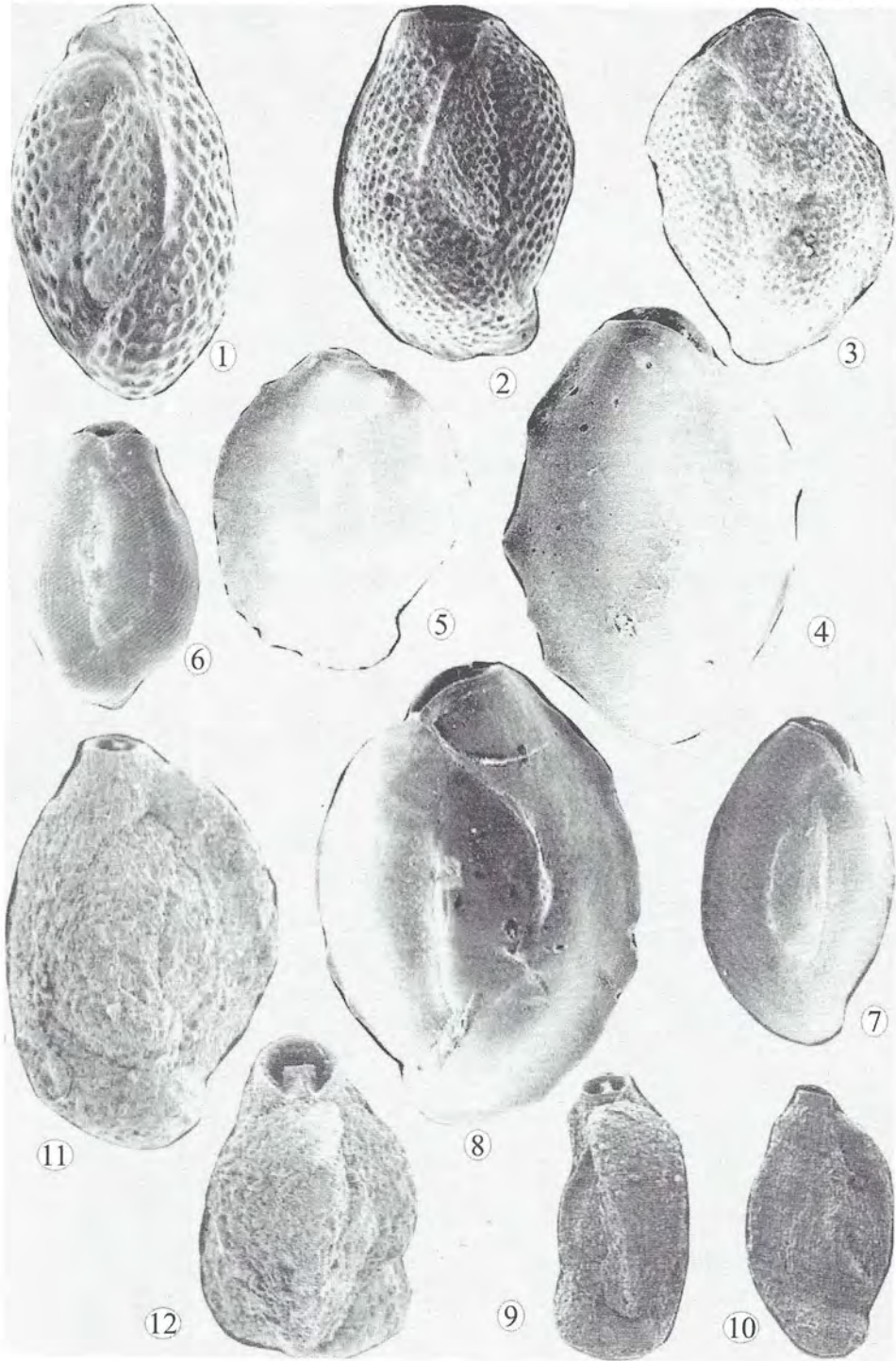


PLATE 10

1. *Quinqueloculina disparilis* d'Orbigny. External view, x 60, Gökçeada, S. 25.
- 2-3. *Quinqueloculina disparilis* d'Orbigny. External views, x 70, Çandarlı Bay, S. 14.
- 4-5. *Quinqueloculina eburnea* (d'Orbigny). External views; 4, x 100; 5, x 160; Gökçeada, S. 13.
- 6-7. *Quinqueloculina jugosa* Cushman. External views; 6, x 70, Dikili Bay, S. 5; 7, x 75, Çandarlı Bay, S. 14.
- 8-9. *Quinqueloculina laevigata* d'Orbigny. External views, x 100, Gökçeada, S. 26.
- 10-11. *Quinqueloculina lamarekiana* d'Orbigny. External views, x 80, Gökçeada, S. 32.
12. *Quinqueloculina limbata* d'Orbigny. External view, x 100, Bozcaada, S. 10.

PLATE 10

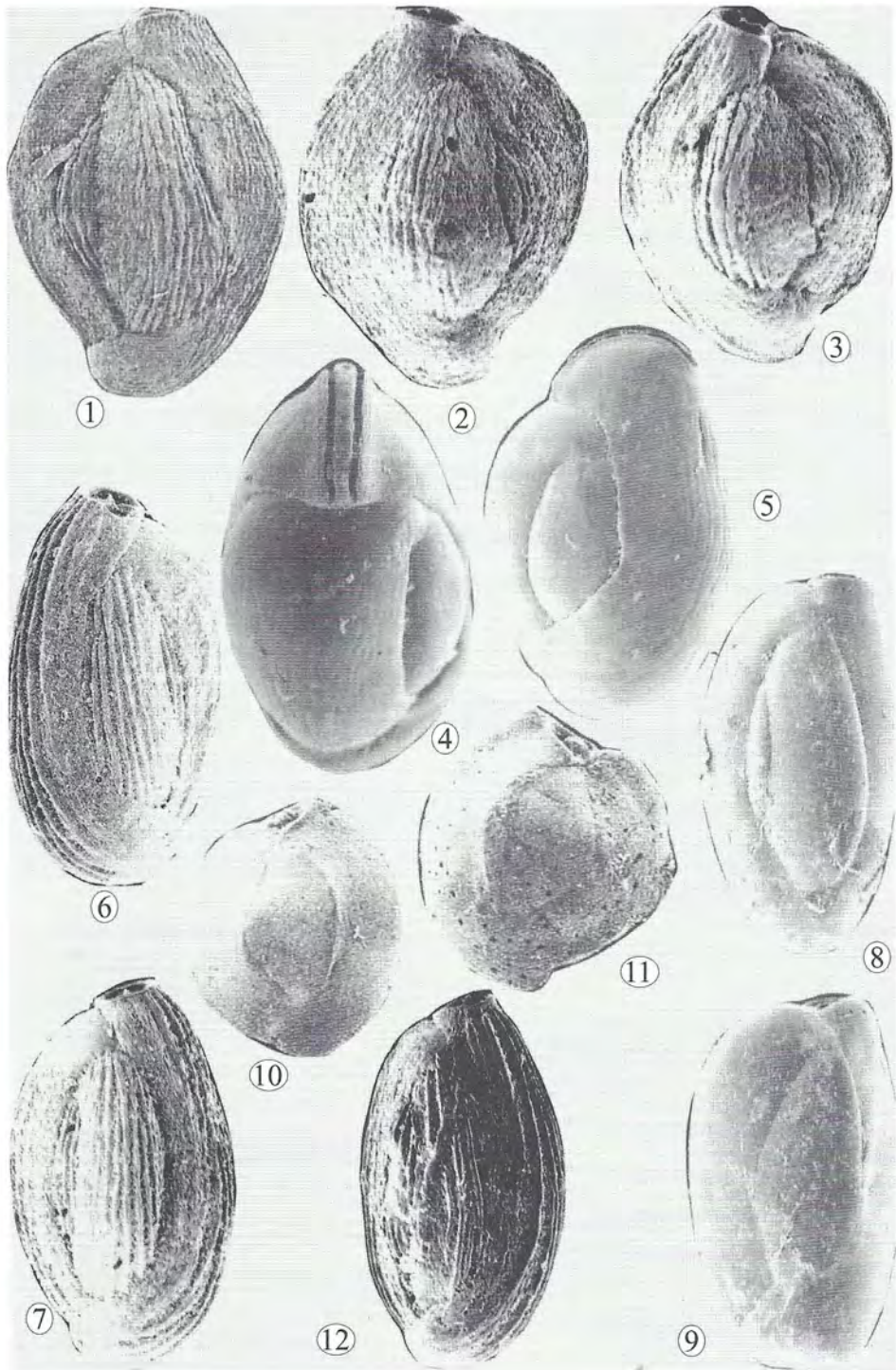


PLATE 11

1. *Quinqueloculina neapolitana* Sgarella and Moncharmont-Zei. External view, x 90, Gulf of Saros, S. 25.
2. *Quinqueloculina seminula* (Linné). External view, x 60, Gulf of Saros, S. 12.
- 3-4. *Quinqueloculina seminula* (Linné). External views; 3, x 80; 4, x 75, Dikili Bay, S. 8.
5. *Quinqueloculina stalkerii* Loeblich and Tappan. External view, x 95, vicinity of Karaburun Peninsula, S. 4.
- 6-7. *Quinqueloculina viennensis* Le Calvez J. and Y. External views, x 110, Gökçeada, S. 29.
8. *Quinqueloculina vulgaris* d'Orbigny. External view, x 60, Gulf of Saros, S. 3.
9. *Biloculinella depressa* (Wiesner). External view, x 85, Gulf of Saros, S. 13.
- 10-11. *Biloculinella globula* (Bornemann). External views, x 100, Gulf of Edremit, S. 3.
- 12-13. *Biloculinella inflata* (Wright). External views, x 150, Gulf of Saros, 12, S. 30 and 13, S 34.

PLATE 11

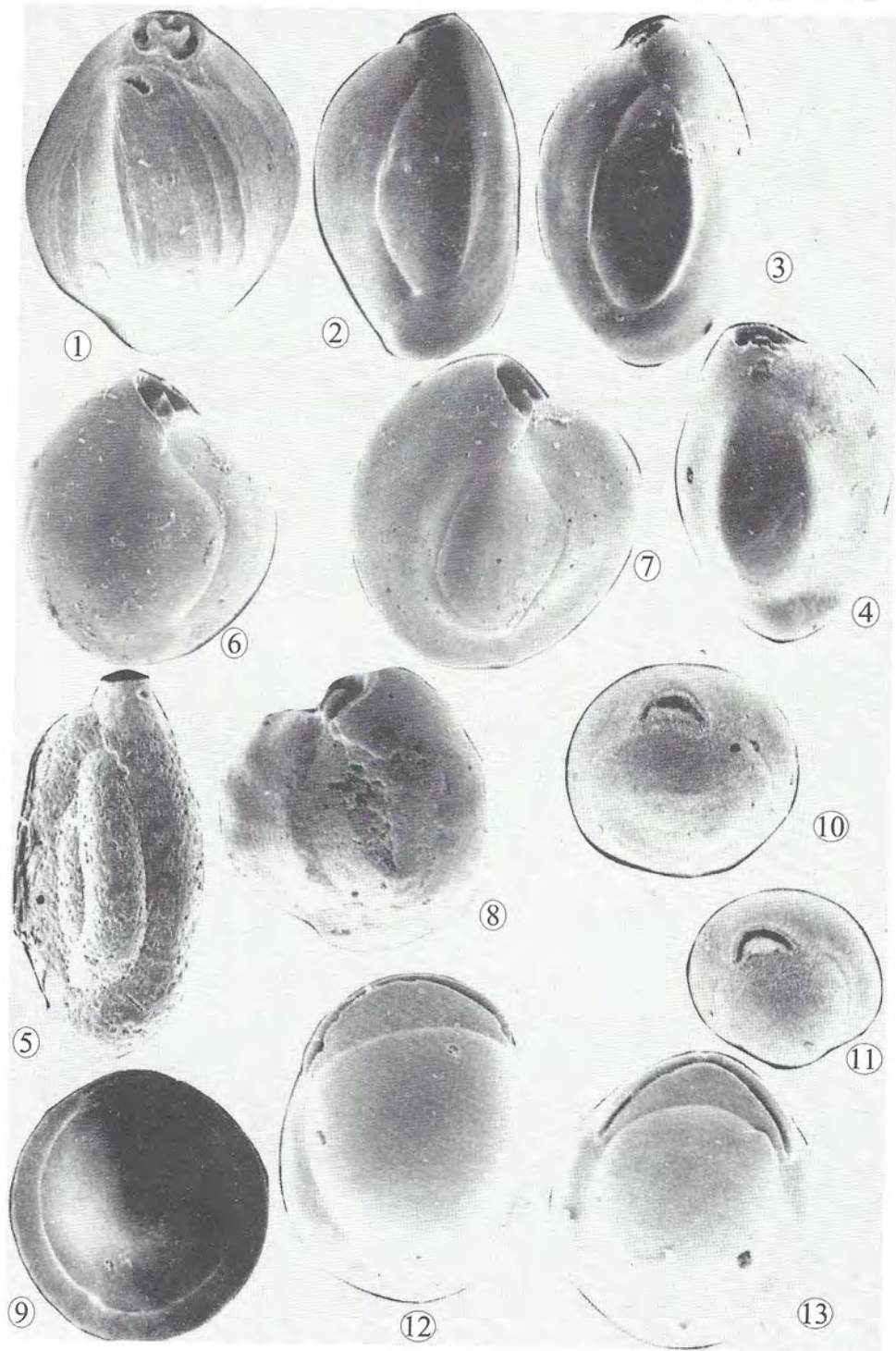


PLATE 12

1. *Biloculinella labiata* (Schlumberger). External view, x 80, Gulf of Saros, S. 12.
2. *Biloculinella labiata* (Schlumberger). External view, x 120, Gulf of Edremit, S. 3.
3. *Miliolinella elongata* Kruit. External view, x 150, Dikili Bay, S. 8.
4. *Miliolinella labiosa* (d'Orbigny). External view, x 150, Marmaris Bay, S. 2.
5. *Miliolinella semicostata* (Wiesner). External view, x 110, Gulf of Saros, S. 12.
6. *Miliolinella semicostata* (Wiesner). External view, x 140, Dikili Bay, S. 5.
- 7-8. *Miliolinella semicostata* (Wiesner). External views, x 140, Gökçeada, S. 29.
- 9-10. *Miliolinella subrotunda* (Montagu). External views, x 120, Gökçeada, S. 32.
11. *Miliolinella subrotunda* (Montagu). External view, x 90, Dikili Bay, S. 8.
12. *Miliolinella webbiana* (d'Orbigny). External view, x 85, Gulf of Saros, S. 39.

