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Diversity of marine Arthropoda along the coasts of Türkiye

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Abstract: This is an updated compilation of marine arthropod species reported from the coasts of Türkiye. As of the first half of 2024, 1886 arthropod species have been reported in the marine and brackish water environments of Türkiye. The class Malacostraca, having the highest number of species, is followed by Copepoda, Ostracoda, Arachnida, Pycnogonida, Thecostraca, Branchiopoda, and Insecta in terms of species diversity. Additionally, 83 alien species have been identified.

Key words: Arthropoda, Black Sea, Sea of Marmara, Aegean Sea, Levantine Sea, Türkiye

1. Introduction

Marine arthropods, which include crustaceans like crabs, shrimp, and lobsters, as well as other organisms such as barnacles and sea spiders, play a pivotal role in maintaining the health and functionality of marine ecosystems. They play various roles as primary consumers, predators, and decomposers, ensuring the balanced operation of the food web. Planktonic species regulate primary production by consuming phytoplankton, while benthic species contribute to nutrient cycling by breaking down organic matter. The diversity of arthropods enhances the complexity and resilience of marine ecosystems, making them more robust against changing environmental conditions and stress factors. Economically, many marine arthropod species, such as shrimp, crabs, and lobsters, are of high commercial value in fisheries and aquaculture. Additionally, they are attractive for marine tourism and ecotourism. Marine arthropods serve as important model organisms in various scientific fields, including ecology, evolution, genetics, and physiology. Their sensitivity to environmental changes and pollution provides crucial insights into the health of marine ecosystems, making them valuable indicators in biodiversity monitoring programs. Therefore, the conservation and sustainable management of marine arthropods are vital for preserving the overall health and biodiversity of marine ecosystems (Culliney, 2013; Das and Pandey, 2015; Szaniawska and Szaniawska, 2018; Santos et al., 2020; Susanto, 2021).

Biodiversity is generally considered a national treasure and is understood to be preserved for future generations. In this context, nations strive to identify and document this richness. Records of arthropod species, which constitute a significant part of Türkiye's marine biodiversity, date back to 1757 (Hasselquist, 1757). Numerous scientific studies conducted along Türkiye's coasts have led to the discovery of many new species. These records were compiled into a single list by Bakır et al. (2014), revealing the diversity of marine and brackish water arthropods in Türkiye. This list has since been used as a primary reference by many researchers, some of whom have also provided valuable feedback to improve it. Over the past decade, new researchers and experienced scientists have updated the inventory of Turkish fauna; some original records have been updated and findings from unpublished master's and doctoral theses have also been compiled into articles. Considering all of this new knowledge, the need to update the old list has emerged.

The aims behind this study are to create an updated species list, including new records discovered in recent years, and to resolve ongoing debates about the presence and taxonomy of species along the coasts of Türkiye using scientific evidence based on recent findings.

2. Materials and methods

This study compiles articles published on marine arthropods along the Turkish coast over the past 10 years, following the work of Bakır et al. (2014). Table, taken from Bakır et al. (2014), has been updated to include species

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identified or reclassified in the past decade along the coasts of Türkiye. Species were selected based on the dates they were first documented in Türkiye's four seas. References from Bakır et al. (2014) that remain unchanged are indicated with a '+' sign, indicating that both publications should be evaluated together. The table includes the valid names of native, alien, and protected species, as recognized by various national and international agreements and laws. It also provides the first records of these species along the Turkish coast, along with their depth ranges and habitat preferences. The boundary between the Levantine Sea and the Aegean Sea is defined as a straight line between the Dalaman River and Rhodes. Findings from studies in the Dardanelles and Bosphorus are included as part of the Sea of Marmara.

Species described and synonymized in previous studies are appropriately indicated in the notes section in Table. Fossil species are also clearly indicated in this section. A question mark has been added in front of the names of questionable species that may have been misidentified or only recorded in a single study. Species listed by Bakır et al. (2014) that were subsequently found to be nomen nudum or misidentified have been removed from this updated species list.

3. Results

3.1. New findings

Two species, *Copilia vitrea* (Haeckel, 1864) and *Sapphirina opalina* Dana, 1849, were detected at coordinates 36°5′59.97″N, 33°32′44.22″E through vertical plankton sampling at depths of 0–100 m and added to the list as new records from the present study (PS). *Copilia vitrea* (Haeckel, 1864) is a new record for the Turkish Levantine coast, while *Sapphirina opalina* Dana, 1849 is a new record for the fauna of Türkiye.

3.2. Species list

In the past decade, the arthropod biodiversity of Türkiye's seas has increased by 262 species, reaching a total of 1886 species. Among these, the class Malacostraca has the highest number of species, increasing from 766 to 902 species. This is followed by the class Copepoda, which increased from 420 to 580 species, and Ostracoda, which increased from 263 to 280 species. In the remaining five classes, the total number of species increased by 124 (see Table and Figure 1). In the study by Bakır et al. (2014), the Thecostraca and Copepoda groups were included in the Maxillopoda class, while in the study by Bernot et al. (2023), they were included as separate classes. For this reason, these two were evaluated as separate classes in this study.

Table. List of marine arthropod species of Türkiye [*: alien species; BS: Black Sea; SM: Sea of Marmara; AS: Aegean Sea; LS: Levantine Sea; DR: depth range (I: 0–10 m; II: 11–50 m; III: 51–100 m; IV: 101–200 m; V: 201–400 m; VI: 401–600 m; VII: >600 m); H: habitat (Hs: hard substratum including algae, sponge, mussels, etc.; Ss: soft substratum including all phanerogames; P: pelagic; Pz: parasite; CT: commensal on sea turtles, CM: commensal on *Maja* spp., W: inhabiting submerged wood); PS: present study; BC: Barcelona Convention; BN: Bern Convention; NL: national legislation; for +, see Bakır et al., 2014].

Group/Species	BS	SM	AS	LS	DR	H	Notes (synonyms and status)
ARTHROPODA (Phylum)							
CHELICERATA (Subphylum)							
ARACHNIDA (Class)							
TROMBIDIFORMES (Order)							
Halacaridae (Family)							
Acarochelopodia cuneifera Bartsch, 1977				Durucan and Boyacı, 2018b	I	Ss	
Acaromantis monnioti Morselli, 1970				Stamouli et al., 2017	I	Ss	
Actacarus bacescui Konnerth-Ionescu, 1970				Durucan and Boyacı, 2018b	I	Ss	
Agaue chevreuxi Trouessart, 1889	+	+	Durucan, 2021a	Durucan, 2019a	I	Ss	
Agaue panopae (Lohmann, 1893)			Durucan, 2021a	Durucan, 2019a	I	Hs	
Agauopsis brevipalpus (Trouessart, 1889)	+		Durucan, 2021a	Durucan and Boyacı, 2018a	I	Hs, Ss	
Agauopsis conjuncta Viets, 1940			Durucan, 2021a	Durucan and Boyacı, 2018a	II	Ss	
Agauopsis ibssi Bartsch, 1996				Durucan and Boyacı, 2018a	II	Ss	
Agauopsis microrhyncha (Trouessart, 1889)			Durucan, 2021a	Mytilineou et al., 2016	II	Ss	
Agauopsis nonornata Bartsch, 1999				Durucan and Boyacı, 2018a	II	Ss	

Table. (Continued.)

Agauopsis pteropes Bartsch, 1986				Durucan and Boyacı, 2018a	II	Ss	
Anomalohalacarus mollis Morselli & Mari,1982				Durucan and Boyacı, 2018b	I	Ss	
Anomalohalacarus similis Bartsch, 1976	+				I	Ss	
Atelopsalis pacifica (Bartsch, 1985)				Durucan and Boyacı, 2017	II	Ss	
Camactognathus tesselatus (Morselli and Mari, 1982)	+			Durucan, 2019c	I	Ss	
Coloboceras drachi Monniot, 1962			Durucan, 2021a	Durucan, 2019c	I	Ss	
Copidognathus brachystomus Viets, 1940	+		Durucan, 2021a	Durucan, 2019b	I-II	Hs, Ss	
Copidognathus dentatus Viets, 1940				Durucan, 2019b	I	Ss	
Copidognathus dissimilis Bartsch, 2013	+				I	Ss	
Copidognathus gibbus (Trouessart, 1889)				Durucan, 2019b	I	Ss	
Copidognathus lamelloides Bartsch, 2000				Durucan, 2019b	I	Ss	
Copidognathus longirostris (Trouessart, 1896)				Durucan, 2019b	I	Ss	
Copidognathus loricifer André, 1946				Durucan, 2019b	I	Ss	
Copidognathus magnipalpus (Police, 1909)	+			Durucan, 2019b	I	Hs, Ss	
Copidognathus majusculatus (Trouessart, 1894)				Durucan, 2019b	I	Ss	
Copidognathus mucronatus Viets, 1928	+				I	Hs	
Copidognathus oculatus (Hodge, 1863)				Durucan, 2019b	I	Ss	
Copidognathus quadricostatus (Trouessart, 1894)				Durucan, 2019b	I	Ss	
Copidognathus remipes (Trouessart, 1894)			Durucan, 2021a	Durucan, 2019b	I	Ss	
Copidognathus sculptus (Police, 1909)	+				I-II	Ss	
Copidognathus septentrionalis (Halbert, 1915)				Durucan, 2019b	I	Ss	
Copidognathus tabellio (Trouessart, 1894)	+		Durucan, 2021a	Durucan, 2019b	I	Hs	
Copidognathus tectiporus (Viets, 1935)	+				I	Ss	
Halacaropsis hirsuta (Trouessart, 1889)		+	Durucan, 2021a	Durucan, 2019a	I	Hs	
Halacarus bisulcus (Viets, 1927)				Durucan, 2019a	I	Ss	
Halacarus rismondoi Viets, 1940				Durucan, 2019c	II	Ss	
Isobactrus ponticus Bartsch, 2000	+				I	Hs	
Lohmannella falcata (Hodge, 1863)	+			Chartosia et al., 2018	I	Hs, Ss	
Maracarus gracilipes (Trouessart, 1889)				Durucan, 2019a	I	Ss	
Porohalacarus alpinus (Thor, 1910)	+				I	Hs, Ss	
Rhombognathides pascens (Lohmann, 1889)	+				I	Hs	
Rhombognathus karlvietsi Bartsch, 1975	+				I	Hs	
Rhombognathus magnirostris Trouessart, 1889	+		Durucan, 2021a	Durucan, 2019a	I	Hs	
Rhombognathus paranotops Bartsch, 1986	+		Durucan, 2021a	Durucan, 2019c	I	Hs	
Rhombognathus parvulus Viets, 1939				Durucan, 2019c	I	Hs	
Rhombognathus peltatus Viets, 1939	+				I	Hs	
Rhombognathus tonops Bartsch, 1996	+				I	Hs	
Scaptognathus hallezi Trouessart, 1894				Durucan, 2018	I,II	Ss	
Scaptognathus sabularius André, 1961				Durucan, 2018	I	Ss	
Simognathus adriaticus Viets, 1940			Durucan, 2021a	Stamouli et al.,2017	I	Ss	
Thalassarachna affinis (Trouessart, 1896)	+	+		Durucan, 2019a	I-IV	Hs, Ss	
Pontarachnidae (Family)							
Litarachna antalyaensis Pešić, Durucan & Chatterjee, 2018				Durucan et al., 2018	I	Ss	
Litarachna communis Walter, 1925			Koç et al., 2015	Durucan, 2021b	I	Ss	

Table. (Continued.)

Litarachna divergens Walter, 1925				+	I	Hs	
Litarachna duboscqi Walter, 1925			Koç et al., 2015	Durucan, 2021b	I	Hs	
Litarachna enigmatica Pešić, Durucan & Chatterjee 2018				Durucan et al., 2018	I	Ss	
Litarachna muratsezgini Pešić, Durucan & Zawal 2019				Pešić et al., 2019	I	Ss	
Pontarachna adriatica Morselli, 1980	+			Durucan, 2021b	I	Ss	
Pontarachna aenariensis Mari & Morselli, 1983			Durucan, 2021b		I	Ss	
Pontarachna episce Smith, 2008				+	I-II	?	
Pontarachna punctulum Philippi, 1840			Koç et al., 2015		I	Hs, Ss	
Pontarachna turcica Pešić, Durucan & Zawal, 2019				Pešić et al., 2019	I	Ss	
Pontarachna valkanovi Petrova, 1978	+				I	Ss	
PYCNOGONIDA (Class)							
PANTOPODA (Order)							
Ammotheidae (Family)							
Achelia echinata Hodge, 1864		Demir, 1952	+		I	Hs	
Achelia langi (Dohrn, 1881)			+	Koçak, 2022a	I-II	Hs, Ss	
Achelia vulgaris (O. G. Costa, 1861)			+		II	Hs	
**Ammothea hilgendorfi* (Böhm, 1879)				Ragkousis et al., 2020	I	Hs	
Ammothella appendiculata (Dohrn, 1881)		Demir, 1952	+	+	I	Hs	
Ammothella biunguiculata (Dohrn, 1881)			+		II	Ss	
Ammothella longioculata (Faraggiana, 1940)			+	Koçak, 2022b	I	Hs	
Ammothella longipes (Hodge, 1864)			+	+	I	Hs	
Ammothella uniunguiculata (Dohrn, 1881)			+		I	Hs	
Neotrygaeus communis (Dohrn, 1881)			Koçak, 2019		I	Hs	*Trygaeus communis* Dohrn, 1881
Tanystylum conirostre (Dohrn, 1881)		Ostroumoff, 1894	Arnaud, 1976	Koçak and Alan, 2013	I	Hs	*Clotenia conirostris* Dohrn, 1881
Tanystylum orbiculare Wilson, 1878			+	+	I	Hs	
Ascorhynchidae (Family)							
Ascorhynchus castelli (Dohrn, 1881)			+	+	I-V	Hs, Ss	
Callipallenidae (Family)							
Callipallene brevirostris (Johnston, 1837)	+				III	Hs	
Callipallene emaciata (Dohrn, 1881)			+		I	Hs	
Callipallene phantoma (Dohrn, 1881)		+	+		I	Hs	
Callipallene spectrum (Dohrn, 1881)		+	+		I	Hs	
Callipallene tiberii (Dohrn, 1881)				Koçak, 2016	I	Hs	
Endeidae (Family)							
Endeis charybdaea (Dohrn, 1881)			+		II	Ss	
Endeis spinosa (Montagu, 1808)		+	+		I	Hs	
Nymphonidae (Family)							
Nymphon gracile Leach, 1814			+		I	Hs	
Phoxichilidiidae (Family)							
Anoplodactylus angulatus (Dohrn, 1881)			+		I	Hs	
**Anoplodactylus californicus* Hall, 1912				+	?	Hs	
Anoplodactylus digitatus (Böhm, 1879)				Koçak, 2014	I	Hs	

Table. (Continued.)

Anoplodactylus nanus Krapp, Koçak and Katağan, 2008			+		I	Hs	
Anoplodactylus petiolatus (Kroyer, 1844)	+	+	+		I-III	Hs	
Anoplodactylus pygmaeus (Hodge, 1864)		+	+	+	I	Hs	
Anoplodactylus stocki Bacescu, 1958	+				III	Hs	
Anoplodactylus virescens (Hodge, 1864)			+		I	Hs	
Pycnogonidae (Family)							
Pycnogonum nodulosum Dohrn, 1881			+		II	Ss	
CRUSTACEA (Subphylum)							
BRANCHIOPODA (Class)							
ANOSTRACA (Order)							
Thamnocephalidae (Family)							
Phallocryptus spinosus (Milne-Edwards, 1840) (sensu Rogers, 2003)			+		I	Ss	*Branchinella spinosa* (H. Milne-Edwards, 1840)
ONYCHOPODA (Order)							
Podonidae (Family)							
Evadne nordmanni Lovén, 1836	+	+	+	+	I-II	P	
Evadne spinifera P.E. Müller, 1867	+	+	+	+	I-II	P	
Pleopis polyphemoides (Leuckart, 1859)	+	+	+	+	I-II	P	*Pleopis polyphaemoides* (Leuckart, 1859)
**Pleopis schmackeri* (Poppe, 1889)			Bariche et al., 2020	Terbiyik Kurt and Polat, 2018	I-II	P	
Podon intermedius Lilljeborg, 1853	+	+	+	Terbıyık Kurt and Polat, 2014	I-II	P	
Pseudevadne tergestina Claus, 1877	+	+	+	+	I-II	P	
CTENOPODA (Order)							
Sididae (Family)							
Penilia avirostris Dana, 1849	+	+	+	+	I-II	P	
THECOSTRACA (Class)							
Sacculinidae (Family)							
**Heterosaccus dollfusi* Boschma, 1960				+	I-II	Pz	
Sacculina gonoplaxae Guérin-Ganivet, 1911				+	II	Pz	
Sacculina zariquieyi Boschma, 1947			+		I	Pz	
BALANOMORPHA (Order)							
Balanidae (Family)							
Amphibalanus amphitrite (Darwin, 1854)	+	+	+	+	I	Hs	
**Amphibalanus eburneus* (Gould, 1841)	+	+	+	+	I	Hs	
**Amphibalanus improvisus* (Darwin, 1854)	Nikitin, 1948	+	+	Mutlu, 2002	I,II	Hs	
Balanus crenatus Bruguiére, 1789		+	+		I	Hs	
**Balanus trigonus* Darwin, 1854			+		I	Hs	
?*Megabalanus* cf. *tintinnabulum* (Linnaeus, 1758)			Geldiay and Kocataş, 1972a		I	Hs	
Perforatus perforatus (Bruguière, 1789)		+	+	+	I	Hs	
Chelonibiidae (Family)							
Chelonibia testudinaria (Linnaeus,1758)			Doğan et al., 2015a	+	I-II	Hs	*Chelonibia patula* (Ranzani, 1818)
Chthamalidae (Family)							
Chthamalus montagui Soutward, 1976	+	+		+	I	Hs	

Table. (Continued.)

Chthamalus stellatus (Poli, 1791)		+	+	+	I	Hs	
Microeuraphia depressa (Poli, 1791)	+	+	+	+	I	Hs	*Euraphia depressa* (Poli, 1791)
VERRUCOMORPHA (Order)							
Verrucidae (Family)							
Verruca spengleri Darwin, 1854		+			II	Hs	
Verruca stroemia (O.F. Müller, 1776)		Demir, 1952			I-II	Hs	
SCALPELLOMORPHA (Order)							
Lepadidae (Family)							
Lepas (*Lepas*) *anatifera* Linnaeus, 1758			+	+	I-II	Hs	*Lepas anatifera* (Linnaeus 1767)
Scalpellidae (Family)							
Scalpellum scalpellum (Linnaeus, 1767)		+	+	Gönülal and Dalyan, 2017	V	Hs	
Poecilasmatidae (Family)							
Octolasmis angulata (Aurivillius, 1894)		Acar and Şen, 2022			III	CM	
COPEPODA (Class)							
CALANOIDA (Order)							
Acartiidae (Family)							
?Acartia hasanii Unal, Shmeleva & Kideys, 2002				Ünal et al., 2002	I-III	P	
?Acartia ioannae Unal, Shmeleva & Kideys, 2002				Ünal et al., 2002	I-III	P	
?Acartia janetae Unal, Shmeleva & Kideys, 2002				Ünal et al., 2002	I-III	P	
Acartia (Acanthacartia)italica Steuer, 1910				+	I-III	P	
**Acartia (Acanthacartia) tonsa* Dana, 1849	+	+	+	+	I-III	P	
Acartia (Acartia) danae Giesbrecht, 1889				+	I-III	P	
Acartia (Acartia) negligens Dana, 1849		+	+	+	I-III	P	
Acartia (Acartiura) clausi Giesbrecht, 1889	+	+	+	+	I-III	P	
Acartia (Acartiura) discaudata (Giesbrecht, 1881)				+	I-III	P	
Acartia (Acartiura) longiremis (Lilljeborg, 1853)		+		+	I-III	P	
Acartia (Hypoacartia) adriatica Steuer, 1910			+		I-II	P	
**Paracartia grani* Sars G.O., 1904			+	Erdoğan and Ertan, 2015	I-II	P	
Paracartia latisetosa (Kriczagin, 1873)	+	+	+	+	I-II	P	
Pteriacartia josephinae (Crisafi, 1974)			Tsagarakis et al., 2021	+	I-III	P	
Aetideidae (Family)							
Aetideus armatus (Boeck, 1872)	+	+		+	II-III	P	
Aetideus giesbrechti Cleve, 1904		+	+	+	I-III	P	
Chiridius poppei Giesbrecht, 1892		+		+	II-III	P	
Euchirella messinensis (Claus, 1863)			+	+	II-III	P	
Arietellidae (Family)							
Arietellus setosus Giesbrecht, 1893				Bakır and Aker, 2022	I-III	P	
Augaptilidae (Family)							
Augaptilus glacialis Sars G.O., 1900				+	I-III	P	
Haloptilus acutifrons (Giesbrecht, 1893)			+	+	I-III	P	

Table. (Continued.)