PLATE 12

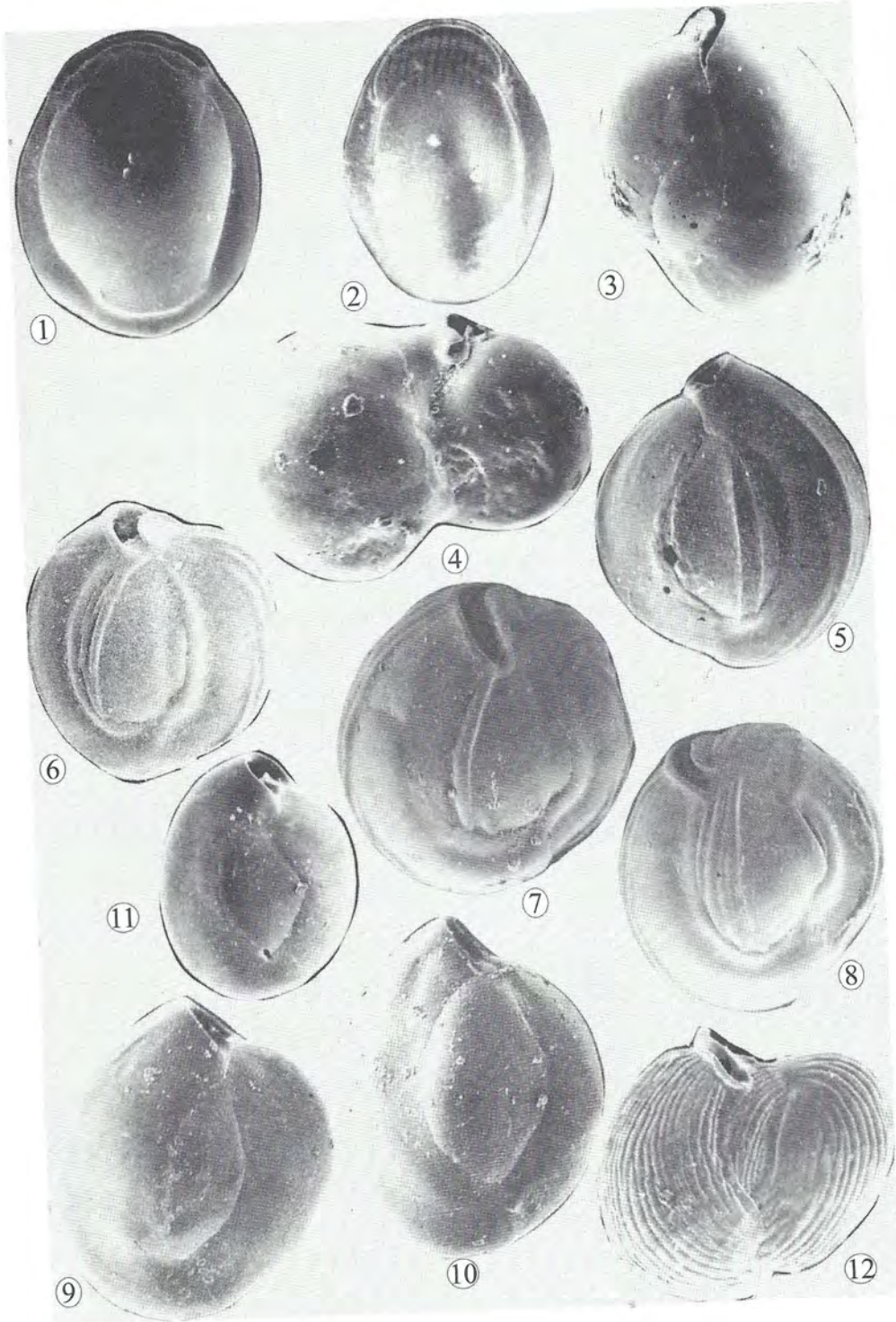


PLATE 13

- 1-2. *Miliolinella webbiana* (d'Orbigny). External views, x 90, Dikili Bay, S. 5.
3. *Pseudotriloculina laevigata* (d'Orbigny). External view, x 50, Dikili Bay, S. 5.
- 4-5. *Pseudotriloculina oblonga* (Montagu). External views, x 95, Gökçeada, S. 28.
6. *Pseudotriloculina oblonga* (Montagu). External view, x 70, Dikili Bay, S. 5.
7. *Pseudotriloculina rotunda* (d'Orbigny). External view, x 75, Gökçeada, S. 26.
- 8-9. *Pseudotriloculina rotunda* (d'Orbigny). External views; 8, x 80; 9, x 70, Dikili Bay, S. 5.
- 10-11. *Pseudotriloculina sidebottomi* (Martinotti). External views, 10, x 95; 11, apertural view, x 130, Gökçeada, S. 29.
12. *Pseudotriloculina subgranulata* (Cushman). External view, x 120, vicinity of Karaburun Peninsula, S. 3.
13. *Pyrgo anomala* (Schlumberger). External view, x 55, Çandarlı Bay, S. 13.

PLATE 13

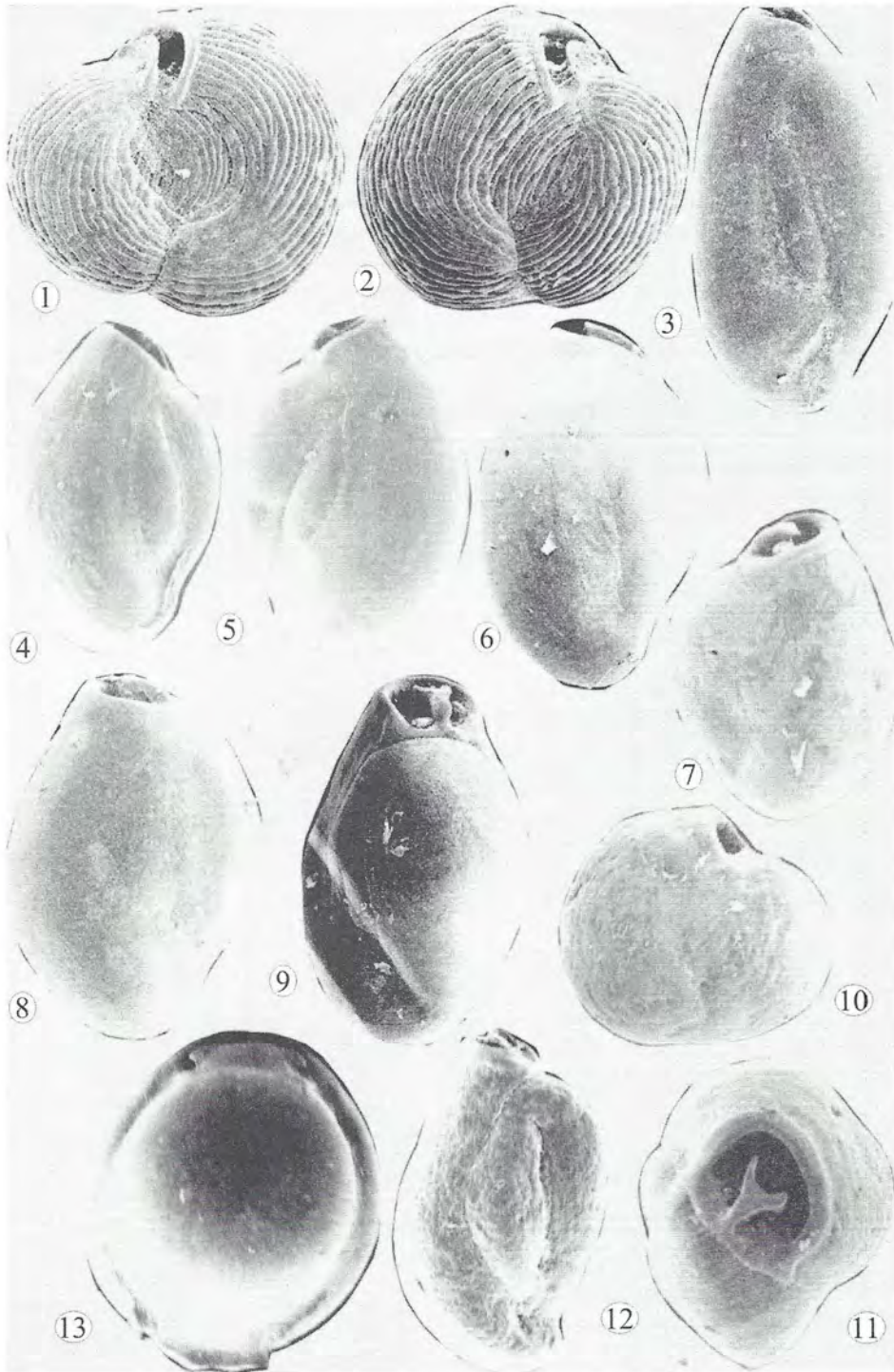


PLATE 14

- 1-2. *Pyrgo anomala* (Schlumberger). External views; 1, x 85; 2, x 120, Gulf of Saros, S. 14.
- 3-5. *Pyrgo elongata* (d'Orbigny). External views; 3, x 80; 4 and 5, x 75, Gulf of Saros, S. 12.
- 6-7. *Pyrgo inornata* (d'Orbigny). External views; 6, x 65, S. 14 and 7, x 150, S. 13, Gulf of Saros.
- 8-9. *Pyrgoella sphaera* (d'Orbigny). External views; 8, x 80 and 9, apertural view, x 430, Gulf of Saros, S. 25.
10. *Triloculina adriatica* Le Calvez. External view, x 100, Gulf of Saros, S. 4.

PLATE 14

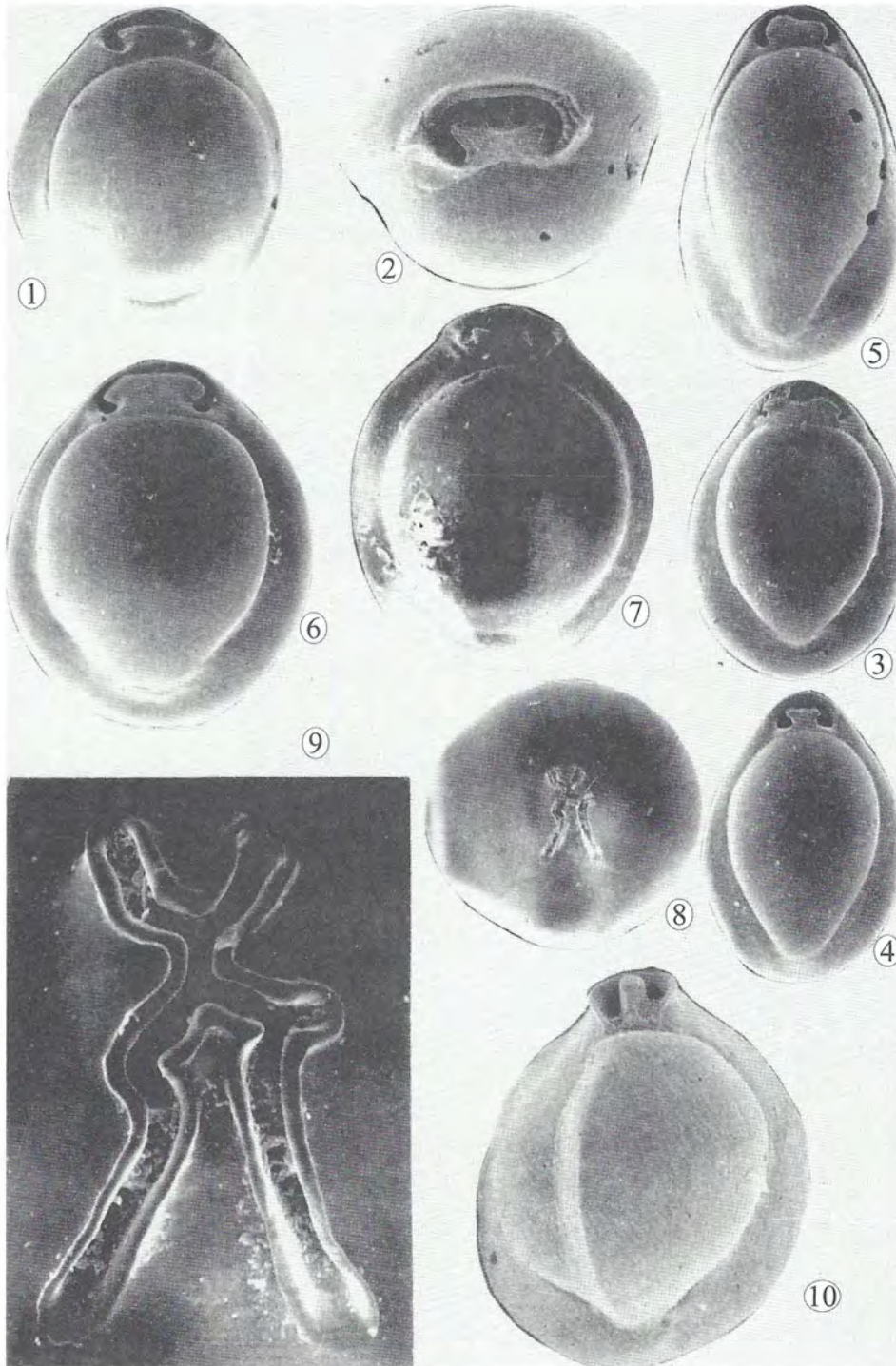


PLATE 15

1. *Triloculina adriatica* Le Calvez. External view, x 140, Gulf of Saros, S. 13.
2. *Triloculina bermudezi* Acosta. External view, x 140, Dikili Bay, S. 5.
3. *Triloculina marioni* Schlumberger. External view, x 120, Gulf of Saros, S. 4.
- 4-5. *Triloculina marioni* Schlumberger. External views; 5, apertural view, x 85, Dikili Bay, S. 8.
- 6-7. *Triloculina plicata* Terquem. External views; 6, x 75; 7, apertural view, x 100, Dikili Bay, S. 8.
8. *Triloculina plicata* Terquem. External view, x 90, vicinity of Karaburun Peninsula, S. 3.
- 9-10. *Triloculina schreiberiana* d'Orbigny. External views, x 80, Dikili Bay, S. 8.
11. *Triloculina tricarinata* d'Orbigny. External view, x 140, Gulf of Saros, S. 13.
12. *Triloculina tricarinata* d'Orbigny. External view, x 150, Gulf of Edremit, S. 3.
- 13-14. *Wellmanellinella striata* (Sidebottom). External views, x 80, Gökçeada, S. 29.

PLATE 15

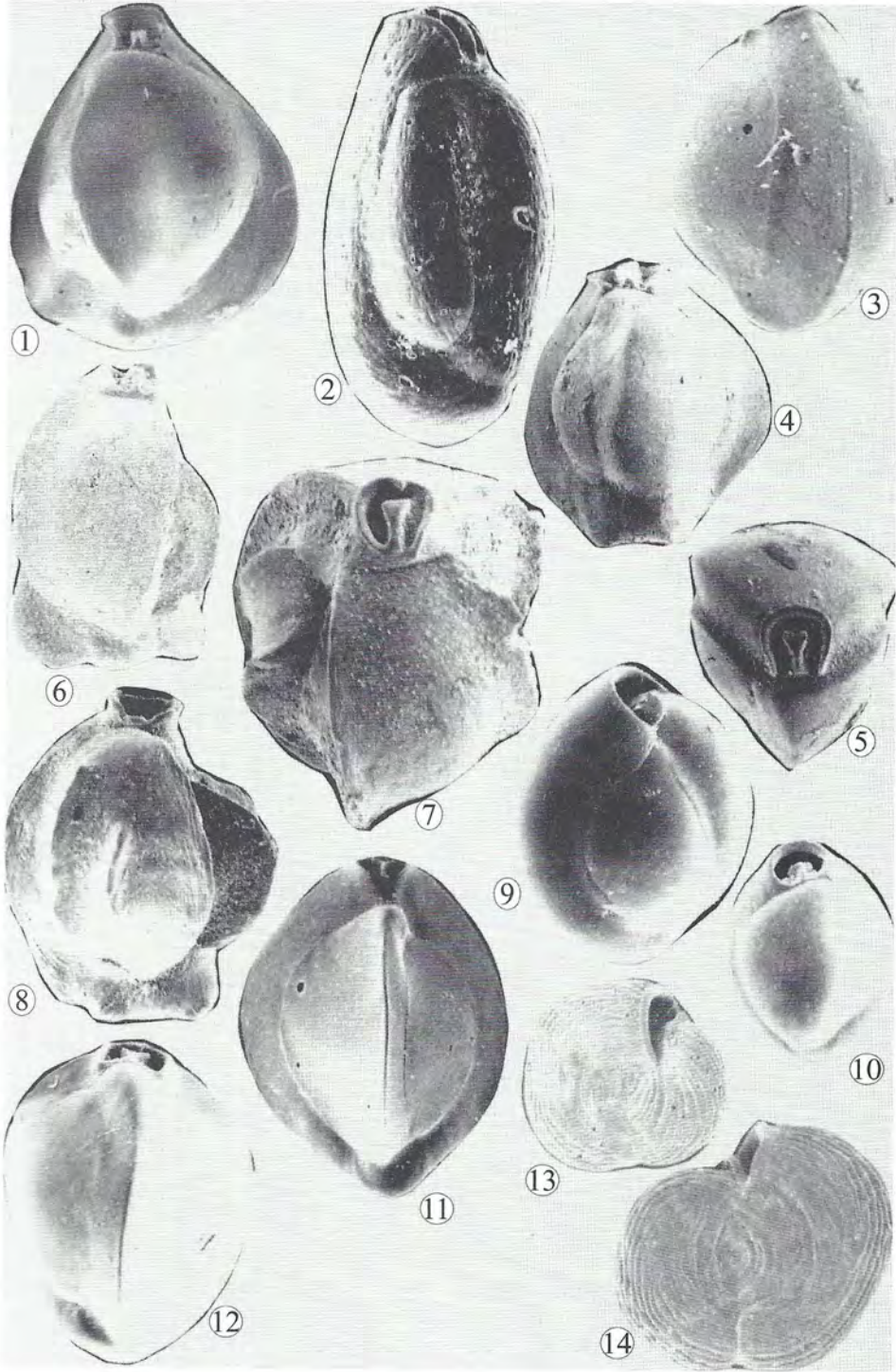


PLATE 16

- 1-2. *Sigmoilina sigmoidea* (Brady). External views, x 100, Gulf of Saros, S. 20.
3. *Sigmoilinita costata* (Schlumberger). External view, x 120, Gökçeada-Bozcaada-Çanakkale triangle, S. 2.
4. *Sigmoilinita costata* (Schlumberger). External view, x 100, Dikili Bay, S. 6.
5. *Sigmoilinita costata* (Schlumberger). External view, x 75, Dikili Bay, S. 7.
- 6-7. *Sigmoilinita edwardsi* (Schlumberger). External views; 6, x 80, Dikili Bay, S. 5; 7, x 100, Dikili Bay, S. 8.
- 8-9. *Sigmoilopsis schlumbergeri* (Silvestri). External views, x 100, Gulf of Saros, S. 7.
10. *Articulina alticostata* d'Orbigny. External view, x 75, Gulf of Datça, S. 4.
- 11-12. *Articulina carinata* Wiesner. External views; 11, x 130; 12, x 150; Dikili Bay, S. 8.
13. *Parrina bradyi* (Millet). External view, x 100, Dikili Bay, S. 2.
- 14-15. *Parrina bradyi* (Millet). External views; 14, x 80; 15, x 120, Dikili Bay, S. 5.