Haloptilus longicornis (Claus, 1863)		+	+	+	I-III	P	
Haloptilus spiniceps (Giesbrecht, 1892)		+			I-III	P	
Calanidae (Family)							
Calanoides carinatus (Krøyer, 1849)		+		+	I-IV	P	
Calanus euxinus Hulsemann, 1991	+	+			I-IV	P	
Calanus helgolandicus (Claus, 1863)		+	+	+	I-III	P	
**Calanus finmarchicus* (Gunnerus, 1770)		Svetlichny et al., 2023			I-III	P	
Mesocalanus tenuicornis (Dana, 1849)		+	+	+	I-VI	P	
Nannocalanus minor (Claus, 1863)		+	+	+	I-III	P	
Neocalanus gracilis (Dana, 1849)		+	+	+	I-VI	P	
Neocalanus robustior (Giesbrecht, 1888)				+	I-III	P	
Undinula vulgaris (Dana, 1849)		+			I-IV	P	
Candaciidae (Family)							
Candacia armata (Boeck, 1872)		+	+	+	II-III	P	
Candacia bipinnata (Giesbrecht, 1889)		+		+	I-III	P	
Candacia bispinosa (Claus, 1863)			+	+	I-III	P	
Candacia catula (Giesbrecht, 1889)				+	I-III	P	
Candacia elongata (Boeck, 1872)				+	I-III	P	
Candacia ethiopica (Dana, 1849)			+	+	I-III	P	
Candacia giesbrechti Grice & Lawson, 1977		+	İşinibilir et al., 2022		I-III	P	
Candacia longimana (Claus, 1863)		+		+	I-III	P	
Candacia simplex (Giesbrecht, 1889)		+	+	+	I-III	P	
Candacia tenuimana (Giesbrecht, 1889)		+			I-III	P	
Candacia truncata (Dana, 1849)				+	I-III	P	
Candacia varicans (Giesbrecht, 1892)			+	+	I-III	P	
Centropagidae (Family)							
Centropages bradyi Wheeler, 1901			İşinibilir et al., 2022	+	I-III	P	
Centropages caribbeanensis Park, 1970				+	I-III	P	
Centropages chierchiae Giesbrecht, 1889		+			I-III	P	
**Centropages furcatus* (Dana, 1849)		+		+	I-III	P	
Centropages kroyeri Giesbrecht, 1892	+	+	+	+	I-III	P	
Centropages ponticus Karavaev, 1894	+	+	+	+	I-III	P	
Centropages typicus Kröyer, 1849	+	+	+	+	I-III	P	
Centropages violaceus (Claus, 1863)			+	+	I-III	P	
Isias clavipes Boeck, 1865			+	+	I-III	P	
Clausocalanidae (Family)							
Clausocalanus arcuicornis (Dana, 1849)	+	+	+	+	I-III	P	
Clausocalanus furcatus (Brady, 1883)		+	+	+	I-III	P	
Clausocalanus jobei Frost & Fleminger, 1968		+	İşinibilir et al., 2022	+	I-III	P	
Clausocalanus lividus Frost & Fleminger, 1968				+	I-III	P	
Clausocalanus mastigophorus (Claus, 1863)		+	İşinibilir et al., 2022	+	I-III	P	
Clausocalanus minor Sewell, 1929		+		+	I-III	P	

Table. (Continued.)

Clausocalanus parapergens Frost & Fleminger, 1968		+	İşinibilir et al., 2022	+	I-III	P	
Clausocalanus paululus Farran, 1926		+		+	I-III	P	
Clausocalanus pergens Farran, 1926	+	+	İşinibilir et al., 2022	+	I-III	P	
**Ctenocalanus citer* Heron & Bowman, 1971		+		+	I-III	P	
Ctenocalanus vanus Giesbrecht, 1888	+	+	+	+	I-III	P	
Microcalanus pusillus Sars G.O., 1903	+	+		+	I-III	P	
Pseudocalanus elongatus (Boeck, 1865)	+	+	+		II-III	P	
Diaixidae (Family)							
Diaixis hibernica (Scott., A 1896)		+			II-III	P	
Diaixis pygmaea (Scott., T 1896)		+	+		I-III	P	
Discoidae (Family)							
Disco populosus Gordejeva, 1976				+	I-III	P	
Paradisco gracilis Gordejeva K.T., 1975				+	I-III	P	
Paradisco mediterraneus (Gordejeva K.T., 1974)				+	I-III	P	
Eucalanidae (Family)							
Eucalanus elongatus (Dana, 1849)				+	I-III	P	
Pareucalanus attenuatus (Dana, 1849)	+	+	+	+	I-III	P	
Pareucalanus sewelli (Fleminger, 1973)			İşinibilir et al., 2022	+	I-III	P	
Subeucalanus monachus (Giesbrecht, 1888)		+	+	+	I-III	P	
Subeucalanus crassus (Giesbrecht, 1888)		+	+	+	I-III	P	
Subeucalanus subcrassus (Giesbrecht, 1888)		+		+	I-III	P	
Euchaetidae (Family)							
Euchaeta acuta Giesbrecht, 1892		+	+	+	I-III	P	
Euchaeta marina (Prestandrea, 1833)	+	+	+	+	I-III	P	
Euchaeta pubera G.O., Sars, 1907				+	I-III	P	
Euchaeta spinosa Giesbrecht, 1893				Bakır and Aker, 2022	I-III	P	
Paraeuchaeta hebes (Giesbrecht, 1888)		+	+	+	I-III	P	
Heterorhabdidae (Family)							
Heterorhabdus papilliger Claus, 1863		+	+	+	I-III	P	
Heterorhabdus spinifrons (Claus, 1863)			+	+	I-III	P	
Lucicutiidae (Family)							
Lucicutia clausi (Giesbrecht, 1889)		+	+	+	I-III	P	
Lucicutia flavicornis (Claus, 1863)		+	+	+	II-III	P	
Lucicutia gaussae Grice, 1963				+	I-III	P	
Lucicutia gemina Farran, 1926		+		+	I-III	P	
Lucicutia longicornis (Giesbrecht, 1889)		+		+	I-III	P	
Lucicutia ovalis (Giesbrecht, 1889)			+	+	I-III	P	
Lucicutia paraclausi Park, 1970		+		+	I-III	P	
Metridinidae (Family)							
Metridia boeckii Giesbrecht, 1889		+			II-III	P	
Metridia lucens Boeck, 1864	+	+		+	IV-V	P	
Pleuromamma abdominalis (Lubbock, 1856)		+	+	+	I-VII	P	
Pleuromamma gracilis (Claus, 1863)	+	+	+	+	I-III	P	
Paracalanidae (Family)							

Table. (Continued.)

**Acrocalanus gibber* Giesbrecht, 1888		+		+	I-II	P	
Acrocalanus longicornis Giesbrecht, 1888		+		+	I-III	P	
**Acrocalanus monachus* Giesbrecht, 1888		+		+	I-III	P	
Calocalanus adriaticus Shmeleva, 1965		+	+	+	I-III	P	
Calocalanus atlanticus Shmeleva, 1975				+	I-III	P	
Calocalanus contractus Farran, 1926		+	+	+	I-III	P	
Calocalanus elegans Shmeleva, 1965			İşinibilir et al., 2022	+	I-III	P	
Calocalanus elongatus Shmeleva, 1968				+	I-III	P	
Calocalanus gracilis Tanaka, 1956			+	+	I-III	P	
Calocalanus gresei Shmeleva, 1973				+	I-III	P	
Calocalanus kristalli Shmeleva, 1968				+	I-III	P	
Calocalanus latus Shmeleva, 1968				+	I-III	P	
Calocalanus lomonosovi Shmeleva, 1975				+	I-III	P	
Calocalanus longisetosus Shmeleva, 1965				+	I-III	P	
Calocalanus minor Shmeleva, 1975		+		+	I-III	P	
Calocalanus neptunus Shmeleva, 1965			+	+	I-III	P	
Calocalanus ovalis Shmeleva, 1965				+	I-III	P	
Calocalanus pavo (Dana, 1849)	+	+	+	+	I-III	P	
Calocalanus pavoninus Farran, 1936		+	+	+	I-III	P	
Calocalanus plumatus Shmeleva, 1965		+		+	I-III	P	
Calocalanus plumulosus (Claus, 1863)			+	+	I-III	P	
Calocalanus pyriformis Shmeleva, 1975				+	I-III	P	
Calocalanus styliremis Giesbrecht, 1888		+	+	+	II-III	P	
Calocalanus tenuis Farran, 1926		+			II-III	P	
Calocalanus vivesi Shmeleva, 1979				+	I-III	P	
Delius nudus (Sewell, 1929)				+	I-III	P	
Mecynocera clausi Thompson I.C., 1888	+	+	+	+	I-III	P	
Paracalanus aculeatus Giesbrecht, 1888		+		+	I-III	P	
Paracalanus denudatus Sewell, 1929		+	+	+	I-III	P	
Paracalanus nanus Sars G.O., 1907	+	+	+	+	I-III	P	
Paracalanus parvus (Claus, 1863)	+	+	+	+	I-III	P	
**Parvocalanus crassirostris* (Dahl F., 1894)		+	Besiktepe et al., 2022	+	I-II	P	
Parvocalanus dubia (Sewell, 1912)				+	I-III	P	
**Parvocalanus elegans* Andronov, 1972		+		+	I-III	P	
**Parvocalanus latus* Andronov, 1972		+		+	I-III	P	
Parapontellidae (Family)							
Parapontella brevicornis (Lubbock, 1857)		+	+		I-II	P	
Phaennidae (Family)							
Phaenna spinifera Claus, 1863			+	+	II-III	P	
Xanthocalanus agilis Giesbrecht, 1892			+	+	II-III	P	
Pontellidae (Family)							
Anomolacera patersoni Templeton, 1837	+	+	+	+	I-II	P	
Calanopia americana Dahl F., 1894				+	I-III	P	
Calanopia biloba Bowman, 1957				+	I-III	P	
**Calanopia elliptica* (Dana, 1849)		+	+	+	I-III	P	
Calanopia levantina Uysal & Shmeleva, 2004				+	I-III	P	

Table. (Continued.)

Calanopia metu Uysal & Shmeleva, 2004		+		+	I-III	P	
Calanopia minor Scott A., 1902				+	I-III	P	
Labidocera brunescens (Czerniavsyk, 1868)	+	+	+	+	I	P	
**Labidocera pavo* Giesbrecht, 1889			+	+	I-III	P	
Labidocera wollastoni (Lubbock, 1857)		+	+	+	I-II	P	
Pontella atlantica (Milne Edwards, 1840)				Bakır and Aker, 2022	I-II	P	
Pontella lobiancoi (Canu, 1888)		+	+	+	I-II	P	
Pontella mediterranea (Claus, 1863)	+	+	+	+	I-II	P	
Pontellina plumata (Dana, 1849)		+	+	+	I-II	P	
Pontellina sobrina Fleminger & Hulsemann, 1974				+	I-III	P	
Pontellopsis regalis (Dana, 1849)		+	+	+	I-II	P	
Pontellopsis villosa Brady, 1883		+		+	I-III	P	
Pseudocyclopidae (Family)							
Pseudocyclops obtusatus Brady & Robertson, 1873			+		I-II	P	
Pseudodiaptomidae (Family)							
**Pseudodiaptomus marinus* Sato, 1913		Tiralongo et al., 2022	Besiktepe et al., 2022	Erdoğan and Ertan, 2015	I-II	P	
Rhincalanidae (Family)							
Rhincalanus nasutus Giesbrecht, 1888		+			II-III	P	
Scolecitrichidae (Family)							
Scolecithricella abyssalis (Giesbrecht, 1888)		+	+		I-III	P	
Scolecithricella dentata (Giesbrecht, 1892)		+	+	İşinibilir et al., 2022	I-III	P	
Scolecithricella marginata (Giesbrecht, 1888)				+	I-III	P	
Scolecithricella minor (Brady, 1883)				+	I-III	P	
Scolecithricella tenuiserrata (Giesbrecht, 1892)			+	+	I-III	P	
Scolecithricella vittata (Giesbrecht, 1893)		+			I-III	P	
Scolecithrix bradyi Giesbrecht, 1888			+	+	I-III	P	
Scolecitrichopsis ctenopus (Giesbrecht, 1888)				+	I-III	P	
Scaphocalanus curtus (Farran, 1926) (Family)			İşinibilir et al., 2022	İşinibilir et al., 2022	I-III	P	
Scaphocalanus emine Uysal & Shmeleva, 2002				+	I-III	P	
Pseudoamallothrix emarginata (Farran, 1905)		+			II-III	P	
Spinocalanidae (Family)							
Spinocalanus caudatus Sars, G.O. 1920		+			I-III	P	
Spinocalanus magnus Wolfenden, 1904		+		+	I-III	P	
Temoridae (Family)							
Temora longicornis (O.F. Müller, 1792)				+	I-III	P	
Temora stylifera Dana, 1849		+	+	+	I-III	P	
SIPHONOSTOMATOIDA (Order)							
Nicothoidae (Family)							
Rhizorhina ampeliscae Hansen, 1892	Bacescu and Margineanu, 1959				?	Pz	

Table. (Continued.)

Rataniidae (Family)							
Ratania flava Giesbrecht, 1892			+	+	I-III	P	
Pontoeciellidae (Family)							
Pontoeciella abyssicola (Scott T., 1894)				+	I-III	P	
MORMONILLOIDA (Order)							
Mormonillidae (Family)							
Mormonilla phasma Giesbrecht, 1891		+		+	I-III	P	
Neomormonilla minor (Giesbrecht, 1891)		+	+		I-III	P	
MONSTRILLOIDA (Order)							
Monstrillidae (Family)							
Cymbasoma sinopense Üstün, Terbıyık & Suárez-Morales, 2014	Üstün et al., 2014				I-II	P	
Cymbasoma turcorum Suárez-Morales & Üstün, 2018	Suárez-Morales and Üstün, 2020				I-II	P	
Monstrilla grandis Giesbrecht, 1891	Suárez-Morales and Üstün, 2018				I-II	P	
Monstrillopsis pontoeuxinensis Suárez-Morales & Üstün, 2018	Suárez-Morales and Üstün, 2020				I-II	P	
CYCLOPOIDA (Order)							
Pachos punctatum (Claus, 1863)				+	I-III	P	
OITHONIDA (Suborder)							
Cyclopinidae (Family)							
Cyclopina gracilis Claus, 1863				+	I-III	P	
Oithonidae (Family)							
Oithona atlantica Farran, 1908		+		+	I-III	P	
Oithona attenuata Farran, 1913				+	I-III	P	
Oithona colcarva Bowman, 1975				+	I-III	P	
**Oithona davisae* Ferrari & Orsi, 1984	Üstün and Terbıyık Kurt, 2016	Doğan and İşinibilir, 2016	Terbıyık Kurt and Beşiktepe, 2019	Terbıyık-Kurt et al., 2022	I-II	P	
Oithona decipiens Farran, 1913		+		+	I-III	P	
Oithona fallax Farran, 1913				+	I-III	P	
Oithona hamata Rosendorn, 1917				+	I-III	P	
Oithona linearis Giesbrecht, 1891				+	I-III	P	
Oithona nana Giesbrecht, 1892	+	+	+	+	I-III	P	
Oithona parvula (Farran, 1908)		+		+	I-III	P	
Oithona plumifera Baird, 1843		+	+	+	I-III	P	
Oithona setigera (Dana, 1849)		+	+	+	I-III	P	
Oithona similis Claus, 1866	+	+	+	+	I-III	P	
Oithona simplex Farran, 1913				+	I-III	P	
Oithona tenuis Rosendorn, 1917		+	İşinibilir et al., 2022	+	I-III	P	
Oithona vivida Farran, 1913			İşinibilir et al., 2022	+	I-III	P	
**Dioithona oculata* (Farran, 1913)				Terbıyık Kurt, 2018	I-II	P	
ERGASILLIDA (Suborder)							
Corycaeidae (Family)							
Corycaeus (Agetus) flaccus Giesbrecht, 1891			+	+	I-III	P	

Table. (Continued.)

Corycaeus (Agetus) limbatus Brady, 1883		+	+	+	I-III	P	
Corycaeus (Agetus) typicus (Krøyer, 1849)	+	+	+	+	I-III	P	
Corycaeus (Corycaeus) clausi F. Dahl, 1894		+	+	+	I-III	P	
Corycaeus (Corycaeus) crassiusculus Dana, 1849				+	I-III	P	
Corycaeus (Corycaeus) speciosus Dana, 1849			+	+	I-III	P	
Corycaeus (Ditrichocorycaeus) brehmi Steuer, 1910		+	+	+	I-III	P	
Corycaeus (Onychocorycaeus) giesbrechti F. Dahl, 1894			+	+	I-III	P	
Corycaeus (Onychocorycaeus) latus Dana, 1849			+	İşinibilir et al., 2022	I-III	P	
Corycaeus (Onychocorycaeus) ovalis Claus, 1863			İşinibilir et al., 2022		I-III	P	
Corycaeus (Urocorycaeus) furcifer Claus, 1863	+	+	+	+	I-III	P	
Farranula gracilis (Dana, 1849)				+	I-III	P	
Farranula rostrata (Claus, 1863)	+	+	+	+	I-III	P	
Lubbockiidae (Family)							
Lubbockia aculeata Giesbrecht, 1891			+	+	I-III	P	
Lubbockia squillimana Claus, 1863		+	+	+	I-III	P	
Homeognathia brevis (Farran, 1908)				+	I-III	P	
Oncaeidae (Family)							
Epicalymma exigua (Farran, 1908)				+	I-III	P	
Monothula subtilis (Giesbrecht, 1892)		+	+	+	I-III	P	
Oncaea atlantica Shmeleva, 1967		+		+	I-III	P	
Oncaea bathyalis Shmeleva, 1968				+	I-III	P	
Oncaea brodskii Shmeleva, 1968				+	I-III	P	
Oncaea clevei Früchtl, 1923				+	I-III	P	
Oncaea curta Sars, G.O. 1916		+	İşinibilir et al., 2022	+	I-III	P	
Oncaea longiseta Shmeleva, 1968				+	I-III	P	
Oncaea media Giesbrecht, 1891		+	+	+	I-III	P	
Oncaea mediterranea (Claus, 1863)		+	+	+	I-III	P	
Oncaea minima Shmeleva, 1968				+	I-III	P	
Oncaea neobscura Razouls, 1969				+	I-III	P	
Oncaea notopus Giesbrecht, 1891				+	I-III	P	
Oncaea obscura Farran, 1908	+			+	I-III	P	
Oncaea oceanica Gordeeva, 1972				+	I-III	P	
Oncaea ornata Giesbrecht, 1891		+		+	I-III	P	
Oncaea ovalis Shmeleva, 1966				+	I-III	P	
Oncaea prendeli Shmeleva, 1966				+	I-III	P	
Oncaea scottodicarloi Heron & Bradford-Grieve, 1995			İşinibilir et al., 2022	İşinibilir et al., 2022	I-III	P	
Oncaea tenuimana Giesbrecht, 1891				+	I-III	P	
Oncaea tregoubovi Shmeleva, 1968				+	I-III	P	
Oncaea tregoubovi Shmeleva, 1968		+		+	I-III	P	
Oncaea venella Farran, 1929		+		+	I-III	P	
Oncaea venusta Philippi, 1843		+	+	+	I-III	P	

Table. (Continued.)

Oncaea vodjanitskii Shmeleva & Delalo, 1965				+	I-III	P	
Oncaea zernovi Shmeleva, 1966		+		+	I-III	P	
Spinoncaea ivlevi (Shmeleva, 1966)		+		+	I-III	P	
Triconia conifera (Giesbrecht, 1891)		+	+	+	I-III	P	
Triconia dentipes (Giesbrecht, 1891)	+	+	+	+	I-III	P	
Triconia minuta Giesbrecht, 1892	+	+	+	+	I-III	P	
Triconia similis (Sars, G.O. 1918)		+	+	+	I-III	P	
Sapphirinidae (Family)							
Copilia mediterranea (Claus, 1863)			+	+	I-III	P	
Copilia mirabilis Dana, 1849				+	I-III	P	
Copilia quadrata Dana, 1849		+	+	+	I-III	P	
Copilia vitrea (Haeckel, 1864)			+	PS	I-II	P	
Sapphirina angusta Dana, 1849			+	+	I-III	P	
Sapphirina auronitens Claus, 1863			+	İşinibilir et al., 2022	I-III	P	
Sapphirina bicuspidata Giesbrecht, 1891				İşinibilir et al., 2022	I-III	P	
Sapphirina gemma Dana, 1849			+	+	I-III	P	
Sapphirina intestinata Giesbrecht, 1891				+	I-III	P	
Sapphirina metallina Dana, 1849			+	+	I-III	P	
Sapphirina nigromaculata Claus, 1863			+	+	I-III	P	
Sapphirina ovatolanceolata Dana, 1849			+	+	I-III	P	
Sapphirina opalina Dana, 1849				PS	I-III	P	
Vettoria granulosa (Giesbrecht, 1891)			+	+	I-III	P	
Vettoria parva (Farran, 1936)			+	+	I-III	P	
Bomolocohidae (Family)							
Bomolochus bellones Burmeister, 1835			Öktener et al., 2015		?	Pz	
Bomolochus unicirrus Brian, 1902				Demirkale et al, 2017	?	Pz	
Chondracanthidae (Family)							
Chondracanthus angustatus Heller, 1865		Öktener and Şirin, 2019a			?	Pz	
Chondracanthus horridus Heller, 1865		Öktener and Şirin, 2018					
Chondracanthus lophii Johnston, 1836		+			?	Pz	
Chondracanthus merluccii (Holten, 1802)		Öktener and Şirin, 2019a			?	Pz	
Chondracanthus zei Delaroche, 1811		Öktener and Şirin, 2018			?	Pz	
Ergasilidae (Family)							
Ergasilus gibbus Nordmann, 1832		+	+		?	Pz	
Ergasilus lizae Krøyer, 1863	+		+		?	Pz	
Rhynchomolgidae (Family)							
Doridicola longicauda (Claus, 1860)				Yanar et al., 2016	?	Pz	
Taeniacanthidae (Family)							
Anchistrotos laqueus Leigh-Sharpe, 1935		+			?	Pz	*Taeniacanthus laqueus* (Leigh-Sharpe, 1935)

Table. (Continued.)