PLATE 16

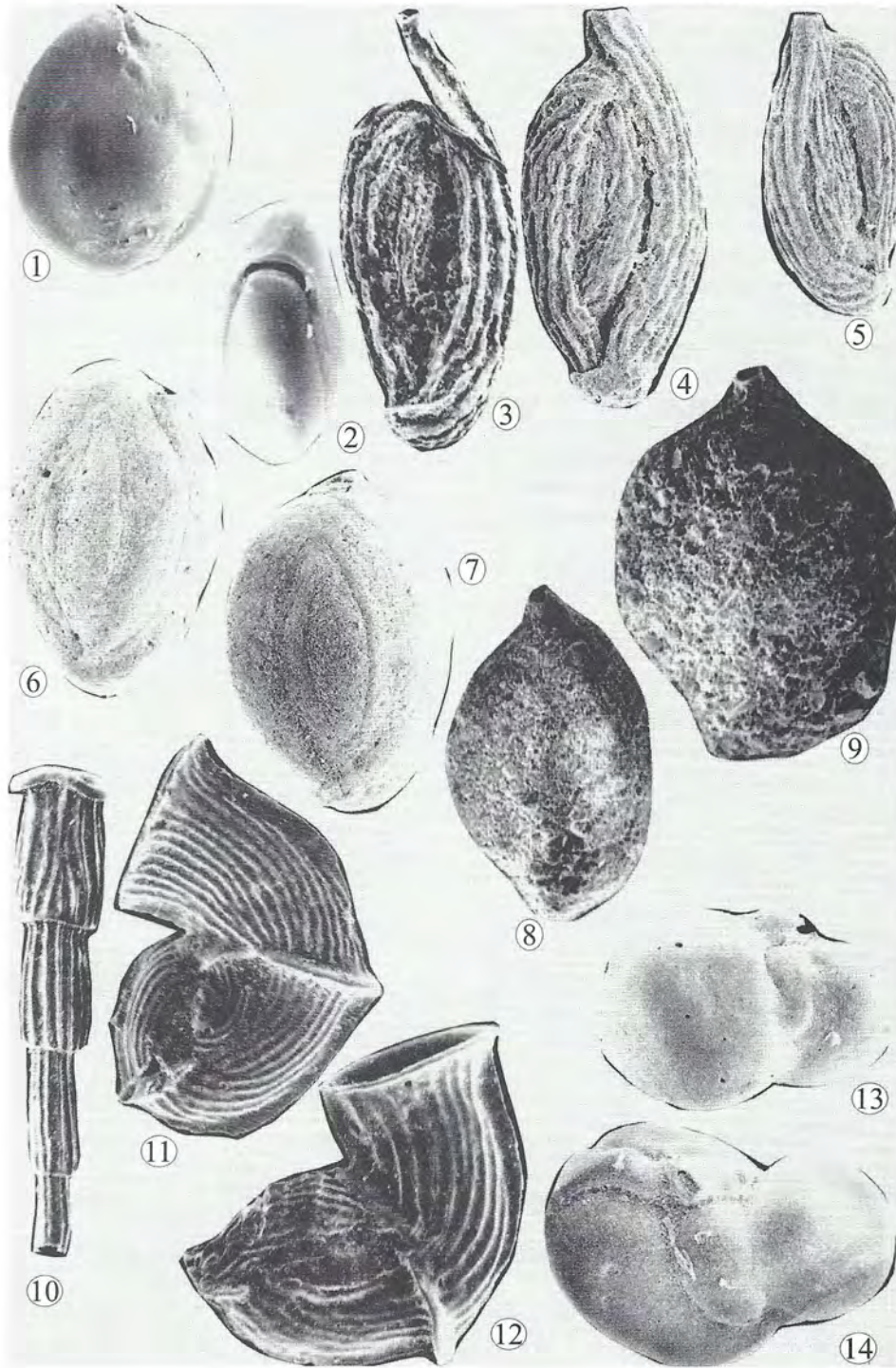


PLATE 17

1. *Laevipeneroplis karreri* (Wiesner). External view, x 75, Gökçeada, S. 10.
- 2-3. *Peneroplis pertusus* (Forskal). External views, x 120, Gökçeada, S. 3.
4. *Peneroplis pertusus* (Forskal). External view, x 75, Bozcaada, S. 2.
- 5-6. *Peneroplis planatus* (Fichtel and Moll). External views; 5, x 70; 6, x 50, Dikili Bay, S. 5.
7. *Peneroplis planatus* (Fichtel and Moll). External view, x 50, Gulf of Gökova, S. 6.
8. *Sorites orbiculus* Ehrenberg. External view, x 115, Gulf of Gökova, S. 2.
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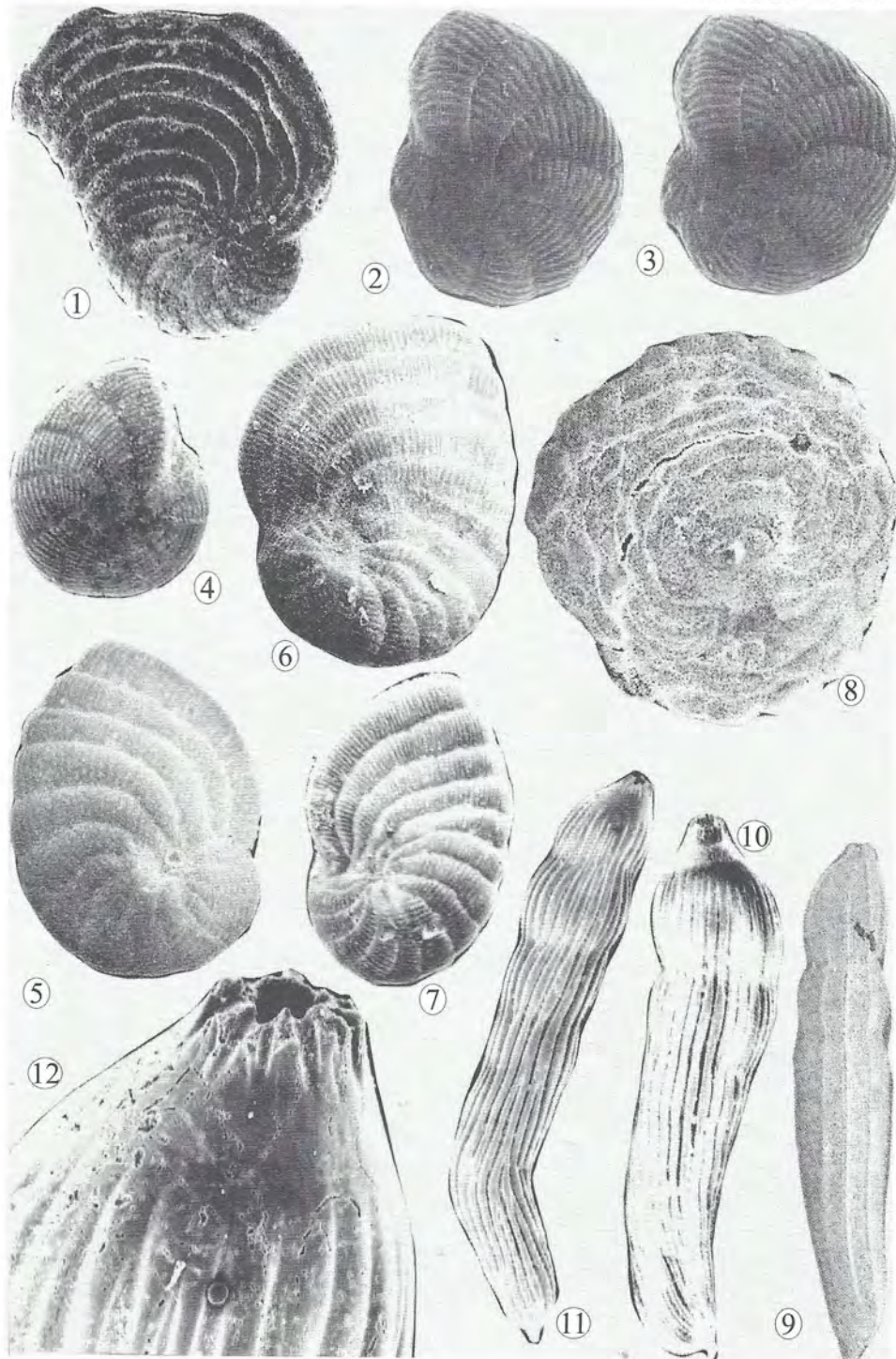


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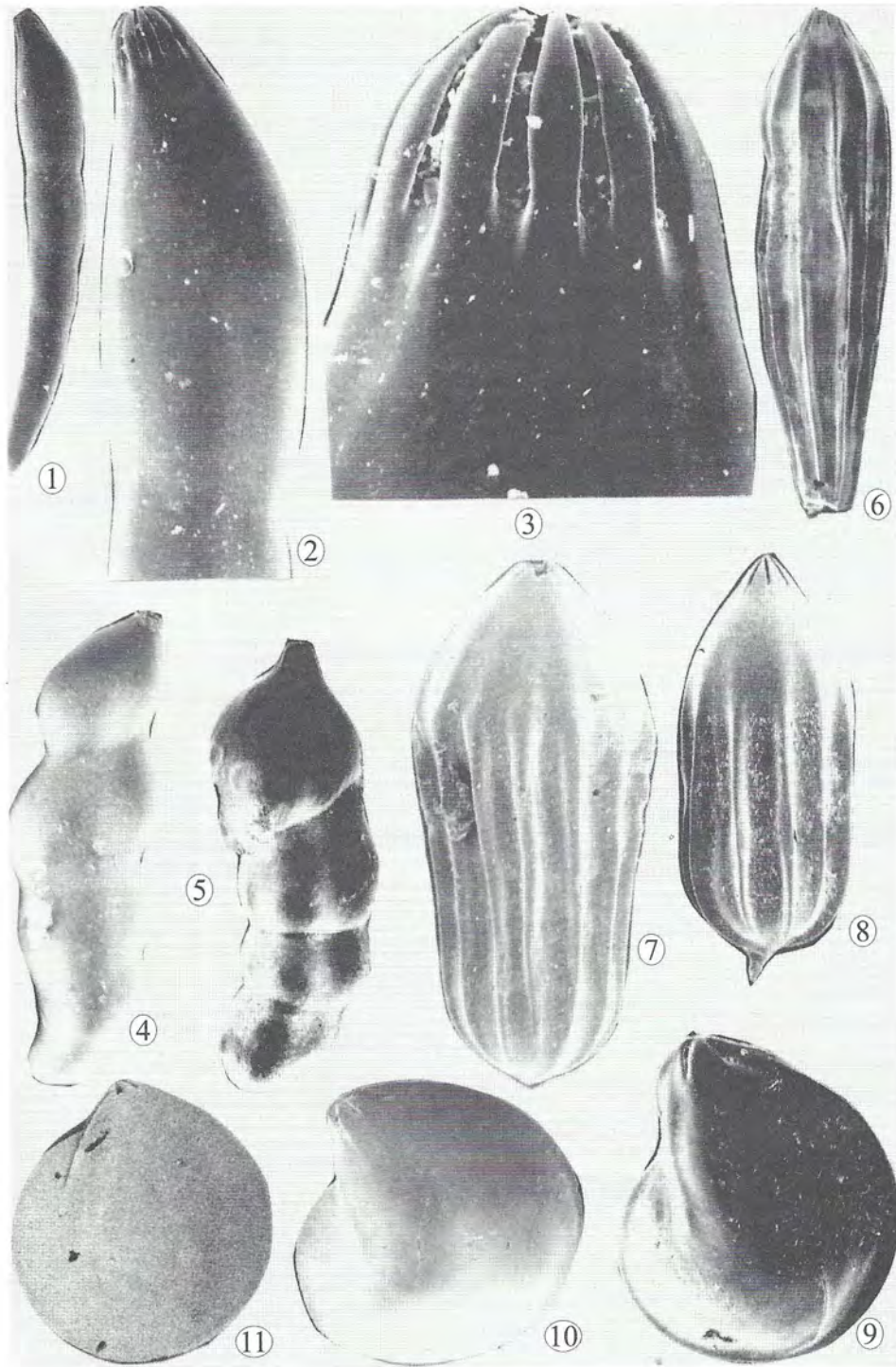


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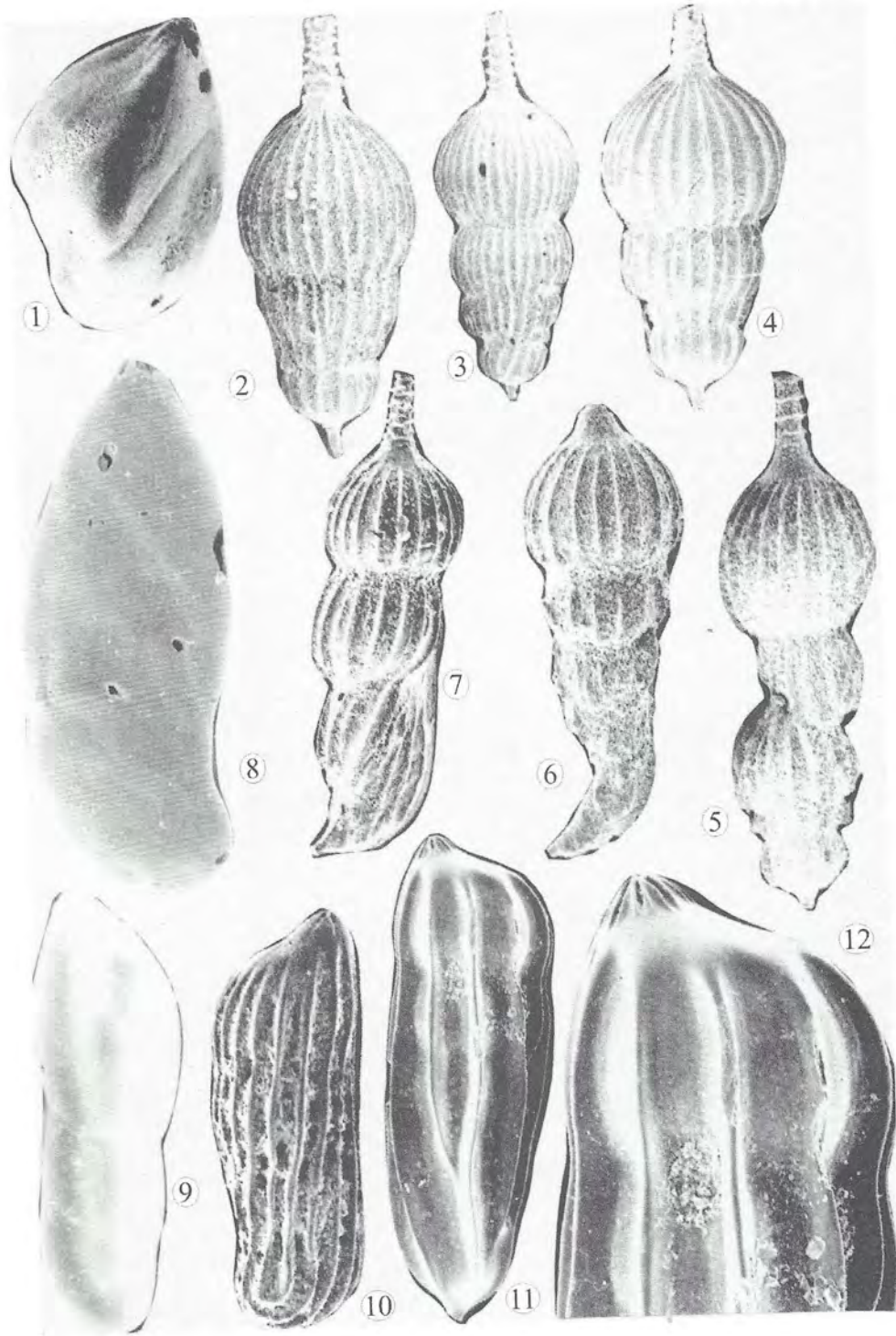