**Caligidae (Family)*				+	?	Pz	
Caligidae (Family)							
Caligus adanensis Özak, Sakarya & Boxshall, 2019				Özak et al., 2019	?	Pz	
Caligus apodus (Brian, 1924)		Öktener et al., 2017	+	+	?	Pz	
Caligus bonito Wilson, 1905		+	+		?	Pz	
Caligus brevicaudatus Scott A., 1901				+	?	Pz	
Caligus dakari Van Beneden, 1892			Alaş et al., 2015		?	Pz	*Caligus mauritanicus* Brian, 1924
Caligus diaphanus Nordmann, 1832		Öktener et al., 2016			?	Pz	
Caligus izmiriensis Özak, Kurt, Kamanli, Akbulut, Yanar & Boxshall, 2024			Özak et al., 2024		?	Pz	
**Caligus lagocephali* Pillai N.K., 1961				+	?	Pz	*Caligus fugu* (Yamaguti, 1936)
Caligus lichiae Brian, 1906				Özak et al., 2019	?	Pz	
Caligus ligusticus Brian, 1906				Demirkale et al., 2015	?	Pz	
Caligus macrurus Heller, 1865				Özak et al., 2017	?	Pz	
Caligus minimus Otto, 1821	Özer and Öztürk, 2011	Öktener et al, 2017	+	Yalım et al., 2014	?	Pz	
Caligus mugilis Brian, 1935		Alaş and Öktener, 2017			?	Pz	
Caligus pageti Russell, 1925			Alaş et al., 2015		?	Pz	
Caligus pelamydis Krøyer, 1863			Alaş et al., 2015		?	Pz	
Caligus quadratus Shiino, 1954				Özak, 2020	?	Pz	
Caligus sarosensis Özak, Kurt, Kamanli, Akbulut, Yanar & Boxshall, 2024			Özak et al., 2024		?	Pz	
Caligus scribae Essafi, Cabral & Raibaut, 1984				Özak, 2020	?	Pz	
Caligus solea Demirkale, Özak, Yanar & Boxshall, 2014				Demirkale et al., 2014	?	Pz	
Caligus temnodontis Brian, 1924			+	+	?	Pz	*Caligus mauritanicus temnodontis* Brian, 1924
Caligus zei Norman & Scott T., 1906		Öktener et al., 2018d			?	Pz	
Caligus vexator Heller, 1865			Alaş and Öktener, 2017		?	Pz	
Euryphorus brachypterus (Gerstaecker, 1853)				Özak and Yanar, 2016	?	Pz	
Lepeophtheirus europaensis Zeddam, Berrebi, Renaud, Raibaut & Gabrion, 1988		+			?	Pz	
Lepeophtheirus pectoralis (Müller O.F., 1776)			Özer, 2021		?	Pz	
Lernaeopodidae (Family)							

Table. (Continued.)

Clavellisa scombri (Kurz, 1877)		+	Aldık et al., 2023		?	Pz	
Clavellotis briani Benmansour, Ben Hassine, Diebakate & Raibaut, 2001				Koyuncu et al., 2015	?	Pz	
Clavellotis fallax (Heller, 1865)			+		?	Pz	
Clavellotis strumosa (Brian, 1906)		+			?	Pz	
Praeclavella alata (Brian, 1909)			Alaş et al., 2016		?	Pz	*Clavella alata* Brian, 1909
Hatschekiidae (Family)							
Hatschekia mulli (Beneden, 1851)			+		?	Pz	
Hatschekia pagellibogueravei (Hesse, 1878)			+		?	Pz	*Hatschekia sargi* (Valle, 1882)
Hatschekia petiti Nuñes-Ruivo, 1954				Yalım et al., 2016	?	Pz	
Hatschekia pygmaea Scott T. & Scott A., 1913			+		?	Pz	
Pennellidae (Family)							
Lernaeenicus neglectus Richiardi, 1877			Alaş et al., 2015		?	Pz	
Lernaeocera branchialis (Linnaeus, 1767)			Alaş et al., 2015		?	Pz	
Lernaeolophus sultanus (Milne Edwards, 1840)			+		?	Pz	
Peniculus fistula Nordmann, 1832		Öktener and Şirin, 2019b	+		?	Pz	
Pennella balaenoptera Koren & Danielssen, 1877			Danyer et al., 2014	+	?	Pz	
Pennella filosa (Linnaeus, 1758)			+		?	Pz	
Pennella instructa Wilson C.B., 1917			+	+	?	Pz	
Lernaeopodidae (Family)							
Lernaeopoda galei Krøyer, 1837			+		?	Pz	
Naobranchia cygniformis Hesse, 1863			Alaş et al., 2015		?	Pz	
Parabrachiella bispinosa (Nordmann, 1832)			+		?	Pz	*Neobrachiella bispinosa* (Nordmann, 1832)
Parabrachiella exigua (Brian, 1906)			+		?	Pz	*Eubrachiella exigua* (Brian, 1906)
Parabrachiella merluccii (Bassett-Smith, 1896)			Alaş et al., 2015		?	Pz	
Parabrachiella hostilis (Heller, 1865)				Alaş et al., 2015	?	Pz	
Parabrachiella insidiosa (Heller, 1865)			Alaş et al., 2015		?	Pz	
Parabrachiella richiardii (Ben Hassine & Raibaut, 1978)				Cengizler et al., 2019	?	Pz	
Philorthragoriscus serratus (Krøyer, 1863)				Yalım et al., 2016	?	Pz	
Thysanote impudica (Nordmann, 1832)		+			?	Pz	*Parabrachiella impudica* (Nordmann, 1832)

Table. (Continued.)

Lernanthropidae (Family)							
Lernanthropus brevis Richiardi, 1879			+		?	Pz	*Lernanthropus vorax* Richiardi, 1880
**Lernanthropus callionymicola* El-Rashidy & Boxshall, 2012				Özak et al., 2016	?	Pz	
Lernanthropinus caranxi (Hesse, 1878)		+			?	Pz	*Lernanthropinus trachuri* (Brian, 1903)
Lernanthropus gisleri Beneden, 1852				Özak et al., 2016	?	Pz	
Lernanthropus indefinitus Koyuncu, Romero & Karaytuğ, 2012				+	?	Pz	
Lernanthropus kroyeri Beneden, 1851	+	Öktener et al, 2017	+		?	Pz	
Lernanthropsis mugilis (Brian, 1898)			+		?	Pz	
Lernanthropus nordmanni Wilson C.B., 1922			Alaş et al., 2015		?	Pz	
**Mitrapus oblongus* (Pillai, 1964)				+	?	Pz	
Sagum posteli Delamare Deboutteville & Nunes-Ruivo, 1954			+		?	Pz	
Pandaridae (Family)							
Pandarus bicolor Leach, 1816			+		?	Pz	
HARPACTICOIDA (Order)							
Ameiridae (Family)							
Ameira aff. *spinipes* Nicholls, 1939			Alper, 2022		I	Ss	
Ameira atlantica Noodt, 1958			+		I	Ss	
Ameira atlantica mediterranea Kunz, 1975		Kabaca et al., 2022	Kabaca et al., 2022		I	Ss	
Ameira divagans Nicholls, 1939		Kabaca et al., 2022			I	Ss	
Ameira longipes Boeck, 1865		+	+		I	Ss	
Ameira minuta Boeck, 1865			Metin et al., 2022		I	Ss	
Ameira parvula (Claus, 1866)	Ürkmez et al., 2016	+	+		I	Ss	
Ameira reducta Petkovski, 1954		Kabaca et al., 2022	Kabaca et al., 2022		I	Ss	
Ameira tenuicornis Scott T., 1902			Alper et al., 2015		I	Ss	
Ameiropsis reducta Apostolov, 1973			+		I	Ss	
Filexilia attenuata (Thompson I.C., 1893)			+		I	Ss	
Filexilia brevipes (Kunz, 1954)			Metin et al., 2022		I	Ss	
Filexilia intermedia (Galhano, 1970)			Alper, 2022		I	Ss	
Filexilia marinovi Conroy-Dalton & Huys, 1997		Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Interleptomesochra attenuata (Scott A., 1896)			+		I	Ss	
Leptomesochra eulitoralis Noodt, 1952			Metin et al., 2022		I	Ss	

Table. (Continued.)

Leptomesochra infima Monard, 1928			Yıldız and Karaytuğ, 2018		I	Ss	
Nitocra affinis Gurney, 1927		Kabaca et al., 2022	+		I	Ss	
Nitocra cari Petkovski, 1954		Kabaca et al., 2022	Alper, 2022		I	Ss	
Nitocra hibernica (Brady, 1880)				Yalım et al., 2011	I	Ss	
Nitocra pontica Jakubisiak, 1938			Metin et al., 2022		I	Ss	
Nitocra serdarsaki Yıldız & Karaytuğ, 2024			Yıldız and Karaytuğ, 2024		I	Ss	
Nitocra sewelli Gurney, 1927			Kabaca et al., 2022		I	Ss	
Nitocra sonmezi Yıldız & Karaytuğ, 2024				Yıldız and Karaytuğ, 2024	I	Ss	
Nitocra spinipes Boeck, 1865		+	+		I	Ss	
Nitocra typica Boeck, 1865		Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Parevansula elegans (Marinov, 1974)			+		I	Ss	
Parevansula mediterranea Guille & Soyer, 1966			Metin et al., 2022		I	Ss	
Proameira aff. *psammophila* Wells, 1963			Alper, 2022		I	Ss	
Pseudameira breviseta Klie, 1950			Yıldız and Karaytuğ, 2018		I	Ss	
Pseudoameiropsis suphankaraytugi Sönmez, 2019				Sönmez, 2019	I	Ss	
Pseudoleptomesochrella halophila (Noodt, 1952)	+	Kabaca et al., 2022	Metin et al., 2022		I	Ss	
Pseudoleptomesochrella marina (Chappuis & Rouch,1961)			Yıldız and Karaytuğ, 2018		I	Ss	
Psyllocamptus eridani Ceccherelli, 1988		Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Psyllocamptus minutus Sars G.O., 1911		+	+		I	Ss	
Psyllocamptus propinquus (Scott T., 1895)			Alper et al., 2015		I	Ss	
Psyllocamptus tahuesensis Gómez, 2002			Alper et al., 2015		I	Ss	
Sicameira leptoderma Klie, 1950			Alper, 2022		I	Ss	
Ancorabolidae (Family)							
Bicorniphontodes bicornis (Scott A., 1896)		+			I	Ss	*Laophontodes bicornis* Scott, A., 1896
Arenopontiidae (Family)							
Arenopontia nesaie Cottarelli, 1975		+	Alper et al., 2015		I	Ss	
Arenopontia subterranea Kunz, 1937		+	+		I	Ss	
Neoleptastacus acanthus Chappuis, 1954			+		I	Ss	
Psammoleptastacus barani Sak, Huys & Karaytuğ, 2008	+		Alper et al., 2015		I	Ss	
Canthocamptidae (Family)							
Mesochra aestuarii Gurney 1921	+				I	Ss	
Mesochra pygmaea (Claus, 1863)		+	Alper et al., 2015		I	Ss	
Nannomesochra arupinensis (Brian, 1925)		+	+		I	Ss	
Nannomesochra erythraiensis Alper, Karaytuğ & Sak, 2023			Alper et al., 2023		I	Ss	
Nannomesochra gebekumensis Alper, Karaytuğ & Sak, 2023			Alper et al., 2023		I	Ss	

Table. (Continued.)

Nannomesochra giziri Alper, Karaytuğ & Sak, 2023			Alper et al., 2023		I	Ss	
Taurocletodes tumenae Karaytuğ & Huys, 2004	Karaytuğ and Huys, 2004		Alper et al., 2015		I	Ss	*Parepactophanes tumenae* (Karaytug & Huys, 2004)
Canuellidae (Family)							
Canuella furcigera Sars G.O., 1903			Karaytuğ and Koçak, 2018	+	I	Ss	
Canuella perplexa Scott T. & Scott A., 1893		+	Karaytuğ and Koçak, 2018	Yalım et al., 2011	I	Ss	
Cletodidae (Family)							
Cletodes longicaudatus (Boeck, 1872)			Alper, 2022		I	Ss	
Cletodes spinulipes Por, 1967			+		I	Ss	
Cletodes tenuipes Scott T., 1897	Sergeeva and Dovgal, 2014				III	Ss	
Enhydrosoma longifurcatum Sars G.O., 1909	Sergeeva and Dovgal, 2014		+		I	Ss	
Enhydrosoma propinquum (Brady, 1880)		+			I	Ss	
Enhydrosoma serdarsaki Sonmez, Yildiz & Karaytug, 2019	Sonmez et al., 2019				I	Ss	
Cletopsyllidae (Family)							
Isocletopsyllus tertius (Por, 1964)			Karaytuğ and Koçak, 2018		I	Ss	
Cylindropsyllidae (Family)							
Stenocaris gracilis Sars G.O., 1909			Alper, 2022		I	Ss	
Stenocaris minor (Scott T., 1893)			Alper, 2022		I	Ss	
Dactylopusiidae (Family)							
Dactylopusia micronyx Sars G.O., 1905			+		I	Ss	
Dactylopusia tisboides (Claus, 1863)		+	+		I	Ss	
Diarthrodes aegidaeus (Brian, 1927)			Alper et al., 2015		I	Ss	
Diarthrodes brevipes Wells & Rao, 1987			+		I	Ss	
Diarthrodes ponticus (Krichagin, 1877)			+		I	Ss	*Diarthrodes ponticus ponticus* (Krichagin, 1877)
Diarthrodes pygmaeus (Scott T. & Scott A., 1895)		+			I	Ss	
Paradactylopodia brevicornis (Claus, 1866)		+	+		I	Ss	
Darcythompsoniidae (Family)							
Leptocaris brevicornis (Douwe, 1904)				+	I	Ss	
Leptocaris biscayensis (Noodt, 1955)			Köroğlu et al., 2015	Köroğlu et al., 2015	I	Ss	
Leptocaris emekdasi Koroglu, Kuru & Karaytuğ, 2015			Köroğlu et al., 2015		I	Ss	
Leptocaris igneus Cottarelli & Baldari, 1982			Köroğlu et al., 2015		I	Ss	
Leptocaris insularis (Noodt, 1958)			Metin et al., 2022		I	Ss	
Ectinosomatidae (Family)							
Arenosetella germanica Kunz, 1937			+	+	I	Ss	
Arenosetella lanceorostrata Sönmez, Sak & Karaytuğ, 2016			Alper, 2022	Sönmez et al. 2016	I	Ss	

Table. (Continued.)

Arenosetella tenuissima (Klie, 1929)			+		I	Ss	
Bradyellopsis subniger Brian, 1925		+			I	Ss	
Ectinosoma dentatum Steuer, 1940		+			I	Ss	
Ectinosoma melaniceps Boeck, 1865		+	+	+	I	Ss	
Ectinosoma normani Scott T. & Scott A., 1896		+			I	Ss	
Ectinosoma reductum Bozic, 1955			Alper et al., 2015	+	I	Ss	
Ectinosoma soyeri Apostolov, 1975			+	+	I	Ss	
Glabrotelson bodini (Apostolov, 1974) Huys, 2009			+	+	I	Ss	*Hastigerella bodini* Apostolov, 1974
Glabrotelson bozici (Soyer, 1974) Huys, 2009			Alper, 2022	+	I	Ss	*Hastigerella bozici* Soyer, 1974
Glabrotelson leptoderma (Klie, 1929) Huys, 2009			Alper, 2022		I	Ss	
Glabrotelson psammae (Noodt, 1955) Huys, 2009		+	+		I	Ss	*Hastigerella psammae* (Noodt, 1955)
Halectinosoma herdmani (ScottT., 1896)	Ürkmez et al., 2016		Metin et al., 2022	+	I	Ss	
Microsetella norvegica (Boeck, 1865)		+	+	+	II-III	P	
Microsetella rosea (Dana, 1848)	+	+	+	+	II-III	P	
Noodtiella enertha Lindgren, 1975		Kabaca et al., 2022	Kabaca et al., 2022		I	Ss	
Noodtiella intermedia Wells, 1967			Kabaca et al., 2022		I	Ss	
Noodtiella wellsi Apostolov, 1974		Kabaca et al., 2022			I	Ss	
Pseudobradya beduina Monard, 1935		+			I	Ss	
Pseudobradya pelobates Jakobi, 1954			Yıldız and Karaytuğ, 2018		I	Ss	
Pseudobradya robusta Sars G.O., 1910			Yıldız and Karaytuğ, 2018		I	Ss	
Sigmatidium aff. *kunzi* Mielke, 1979			Alper, 2022		I	Ss	
Harpacticidae (Family)							
Harpacticus compsonyx Monard,1926		Kabaca et al., 2022	+		I	Ss	
Harpacticus flexus Brady & Robertson, 1873		+			I	Ss	
Harpacticus gracilis Claus, 1863		+	+		I	Ss	
Harpacticus littoralis Sars G.O., 1910		+	+		I	Ss	
Harpacticus aff. *obscurus* Scott T., 1895			Alper et al., 2015		I	Ss	
Harpacticus pacificus Lang, 1965			Alper et al., 2015		I	Ss	
Harpacticus pulex Humes, 1964			Yıldız and Karaytuğ, 2018		I	Ss	
Harpacticus aff. *tenellus* Sars G.O., 1920			Alper et al., 2015		I	Ss	
Idyanthidae (Family)							
Idyella tenuis (Brady, 1910)			+		I	Ss	
Laophontidae (Family)							
Afrolaophonte pori Masry, 1970			+	Sönmez et al., 2018	I	Ss	
Asellopsis hispida Brady & Robertson, 1873		+			I	Ss	
Asellopsis intermedia (Scott T., 1895)			Kabaca et al., 2022		I	Ss	

Table. (Continued.)

Asellopsis sarmatica Jakubisiak, 1938	+				I	Ss	
Echinolaophonte armiger (Gurney, 1927)			Yıldız and Karaytuğ, 2018		I	Ss	
Echinolaophonte hystrix (Brian, 1928)			Alper et al., 2015		I	Ss	
Esola longicauda Edwards, 1891		+			I	Ss	
Heterolaophonte brevipes Roe, 1958		Kabaca et al., 2022			I	Ss	
Heterolaophonte curvata (Douwe, 1929)	+			Kaymak Bozkurt and Karaytuğ 2014	I	Ss	
Heterolaophonte stroemii stroemii (Baird, 1837)			+		I	Ss	
Heterolaophonte stroemii paraminuta Noodt, 1955		+			I	Ss	
Heterolaophonte uncinata (Czerniavski, 1868)	+		+		I	Ss	
Klieonychocamptus kliei kliei (Monard, 1935)		+	+		I	Ss	
Klieonychocamptus kliei adriaticus (Petkovski, 1954)	+	Kabaca et al., 2022	+		I	Ss	
Klieonychocamptus kliei confluens Noodt, 1958			Kabaca et al., 2022		I	Ss	
Klieonychocamptus ponticus (Serban & Plesa, 1957)	+	Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Laophonte cornuta Philippi, 1840			+		I	Ss	
Laophonte elongata barbata Lang, 1934			Metin et al., 2022		I	Ss	
Laophonte inornata Scott A., 1902		+	+		I	Ss	
Laophonte lignosa Hicks, 1988			Alper et al., 2015		I	Ss	
Laophonte plana Fiers, 1986			Alper et al., 2015		I	Ss	
Laophonte setosa Boeck, 1865	+	+			I	Ss	
Laophonte triarticulata Monard, 1928	+				I	Ss	*Laophonte elongata triarticulata* Monard, 1928
Lipomelum adriaticum (Petkovski, 1955)			Alper et al., 2015		I	Ss	
Paralaophonte (*Loureirophonte*) *cesareae* (Por, 1964)			+		I	Ss	*Loureirophonte cesareae* (Por, 1964)
Paralaophonte (*Paralaophonte*) *asellopsiformis* Lang, 1965			Metin et al., 2022		I	Ss	
Paralaophonte (*Paralaophonte*) *brevirostris* (Claus, 1863)	+	+	+		I	Ss	
Paralaophonte (*Paralaophonte*) *quaterspinata* (Brian, 1917)			+		I	Ss	
Pseudechinolaophonte mordoganensis (Kuru, Sönmez & Karaytuğ, 2019)			Kuru et al., 2019		I	Ss	
Latiremidae (Family)							
Delamarella obscura Huys, Karaytuğ & Cottarelli, 2005	+	Kabaca et al., 2022	+		I	Ss	
Leptastacidae (Family)							
Ciplakastacus mersinensis Sak, Karaytuğ & Huys, 2008			Kabaca et al., 2022	+	I	Ss	
Leptastacus laticaudatus Nicholls, 1935	Kabaca, 2024				I	Ss	

Table. (Continued.)