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PLATE 20

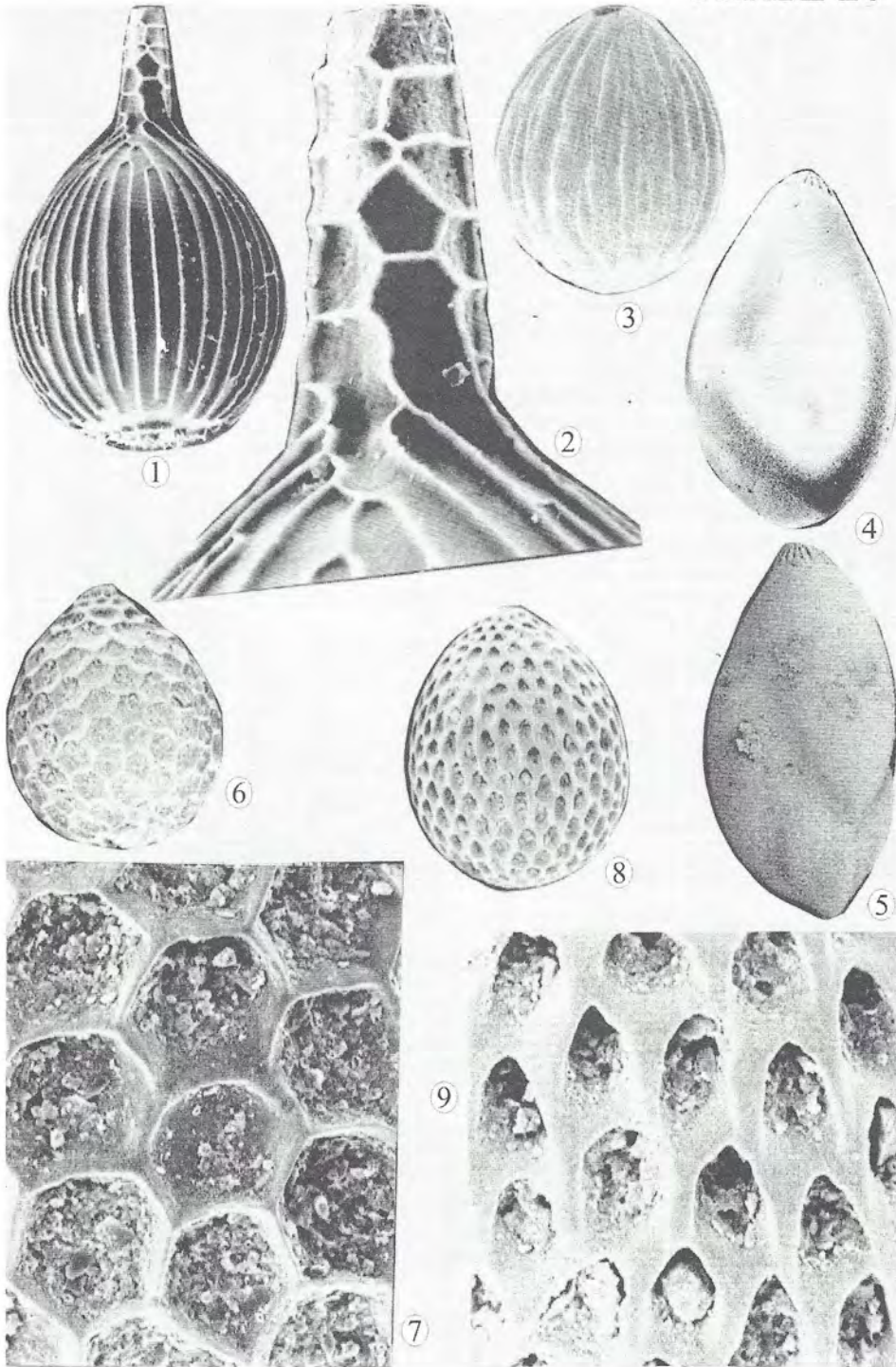


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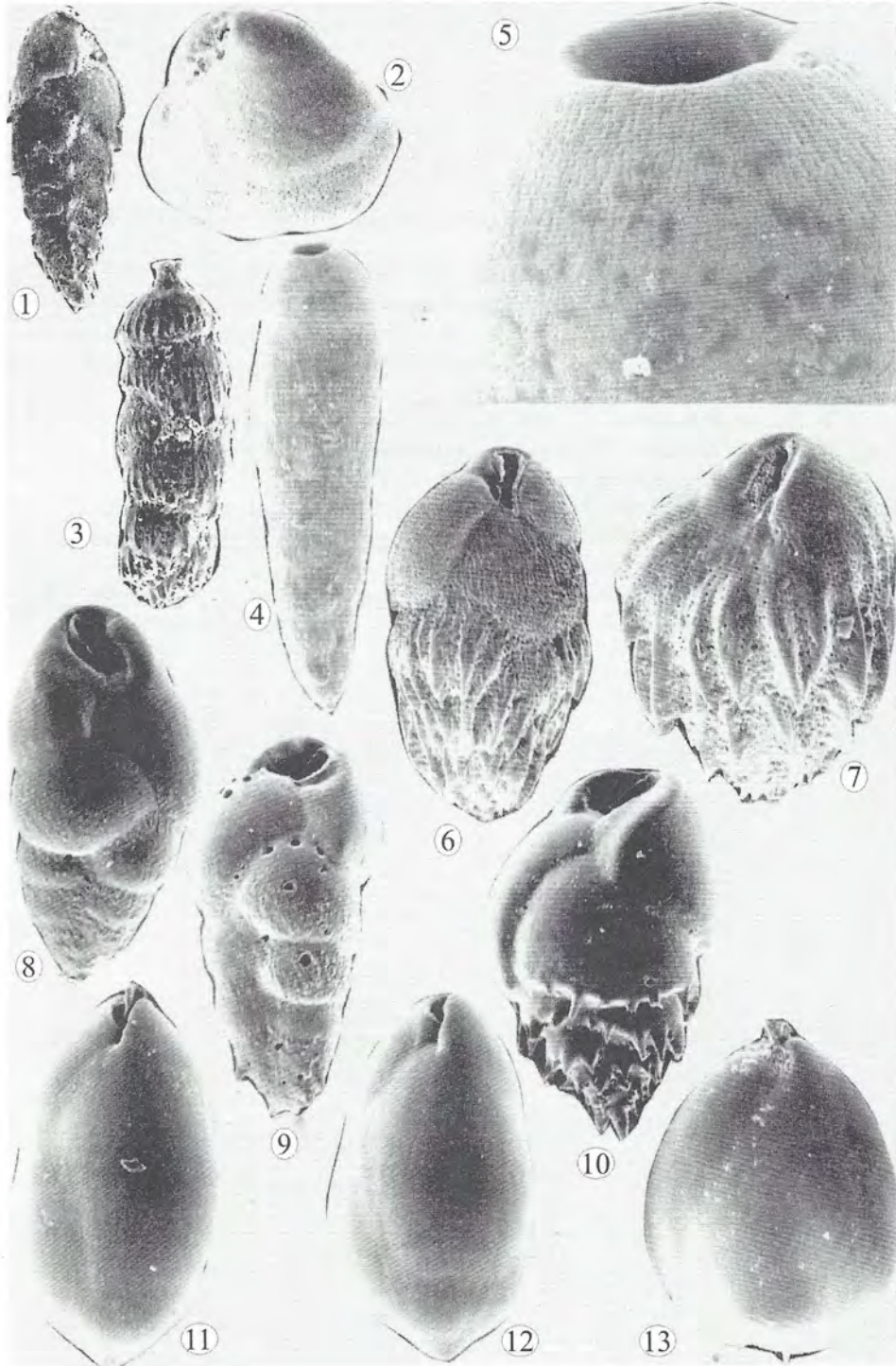


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PLATE 22

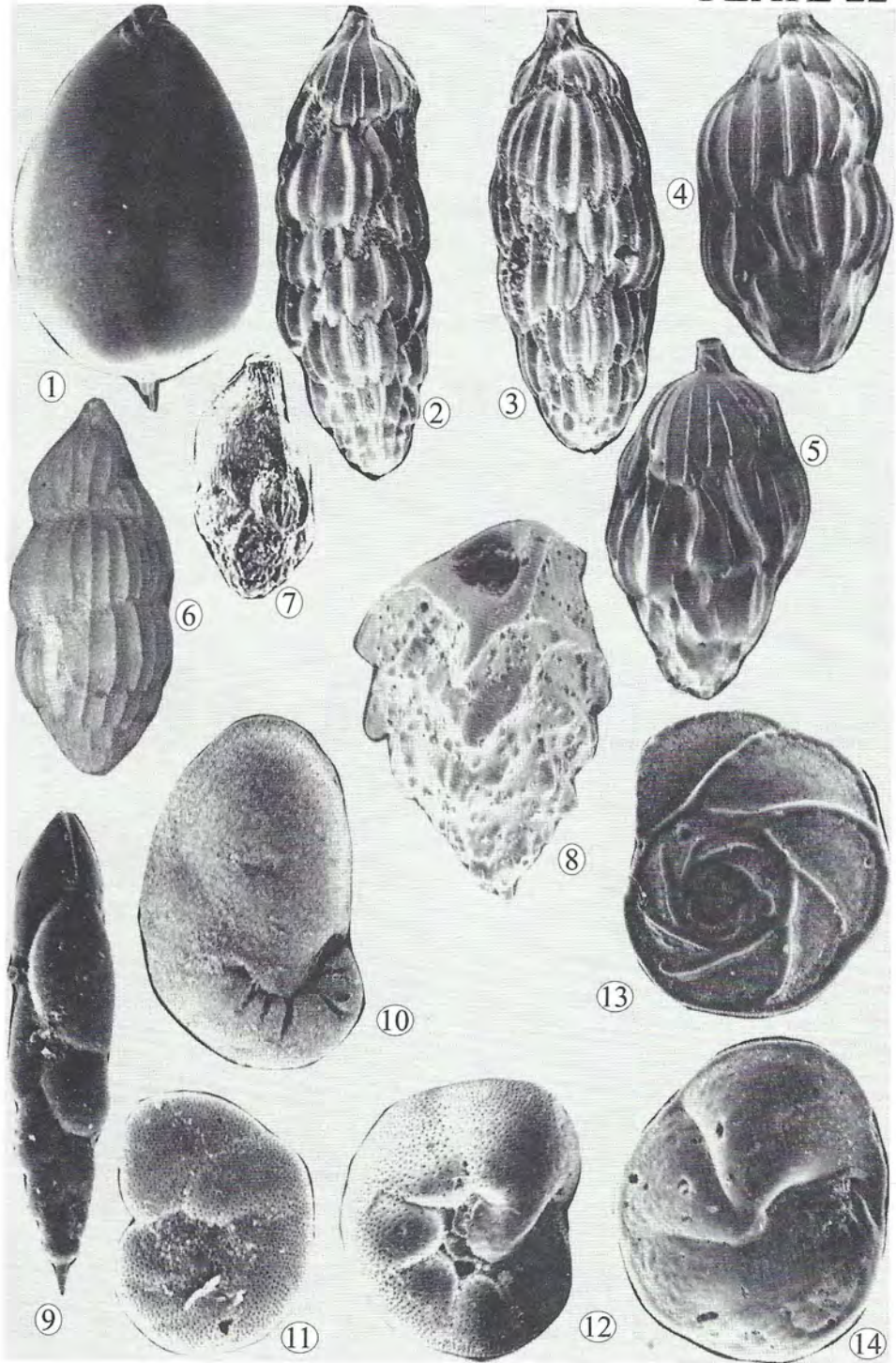


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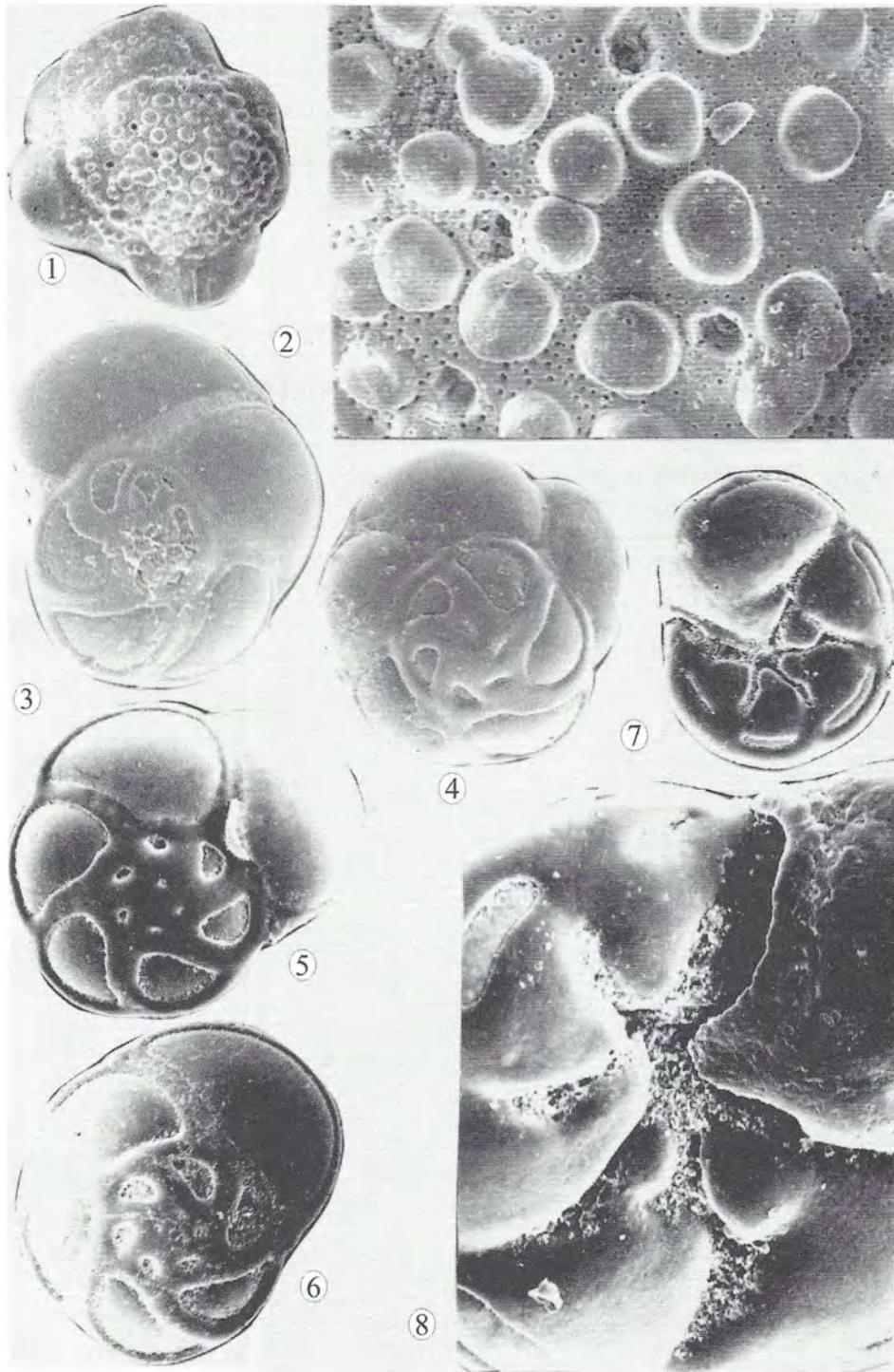