Leptastacus uncinatus Cottarelli & Venanzetti, 1989			Alper, 2022		I	Ss	
Minervella aff. *baccettii* Cottarelli & Venanzetti, 1989			Alper, 2022		I	Ss	
Paraleptastacus holsaticus Kunz, 1937			Metin et al., 2022		I	Ss	
Paraleptastacus kliei (Gagern, 1923)			+		I	Ss	
Psammastacus confluens (Nicholls, 1935)		Kabaca et al., 2022	Alper, 2022		I	Ss	
Schizothrix pontica (Griga, 1963)			Alper, 2022		I	Ss	
Stereoxiphos operculatus (Masry, 1970)			Kabaca et al., 2022		I	Ss	
Leptopontiidae (Family)							
Psammopsyllus ertunci Karaytuğ & Sak, 2005	+				I	Ss	
Psammopsyllus operculatus Nicholls, 1945		+			I	Ss	
Longipediidae (Family)							
Longipedia coronata Claus, 1863			Metin et al., 2022		I	Ss	
Longipedia helgolandica Klie, 1949			Karaytuğ and Koçak, 2018		I	Ss	
Longipedia minor Scott T & Scott A., 1893			+		I	Ss	
Longipedia scotti Sars G.O., 1903			Karaytuğ and Koçak, 2018		I	Ss	
Longipedia weberi Scott A., 1909		+	+		I	Ss	
Louriniidae (Family)							
Lourinia armata (Claus, 1866)			+		I	Ss	
Lourinia gocmeni Karaytuğ, Sak, Alper & Sönmez, 2021			Karaytuğ et al., 2021		I	Ss	
Lourinia wellsi Karaytuğ, Sak, Alper & Sönmez, 2021			Karaytuğ et al., 2021		I	Ss	
Metidae (Family)							
Metis ignea Philippi, 1843		Kabaca et al., 2022	+		I	Ss	
Miraciidae (Family)							
Distioculus minor (Scott T, 1894)			+		I-III	P	
Macrosetella gracilis (Dana, 1848)		+	+	+	I-III	P	
Oculosetella gracilis (Dana, 1852)				+	I-III	P	
Amonardia perturbata Lang, 1965			+		I	Ss	
Amonardia phyllopus (Sars G.O., 1906)			+	+	I	Ss	
Amphiascoides brevifurca (Czerniavsky, 1868)	+	+	Metin et al., 2022		I	Ss	
Amphiascoides subdebilis (Willey, 1935)	Sergeeva and Dovgal, 2014	+			I	Ss	
Amphiascopsis cinctus (Claus, 1866)		+	+	+	I	Ss	
Bulbamphiascus imus (Brady, 1872)		+	Metin et al., 2022	+	I	Ss	
Delavalia normani Scott T., 1905		+			I	Ss	
Delavalia oblonga (Lang, 1965)	+		+		I	Ss	
Diosaccus tenuicornis (Claus, 1863)			Alper et al., 2015	+	I	Ss	
Diosaccus varicolor pentasetosus (Noodt, 1955)		+			I	Ss	
Eoschizopera (*Praeoschizopera*) *gligici* (Petkovski, 1957)	+	Kabaca et al., 2022	+	+	I	Ss	

Table. (Continued.)

Haloschizopera marmarae Noodt, 1955		+	Karaytuğ and Koçak, 2018	+	I	Ss	
Haloschizopera pontarchis Por, 1959	Sergeeva and Dovgal, 2014				III	Ss	
Metamphiascopsis hirsutus bermudae (Willey, 1930)			Alper et al., 2015	+	I	Ss	
Paramphiascella bulbifer Guille & Soyer, 1966			Karaytuğ and Koçak, 2018		I	Ss	
Paramphiascella mediterranea Lang, 1948			+		I	Ss	
Paramphiascella robinsonii (Scott A., 1902)			+	+	I	Ss	
Paramphiascella vararensis (Scott T., 1903)		+			I	Ss	
Psammotopa vulgaris Pennak, 1942		Kabaca et al., 2022	+	+	I	Ss	
Pseudamphiascopsis attenuatus (Sars G.O., 1906)		Kabaca et al., 2022	+		I	Ss	
Pseudamphiascopsis attenuatus orientalis Noodt, 1955		+	Alper, 2022		I	Ss	
Robertgurneya oligochaeta (Noodt, 1955)	Ürkmez et al., 2016	+			I	Ss	
Robertgurneya remanei (Klie, 1950)			Karaytuğ and Koçak, 2018		I	Ss	
Robertgurneya rostrata (Gurney, 1927)		+			I	Ss	
Robertgurneya similis (Scott A., 1896)		+			I	Ss	
Robertgurneya smithi (Hamond, 1973)			+	+	I	Ss	
Robertsonia knoxi (Thompson I.C. & Scott A., 1903)		+	+	+	I	Ss	
Robertsonia monardi (Klie, 1937)		+			I	Ss	
Robertsonia normani (Brady, 1910)		+	+		I	Ss	*Amonardia normani* (Brady, 1872)
Sarsamphiascus angustipes (Gurney, 1927)		+	+	+	I	Ss	
Sarsamphiascus kawamurai (Ueda & Nagai, 2005)			+	+	I	Ss	
Sarsamphiascus minutus (Claus, 1863)		+	+	+	I	Ss	*Amphiascus minutus* (Claus, 1863)
Sarsamphiascus parvus (Sars G.O, 1906)		+			I	Ss	
Sarsamphiascus tenuiremis (Brady & Robertson, 1876)			Karaytuğ and Koçak, 2018		I	Ss	
Sarsamphiascus varians (Norman & Scott T., 1905)		+			I	Ss	
Schizopera brusinae Petkovski, 1954	+		+	+	I	Ss	
Schizopera karanovici Sönmez, Sak & Karaytuğ, 2015			Kabaca et al., 2022	Sönmez et al., 2015a	I	Ss	
Schizopera minuta Noodt, 1955		Kabaca et al., 2022	Kabaca et al., 2022		I	Ss	
Schizopera pontica Chappuis & Serban, 1953			Metin et al., 2022		I	Ss	
Schizopera pratensis Noodt, 1958			+		I	Ss	
Stenhelia (Delavalia) reflexa (Brady & Robertson, 1876)	Bacescu and Margineanu, 1959				I	Ss	
Typhlamphiascus confusus (Scott T., 1902)			Karaytuğ and Koçak, 2018		I	Ss	

Table. (Continued.)

Normanellidae (Family)							
Normanella mucronata reducta Noodt, 1955		+			I	Ss	
Orthopsyllidae (Family)							
Orthopsyllus linearis (Claus, 1866)		+	+		I	Ss	
Orthopsyllus sarsi Klie, 1941			Yıldız and Karaytuğ, 2018		I	Ss	
Paramesochridae (Family)							
Apodopsyllus arenicolus (Chappuis, 1954)		Kabaca et al., 2022	Metin et al., 2022		I	Ss	
Apodopsyllus perplexus (Wells, 1963)		+			I	Ss	*Apodopsyllus reductus* (Petkovski, 1955)
Diarthrodella ergeneae Sönmez, Karaytuğ & Sak, 2015			Metin et al., 2022	Sönmez et al., 2015b	I	Ss	
Diarthrodella orbiculata Klie, 1949			Alper, 2022		I	Ss	
Diarthrodella secunda Kunz, 1954			Alper, 2022		I	Ss	
Emertonia constricta (Nicholls, 1935)		+	Alper et al., 2015		I	Ss	
Emertonia constricta orotavae (Noodt, 1958)		Kabaca et al., 2022	Kabaca et al., 2022		I	Ss	
Emertonia masryi (Bodin, 1979)			Metin et al., 2022		I	Ss	
Kliopsyllus constrictus (Nicholls, 1935)		+	+		I	Ss	
Kliopsyllus holsaticus (Klie, 1929)		+	+		I	Ss	
Leptopsyllus punctatus Mielke, 1984		Kabaca et al., 2022	+		I	Ss	
Paramesochra helgolandica Kunz, 1936			Alper et al., 2015		I	Ss	
Wellsopsyllus (*Scottopsyllus*) *robertsoni* (Scott T. & Scott A., 1895)		+	+		I	Ss	
Parastenheliidae (Family)							
Karaytugia aydini (Kuru & Karaytuğ, 2015)				Kuru and Karaytuğ, 2015	I	Ss	
Parastenhelia hornelli Thompson I.C. & Scott A., 1903		+	+		I	Ss	
Parastenhelia spinosa (Fischer, 1860)		Kabaca et al., 2022	+		I	Ss	
Penicillicaris pectinimana (Car, 1884)	Kuru and Karaytuğ, 2022		Kuru and Karaytuğ, 2022	Kuru and Karaytuğ, 2022	I	Ss	
Thalestrella ornatissima Monard, 1935			Alper, 2022		I	Ss	*Karllangia ornatissima* (Monard, 1935)
Peltidiidae (Family)							
Alteutha depressa (Baird, 1837)			Alper et al., 2015		I	Ss	
Clytemnestra scutellata Dana, 1848			+	+	I-III	P	
Goniopsyllus clausi Huys & Conroy-Dalton, 2000			İşinibilir et al., 2022	İşinibilir et al., 2022	I-III	P	
Goniopsyllus rostratus Brady, 1883		+	+	+	II-III	P	*Clytemnestra rostrata* (Brady, 1883)

Table. (Continued.)

Porcellidiidae (Family)							
Porcellidium fimbriatum Claus, 1863		Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Pseudotachidiidae (Family)							
Dactylopodella flava (Claus, 1866)		+			I	Ss	
Rhizotrichidae (Family)							
Tryphoema gallipoliensis Alper, Sak & Metin, 2018			Alper et al., 2018		I	Ss	
Tachidiidae (Family)							
Euterpina acutifrons (Dana, 1848)	Deniz and Gönlüol, 2014	+	+	+	I-II	P	
Tegastidae (Family)							
Tegastes satyrus (Claus, 1860)			+		I	Ss	
Tetragonicipitidae (Family)							
Odaginiceps korykosensis Karaytuğ, Sak & Alper, 2010				+	I	Ss	
Phyllopodopsyllus berrieri Monard, 1936		Kabaca et al., 2022			I	Ss	
Phyllopodopsyllus bradyi (Scott T., 1892)			Alper et al., 2015		I	Ss	
Phyllopodopsyllus briani Petkovski, 1955		+	+		I	Ss	
Phyllopodopsyllus gracilipes Wells & Rao, 1987			Alper et al., 2015		I	Ss	
Phyllopodopsyllus pauli Crisafi, 1960			+		I	Ss	
Phyllopodopsyllus thiebaudi Petkovski, 1955		+			I	Ss	
Pteropsyllus plebeius furcatus Kunz, 1938			Kabaca et al., 2022		I	Ss	
Thalestridae (Family)							
Eudactylopus latipes (Scott T., 1893)		+			I	Ss	
Eudactylopus robustus (Claus, 1863)		Alper et al., 2015			I	Ss	
Eudactylopus spectabilis (Brian, 1923)			+		I	Ss	
Parathalestris harpactoides (Claus, 1863)		+			I	Ss	
Phyllothalestris mysis (Claus, 1863)			+		I	Ss	
Tisbidae (Family)							
Paraidya occulta Humes and Ho, 1969			+		I	Ss	
Scutellidium arthuri Poppe, 1884			+		I	Ss	*Scottopsyllus robertsoni* (Scott T. & Scott A., 1895)
Scutellidium ligusticum (Brian, 1920)		Kabaca et al., 2022	Alper et al., 2015		I	Ss	
Scutellidium longicaudum (Philippi, 1840)		Kabaca et al., 2022	+		I	Ss	
Scutellidium longicaudum acheloides Itô Tat, 1976			Alper et al., 2015		I	Ss	
Tisbe angusta (Sars G.O., 1905)			+		I	Ss	
Tisbe furcata (Baird, 1837)		+	+		I	Ss	
Tisbe perplexa Volkmann, 1979			+		I	Ss	
OSTRACODA (Class)							
HALOCYPRIDA (Order)							
Archiconchoecia striata G.W. Müller, 1894			+		I-III	P	

Table. (Continued.)

Archypolycope demulderi (Sissingh, 1972)			+		I-III	Ss	fossil, *Polycope demulderi* Sissingh, 1972
Eupolycope frequens (Müller, 1894) Chavtur, 1981	+		+		III	Ss	*Polycope frequens* Müller, 1894
Mikroconchoecia curta (Lubbock, 1860)			+	+	I-III	P	
Polycope orbicularis Sars, 1866			Perçin-Paçal et al., 2015		I-II	Ss	
Polycope orbulinaeformis Breman, 1976			Perçin-Paçal et al., 2015	+	III-VII	Ss	
Polycope parareticulata Bonaduce, Ciampo & Masoli, 1976			Özuluğ et al., 2018		I-III	Ss	
Polycope reticulata G.W. Müller, 1894		+	+	+	II-VII	Ss	
Polycope tholiformis Bonaduce, Ciampo & Masoli, 1976			Perçin-Paçal et al., 2015	+	IV-VII	Ss	
Polycope vasfiensis Sissingh, 1972			+		I-III	Ss	fossil
Porroecia porrecta (Claus, 1890)			+		I-III	P	
MYODOCOPIDA (Order)							
Skogsbergia megalops (Sars, 1872)				Mutlu, 2015	I-II	Hs	
PODOCOPIDA (Order)							
Acanthocythereis ascolii (Puri, 1963)	+	+	Özuluğ et al., 2018		I-II	Ss	fossil
Actinocythereis dunelmensis (Norman, 1865)		+	+		I	Ss	*Cythereis dunelmensis* Norman, 1865
Argilloecia acuminata G.W. Müller, 1894	+	Özuluğ et al., 2018	Perçin-Paçal et al., 2015	+	II-VII	Ss	*Robustoargilloecia acuminata* (Müller, 1894)
Argilloecia conoidea G.O. Sars, 1923		+	Perçin-Paçal et al., 2015	+	I-II	Ss	
Argilloecia minor (G.W. Müller, 1894)	+	+			I-II	Ss	
Argilloecia robusta Bonaduce, Ciampo & Masoli, 1976		+			II	Ss	
Aurila amygdala (Stephenson, 1944)		+			I	Ss	
Aurila convexa (Baird, 1850)	+	+	+	+	II-V	Ss	
Aurila ducasseae (Moyes, 1961)				Perçin-Paçal et al., 2015	I	Ss	fossil
Aurila maculosa Uliczny, 1969				Özuluğ et al., 2018	I	Ss	fossil
Aurila oblonga (Moyes, 1965)			Özuluğ et al., 2018		I	Ss	fossil
Aurila prasina Barbieto-Gonzalez, 1971	Özuluğ et al., 2018	+	+		I-II	Ss	
Aurila speyeri (Brady, 1868)	Perçin-Paçal et al., 2015	+	+	+	I-II	Ss	*Cythere speyer*i Brady, 1880
Aurila vena (Seguenza 1883)			Perçin-Paçal et al., 2015		II-VI	Ss	
Aurila veniliae Uliczny, 1969		Özuluğ et al., 2018			VI-VII	Ss	
Aurila venus (Sequenza, 1883)			Özuluğ et al., 2018		?	Ss	
Aurila woodwardii (Brady, 1868)		+	Perçin-Paçal et al., 2015	+	I-II	Ss	

Table. (Continued.)

Bairdia (*Neonesidea*) *conformis* (Terquem, 1878), Bonaduce, Ciampo & Masoli, 1976			+	+	II-VII	Ss	
Bairdia serrata G.W. Müller, 1894			+		I-II	Ss	
Bairdoppilata supradentata (Terquem, 1878)		+	+		II-VI	Ss	fossil, *Bairdia supradentata* Terquem, 1878
Basslerites berchoni (Brady, 1869)	+	+	+	+	I-III	Ss	
Basslerites teres (Brady, 1869)				+	I	Ss	
Bathycythere vanstraateni Sissingh, 1971				+	VII	Ss	
Bosquetina carinella (Reuss, 1850) Ruggieri, 1962		+	+	+	II-III	Ss	fossil
Bosquetina dentata (G.W. Müller, 1894)		+	+		II-V	Ss	
Bosquetina rhodiensis Sissingh, 1972			Perçin-Paçal et al., 2015	+	II-VI	Ss	fossil
Bosquetina tarentina (Baird, 1850)			Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	II-V	Ss	
Buntonia dertonensis (Ruggieri, 1954) Ciampo, 1972			Perçin-Paçal et al., 2015	+	II-VII	Ss	fossil
Buntonia giesbrechti (G.W. Müller, 1894)		+	+		II-III	Ss	
Buntonia sublatissima (Neviani, 1906)		+	+	+	II-VII	Ss	fossil
*Buntonia sublatissima dertonensis*Ruggieri, 1954			Özuluğ et al., 2018		I-III	Ss	
Buntonia subulata Ruggieri, 1954		+	Perçin-Paçal et al., 2015		I-II	Ss	
Buntonia textilis Bonaduce, Ciampo & Masoli, 1976			+	+	VI	Ss	
Bythocypris bosquetiana (Brady, 1866) Brady & Norman, 1889			Perçin-Paçal et al., 2015	+	II-VII	Ss	*Bairdia bosquetiana* Brady, 1866
Bythocypris obtusata (Sars, 1866)		Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	+	VI	Ss	*Bairdia obtusata* Sars, 1866
Bythocythere minima Bonaduce, Ciampo & Masoli, 1976	+	+	+		II-VI	Ss	
Bythocythere turgida G.O. Sars, 1866	+	+	+		I-III	Ss	
Callistocythere (*Rastrocythere*) *rastrifera* (Ruggieri, 1953) Ruggieri, 1992		+	Özuluğ et al., 2018		I	Ss	*Leptocythere rastrifera* (Ruggieri, 1953)
Callistocythere adriatica Masoli, 1968	+	+	+		IV	Ss	
Callistocythere crispata (Brady, 1868)	+	+	+	+	I-II	Ss	*Cythere crispata* Brady, 1868
Callistocythere elena Barbeito-Gonzalez, 1971		Perçin-Paçal et al., 2015			II-VI	Ss	
Callistocythere flavidofusca (Ruggieri, 1950) Kurc, 1961	Özuluğ et al., 2018				II	Ss	
Callistocythere intricatoides Ruggieri, 1953		+	+		II-VI	Ss	
Callistocythere littoralis (G.W. Müller, 1894)	+	+	+	+	I-II	Ss	
Callistocythere lobiancoi (G.W. Müller, 1894)		+	Özuluğ et al., 2018		II-III	Ss	
Callistocythere montana Doruk, 1980	+	+	+		II	Ss	fossil
Callistocythere pallida (G.W. Müller, 1894)	+	+	+	+	I-II	Ss	
Callistocythere vexata Bonaduce, Ciampo & Masoli, 1976		+		+	I-VI	Ss	

Table. (Continued.)

Carinocythereis antiquata (Baird, 1850)	Bacescu and Margineanu, 1959	+	+	+	I-III	Ss	*Cythereis antiquata* Baird, 1850
Carinocythereis carinata (Roemer, 1838)	+	+	+	+	I-V	Ss	
Carinocythereis meulenkampi Sissingh 1972		+	Perçin-Paçal et al., 2015		I-III	Ss	fossil
Carinocythereis rhombica Stambolidis, 1982		+	+		I-II	Ss	
Caudites calceolatus (O. G. Costa, 1853)			+		I	Ss	fossil
Celtia quadridentata (Baird, 1850)		+	+	+	I	Ss	*Carinocythereis quadridentata* (Baird, 1850);*Cythere quadridentata* Baird, 1850; *Falunia quadridentata* (Baird, 1850)
Cistacythereis caelatura Uliczny, 1969				+	I	Ss	fossil
Cistacythereis pokornyi (Ruggieri, 1962)				+	I	Ss	
Costa batei (Brady, 1866)		+	+	+	I-II	Ss	
Costa edwardsii (Roemer, 1838)	+	+	+	+	II-V	Ss	fossil
Costa tricostata (Reuss, 1850)	+	+	+		II-V	Ss	fossil
Cuneocythere semipunctata (Brady, 1868)		+			II	Ss	
Cushmanide turbida (Müller, 1894)	+	+	Perçin-Paçal et al., 2015	+	II-V	Ss	*Pontocythere turbida* (G. W. Müller, 1894)
Cushmanidea elongata (Brady, 1868) Puri, 1958	+	+	+	+	I-II	Ss	*Pontocythere elongata* (Brady, 1868) Oertli, 1956
Cyprideis (*Heterocyprideis) sorbyana* (Jones, 1856)		+			I-V	Ss	fossil
Cyprideis anatolica Bassiouni 1979			Perçin-Paçal et al., 2015		I	Ss	
Cyprideis pannonica (Mehes, 1908)			Perçin-Paçal et al., 2015		I	Ss	
Cyprideis seminulum (Reuss, 1850)				Özuluğ et al., 2018	I	Ss	
Cyprideis sohni Bassiouni, 1979		Özuluğ et al., 2018			I-II	Ss	
Cyprideis torosa (Jones, 1850)	+	+	+	+	I-V	Ss	
Cypridopsis vidua (Mueller, 1776)	Perçin-Paçal et al., 2015		Özuluğ et al., 2018		I-III	Ss	*Cypridopsis parva* G.W. Müller, 1900
Cythere crenulosa Terquem, 1878		Özuluğ et al., 2018	+		II	Ss	*Urocythereis crenulosa* (Terquem, 1878) Wouters, 1974
Cythereis polygonata (Rome, 1942) Barbeito-Gonzalez, 1971			+		I-II	Ss	
Cytherella abyssorum G.O. Sars, 1866			+		I	Ss	
Cytherella alvearium Bonaduce, Ciampo & Masoli, 1976		+	+	+	I-II	Ss	
Cytherella circumpunctata Ciampo, 1976		Perçin-Paçal et al., 2015			II-III	Ss	fossil
Cytherella lata Brady, 1880		+			I-II	Ss	
Cytherella maremensis Artüz, Gülen & Kubanç, 2013		+			III	Ss	
Cytherella scutulum Ruggieri, 1976			Perçin-Paçal et al., 2015		II-III	Ss	fossil

Table. (Continued.)

Cytherella terquemi Sissingh, 1972			Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	II-III	Ss	fossil
Cytherella vandenboldi Sissingh, 1972		+	+	+	II-V	Ss	
Cytherella vulgata Ruggieri, 1962		+	+	+	II-VI	Ss	
Cytherelloidea beckmanni Barbeito-Gonzalez, 1971			Parlak and Nazik, 2016	+	II	Ss	
Cytherelloidea sordida (G.W. Müller, 1894)			+	+	II	Ss	
Cytheretta adriatica Ruggieri, 1952		+	+	+	III	Ss	
Cytheretta judaea (Brady, 1868)			+		I-III	Ss	
Cytheretta jurinii (Muenster, 1830)		Perçin-Paçal et al., 2015			V-VI	Ss	
Cytheretta semiornata Egger, 1858				+	I-II	Ss	
Cytheretta subradiosa (Roemer, 1836) Ruggieri, 1950		+	+	+	II-IV	Ss	fossil, *Cytherina subradiosa* Roemer, 1838
Cytheridea acuminata (Bosquet, 1952)	+	Perçin-Paçal et al., 2015	+	+	II-V	Ss	
Cytheridea neapolitana Kollman, 1960		+	+	+	II-V	Ss	
Cytheridea papillosa Bosquet, 1852		Perçin-Paçal et al., 2015			I-II	Ss	fossil
Cytheridea paracuminata Kolmann, 1960				+	I-II	Ss	fossil
Cytherois fischeri (G.O. Sars, 1866)			Perçin-Paçal et al., 2015	+	I-II	Ss	
Cytherois frequens G.W. Müller, 1894		+	Perçin-Paçal et al., 2015		II-VI	Ss	
Cytheroma karadagiensis Dubowsky, 1939	Özuluğ et al., 2018	+			I	Ss	
Cytheroma marinovi Schornikov, 1969	Perçin-Paçal et al., 2015				I-II	Ss	
Cytheroma variabilis G.W. Müller, 1894	+	+			I-III	Ss	
Cytheropteron alatum G.O. Sars, 1866		+	+		II-VI	Ss	
Cytheropteron latissimum (Norman, 1865)	Perçin-Paçal et al., 2015		Perçin-Paçal et al., 2015		II-V	Ss	
Cytheropteron latum G.W. Müller, 1894		+	+		II	Ss	
Cytheropteron monoceros Bonaduce, Ciampo & Masoli, 1976			Perçin-Paçal et al., 2015		II-V	Ss	
Cytheropteron pseudoalatum Colalongo & Pasini, 1980				+	VI	Ss	fossil
Cytheropteron punctatum Brady, 1868		+	+		II	Ss	
Cytheropteron rotundatum G.W. Müller, 1894		+	Perçin-Paçal et al., 2015	+	II-VI	Ss	
Cytheropteron vespertilio (Reuss, 1850)		+			II-V	Ss	fossil
Darwinula cylindrica (Straub, 1952) Tatlı Su		Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015		I-III	Ss	
Dopseucythere mediterranea (Bonaduce, Masoli, Pugliese & McKenzie, 1980)			Perçin-Paçal et al., 2015	+	II-VI	Ss	*Pseudocythere caudata mediterranea* Bonaduce, Masoli, Pugliese & McKenzie, 1980
Echinocythereis keyseri Stambolidis, 1982			Özuluğ et al., 2018		I-II	Ss	

Table. (Continued.)

Echinocythereis laticarina (Brady, 1868)		+	+		I	Ss	
Ekpontocypris (*Propontacypris*) *pirifera* (Müller, 1894)		+	+	+	II-V	Ss	*Propontocypris pirifera* (Müller, 1894) Reys, 1961
Eucythere declivis (Norman, 1865)	Perçin-Paçal et al., 2015				I-II	Ss	*Eucythere* (*Eucythere*) *declivis* (Norman, 1865) Brady, 1868
Eucythere prava Brady & Robertson, 1869	Perçin-Paçal et al., 2015				I-II	Ss	
Eucytherura complexa (Brady, 1867)			Perçin-Paçal et al., 2015		I-III	Ss	
Eucytherura gibbera Müller, 1894			Perçin-Paçal et al., 2015		I-III	Ss	
Eucytherura mistrettai Sissingh, 1972			+		II	Ss	fossil
Euphilomedes interpuncta (Baird, 1850)	Bacescu and Margineanu, 1959				I-II	Ss	
Euxinocythere bacuana Livental, 1938	Özuluğ et al., 2018				I-II	Ss	
Euxinocythere lopatici (Schornikov, 1964)	Özuluğ et al., 2018				I-II	Ss	
Falunia plicatula (Reuss, 1850)	+	+	Perçin-Paçal et al., 2015		VI-VII	Ss	fossil
Hansacypris (*Aglaiocypris*) *rara* (G.W. Müller, 1894)		+	Perçin-Paçal et al., 2015		I	Ss	*Aglaiocypris rara* (G.W. Müller, 1894)
Hemicythere (*Aurila*) *arborescens* (Brady, 1865) Robinson, 1978		Perçin-Paçal et al., 2015	Parlak and Nazik, 2016	Parlak and Nazik, 2016	I	Ss	*Aurila arborescens* (Brady, 1865)
Hemicythere margaritifera (Müller, 1894) Puri, 1953		+	+	+	I-II	Ss	*Urocythereis margaritifera* (Müller, 1894)
Hemicytherura bulgarica Klie, 1937	+	+	+		I-II	Ss	*Eucytherura bulgarica* Klie, 1937
Hemicytherura cellulosa (Norman, 1865)		+			I-II	Ss	*Cythere cellulosa* Norman, 1865
Hemicytherura videns (G.W. Müller, 1894)		+			I-II	Ss	
Henryhowella asperrima (Reuss, 1850) Bold, 1960		Özuluğ et al., 2018			I	Ss	fossil
Henryhowella sarsi (G.W. Müller, 1894)		+	+	+	II-VI	Ss	
Heterocyprideis sorbyana (Jones, 1857)		+			I	Ss	*Cyprideis sorbyana* (Jones, 1857)
Heterocypris incongruens(Ramdohr, 1808)	Perçin-Paçal et al., 2015				I	Ss	
Heterocypris salina (Brady, 1868)	Perçin-Paçal et al., 2015	+	Parlak and Nazik, 2016		I	Ss	*Cyprinotus salinus* (Brady, 1868)
Heterocythereis albomaculata (Baird, 1838)	+	+	Perçin-Paçal et al., 2015	+	I-II	Ss	*Cythereis albomaculata* (Baird, 1838)
Hiltermannicythere (*Cythereis*) *rubra pontica* (Dubowsky, 1939)	+				I-III	Ss	*Cythereis rubra pontica* Dubowsky, 1939
Hiltermannicythere emaciata (Brady, 1867)	+	+		+	I	Ss	

Table. (Continued.)

Hiltermannicythere rubra (G.W. Müller, 1894)	+	+	+	+	I-III	Ss	*Carinocythereis rubra* (Müller, 1894); *Cythereis rubra G.*W. Müller, 1894; *Falunia rubra* (G. W. Müller,1894)
Hiltermannicythere turbida (G.W. Müller, 1894)		+	+	Parlak and Nazik, 2016	II-V	Ss	*Carinocythereis turbida* (Müller, 1894)
Hirschmannia viridis (O.F. Müller, 1785)				+	I-II	Ss	
Ilyocypris gibba (Ramdohr, 1808) Tatlı Su		Perçin-Paçal et al., 2015			I	Ss	
Ilyocypris inermis Kaufmann, 1900 Tatlı Su	Perçin-Paçal et al., 2015				I	Ss	
Jugosocythereis prava (Baird, 1850)		+	+	+	II-VII	Ss	*Quadracythere prava* (Baird, 1850) Ruggieri, 1959; *Cythereis prava* Baird, 1850
Krithe bartonensis (Jones, 1857)				+	I-II	Ss	fossil
Krithe keyi Breman, 1978				Perçin-Paçal et al., 2015	V	Ss	
Krithe monosteracensis Sequenza, 1888				+	V	Ss	
Krithe praetexta (Sars, 1866)			Perçin-Paçal et al., 2015		I-III	Ss	
Krithe reniformis (Brady, 1868)		+		+	I	Ss	
Krithe similis (G.W. Müller, 1894)		+			I	Ss	
Leptocythere (*Amnicythere*) *pirsagatica* (Livental, 1949)	+				I-II	Ss	
Leptocythere (*Amnicythere*) *quinquetuberculata* (Schweyer, 1949)	+		+		I-II	Ss	
Leptocythere (*Callistocythere*) *diffusa* (G.W. Müller, 1894)	+	+			II	Ss	*Callistocythere diffusa* (Müller, 1894)
Leptocythere bacescoi (Rome, 1942)			Perçin-Paçal et al., 2015		I-V	Ss	
Leptocythere bisulcata Stancheva, 1964		Perçin-Paçal et al., 2015			I-V	Ss	
Leptocythere bituberculata Bonaduce, Ciampo &Masoli, 1976			+		I-VI	Ss	fossil
Leptocythere castanea (Sars, 1866)		Perçin-Paçal et al., 2015	Özuluğ et al., 2018		I-V	Ss	
Leptocythere devexa Schornikov, 1966	Özuluğ et al., 2018				I-V	Ss	
Leptocythere histriana Caraoin, 1964		+	+		I-II	Ss	
Leptocythere lacertosa (Hirschmann, 1912)	+	+	+	+	I-V	Ss	
Leptocythere lagunae Hartmann, 1958	+	Perçin-Paçal et al., 2015			I-II	Ss	
Leptocythere levis (Müller, 1894)		Perçin-Paçal et al., 2015			I-	Ss	
Leptocythere macella Ruggieri, 1975	+	+		+	I-II	Ss	

Table. (Continued.)

Leptocythere multipunctata (Seguenza, 1883)	+	+	Perçin-Paçal et al., 2015	+	I-II	Ss	
Leptocythere pellucida (Baird, 1850)	+	+	+		I	Ss	
Leptocythere porcellanea (Brady, 1869)	+			+	I-II	Ss	
Leptocythere psammophila Guillaume, 1976		+	+		I-III	Ss	
Leptocythere ramosa (Rome, 1942)	+		Perçin-Paçal et al., 2015	+	II-V	Ss	
Leptocythere rara (G.W. Müller, 1894)	+	Perçin-Paçal et al., 2015		+	I-II	Ss	
Limnocythere inopinata (Baird, 1843)	+				I	Ss	
Loculicytheretta pavonia (Brady, 1866)			Perçin-Paçal et al., 2015	+	I-II	Ss	
Loxocauda pellucida (Müller, 1894)		+	Perçin-Paçal et al., 2015		I-III	Ss	*Loxoconcha pellucida* Müller, 1894
Loxoconcha affinis (Brady, 1866)			+		I-II	Ss	
Loxoconcha agilis Ruggieri, 1967	+	+	+	+	II-V	Ss	fossil
Loxoconcha alata Brady, 1868		+	Perçin-Paçal et al., 2015	+	II-IV	Ss	
Loxoconcha bairdi (G.W. Müller, 1894)		+	+	+	I	Ss	
Loxoconcha bulgarica Caraion, 1961		+			I	Ss	
Loxoconcha concentrica Bonaduce, Ciampo & Masoli, 1976				+	I	Ss	
Loxoconcha elliptica Brady, 1868			+	+	I	Ss	
Loxoconcha exagona Bonaduce, Ciampo & Masoli, 1976		+	+	+	I	Ss	
Loxoconcha gibberosa Terquem, 1878		+	+		II-III	Ss	
Loxoconcha gibboides Livental, 1949	+	Perçin-Paçal et al., 2015			II-III	Ss	
Loxoconcha impressa (Baird, 1850)			+		I	Ss	
Loxoconcha lepida Stepanaitys, 1962	Perçin-Paçal et al., 2015				I-III	Ss	
Loxoconcha littoralis G.W. Müller 1894	+	+			I-II	Ss	
Loxoconcha mediterranea (Seguenza, 1884)		Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015		I-II	Ss	
Loxoconcha micra Barbeito-Gonzalez 1971			Perçin-Paçal et al., 2015		I-II	Ss	
Loxoconcha minima G.W. Müller, 1894	+	+		+	I-II	Ss	
Loxoconcha nea Barbeito-Gonzales,1971		+		+	I	Ss	
Loxoconcha obliquata (Seguenza,1880)		+	Perçin-Paçal et al., 2015		II-VI	Ss	fossil
Loxoconcha ovulata (Costa, 1853) Ascoli, 1965	+		+	+	I-II	Ss	fossil
Loxoconcha parallela G.W. Müller, 1894			+	+	I	Ss	
Loxoconcha pontica Klie, 1937	+	+	+		I	Ss	
Loxoconcha punctatella (Reuss, 1850			+		I-III	Ss	fossil
Loxoconcha rhomboidea (Fischer, 1855)	+	+	Parlak and Nazik, 2016	+	I-VI	Ss	
Loxoconcha rubritincta Ruggieri, 1964			Perçin-Paçal et al., 2015	+	I	Ss	
Loxoconcha stellifera G.W. Müller, 1894	+	+	+	+	I-II	Ss	
Loxoconcha sublepida Stancheva, 1989	+				II-III	Ss	

Table. (Continued.)

Loxoconcha tamarindus (Jones, 1857)			Perçin-Paçal et al., 2015		I	Ss	fossil
Loxoconcha tumida Champan, 1902	+	+	+	+	II-IV	Ss	
Loxoconcha variesculpta Ruggieri, 1962			Perçin-Paçal et al., 2015		I	Ss	fossil
Loxoconcha versicolor Müller, 1894		Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015		I-IV	Ss	
Macrocyprina succinea (Müller, 1894) Triebel, 1960			Perçin-Paçal et al., 2015		I-II	Ss	*Macrocypris succinea* Müller, 1894
Macromckenziea ligustica (Bonaduce, Masoli & Pugliese, 1977)				+	VII	Ss	*Macrocypris ligustica* Bonaduce, Masoli & Pugliese, 1977
Macropyxis adriatica (Breman, 1975)		+	Parlak and Nazik, 2016		II	Ss	*Macrocypris adriatica* Breman, 1975
Mediocypris candonaeformis (Straub, 1952)		Perçin-Paçal et al., 2015			VI	Ss	fossil
Microcythere obliqua (G.W. Müller, 1894)			+		I-II	Ss	
Microcytherura angulosa (Seguenza, 1880)		+	Özuluğ et al., 2018		II-IV	Ss	
Microcytherura fulva (Brady & Robertson, 1874)		+		+	II	Ss	
Microcytherura nigrescens G.W. Müller, 1894	+	+			II	Ss	
Monoceratina acuminata (G.W. Müller, 1894)	+	+	+		II-VII	Ss	fossil *Pontocypris acuminata* (Alth, 1850)
Monoceratina mediterranea Sissingh, 1971		+	+	+	II-VI	Ss	fossil
Monoceratina oblita Bonaduce, Ciampo & Masoli, 1976		+	+		I-IV	Ss	
Neocopytus cylindrica (Brady, 1868)			Perçin-Paçal et al., 2015	+	I-II	Ss	*Neocytherideis cylindrica* (Brady, 1868); *Cytherideis cylindrica* Brady, 1868
Neocythere complicata (Ruggieri, 1953)	+	+	+		I-II	Ss	*Neocytherideis complicata* (Ruggieri, 1953); *Procytherideis complicata* Ruggieri, 1953)
Neocythere complicata (Ruggieri, 1953)			Perçin-Paçal et al., 2015	+	I	Ss	*Procytherideis complicata* Ruggieri, 1953); *Neocytherideis complicata* (Ruggieri, 1953)
Neocytherideis bradyi Athersuch, 1982			+	Perçin-Paçal et al., 2015	II	Ss	
Neocytherideis fasciata (Brady & Robertson, 1874)			+	+	III	Ss	
Neocytherideis fasciata (Brady &Robertson, 1874)			+	Parlak and Nazik, 2016	I-II	Ss	*Sahnia fasciata* (Brady & Robertson, 1874)
Neocytherideis foveolata (Brady, 1870)				+	I	Ss	*Cytherideis foveolata* Brady, 1870
Neocytherideis subulata (Brady, 1868)			+		III	Ss	*Cytherideis subulata* Brady, 1868

Table. (Continued.)

Neonesidea corpulenta (G.W. Müller, 1894)		+	+	+	II-VI	Ss	*Bairdia corpulenta* Müller, 1894
Neonesidea crasenticlavula Maddocks, 1969			Özuluğ et al., 2018		I-II	Ss	
Neonesidea formosa (Brady, 1868)			Parlak and Nazik, 2016	+	II	Ss	*Bairdia formosa* Brady, 1868
Neonesidea frequens (G.W. Müller, 1894)		+	+	+	II-III	Ss	*Bairdia frequens* Müller, 1894
Neonesidea inflata (Norman, 1862)			+		II-III	Ss	*Bairdia inflata* (Norman, 1862)
Neonesidea longevaginata (G.W. Müller, 1894)		+	+	+	I-III	Ss	*Bairdia longevaginata* Müller, 1894
Neonesidea mediterranea (G.W. Müller, 1894)	+	+	Özuluğ et al., 2018		II-VII	Ss	*Bairdia mediterranea* Müller, 1894
Occultocythereis dohrni Puri, 1963			Perçin-Paçal et al., 2015		I-IV	Ss	
Orionina bireticulata Doruk, 1974		+			I-II	Ss	fossil
Palmoconcha bonaducei (Ciampo, 1972)			+		I-II	Ss	fossil, *Loxoconcha bonaducei* Ciampo, 1972
Palmoconcha granulata G.O. Sars, 1866	+	+	+	+	III	Ss	*Loxoconcha granulata* Sars, 1866
Palmoconcha turbida (Müller, 1894)		Perçin-Paçal et al., 2015	+		I-III	Ss	*Loxoconcha turbida* Müller, 1912
Paracypris (*Aglaiocypris*) *complanata* (Brady & Robertson, 1869)		+	+	+	I	Ss	*Aglaiocypris complanata* (Brady & Robertson, 1869)
Paracypris polita G.O. Sars, 1866	+		Perçin-Paçal et al., 2015		II	Ss	
Paracypris sklira Barbeito-Gonzales, 1971		+	Perçin-Paçal et al., 2015		I	Ss	
Paracytheridea bilacunosa (Speyer, 1863)		Perçin-Paçal et al., 2015			I-II	Ss	fossil
Paracytheridea depressa G.W. Müller, 1894		+	+	+	II-III	Ss	
Paracytheridea parallia Barbeito-Gonzales, 1971	+	+	+	+	I	Ss	
Paracytherois ensiforme (Brady, 1868)		+			I-II	Ss	*Paradoxostoma ensiforme* Brady, 1868
Paracytherois flexuosa (Brady, 1867)			Perçin-Paçal et al., 2015	+	II-VI	Ss	
Paracytherois mediterranea Bonaduce, Ciampo & Masoli, 1976		+			II	Ss	
Paradoxostoma acuminatum Müller, 1894			Parlak and Nazik, 2016		I	Ss	
Paradoxostoma angustum Müller, 1894			Perçin-Paçal et al., 2015		I-III	Ss	
Paradoxostoma fuscum G.W. Müller, 1894	Perçin-Paçal et al., 2015	+		+	II	Ss	
Paradoxostoma guttatum Schornikov, 1965	+				I-II	Ss	
Paradoxostoma intermedium G.W. Müller, 1894	+		+		I	Ss	
Paradoxostoma mediterraneum Müller, 1894	Perçin-Paçal et al., 2015				I-II	Ss	

Table. (Continued.)

Paradoxostoma rarum Müller, 1894			Özuluğ et al., 2018		I-II	Ss	
Paradoxostoma taeniatum G.W. Müller, 1894		+			I	Ss	
Parakrithe dimorpha Bonaduce, Ciampo & Masoli, 1976				+	I	Ss	
Parvocythere hartmanni Marinov, 1962	Perçin-Paçal et al., 2015				I	Ss	
Pontocypris avena (Norman, 1865)			+		II-III	Ss	*Pontocypris mytiloides* (Norman, 1862)
Pontocypris rara (G.W. Müller, 1894)			+		II	Ss	*Erythrocypris rara* Müller, 1894
Pontocythere baceseoi (Caraion, 1960) Caraion, 1967	+				I	Ss	
Potamocypris steueri Klie, 1935	Perçin-Paçal et al., 2015				I	Ss	
Potamocypris villosa (Jurine, 1820)	Özuluğ et al., 2018				1	Ss	
Procytherideis subspiralis (Brady, Crosskey & Robertson, 1874)			Perçin-Paçal et al., 2015	+	I-II	Ss	fossil, *Neocytherideis subspiralis* (Brady, Crosskey & Robertson, 1874)
Propontocypris (*Propontocypris*) *intermedia* (Brady, 1868)			+		I	Ss	*Pontocypris intermedia* Brady, 1868
Propontocypris dispar (G.W. Müller, 1894		+	+	+	I-II	Ss	*Pontocypris dispar* Müller, 1894
Pseudocythere calcarata (Seguenza, 1880)	+	+	+	+	I-II	Ss	fossil, *Pseudocytherura calcarata* (Seguenza, 1880)
Pseudocythere caudata Sars, 1866			Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	I	Ss	
Pseudocytherura pontica Dubovsky, 1939		+			II	Ss	
Pseudopsammocythere kollmanni Carbonnel, 1966			Perçin-Paçal et al., 2015		I	Ss	
Pseudopsammocythere reniformis (Brady, 1868)			Parlak and Nazik, 2016		I	Ss	
Pseudopsammocythere similis G.W. Müller, 1894	+	+	+	+	II-VII	Ss	*Paradoxostoma simile* Müller, 1894
Pterygocythereis ceratoptera (Bosquet, 1852)		+	Perçin-Paçal et al., 2015	+	II-IV	Ss	fossil
Pterygocythereis jonesii (Baird, 1850)	Bacescu and Margineanu, 1959	+	Özuluğ et al., 2018		II-V	Ss	*Cythereis jonesii* Baird, 1850
Rectobuntonia inflata Colalongo and Pasini, 1980				+	VI	Ss	fossil
Rectotrachyleberis punctatissima (Ruggieri, 1962)		+	+	+	II-VI	Ss	*Costa punctatissima* Ruggieri, 1962
Robertsonites tuberculatus (G.O. Sars, 1865)		+			III	Ss	*Cythereis tuberculata* Sars, 1866
Sagmatocythere mediterranea (G.W. Müller, 1894)	+	Perçin-Paçal et al., 2015	+	+	I-II	Ss	*Callistocythere mediterranea* (Müller, 1894)
Sagmatocythere napoliana (Puri, 1963)		+	Özuluğ et al., 2018	+	I	Ss	*Loxoconcha napoliana* Puri, 1963

Table. (Continued.)