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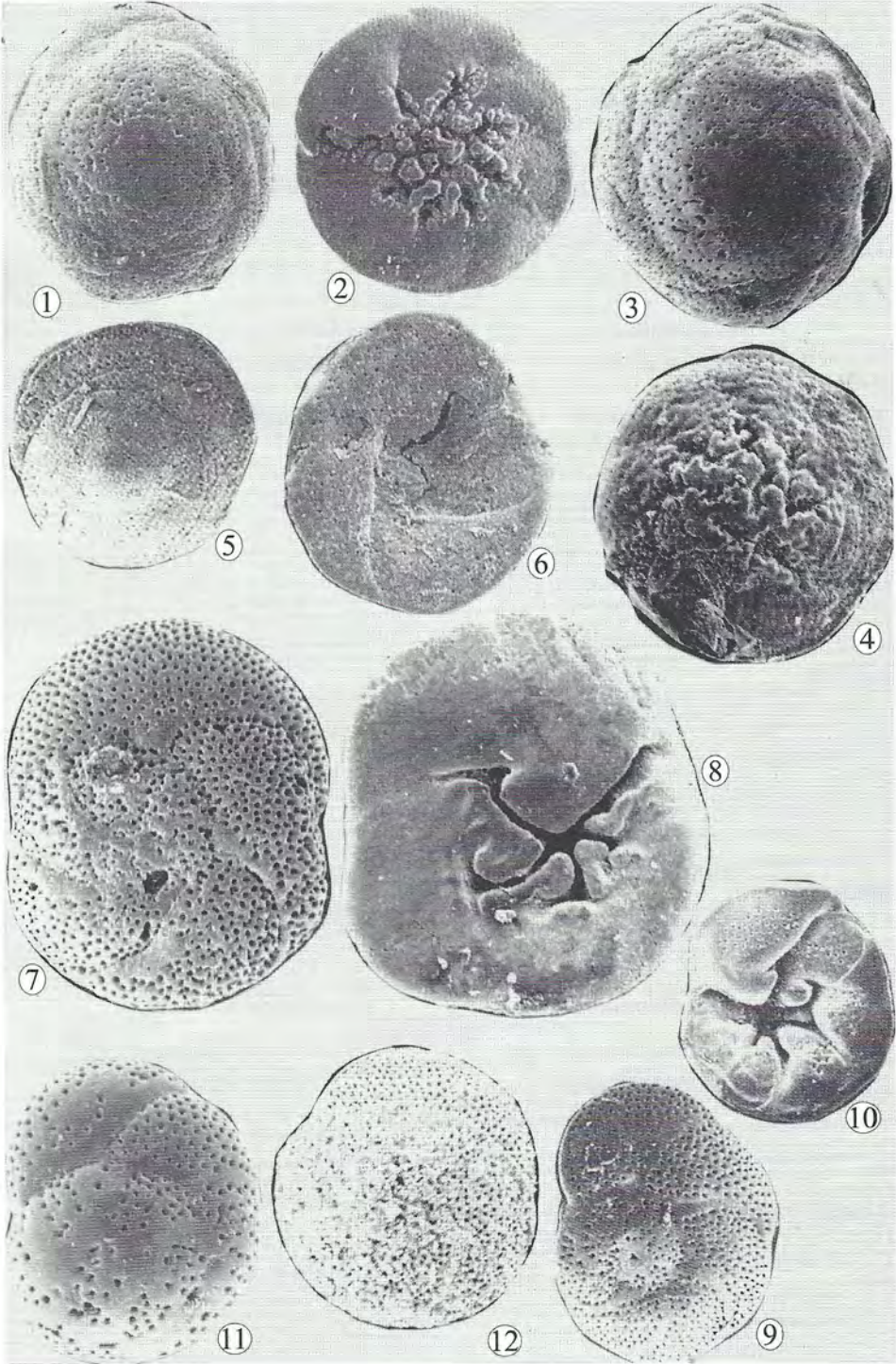