Sagmatocythere versicolor (Müller, 1894)			+		I-II	Ss	
Sclerochilus contortus (Norman, 1862)	+	+	+		II-III	Ss	
Sclerochilus gewemuelleri Dubowsky, 1939	+				I	Ss	
Semicytherura acuminata (G.W. Müller, 1894)		+	+	+	I	Ss	fossil
Semicytherura acuta (G.W. Müller, 1912)		+	+		II	Ss	
Semicytherura acuticostata (G.O. Sars, 1866)		+	+	+	I-II	Ss	
Semicytherura aenariensis Bonaduce, Ciampo & Masoli, 1976				+	I	Ss	
Semicytherura alifera Ruggieri, 1959			Perçin-Paçal et al., 2015		1-II	Ss	
Semicytherura amorpha Bonaduce, Ciampo & Masoli, 1976	+	+			I-II	Ss	
Semicytherura calamitica Schornikov, 1969	Özuluğ et al., 2018				I	Ss	
Semicytherura cribiformis (G.W. Müller, 1894)		+	Perçin-Paçal et al., 2015		IV	Ss	
Semicytherura diafora Barbeito-Gonzalez, 1971		+	Özuluğ et al., 2018		I	Ss	
Semicytherura dispar (Müller, 1894)	Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015		I-II	Ss	
Semicytherura incongruens (G.W. Müller, 1894)		+		+	I	Ss	*Cytherura incongruens* Müller, 1894
Semicytherura inversa (Seguenza, 1880)		+	+	+	I-V	Ss	*Cytherura inversa* Seguenza, 1880
Semicytherura mediterranea (Müller, 1894)			Özuluğ et al., 2018		I-II	Ss	*Cytherura mediterranea* Müller, 1894
Semicytherura paradoxa (G.W. Müller, 1894)		+	+		II-IV	Ss	*Cytherura paradoxa* Müller, 1894
Semicytherura psila Barbeito-Gonzalez, 1971			Perçin-Paçal et al., 2015		I-II	Ss	
Semicytherura punctata (Müller, 1894)			Özuluğ et al., 2018		I-II	Ss	*Cytherura punctata* Müller, 1894
Semicytherura rara (G.W. Müller, 1894)	+		+		I-II	Ss	
Semicytherura rarecostata Bonaduce, Ciampo & Masoli, 1976	+	+			I-II	Ss	
Semicytherura ruggierii (Pucci, 1956) Ruggieri, 1959	+	+	+	+	II-VI	Ss	*Cytheropteron ruggierii* Pucci, 1956
Semicytherura sella (G.O. Sars, 1866)				+	I-II	Ss	
Semicytherura stilifera Bonaduce, Ciampo & Masoli, 1976		+			I-II	Ss	
Semicytherura sulcata (G.W. Müller, 1894)		+	+	+	I-II	Ss	
Semicytherura tergestina Masoli, 1968		+			I-II	Ss	
Semicytherura ventricosa (Müller, 1894)			Perçin-Paçal et al., 2015		I-II	Ss	
Tegmenia rugosa (Costa, 1850)		Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	+	I	Ss	fossil, *Cytherina rugosa Costa, 1853*
Trachyleberis (*Acanthocystereis*) *hystrix*(Reuss, 1850) Ruggieri, 1950		+	+	+	I-VII	Ss	fossil
Triebelina raripila (G.W. Müller, 1894)		+	Parlak and Nazik, 2016	+	II	Ss	*Bairdia raripila* Müller, 1894

Table. (Continued.)

Tyrhenocythere amnicola (G.O. Sars, 1888)	+	Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015		I-III	Ss	
Tyrrhenocythere flipescui (Hanganu, 1962)	Perçin-Paçal et al., 2015	Özuluğ et al., 2018			I-V	Ss	
Urocythereis britannica Athersuch, 1977	+	+	+	Özuluğ et al., 2018	I-II	Ss	
Urocythereis colum Athersuch, 1977			Perçin-Paçal et al., 2015	+	I	Ss	
Urocythereis distinguenda Athersuch, 1978			+	+	I-IV	Ss	fossil
Urocythereis favosa (Roemer, 1838)		+	+	+	II-VII	Ss	fossil, *Hemicythere* (*Urocythereis*) *favosa* (Roemer, 1838)
Urocythereis neapolitana Athersuch, 1977		+	+		I-II	Ss	
Urocythereis oblonga (Brady, 1868)	+		+	+	I-III	Ss	
Urocythereis phantastica Athersuch & Ruggieri, 1975			Perçin-Paçal et al., 2015	+	I	Ss	
Urocythereis sororcula (Seguenza, 1880) Uliczny, 1969			+	+	I-II	Ss	fossil
Xestoleberis acutipenis Caraion, 1963	+		+		I	Ss	
Xestoleberis aurantia (Baird, 1838)	+	+	+	+	I	Ss	
Xestoleberis communis (G.W. Müller, 1894)	+	+	+	+	I-V	Ss	
Xestoleberis cornelii Caraion, 1963	+	+	+		I	Ss	
Xestoleberis decipiens (G.W. Müller, 1894)	+	+	+	+	I-II	Ss	
Xestoleberis depressa G.O. Sars, 1866	+	Perçin-Paçal et al., 2015	+	+	II	Ss	
Xestoleberis dispar G.W. Müller, 1894	+	+	+	+	II-VII	Ss	
Xestoleberis margaritea (Brady, 1866) Brady, 1880	+	+	Perçin-Paçal et al., 2015	+	I-II	Ss	
Xestoleberis margaritopsis Rome, 1942	+	+	+		I-II	Ss	
Xestoleberis pellucida (G.W. Müller, 1894)		+	Perçin-Paçal et al., 2015		I-II	Ss	
Xestoleberis plana (G.W. Müller, 1894)	+	Perçin-Paçal et al., 2015	+		I-II	Ss	
Xestoleberis reymenti Ruggieri, 1967			Perçin-Paçal et al., 2015		I-III	Ss	fossil
Xestoleberis ventricosa Müller, 1894			Perçin-Paçal et al., 2015	Perçin-Paçal et al., 2015	I-II	Ss	
MALACOSTRACA (Class)							
NEBALIACEA (Order)							
Nebaliidae (Family)							
Nebalia abyssicola Ledoyer, 1997		Mülayim et al., 2022	+		VII	Ss	
Nebalia bipes (Fabricius, 1780)		Demir, 1952	Geldiay and Kocataş, 1972a	Özgür, 2004	I	Ss	
Nebalia kocatasi Moreira, Koçak & Katağan, 2007			+	+	I-II	Ss	

Table. (Continued.)

Nebalia mediterranea Koçak & Moreira, 2015			Koçak and Moreira, 2015		I	Ss	
Nebalia strausi Risso, 1826		Mülayim, 2021	+	+	I-III	Hs, Ss	
STOMATOPODA (Order)							
Nannosquillidae (Family)							
Nannosquilloides occultus (Giesbrecht, 1910)			+		II	Ss	
Parasquillidae (Family)							
Parasquilla ferussaci (Roux, 1828)			+	Patania and Mutlu, 2021	IV	Ss	
Squillidae (Family)							
**Clorida albolitura* Ahyong & Naiyanetr, 2000				+	III	Ss	
**Cloridina* cf. *ichneumon* (Fabricius, 1798)				Ragkousis et al., 2020	II	Ss	
**Erugosquilla massavensis* (Kossmann, 1880)		+	+	+	I-IV	Ss	
Rissoides desmaresti (Risso, 1816)			+		III	Ss	
Rissoides pallidus (Giesbrecht, 1910)			+		IV-VI	Ss	
Squilla mantis (Linnaeus, 1758)		+	+	+	I-IV	Ss	
Tetrasquillidae (Family)							
Allosquilla africana (Manning, 1970)			+		IV	Ss	
LOPHOGASTRIDA (Order)							
Lophogastridae (Family)							
Lophogaster typicus M. Sars, 1857		+	+	Bayhan et al., 2015	II-III	Ss	
MYSIDA (Order)							
Mysidae (Family)							
Acanthomysis longicornis (Milne-Edwards, 1837)			+		I-II	Ss, P	
Anchialina agilis (G.O. Sars, 1877)			+		I-III	Ss, P	
Anchialina oculata Hoenigman, 1960			+		I-III	Hs, Ss, P	
Boreomysis (*Boreomysis*) *arctica* (Krøyer, 1861)		+		Bayhan et al., 2015	V	Ss	
Diamysis bahirensis (G.O. Sars, 1877)			+		II	Ss	
Diamysis cymodoceae Wittmann & Ariani, 2012		+	+		I	Ss	
Diamysis mesohalobia heterandra Ariani & Wittmann, 2000		+			I-II	Ss	
Diamysis mesohalobia mesohalobia Ariani & Wittmann, 2000			+		I	Ss	
Erythrops erythrophthalmus (Goës, 1864)			+		III	Ss	*Erythrops erythrophthalma* (Goës, 1864)
Gastrosaccus mediterraneus Bacescu, 1970			+		I	Ss	
Gastrosaccus sanctus (Van Beneden, 1861)	+	+	+	+	I	Ss	
Haplostylus lobatus (Nouvel, 1951)			+		III	Ss, P	*Gastrosaccus lobatus* Nouvel, 1951
Haplostylus normani (G.O. Sars, 1877)		Colosi, 1922	+		II	Ss	*Gastrosaccus normani* G.O. Sars, 1877

Table. (Continued.)

Heteromysis (Heteromysis) eideri Bacescu, 1941			+		II	Ss	
Leptomysis buergii Bacescu, 1966			+		II	Ss	
Leptomysis lingvura (G.O. Sars, 1866)		+	+		I-II	Hs, Ss, P	
Leptomysis mediterranea G.O. Sars, 1877			+		I-II	Ss	
Leptomysis truncata (Heller, 1863)		Demir, 1952	+		I	Ss, P	
Mesopodopsis slabberi (van Beneden, 1861)	Wittmann and Stagl, 1996	+	+	Özcan et al., 2019	I-II	Ss, P	
Mysidopsis gibbosa G.O. Sars, 1864		+	+		I-II	Ss	
Paraleptomysis apiops (G.O. Sars, 1877)			+	+	II	Ss	
Paramysis proconnesia Colosi, 1922		+			?	?	
Paramysis (*Longidentia*) *helleri* (G.O. Sars, 1877)	+	+	+		I-II	Ss	
Paramysis (*Longidentia*) *kroyeri* (Czerniavsky, 1882)	+						
Paramysis (*Occiparamysis*) *agigensis* Bacescu, 1940		+	+		I	Ss	
Paramysis (*Pseudoparamysis*) *pontica* Bacescu, 1940	+	+			I-II	Hs, Ss	
Parapseudomma calloplura (Holt & Tattersall, 1905)				Bayhan et al., 2015	?	?	
Siriella armata (H. Milne-Edwards, 1837)			+		I	Ss, P	
Siriella clausi G.O. Sars, 1877			+	+	I	Ss, P	
Siriella jaltensis Czerniavsky, 1868	+	+	+		I	Hs	
Siriella norvegica G.O. Sars, 1869			+		II	Ss	
AMPHIPODA (Order)							
Acidostomatidae (Family)							
Acidostoma laticorne G.O. Sars, 1879			+		I-III	Pz	
Ampeliscidae (Family)							
Ampelisca brevicornis (A. Costa, 1853)		+	+	+	I-II	Ss	
Ampelisca calypsonis Bellan-Santini & Kaim-Malka, 1977			+		II-III	Ss	
Ampelisca dalmatina G. Karaman, 1975		Mülayim et al., 2015a	+		II-III	Ss	
Ampelisca diadema (A. Costa, 1853)	Nikitin, 1948	+	+	+	I-III	Ss	
Ampelisca gibba G.O. Sars, 1882		+	+	+	I-III	Ss	
Ampelisca jaffaensis Bellan-Santini & Kaim-Malka, 1977		+	+	+	II-III	Ss	
Ampelisca ledoyeri Bellan-Santini & Kaim-Malka, 1977		+	+	+	II-IV	Ss	
Ampelisca massiliensis Bellan-Santini & Kaim-Malka, 1977				Mutlu, 2015	V	Ss	
Ampelisca multispinosa Bellan-Santini and Kaim-Malka, 1977		Bakır et al., 2016	+	+	II-IV	Ss	
Ampelisca planierensis Bellan-Santini & Kaim-Malka, 1977		+	+		II-III	Ss	
Ampelisca provincialis Bellan-Santini & Kaim-Malka, 1977			+	+	III	Ss	

Table. (Continued.)

Ampelisca pseudosarsi Bellan-Santini & Kaim-Malka, 1977	+	+	+	+	II-III	Ss	
Ampelisca pseudospinimana Bellan-Santini & Kaim-Malka, 1977	+	+	+	+	I-III	Ss	
Ampelisca rubella A. Costa, 1864		Mülayim et al., 2015b	+	+	I-II	Hs, Ss	
Ampelisca ruffoi Bellan-Santini & Kaim-Malka, 1977		+	+	+	II-III	Ss	
Ampelisca sarsi Chevreux, 1888		+	+	+	I-III	Ss	
Ampelisca spinifer Reid, 1951				+	II-III	Ss	
Ampelisca spinipes Boeck, 1861	+	+	+	+	II-III	Ss	
Ampelisca tenuicornis Liljeborg, 1856		Mülayim et al., 2015b	+	+	I-II	Ss	
Ampelisca truncata Bellan-Santini & Kaim-Malka, 1977		Çinar et al., 2020	+	+	I-III	Hs,Ss	
Ampelisca typica (Spence Bate, 1857)		+	+	+	I-III	Ss	
Ampelisca unidentata Schellenberg, 1936		Bakır et al., 2016	+		I-II	Ss	
Ampelisca vervecei Bellan-Santini & Kaim-Malka, 1977			+		II-III	Hs, Ss	
?Byblis gaimardii (Krøyer, 1846)		Ostroumoff, 1894			?	?	
Haploops dellavallei Stebbing, 1893			+		II-III	Ss	
Haploops nirae Kaim-Malka, 1976			+	+	II-III	Ss	
Amphilochidae (Family)							
Amphilochoides boecki G.O. Sars, 1895			+		IV	Ss	
?*Amphilochoides longimanus* (Chevreux, 1888)			Kocataş and Katağan, 1978		III-IV	Hs, Ss	
Amphilochoides serratipes (Norman, 1869)			+		III	Ss	
Apolochus brunneus (Della Valle, 1893)		+	+		I-III	Ss	*Amphilochus brunneus* Della Valle, 1893
Apolochus neapolitanus (Della Valle, 1893*)*		+	+	+	I-II	Ss	*Amphilochus neapolitanus* Della Valle, 1893
Apolochus picadurus (J.L. Barnard, 1962)		+	+	+	I-III	Hs, Ss	*Amphilochus picadurus* Barnard, 196
Apolochus spencebatei (Stebbing, 1876)				Mutlu, 2020	?	Ss	
Gitana sarsi Boeck, 1871		Bakır et al., 2016	+		I-III	Hs, Ss	
Amphithyridae (Family)							
Amphithyrus bispinosus Claus, 1879			+		IV	P	
Paralycaea gracilis Claus, 1879			Aydın Uncumusaoğlu and Özel, 2013	Bakır and Aker, 2022	II-VII	P	
Ampithoidae (Family)							
**Ampithoe bizseli* Özaydınlı & Coleman, 2012			+		I-II	Hs	
Ampithoe ferox (Chevreux, 1902)			+	+	I-II	Hs, Ss	
Ampithoe ramondi Audouin, 1826	+	+	+	+	I-II	Hs, Ss	
Ampithoe riedli Krapp-Schickel, 1968		Mülayim et al., 2015b	+	+	I-II	Hs, Ss	

Table. (Continued.)

Ampithoe rubricata (Montagu, 1808)		Sowinsky, 1897			I-II	Hs	
Biancolina algicola Della Valle, 1893	+	+	+	+	I-II	Hs, Ss	
Cymadusa crassicornis (A. Costa, 1853)	+	+	+		I-II	Hs	
Pleonexes gammaroides Spence Bate, 1857	Grintsov, 2022	+	+		I-II	Hs, Ss	*Ampithoe gammaroides* (Bate, 1856)
Pleonexes helleri (Karaman, 1975)	+	+	+	+	I-II	Hs, Ss	*Ampithoe helleri* Karaman, 1975
Sunamphitoe pelagica (H. Milne Edwards, 1830)		+	+	+	I-II	Hs	
Sunamphitoe spuria (Krapp-Schickel, 1978)		+	+		II	Hs, Ss	*Peramphithoe spuria* (Krapp-Schickel, 1978)
Aoridae (Family)							
Aora gracilis (Spence Bate, 1857)		+	+		I-IV	Hs, Ss	
Aora spinicornis Afonso, 1976		Mülayim et al., 2015b	+	+	I-IV	Hs, Ss	
Autonoe karamani (Myers, 1976)		+	+		II-III	Ss	
Autonoe longipes (Liljeborg, 1852)			+		II	Ss	
Autonoe rubromaculatus (Ledoyer, 1973)			+		II	Hs, Ss	
Autonoe spiniventris Della Valle, 1893			+	Mutlu, 2015	II	Ss	
Autonoe viduarum (Myers, 1974)		Bakır et al., 2016	+	+	III	Ss	
Lembos websteri Spence Bate, 1857		Bakır et al., 2016	+	+	II	Hs, Ss	
Microdeutopus algicola Della Valle, 1893	+	+	+	+	II	Hs	
Microdeutopus anomalus (Rathke, 1843)	+	+	+	+	II	Ss	
Microdeutopus armatus Chevreux, 1887				Mutlu, 2015	?	Ss	
Microdeutopus bifidus Myers, 1977		+	+	+	I-II	Hs, Ss	
Microdeutopus chelifer (Spence Bate & Westwood, 1862)		+	+		I-II	Hs, Ss	
Microdeutopus damnoniensis (Spence Bate, 1857)			Kocataş, 1978		?	?	
Microdeutopus gryllotalpa A. Costa, 1853	+	+	+	+	I-II	Hs, Ss	
Microdeutopus obtusatus Myers, 1973		Aslan-Cihangir and Pancucci-Papadopoulou, 2011	+	+	I-V	Hs, Ss	
Microdeutopus similis Myers, 1977			+	+	I-II	Ss	
Microdeutopus sporadhi Myers, 1969			+	+	II	Ss	
Microdeutopus stationis Della Valle, 1893	+	+	+	+	I-II	Ss	
Microdeutopus versiculatus (Spence Bate, 1857)	+	+	+	+	I-V	Hs, Ss	
Tethylembos viguieri (Chevreux, 1911)			+		I-II	Ss	
Argissidae (Family)							
Argissa hamatipes (Norman, 1869)			+		II-V	Hs, Ss	

Table. (Continued.)

Aristiidae (Family)							
Aristias neglectus Hansen, 1888			+		I-III	Hs	
Perrierella audouiniana (Spence Bate, 1857)			+		II-IV	Ss	
Atylidae (Family)							
Nototropis guttatus (A. Costa in Hope, 1851)	+	+	+	+	I-II	Ss	
Nototropis massiliensis (Bellan-Santini, 1975)	+	+	+	+	II-III	Ss	*Atylus massiliensis* Bellan-Santini, 1975
Nototropis swammerdamei (H. Milne Edwards, 1830)			+		I	Ss	
Nototropis vedlomensis (Bate and Westwood, 1862)		Bakır et al., 2016	+	+	II-III	Ss	*Atylus vedlomensis* (Spence Bate & Westwood, 1862)
Bathyporeiidae (Family)							
Bathyporeia elegans Watkin, 1938		Mülayim et al., 2015b			I	Ss	
Bathyporeia guilliamsoniana (Spence Bate, 1857)	+	Mülayim et al., 2015b	Aslan et al., 2018	+	I-III	Ss	
Bathyporeia phaiophthalma Bellan-Santini, 1973		+	+		I	Ss	
Behningiellidae (Family)							
Cardiophilus baeri G.O. Sars, 1896	+				I-II	Ss	
Brachyscelidae (Family)							
Brachyscelus crusculum Spence Bate, 1861				Bayhan et al., 2015	?	?	
Calliopiidae (Family)							
Apherusa alacris Krapp-Schickel, 1969		+	+	+	I-II	Ss	
Apherusa bispinosa (Spence Bate, 1857)	+	+	+		I-II	Ss	
Apherusa chiereghinii Giordani- Soika, 1950	+	+	+	+	I-II	Ss	
Apherusa mediterranea Chevreux, 1911		Mülayim et al., 2015b	+		I-II	Ss	
Apherusa ruffoi Krapp-Schickel, 1969			+		I-II	Hs, Ss	
Apherusa vexatrix Krapp-Schickel, 1979		Mülayim et al., 2015b	+	+	I-III	Hs, Ss	
Caprellidae (Family)							
Caprella acanthifera Leach, 1814	Nikitin, 1948	+	+	+	I-II	Hs, Ss	
Caprella andreae Mayer, 1890			+	+	I	Hs	
Caprella danilevskii Czerniavski, 1868	+	+	+	+	I	Hs	
Caprella dilatata Kroyer, 1843			+		I	Hs	
Caprella equilibra Say, 1818	+	+	+		I-II	Hs, Ss	
Caprella grandimana Mayer, 1882			+	+	I	Hs	
Caprella hirsuta Mayer, 1890			+	+	I-II	Hs	
Caprella liliput Krapp-Schickel & Ruffo, 1987		+			I	Ss	
Caprella linearis Linnaeus, 1767			Kocataş, 1976a,b		I	Hs	
Caprella liparotensis Haller, 1879	+	+		+	I	Hs	
Caprella mitis Mayer, 1890	+	+	+		I	Hs, Ss	

Table. (Continued.)

Caprella penantis Leach, 1814			+		I	Hs, Ss	
Caprella rapax Mayer, 1890	+	+	+	+	I-II	Hs, Ss	
**Caprella scaura* Templeton, 1836		Bakır et al., 2016	+		I	Hs	
Caprella tavolarensis Sturaro & Guerra-García, 2012			Ozgen et al., 2019		I	Hs	
Caprella telarpax Mayer, 1890			+		I	Ss	
Deutella shieckei Cavedini, 1982				+	I	Ss	
Liropus elongatus Mayer, 1890				+	I-II	Ss	
Pariambus typicus (Krøyer, 1845)			+		I-II	Ss	
Parvipalpus linea Mayer, 1890		Bakır et al., 2016	+		I-III	Ss	
Phtisica marina Slabber, 1769	+	+	+	+	I-IV	Ss	
Pseudolirius kroyeri (Heller, 1879)		+	+		I-II	Ss	
Pseudoprotella phasma (Montagu, 1804)	+	Ostroumoff, 1894	+	+	I-II	Ss	
Carangoliopsidae (Family)							
Carangoliopsis spinulosa Ledoyer, 1970		Bakır et al., 2016	+	+	II-III	Ss	
Cheirocratidae (Family)							
Cheirocratus assimilis (Liljeborg, 1852)			+		I-III	Hs, Ss	
Cheirocratus monodontis G. Karaman, 1977		Mülayim et al., 2015a			II	Hs, Ss	
Cheirocratus sundevallii (Rathke, 1843)		+	+	+	I-III	Ss	
Cheluridae (Family)							
Chelura terebrans Philippi, 1839	+	+	+	+	I-II	Hs, Ss, W	
Colomastigidae (Family)							
Colomastix pusilla Grube, 1861	Bacescu and Margineanu, 1959	Bakır et al., 2016	+	+	I-II	Hs	
Corophiidae (Family)							
Apocorophium acutum (Chevreux, 1908)	Mülayim, 2021	+	+	+	I-II	Hs, Ss	
Cheiriphotis mediterranea Myers, 1983				+	II	Ss	
Chelicorophium curvispinum (G. O. Sars, 1895)	Grintsov, 2022				?	?	
Chelicorophium maeoticum (Sowinsky, 1898)	Grintsov, 2022				?	?	
Chelicorophium robustum (G. O. Sars, 1895)	Grintsov, 2022				?	?	
Corophium orientale Schellenberg, 1928	+	+	+		I-II	Ss	
Corophium volutator (Pallas, 1766)	+	+	+	+	I-II	Ss	
Crassicorophium bonellii (H. Milne Edwards, 1830)		Ostroumoff, 1894			I-II	?	
Crassicorophium crassicorne (Bruzelius, 1859)		Sowinsky, 1897			I-II	?	
Leptocheirus bispinosus Norman, 1908		Mülayim, 2020	+	+	II	Hs, Ss	
Scopelocheiridae (Family)							

Table. (Continued.)

Leptocheirus longimanus Ledoyer, 1973			Ozaydinli and Bizsel, 2020		II	Ss	
Leptocheirus hirsutimanus (Spence Bate & Westwood, 1862)				Mutlu, 2015	?	Ss	
Leptocheirus mariae Karaman, 1973		+	+	+	I-III	Ss	
Leptocheirus pectinatus (Norman, 1869)		+	+	+	II-III	Ss	
Leptocheirus pilosus Zaddach, 1844	+	+	+	+	I-III	Hs, Ss	
Leptocheirus tricristatus (Chevreux, 1887)				Mutlu, 2020	?	Ss	
Medicorophium aculeatum (Chevreux, 1908)			+		II	Ss	
Medicorophium affine (Bruzelius, 1859)		Sowinsky, 1897		Mutlu, 2020	I-II	Ss	
Medicorophium minimum (Schiecke, 1978)		Bakır et al., 2016	+	+	V	Ss	
Medicorophium rotundirostre (Stephensen, 1915)		+	+	Mutlu, 2015	I-II	Ss	
Medicorophium runcicorne Della Valle, 1893	+	+	+	+	II	Ss	
Monocorophium acherusicum (A. Costa, 1853)	+	+	+	+	I-II	Hs	
?*Monocorophium cylindricum* (Say, 1818)		Caspers, 1968			I-II	Ss	
Monocorophium insidiosum (Crawford, 1937)	+	+	+		II	Hs	
Monocorophium sextonae (Crawford, 1937)		+	+		II	Hs	
Cressidae (Family)							
Cressa cristata Myers, 1969			+		I-II	Ss	
Cyproideidae (Family)							
Peltocoxa gibbosa (Schiecke, 1977)			+		II	Ss	
Peltocoxa marioni Catta, 1875			+	+	I-III	Hs, Ss	
Peltocoxa mediterranea Schiecke, 1977			+		I-III	Ss	
Dexaminidae (Family)							
Dexamine spiniventris (A. Costa, 1853)	+	Okuş, 1989	+	+	I-II	Hs, Ss	
Dexamine spinosa (Montagu, 1813)	Nikitin, 1948	+	+	+	I-II	Hs, Ss	
Dexamine thea Boeck, 1861	+	+	+	Mutlu, 2015	I-II	Hs, Ss	
Guernea (*Guernea*) *coalita* (Norman, 1868)		Bakır et al., 2016	+	+	I	Hs, Ss	
Tritaeta gibbosa (Spence Bate & Westwood, 1862)	+	Okuş, 1989	+	+	I-II	Hs, Ss	
Epimeriidae (Family)							
Epimeria (*Epimeria*) *cornigera* (Fabricius, 1779)			+		III-V	Ss	
Eriopisidae (Family)							
Eriopisa elongata (Bruzelius, 1859)		+	+	+	II-IV	Ss	
Eriopisella ruffoi Marti & Villora-Moreno, 1996			Ozgen et al., 2019		I	Hs	
Eupronoidae (Family)							
Eupronoe minuta Claus, 1879			+		III-IV	P	
Eusiridae (Family)							
Eusirus longipes Boeck, 1861			+	+	III	Ss	
Rhachotropis caeca Ledoyer, 1977				Bayhan et al., 2015	?	P	

Table. (Continued.)

Rhachotropis grimaldii (Chevreux, 1887)				Bayhan et al., 2015	?	P	
Gammarellidae (Family)							
Gammarellus angulosus (Rathke, 1843)	+	+			I-II	Hs	
?Gammarellus homari (J.C. Fabricius, 1779)		Demir, 1952			?	?	
Gammaridae (Family)							
Amathillina cristata (G. O. Sars, 1894)	Grintsov, 2022				?	?	
Dikerogammarus haemobaphes (Eichwald, 1841)	Grintsov, 2022				?	?	
Dikerogammarus gruberi Mateus & Mateus, 1990	Grintsov, 2022				?	?	
Dikerogammarus istanbulensis Özbek, 2011	Grintsov, 2022				I	?	
Echinogammarus dahli (Stock, 1968)		Tekeli and Aslan, 2023			I	Hs	
Gammarus aequicauda (Martynov, 1931)	+	Okuş, 1989	+	+	I-II	Hs, Ss	
Gammarus crinicornis Stock, 1966	+	Mülayim et al., 2015a	+	+	I-II	Hs, Ss	
Gammarus insensibilis Stock, 1966	+	Mülayim et al., 2015a	+	+	I-II	Hs, Ss	
Gammarus locusta (Linnaeus, 1758)	Nikitin, 1948	Ostroumoff, 1894			I-II	Hs	
Gammarus subtypicus Stock, 1966	+	+	+	+	I-II	Hs, Ss	
Lunulogammarus turcicus Krapp-Schickel, Ruffo & Schiecke, 1994				+	I	Ss	
?*Marinogammarus marinus* (Leach, 1816)		Sowinsky, 1897			?	?	*Gammarus marinus* Leach, 1816
Pectenogammarus foxi (Schellenberg, 1928)	+	+	+		I	Hs	*Echinogammarus foxi* (Schellenberberg, 1928)
Pectenogammarus olivii (H. Milne Edwards, 1830)	+	+	+	+	I	Hs	*Echinogammarus olivii* (H. Milne-Edwards, 1830)
Pectenogammarus stocki (G. Karaman, 1970)		Mülayim, 2020	+		I	Hs	*Echinogammarus stocki* G. Karaman, 1969
Hyalidae (Family)							
Apohyale crassipes (Heller, 1866)	+	Erkan Yurdabak, 2004	+	+	I-II	Hs, Ss	*Hyale crassipes* (Heller, 1866)
Apohyale perieri (Lucas, 1846)	+	Sowinsky, 1897	+	+	I-II	Hs	*Hyale perieri* (Lucas, 1849); *Hyale pontica* Rathke, 1837
Apohyale prevostii (H. Milne-Edwards, 1830)		+			I-II	Hs	
Apohyale stebbingi (Chevreux, 1888)			+		I-II	Hs	*Hyale stebbingi* Chevreux, 1888
Parhyale aquilina (A. Costa, 1857)	+	+	+	+	I-II	Hs	
Parhyale eburnea Krapp-Schickel, 1974			+	+	II	Ss	
Parhyale plumicornis (Heller, 1866)			+	+	I-II	Hs	*Ptilohyale plumicornis* (Heller, 1866)
Protohyale (*Boreohyale*) *camptonyx* (Heller, 1866)	+		+	+	II	Hs	*Hyale camptonyx* (Heller, 1866)
Protohyale (*Protohyale*) *grimaldii* (Chevreux, 1891)		+	+		I-II	Hs	*Hyale grimaldii* Chevreux,1891

Table. (Continued.)

Leptocheirus guttatus (Grube, 1864)		Bakır et al., 2016	+	+	I-II	Ss	
Protohyale (*Protohyale*) *schmidtii* (Heller, 1866)	+	+	+	+	II	Hs	*Hyale schmidtii* (Heller, 1866)
Hyperiidae (Family)							
Hyperia galba (Montagu, 1813)			+	Mutlu, 2015	II	P	
Themisto abyssorum (Boeck, 1871)			Aydın-Uncumusaoğlu and Özel, 2013		III	P	*Parathemisto oblivia* (Krøyer, 1838)
Themisto compressa Goës, 1866			Aydın-Uncumusaoğlu and Özel, 2013		III	P	*Parathemisto gracilipes* (Norman, 1869)
Themisto gaudichaudii Guérin, 1825			+		III	P	
Iphimediidae (Family)							
Coboldus nitior Krapp-Schickel, 1974			+	+	II-III	Ss	
Iphimedia carinata Heller, 1866			+		IV	Ss	
Iphimedia eblanae Bate, 1857			+		III	Ss	
Iphimedia gibbula Ruffo & Schiecke, 1979		Bakır et al., 2016			II	Ss	
?*Iphimedia jugoslavica* Karaman, 1975			Kocataş and Katağan, 1978		I-II	Ss	
Iphimedia minuta G.O. Sars, 1883		+	+	+	I-II	Ss	
Iphimedia vicina Ruffo & Schiecke, 1979			Ozgen et al., 2019		I	Hs	
Isaeidae (Family)							
Isaea montagui H. Milne Edwards, 1830				+	I-V	CM	
Ischyroceridae (Family)							
Centraloecetes dellavallei (Stebbing. 1899)	+	+		+	II	Ss	*Siphonoecetes dellavallei* Stebbing, 1899
Centraloecetes neapolitanus (Schiecke, 1978)			+		V	Ss	*Siphonoecetes neapolitanus* Schiecke, 1979
Ericthonius argenteus Krapp-Schickel, 1993		Çinar et al., 2020	Doğan et al., 2015b	+	I	Hs	
Ericthonius brasiliensis (Dana, 1853)	Kocataş and Katağan, 1978	Kocataş and Katağan, 1978	Kocataş and Katağan, 1978	Kocataş and Katağan, 1978	I-II	Hs	
Ericthonius difformis H. Milne Edwards, 1830	+	+	+	+	I-II	Ss	
Ericthonius punctatus (Spence Bate, 1857)	+	+	+	+	I-II	Hs	
Jassa falcata (Montagu, 1808)				Mutlu and Ergev, 2013			
Jassa marmorata Holmes, 1905	+	+	+	+	II	Ss	
Microjassa cumbriensis (Stebbing & Robertson, 1891)		+			II-V	Hs	
Neoischyrocerus inexpectatus (Ruffo, 1959)		Bakır et al., 2016		+	I-II	Hs	*Ischyrocerus inexpectatus* Ruffo, 1959

Table. (Continued.)

Plumulojassa ocia (Spence Bate & Westwood, 1862)	+	+	+	+	II	Ss	*Jassa ocia* (Bate, 1862)
Kamakidae (Family)							
Cerapopsis longipes Della Valle, 1893		+	+	+	I-II	Ss	*Photis longipes* (Della Valle, 1893)
Kuriidae (Family)							
Micropythia carinata (Spence Bate, 1863)	+	+	+	+	I-II	Hs	
Lestrigonidae (Family)							
Hyperioides longipes Chevreux, 1900			+		III	P	
Lestrigonus crucipes (Bovallius, 1889)			Aydın-Uncumusaoğlu and Özel, 2013		III	P	
Lestrigonus latissimus (Bovallius, 1889)			+		II	P	
Lestrigonus macrophthalmus (Vosseler, 1901)			Aydın-Uncumusaoğlu and Özel, 2013		III	P	
Lestrigonus schizogeneios (Stebbing, 1888)			+		II-III	P	
Leucothoidae (Family)							
*?*Leucothoe crassimana* Kossmann, 1880		Sowinsky, 1897			I-II	Ss	
Leucothoe incisa Robertson, 1892	+	Mülayim et al., 2015b	+	+	I-IV	Ss	
Leucothoe lilljeborgi Boeck, 1861		+	+	+	II-IV	Ss	
Leucothoe oboa Karaman, 1971		Mülayim et al., 2015b	+	+	III	Ss	
Leucothoe occulta Krapp-Schickel, 1975		Bakır et al., 2016	+	+	II	Ss	
Leucothoe pachycera Della Valle, 1893			+		II-III	Ss	
Leucothoe procera Bate 1857			+	+	II	Ss	
Leucothoe richiardii Lessona, 1865			+	+	I-III	Ss	
Leucothoe serraticarpa Della Valle, 1893			+		I-II	Ss	
Leucothoe spinicarpa (Abildgaard, 1789)	+	+	+	+	I-II	Ss	
Leucothoe venetiarum Giordani Soika, 1950		+	+	+	II-III	Ss	
Liljeborgiidae (Family)							
Idunella nana (Schiecke, 1973)			+		I-II	Ss	
Liljeborgia dellavallei Stebbing, 1906		+	+	+	I-III	Ss	
Liljeborgia psaltrica Krapp-Schickel, 1975		+	+	+	II-III	Ss	
Lycaeidae (Family)							
Lycaea pachypoda (Claus, 1879)			+		III	P	
Lycaea pulex Marion, 1874			+	Bakır and Aker, 2022	III-IV	P	
Simorhynchotus antennarius (Claus, 1871)			+		III	P	
Lycaeopsidae (Family)							
Lycaeopsis themistoides Claus, 1879			+	Bakır and Aker, 2022	III-IV	P	
Lysianassidae (Family)							

Table. (Continued.)

Lysianassa caesarea Ruffo, 1987		Tekeli and Aslan, 2023	+	+	I-II	Hs, Ss	
Lysianassa ceratina (Walker, 1889)				Mutlu, 2020	?	Ss	
Lysianassa costae H. Milne Edwards, 1830		+	+	+	I-III	Ss	
Lysianassa insperata Lincoln, 1979			+	Mutlu, 2015	II-III	Ss	
Lysianassa pilicornis Heller, 1866		Mülayim et al., 2022	+	+	II-III	Ss	
Lysianassa plumosa Boeck, 1871			+	+	I-IV	Ss	
Lysianassina longicornis (Lucas, 1846)		+	+	+	I-III	Ss	*Lysianassa longicornis* (Lucas, 1846)
Nannonyx propinquus Chevreux, 1911	+				II	Hs	
Socarnes erythrophthalmus Robertson, 1892			Kocataş and Katağan, 1978	Mutlu and Ergev, 2013	II	Ss	
Socarnes filicornis (Heller, 1866)			+	+	IV	Ss	
Maeridae (Family)							
Animoceradocus semiserratus (Spence Bate & Westwood, 1862)		Mülayim, 2020		Mutlu, 2020	I-II	Ss	
Ceradocus (*Ceradocus*) *orchestiipes* A. Costa, 1853		Bakır et al., 2016	+		II-III	Hs	
Ceradocus (*Denticeradocus*) *serratus* (Spence Bate, 1863)				Mutlu, 2020	?	Ss	
Elasmopus brasiliensis (Dana, 1853)		+	+		I-II	Hs	
?*Elasmopus* cf. *gracilis* Schellenberg, 1938			Kocataş and Katağan, 1978		?	?	
Elasmopus pectenicrus (Spence Bate, 1863)		Tekeli and Aslan, 2023	+	+	I-II	Hs	
Elasmopus pocillimanus (Spence Bate, 1863)		Erkan Yurdabak, 2004	+	Bakır and Katağan, 2014	I-II	Hs	
Elasmopus rapax A. Costa, 1853		Okuş, 1989	+	+	I-II	Hs, Ss	
?*Elasmopus* cf. *steinitzi* Ruffo, 1959				Kocataş and Katağan, 1978	?	?	
**Linguimaera caesaris* Krapp-Schickel, 2003			Kocataş and Katağan, 1978	Kocataş and Katağan, 1978	I-III	Hs, Ss	
Maera grossimana (Montagu, 1808)	+	+	+	+	I-II	Ss	
Maera hirondellei Chevreux, 1900			+	+	II	Ss	
Maera pachytelson Karaman & Ruffo, 1971			+	+	I	Ss	
Maera schieckei Karaman & Ruffo, 1971			+	+	II	Ss	
Maera sodalis Karaman & Ruffo, 1971		+	+	+	III	Ss	
Othomaera schmidti (Stephensen, 1915)		+	+	+	III	Ss	*Maera schmidti* Stephensen, 1915

Table. (Continued.)

Quadrimaera inaequipes (A. Costa in Hope, 1851)		Bakır et al., 2016	+	+	I-II	Ss	*Maera inaequipes* (A. Costa, 1857)
Megaluropidae (Family)							
Megaluropus agilis Hoeck, 1889				Mutlu and Ergev, 2013	?	?	
Megaluropus massiliensis Ledoyer, 1976	+	Mülayim et al., 2015b	+	+	I-II	Ss	
Melitidae (Family)							
Abludomelita aculeata (Chevreux, 1911)			+	Mutlu, 2015	IV	Ss	
Abludomelita gladiosa (Spence Bate & Westwood, 1862)		+	+	+	I-IV	Ss	
Abludomelita obtusata (Montagu, 1813)			+	+	I-II	Ss	
Melita bulla Karaman, 1978				+	I	Ss	
Melita coroninii Heller, 1866			+		I	Hs	
Melita hergensis Reid, 1939		Mülayim et al., 2015b	+	+	I-II	Ss	
Melita palmata (Montagu, 1804)	+	+	+	+	I	Ss	
Paraniphargus valesi (Karaman, 1955)		Tekeli and Aslan, 2023		+	I-II	Hs, Ss	*Melita valesi* Karaman, 1955
Tegano virgula (Krapp-Schickel, Ruffo & Schiecke, 1994)				+	I	Ss	*Melita virgula* Krapp-Schickel, Ruffo & Schiecke, 1994
Melphidippidae (Family)							
Melphidippella macra (Norman, 1869)		+			V	Ss	
Microprotopidae (Family)							
Microprotopus longimanus Chevreux, 1887			+		I	Hs	
Microprotopus maculatus Norman, 1867		+			I-V	Ss	
Nuuanuidae (Family)							
Gammarella fucicola (Leach, 1814)		+	+	+	I-II	Hs, Ss	
Oedicerotidae (Family)							
Deflexilodes acutipes (Ledoyer, 1983)		+	+	+	I-II	Ss	
Deflexilodes gibbosus (Chevreux, 1888)	+	+	+		I-III	Ss	
Deflexilodes griseus (Della Valle, 1893)	+	+	+	+	II-III	Ss	
Deflexilodes subnudus (Norman, 1889)		+	+	Mutlu, 2015	I-V	Ss	
Kroyera carinata Spence Bate, 1857		+	+		II-III	Ss	*Monoculodes carinatus* (Bate, 1857)
Monoculodes packardi Boeck, 1871				Bayhan et al., 2015	?	?	
Synchelidium haplocheles (Grube, 1864)	Mülayim, 2021	+	+	+	II	Ss	
Synchelidium intermedium G.O. Sars, 1892			+		I-III	Ss	
Synchelidium longidigitatum Ruffo, 1947		+	+		II-IV	Ss	
Synchelidium maculatum Stebbing, 1906	+	Mülayim, 2021	+	+	I-III	Ss	
Perioculodes aequimanus (Kossman, 1880)		+	+	+	I-IV	Ss	
Perioculodes longimanus (Spence Bate & Westwood, 1868)	+	+	+	+	I-III	Ss	

Table. (Continued.)

Pontocrates arenarius (Spence Bate, 1858)	Mülayim, 2021	+	+	+	I-II	Ss	
?*Pontocrates norvegicus* (Boeck, 1861)			Kocataş and Katağan, 1978		I-II	Ss	
Westwoodilla caecula (Spence Bate, 1857)		Mülayim, 2021	+		V	Ss	
Westwoodilla rectirostris (Della Valle, 1893)		+	+	+	II-III	Ss	
Oxycephalidae (Family)							
Leptocotis tenuirostris (Claus, 1871)			+		II	P	
Oxycephalus piscator H. Milne Edwards, 1830				Bakır and Aker, 2022	VII	P	
Streetsia challengeri Stebbing, 1888				Bakır and Aker, 2022	VII	P	
Paraphronimidae (Family)							
Paraphronima crassipes Claus, 1879			+		III	P	
Parascelidae (Family)							
Parascelus edwardsi Claus, 1879			+		II-IV	P	*Parascelus typhoides* Claus, 1879
Pardaliscidae (Family)							
Halice abyssi Boeck, 1871			+		III	Ss	
Halicoides walkeri (Ledoyer, 1973)				Mutlu, 2020	?	Ss	
Pardaliscella boecki (Malm, 1870)			+		III-VII	Ss	
Phliantidae (Family)							
Pereionotus testudo (Montagu, 1808)			+	+	I-II	Ss	
Photidae (Family)							
Gammaropsis crenulata Krapp-Schickel & Myers, 1979				+	I-II	Hs, Ss	
Gammaropsis dentata Chevreux, 1900			+		I-III	Hs, Ss	
Gammaropsis maculata (Johnston, 1828)		+	+	+	I-III	Hs, Ss	
Gammaropsis ostroumowi Sowinski, 1898		+	+	+	I-II	Hs, Ss	
Gammaropsis palmata (Stebbing & Robertson, 1891)	Mülayim, 2021	+	+	+	I-II	Hs, Ss	
Gammaropsis sophiae (Boeck, 1861)		Mülayim, 2021		+	II-III	Hs, Ss	
**Latigammaropsis togoensis* (Schellenberg, 1925)				+	I-II	Hs, Ss	*Gammaropsis togoensis* (Schellenberg, 1925)
Megamphopus brevidactylus Myers, 1976		+	+		IV	Ss	
Megamphopus cornutus Norman, 1869	+	Bakır et al., 2016	+		II-IV	Ss	
Megamphopus katagani Bakir, Sezgin & Myers, 2011		+			I-II	Ss	
Photis longicaudata (Spence Bate & Westwood, 1862)	+	+	+	+	II	Ss	
Phoxocephalidae (Family)							
Harpinia agna Karaman, 1987		+	+		I-III	Ss	

Table. (Continued.)