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PLATE 25

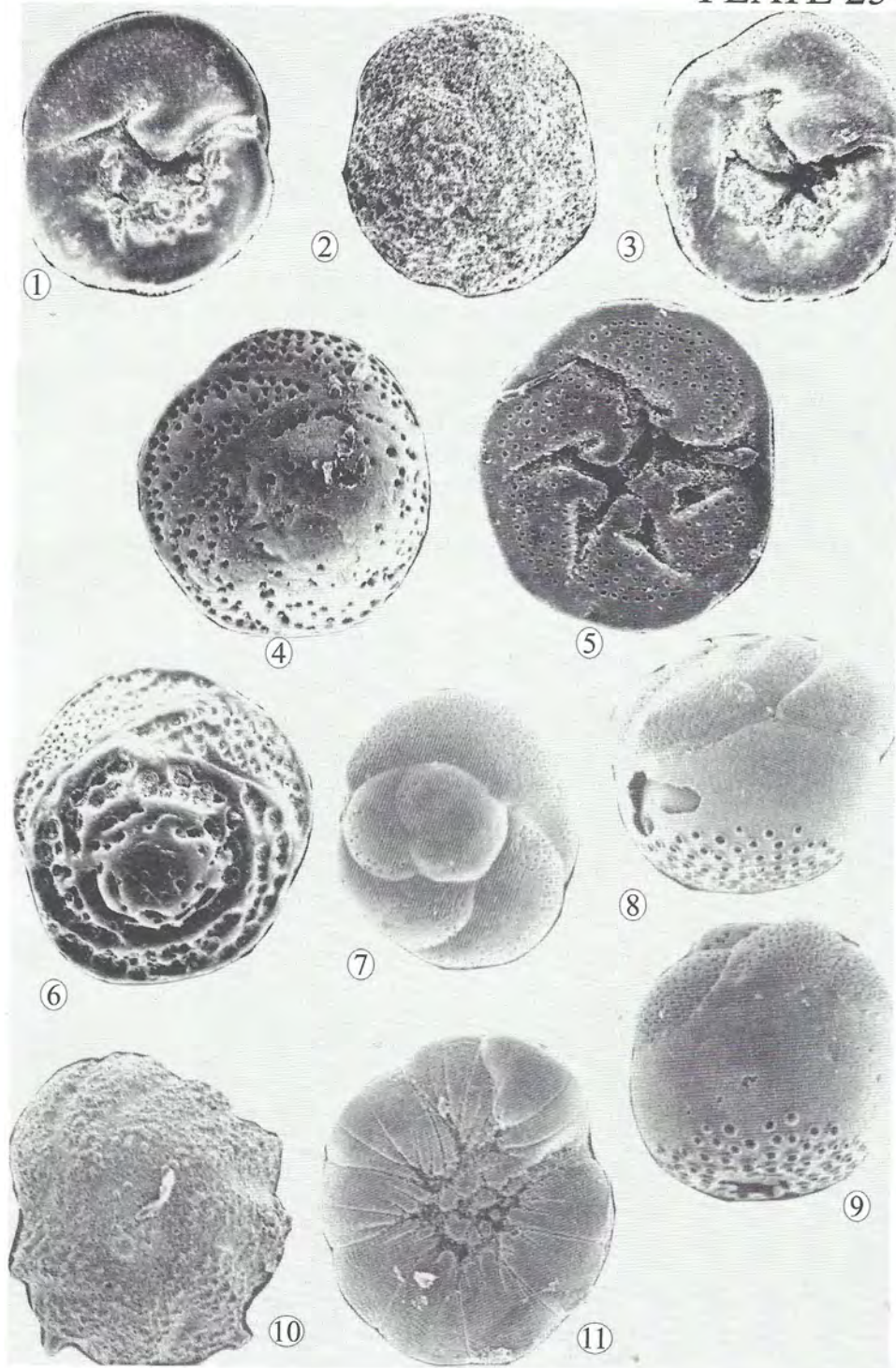


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PLATE 26

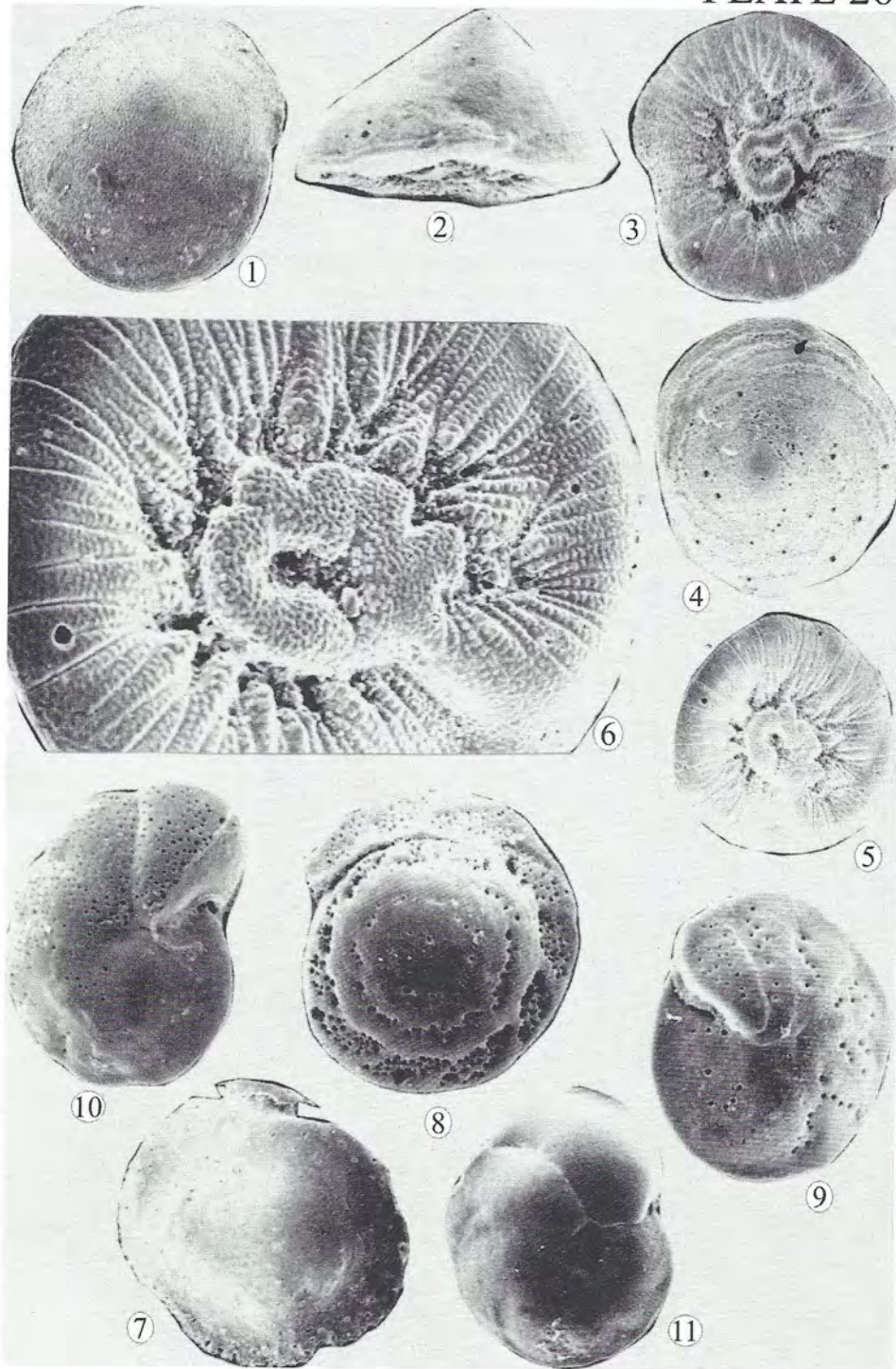


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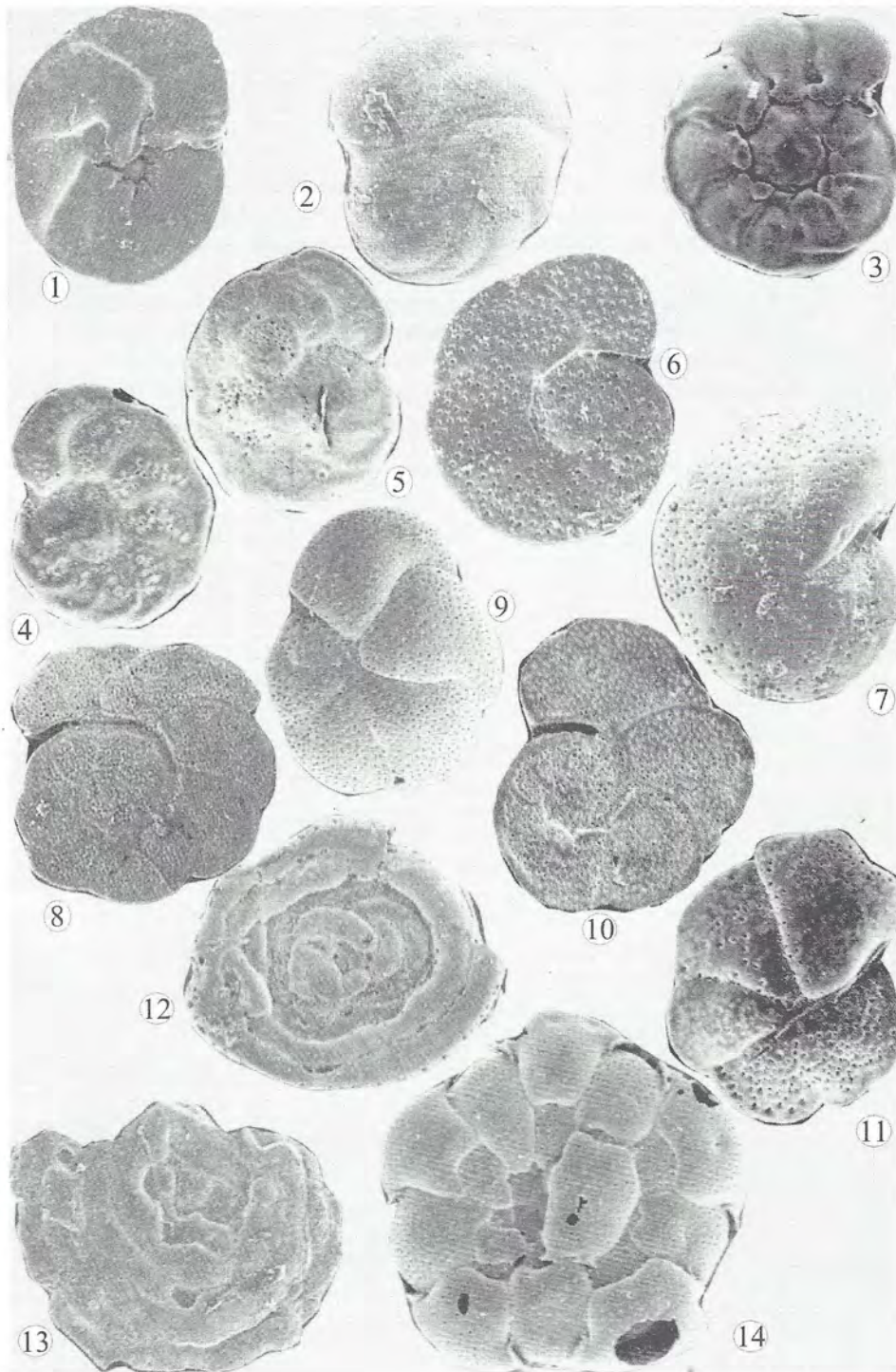


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PLATE 28

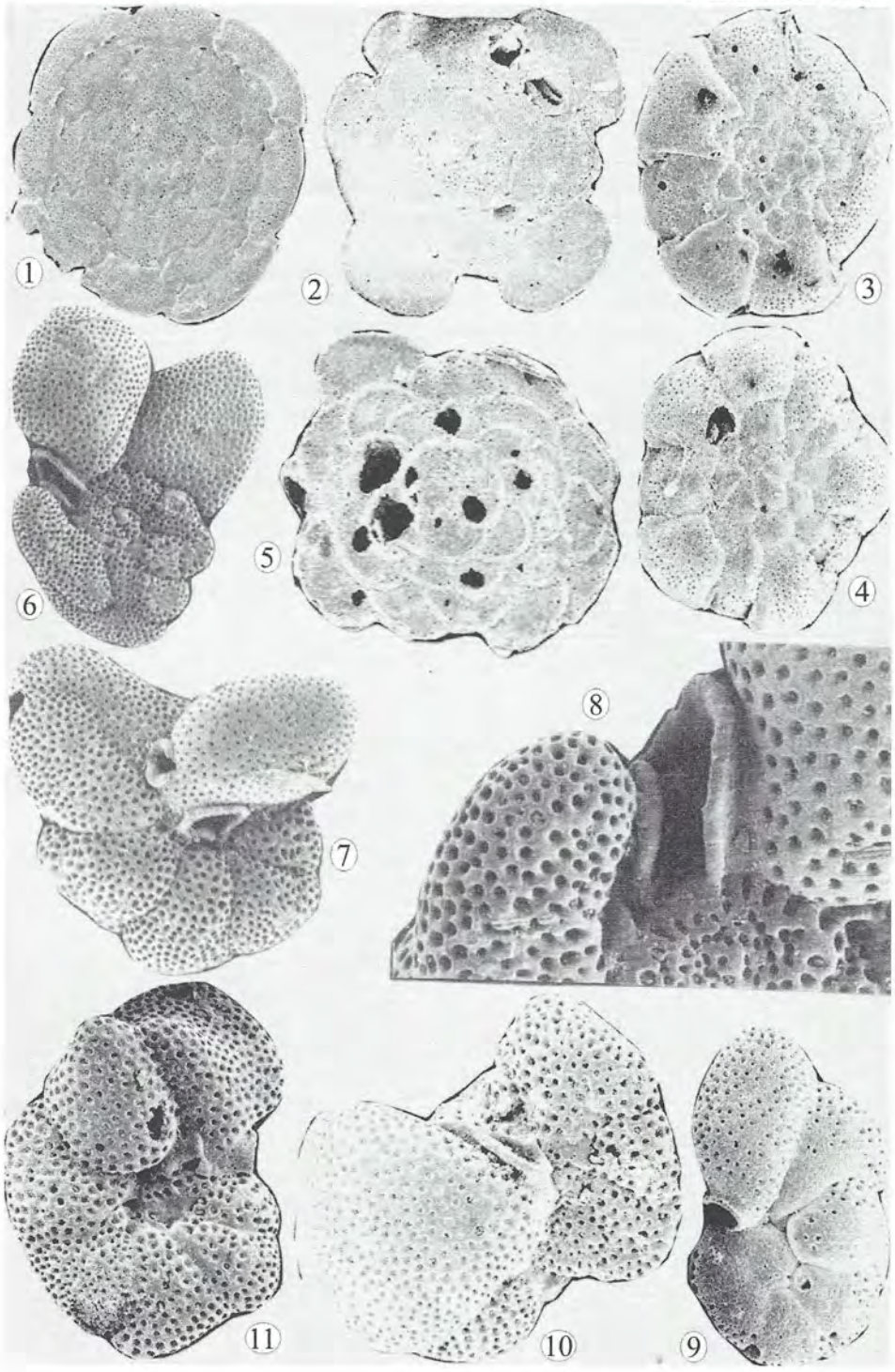


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PLATE 29

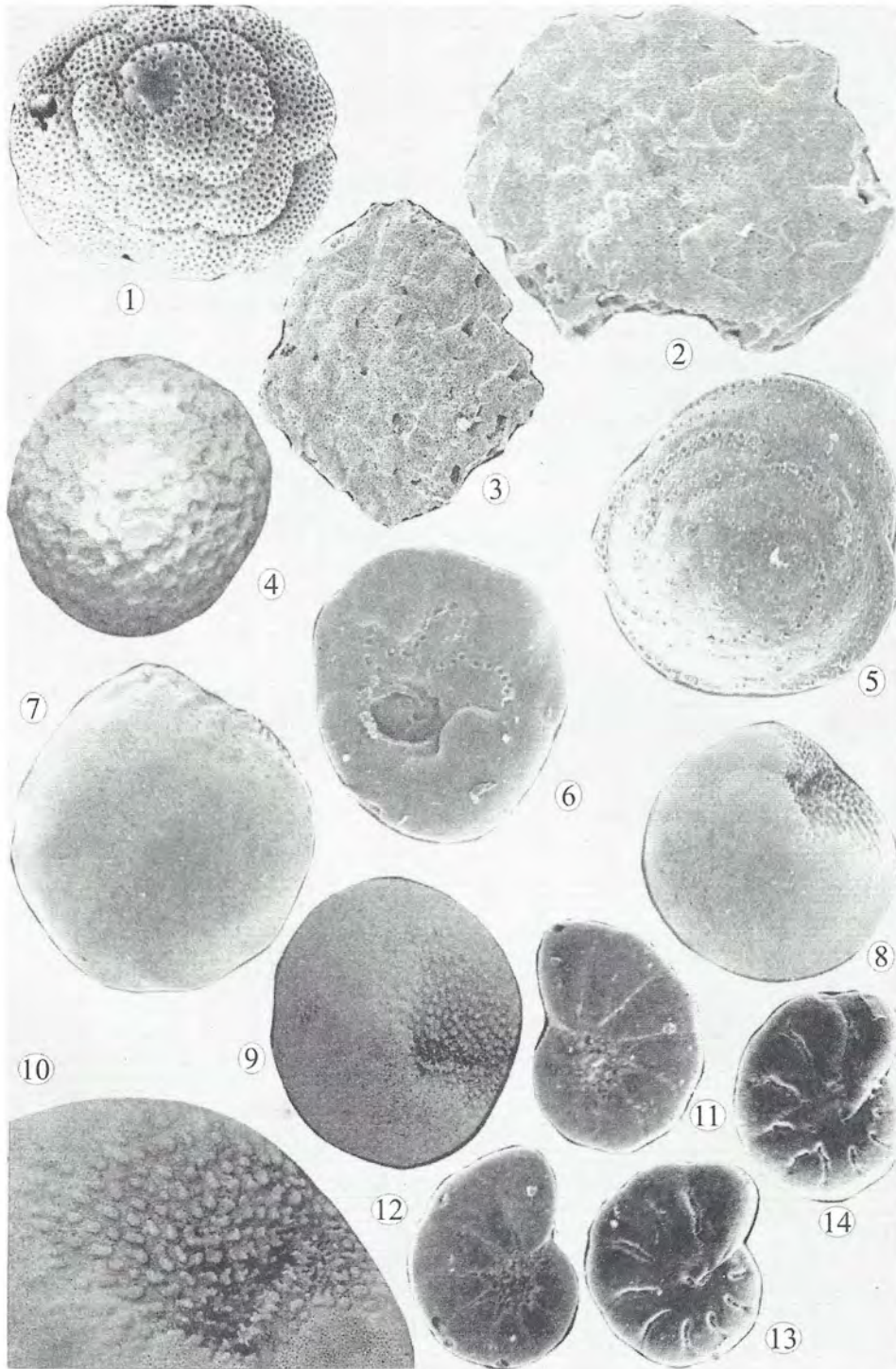


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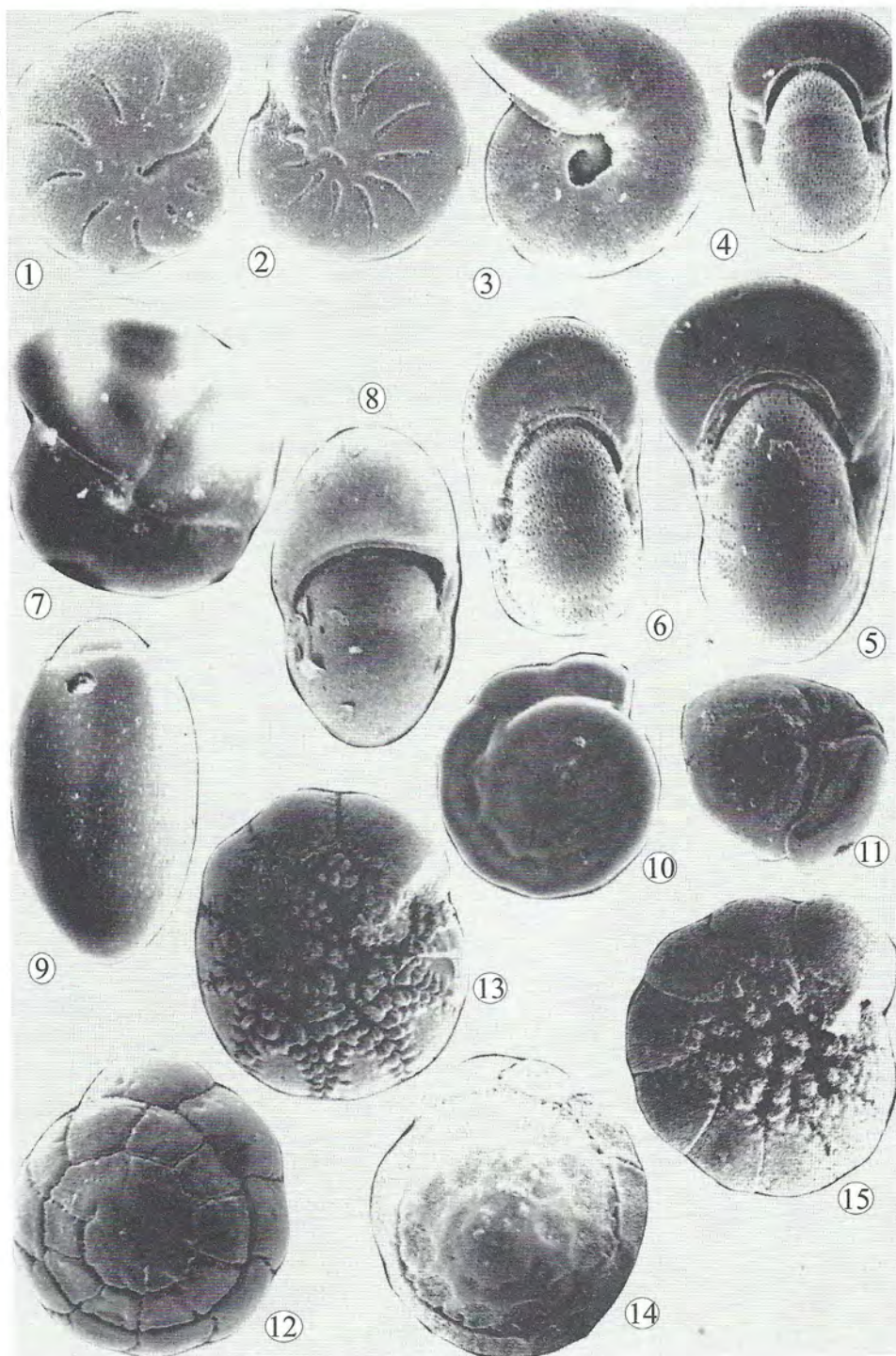


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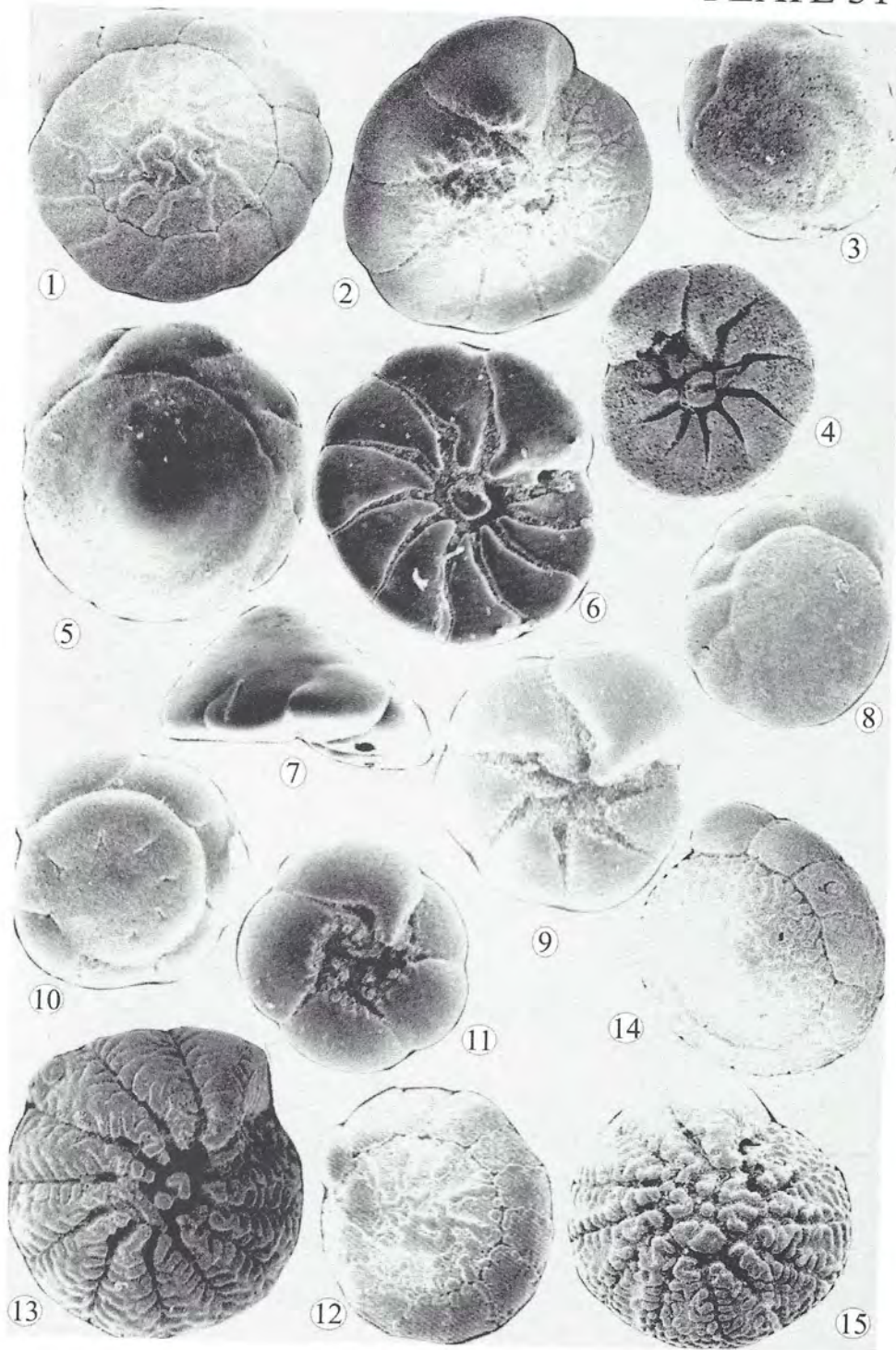


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PLATE 32

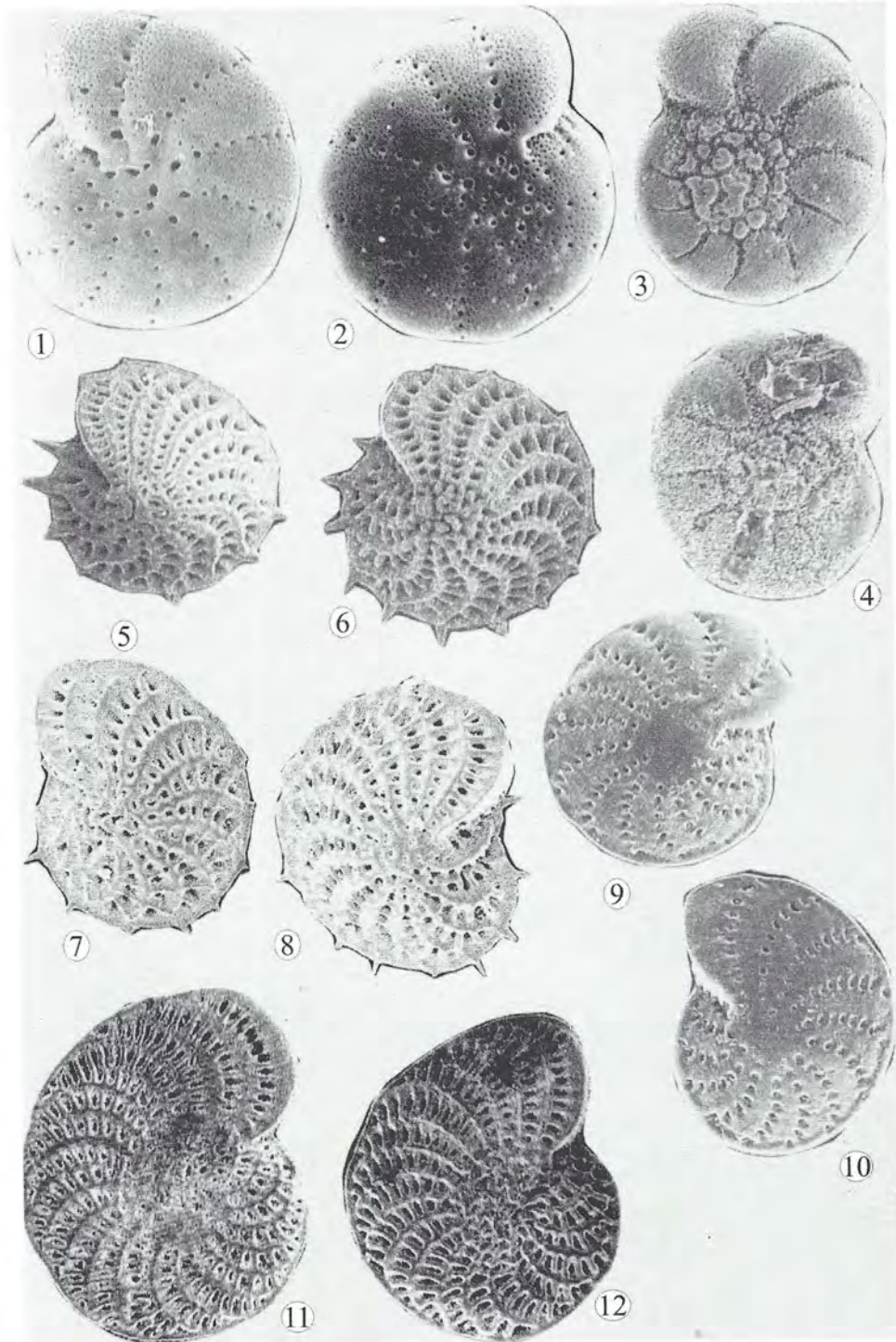
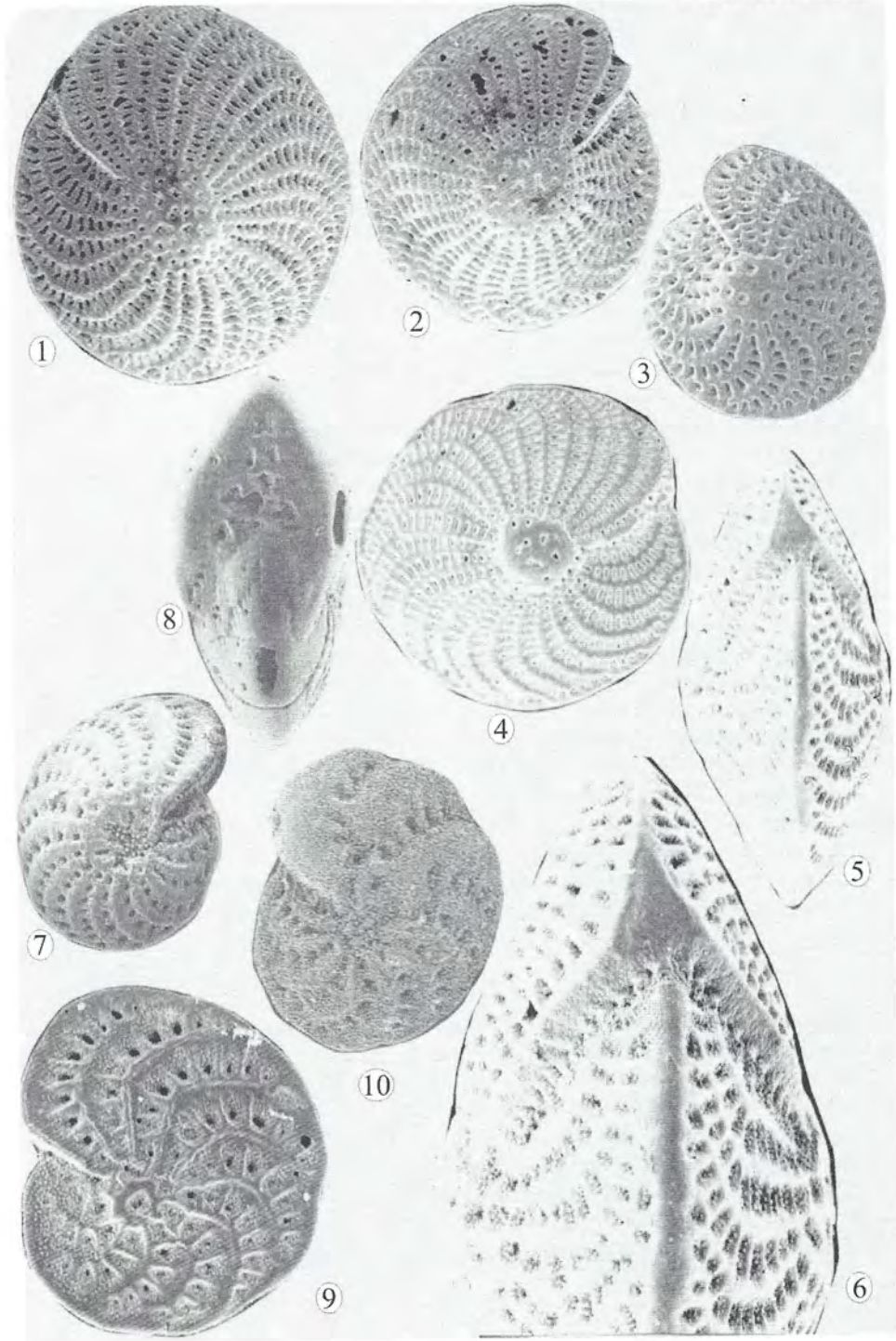


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