Harpinia ala Karaman, 1987				Mutlu, 2015	?	Ss	
Harpinia antennaria Meinert, 1890			+	+	I-III	Ss	
Harpinia crenulata (Boeck, 1871)	Grintsov, 2022	Mülayim et al., 2015b	+	+	I-III	Ss	
Harpinia dellavallei Chevreux, 1910	Bacescu and Margineanu, 1959	+	+	+	I-III	Ss	
Harpinia cf. *laevis* G.O. Sars, 1891				Mutlu, 2020	?	Ss	
Harpinia pectinata G.O. Sars, 1891		Bakır et al., 2016	+	+	I-III	Ss	
Harpinia truncata Sars, 1891		Mülayim, 2021	+	+	I-III	Ss	
Metaphoxus fultoni (Scott, 1890)		Mülayim et al., 2015b	+	+	II-IV	Ss	
Metaphoxus gruneri Karaman, 1986			+	+	I-II	Ss	
Metaphoxus simplex (Spence Bate, 1858)		+	+	+	I-IV	Ss	
Paraphoxus oculatus (G.O. Sars, 1879)		+	+	+	II-IV	Ss	
Phoxocephalus aquosus Karaman, 1985		+	+		I-II	Ss	
Phronimidae (Family)							
Phronima atlantica Guérin-Méneville, 1836			+		III	P	
Phronima stebbingi Vosseler, 1901			+		III	P	
Phrosinidae (Family)							
Anchylomera blossevillei H. Milne Edwards, 1830			+	Bayhan et al., 2015	II-III	P	
Phrosina semilunata Risso, 1822			+	Bayhan et al., 2015	III-IV	P	
Primno latreillei Stebbing, 1888			Aydın-Uncumusaoğlu and Özel, 2013	Bakır and Aker, 2022	III	P	
Primno macropa Guérin-Méneville, 1836			+		III	P	
Platyscelidae (Family)							
Platyscelus ovoides (Risso, 1816)			+	Bakır and Aker, 2022	III-VII	P	
Platyscelus serratulus Stebbing, 1888			+	Bakır and Aker, 2022	III-IV	P	
Tetrathyrus forcipatus Claus, 1879			+		II-IV	P	
Podoceridae (Family)							
Laetmatophilus ledoyeri Ruffo, 1986			+		II-IV	Ss	
Laetmatophilus tuberculatus Bruzelius, 1859		Sowinsky, 1897			I-II	Ss	
Podocerus chelonophilus (Chevreux & Guerne, 1888)				+	I-V	CT	
Podocerus variegatus Leach, 1814		+	+	+	I	Hs	
Pontogammaridae (Family)							
Pontogammarus aestuarius (Derzhavin, 1924)	Grintsov, 2022				?	?	
Pontogammarus maeoticus (Sovinskij, 1894)	+				I	Ss	
Pontogammarus robustoides (G. O. Sars, 1894)	Grintsov, 2022				?	?	
Turcogammarus turcarum (Stock, 1974)	Grintsov, 2022				?	?	
Pontogeneiidae (Family)							
Eusiroides dellavallei Chevreux, 1899			+		I	Hs, Ss	

Table. (Continued.)

Scopelocheirus hopei (A. Costa in Hope, 1851)		Mülayim et al., 2022	+		II-VII	Ss	
Stegocephalidae (Family)							
Stegocephaloides christianiensis Boeck, 1871			+		II	Ss	
Stenothoidae (Family)							
Stenothoe antennulariae Della Valle, 1893			+		II-III	P	
Stenothoe bosphorana Sowinsky, 1898		+	+		II-V	Ss	
Stenothoe cavimana Chevreux, 1908			+		III	Ss	
Stenothoe dollfusi Chevreux, 1887			+		I	Hs	
Stenothoe eduardi Krapp-Schieckel, 1975			+		I-III	Hs, Ss	
Stenothoe elachista Krapp Schickel, 1975		+	+	+	I-II	Ss	
Stenothoe gallensis Walker, 1904			+	+	I	Hs	
Stenothoe marina (Spence Bate, 1857)	+	+	+	Mutlu, 2015	III	Ss	
Stenothoe monoculoides (Montagu, 181)	+	+	+	+	I-II	Hs, Ss	
Stenothoe tergestina (Nebeski, 1881)		Kalkan et al., 2006	+	+	I-II	Hs, Ss	
Stenothoe valida Dana, 1852			+	+	I-II	Hs	
?*Proboloides gregaria* (G.O. Sars, 1883)			Kocataş and Katağan, 1978		II-III	Ss	
Talitridae (Family)							
Cryptorchestia garbinii Ruffo, Tarocco & Latella, 2014	+	+			I	Ss	
Cryptorchestia kosswigi (Ruffo, 1949)				+	I	Ss	
Deshayesorchestia deshayesi (Audouin, 1826)	+			+	I	Ss	
Orchestia gammarellus (Pallas, 1766)	+	+	+	+	II-III	Ss	
Orchestia mediterranea A. Costa, 1853	+	+	+		I-II	Hs	
Orchestia montagui Audouin, 1826	+	+	+		I	Ss	
*Platorchestia platensis (*Krøyer, 1845)	+	+	+	+	I	Ss	
Speziorchestia stephenseni (Cecchini, 1928)	+	Bakır et al., 2016	+	+	II	Ss	*Orchestia stephenseni* Cecchini, 1928
Talitrus saltator (Montagu, 1808)	+	Okuş, 1989	+	+	I	Ss	
Tryphosidae (Family)							
Hippomedon bidentatus Chevreux, 1903			+	+	IV	Ss	
Hippomedon massiliensis Bellan-Santini, 1965		+	+	+	II-III	Ss	
Hippomedon oculatus Chevreux & Fage, 1925				Mutlu, 2015	?	Ss	
Lepidepecreum longicorne (Spence Bate & Westwood, 1861)			+		III	Ss	*Lepidepecreum longicornis* (Bate & Westwood, 1862)
Lysianella dellavallei Stebbing, 1906			+		I-II	Ss	
Orchomene grimaldii Chevreux, 1890		+	+	Mutlu, 2015	I-III	Ss	
Orchomene humilis (A. Costa, 1853)	+	+	+	+	I-II	Ss	
Orchomene massiliensis Ledoyer, 1977			+		III-V	Ss	
Orchomene similis Chevreux, 1912			+		I-II	Ss	
Paracentromedon crenulatus (Chevreux, 1900)		+	+		III-VII	Ss	
Paralysianopsis parthenopeia (Ruffo, 1971)		Bakır et al., 2016			II	Hs	
Tryphosa nana (Krøyer, 1846)		+	+	Mutlu, 2015	II	Ss	

Table. (Continued.)

Tryphosella longidactyla Ruffo, 1985			+	+	III-IV	Ss	
Tryphosella simillima Ruffo, 1985		Bakır et al., 2016					
Tryphosites longipes (Spence Bate & Westwood, 1861)			+		I-VII	Ss	
Uristidae (Family)							
Ichnopus spinicornis Boeck, 1861			+		III	Ss	
Ichnopus taurus A. Costa, 1853			+		III-IV	Ss	
Tmetonyx dilatata (Chevreux, 1903)			Doğan et al., 2005		I-II	Ss	*Tryphosella dilatata* (Chevreux, 1903)
Urothoidae (Family)							
Urothoe corsica Bellan-Santini, 1965			+		V-VII	Ss	
Urothoe elegans (Bate, 1857)		+	+	+	I-III	Ss	
Urothoe grimaldii Chevreux, 1895			+	+	I-II	Ss	
Urothoe intermedia Bellan-Santini & Ruffo, 1986		+	+	+	I	Ss	
Urothoe cf. *marina* (Spence Bate, 1857)				Mutlu, 2020	?	Ss	
Urothoe poseidonis Reibish, 1905		Tekeli and Aslan, 2023	+	+	II	Ss	
Urothoe pulchella (A. Costa, 1853)		+	+		I	Ss	
Vibiliidae (Family)							
Vibilia propinqua Stebbing, 1888				Bakır and Aker, 2022	VII	P	
ISOPODA (Order)							
Aegidae (Family)							
Rocinela danmoniensis Leach, 1818			Yeler, 1998		I	Pz	
Rocinela dumerilii (Lucas, 1849)		Öktener et al., 2020a	+	+	I-IV	Pz	
Rocinela ophthalmica H. Milne Edwards, 1840		+			II	Ss	
Anthuridae (Family)							
Anthura gracilis (Montagu, 1808)		Okuş, 1989	+	+	I	Hs	
Apanthura corsica Amar, 1953			+	Kırkım et al., 2017	I	Ss	
Cyathura carinata (Krøyer, 1847)	+	Mülayim, 2021	+	+	I-III	Ss	
Arcturidae (Family)							
Astacilla dilatata G. O. Sars, 1883		Okuş, 1989			III	Hs	
Astacilla longicornis (Sowerby, 1806)			+	Kırkım et al., 2017	I	Ss	
Astacilla mediterranea Koehler, 1911			Ozgen et al., 2019		I	Hs	
Bopyridae (Family)							
Anuropodione amphiandra (Codreanu, Codreanu & Pike, 1966)			Boyko et al., 2018		III-V	Pz	
Athelges paguri (Rathke, 1843)		+			I-III	Pz	
Bopyrus crangorum (Fabricius, 1798)		Tekeli and Aslan, 2023			I	Pz	
Bopyrus squillarum Latreillei, 1804		+	+	Kırkım et al., 2017	I-III	Pz	
Epipenaeon ingens ingens Nobili, 1906				Bourdon, 1968	II	Pz	

Table. (Continued.)

Pleurocrypta galateae Hesse, 1865			+		I-II	Pz	
Pleurocrypta longibranchiata (Bate & Westwood, 1867)			+		I-II	Pz	
Pleurocrypta microbranchiata G.O. Sars, 1898			+		I-II	Pz	
Pleurocrypta porcellanaelongicornis Hesse, 1876			+		I-II	Pz	
Cirolanidae (Family)							
Cirolana cranchii Leach, 1818		Mülayim, 2021	+	Kırkım et al., 2017	I-III	Ss	
Eurydice affinis Hansen, 1905		Tekeli and Aslan, 2023	+	Kırkım et al., 2017	I-II	Hs, Ss	
Eurydice inermis Hansen, 1890			+		I-II	Ss	
Eurydice pontica (Czerniavsky, 1868)	+				I	Hs	
Eurydice pulchra Leach, 1816	+	Mülayim, 2021	+	+	IV	Ss	
Eurydice racovitzai Bacescu, 1949	Kurt-Şahin et al., 2017				I	Ss	
Eurydice spinigera Hansen, 1890	Kırkım et al., 2014	+	+	+	I-II	Ss, P	
Eurydice truncata (Norman, 1868)				Mutlu, 2015	?	Ss	
Natatolana hirtipes (H.Milne Edwards, 1840)		+			I-II	Pz	
Natatolana neglecta (Hansen, 1890)		Mülayim et al., 2022	+	Çınar et al., 2017	I-IV	Hs, Ss	
Cymothoidae (Family)							
Anilocra frontalis H.Milne Edwards, 1840	+	Tuncer et al., 2011		+	II-IV	Pz	
Anilocra physodes (Linnaeus, 1758)		+	+	+	II-IV	Pz	
Ceratothoa capri (Trilles, 1964)			+	+	I-IV	Pz	
Ceratothoa italica Schiödte & Meinert, 1883		+	+		I-IV	Pz	
Ceratothoa oestroides (Risso, 1827)		+	+	+	I-IV	Pz	
Ceratothoa oxyrrhynchaena Koelbel, 1879			Öktener et al., 2018b		I-II	Pz	
Ceratothoa parallela (Otto, 1828)		+	+	+	I-IV	Pz	
Ceratothoa steindachneri Koelbel, 1879			Öktener et al., 2009	Öktener et al., 2007	?	Pz	
?Cymothoa oestrum (Linnaeus, 1758)		Demir, 1952			?	Pz	
Elthusa poutassouiensis (Penso, 1939)			Öktener et al., 2018a		?	Pz	
Elthusa sinuata (Koelbel, 1879)	Öktener et al., 2009	Öktener et al., 2018c	Öktener et al., 2009		?	Pz	
Emetha audouini (H. Milne Edwards, 1840)		+	+		II-IV	Pz	
Livoneca pomatoi (Gaillat Airoldi, 1940)			+		I-IV	Pz	
Livoneca punctata (Uljanin, 1872)	+	+			I-IV	Pz	
Mothocya belonae Bruce, 1986	+				I-IV	Pz	
Mothocya epimerica A. Costa in Hope, 1851	+	Öktener et al., 2014			I-IV	Pz	
Mothocya taurica (Czerniavsky, 1868)	Öktener et al., 2010	Öktener et al., 2009	Öktener et al., 2009		?	Pz	
Nerocila acuminata Schiödte & Meinert, 1881	Er and Kayış, 2015				?	Pz	
Nerocila bivittata (Risso,1816)	+	+	+	+	I-IV	Pz	

Table. (Continued.)

Nerocila milesensis Öktener, Tuncer & Trilles, 2020			Öktener et al., 2020b	Öktener et al., 2020a	II-III	Pz	
Nerocila orbignyi (Guérin, 1832)	+	Öktener and Trilles, 2021	+	+	I-IV	Pz	
Gnathiidae (Family)							
Elaphognathia monodi (Gurjanova, 1936)	Bacescu and Margineanu, 1959				III	Ss	
Gnathia dentata (G.O. Sars, 1872)		Mülayim, 2020		+	II-III	Ss	
Gnathia inopinata Monod, 1925			+		I	Ss	
Gnathia maxillaris (Montagu,1804)	+	+	+	+	I	Hs	
Gnathia oxyuraea (Lilljeborg, 1855)	+	+	Ozaydinli and Bizsel, 2020	Mutlu, 2015	I-II	Hs, Ss	
Gnathia phallonajopsis Monod, 1925			+		II	Ss	
Gnathia vorax (Lucas, 1849)	+	+	+	Kırkım et al., 2017	I-IV	Ss	
Paragnathia formica (Hesse, 1864)	+	+	+	Koyuncu et al., 2013	I-II	Pz	
Hognathidae (Family)							
Cleantis prismatica (Risso, 1827)		+	+	Kırkım et al., 2017	I	Hs	
Hyssuridae							
Kupellonura mediterranea Barnard, 1925		Mülayim, 2021			II-III	Ss	
Idoteidae (Family)							
Idotea balthica (Pallas, 1772)	+	+	+	+	I-II	Hs, Ss, P	
Idotea linearis (Linnaeus, 1767)		Okuş, 1989			?	?	
Idotea metallica Bosc, 1801	+	+	+	Bakır and Aker, 2022	II-VII	P	
Idotea ostroumovi Sowinsky, 1895	Sezgin et al., 2017				I	Hs	
Idotea pelagica Leach, 1816	+	Kalkan et al., 2007			I	P	
Stenosoma appendiculatum (Risso, 1826)			+		I	Hs	
Stenosoma capito (Rathke, 1836)	+	+	+	Kırkım et al., 2017	I-III	Hs, Ss	
Stenosoma lancifer (Miers, 1881)		Ostroumoff, 1896			?	?	*Idotea appendiculata* M. Edw.
Synischia hectica (Pallas, 1772)		+	+	Kırkım et al., 2017	I	Hs	
Janiridae (Family)							
Carpias stebbingi (Monod, 1933)		+	+	Kırkım et al., 2017	I-II	Hs, Ss	
Ianiropsis breviremis (G.O. Sars, 1883)		Çinar et al., 2020	+	+	I-II	Ss	
Jaera (*Jaera*) *bocqueti* Veuille & Kocatas, 1979			+		I	Ss	
Jaera (*Jaera*) *italica* Kesselyák, 1938	+	Mülayim, 2020	+	+	I	Hs	
Jaera (*Jaera*) *nordmanni* (Rathke, 1836)	+	+	+	Kırkım et al., 2017	I	Hs	

Table. (Continued.)

Jaera (*Metajaera*) *hopeana* Costa, 1853	+		+	Kırkım et al., 2017	I	Ss	
Janira maculosa Leach, 1814	+	+	+	Kırkım et al., 2017	I-III	Hs, Ss	
Joeropsididae (Family)							
Joeropsis brevicornis brevicornis Koehler, 1885		+	+	Mutlu and Ergev, 2013	II	Hs, Ss	
Joeropsis brevicornis littoralis Amar, 1949	Kırkım et al., 2014	+	+	Kırkım et al., 2017	I-II	Hs, Ss	
Ligiidae (Family)							
Ligia italica Fabricius, 1798	+	+	+	+	I	Hs	
Limnoriidae (Family)							
Limnoria lignorum (Rathke, 1799)		+		Kırkım et al., 2017	I-II	Hs,W	
Limnoria tripunctata Menzies, 1951			+	+	I-II	Hs,W	
Limnoria tuberculata Sowinsky, 1884	+	+	+		I-II	Hs,W	
Munnidae (Family)							
Uromunna petiti (Amar, 1948)		+	+		I	Ss	
Munnopsidae (Family)							
Munnopsurus atlanticus (Bonnier, 1896)				Bayhan et al., 2015	?	?	
Paranthuridae (Family)							
Paranthura costana Bate & Westwood, 1868			+	Kırkım et al., 2017	I-II	Ss	
Paranthura japonica Richardson, 1909		Dağlı et al., 2024			I-II	Ss	
Paranthura nigropunctata (Lucas, 1846)			+	Kırkım et al., 2017	I-II	Ss	
Sphaeromatidae (Family)							
Cymodoce emarginata Leach, 1818		+	+	Kırkım et al., 2017	I-II	Hs	
Cymodoce erythraea euxinica Bacescu, 1958	Bacescu and Margineanu, 1959				II	Hs	
Cymodoce hanseni Dumay, 1972			+	Kırkım et al., 2017	I-II	Ss	
Cymodoce spinosa (Risso, 1816)		Mülayim, 2020	+	Kırkım et al., 2017	I-II	Hs, Ss	
Cymodoce tattersalli Torelli, 1929			Ostroumoff, 1894		I-II	Ss	
Cymodoce truncata Leach, 1814		Mülayim, 2021	+	Kırkım et al., 2017	I-II	Hs, Ss	
Cymodoce tuberculata A. Costa in Hope, 1851		+	+	Kırkım et al., 2017	I-II	Hs, Ss	
*Dynamene bicolor (*Rathke, 1836)	Kiseleva and Mikhailova, 1992	+	+	Kırkım et al., 2017	I-II	Hs, Ss	*Dynamene torelliae* Holdich,1968; *Dynamene bidentata* Torelli (1930)
Dynamene bidentata (Adams, 1800)	Kurt-Şahin et al., 2017	+	+		I	Ss	

Table. (Continued.)

Dynamene bifida Torelli, 1930		Mülayim, 2020	+	Kırkım et al., 2017	I	Ss	
Dynamene edwardsi (Lucas, 1849)		Çinar et al., 2020	+	Kırkım et al., 2017	I-II	Hs, Ss	
Dynamene magnitorata Holdich, 1968		Çinar et al., 2020	+	Kırkım et al., 2017	I-II	Hs, Ss	
Ischyromene lacazei Racovitza, 1908			+	Kırkım et al., 2017	I	Ss	
Lekanesphaera hookeri (Leach, 1814)	+	+	+	+	I	Ss	*Exosphaeroma pulchellum* Colosi, 1921
Lekanesphaera monodi (Arcangeli, 1934)	+	Hisli et al., 2022	+	Kırkım et al., 2017	I	Ss	
**Paracerceis sculpta* (Holmes, 1904)			Dağlı et al., 2024	Ulman et al., 2017	I	Hs, Ss	
**Paradella dianae* (Menzies, 1962)			+	Kırkım et al., 2015	I	Ss	
?*Sphaeroma granulata* M. Edw.		Ostroumoff, 1894			II	Ss	
Sphaeroma serratum (J. C. Fabricius, 1787)	+	+	+	+	I	Hs, Ss	
**Sphaeroma walkeri* Stebbing, 1905			+	Kırkım et al., 2017	I-II	Ss	
TANAIDACEA (Order)							
Akanthophoreidae (Family)							
Akanthophoreus gracilis (Krøyer, 1842)			Ozaydinli and Bizsel, 2020		II	Ss	
Apseudidae (Family)							
Apseudes robustus Sars, 1882			+		I	Hs	*Apseudopsis robustus* (G.O. Sars, 1882)
Apseudes talpa (Montagu, 1808)				Mutlu, 2015	?	Ss	
Apseudopsis acutifrons (Sars, 1882)	+	+	+		II-IV	Ss	
Apseudopsis latreillii (Milne Edwards, 1828)	+	+	+	+	I-II	Hs, Ss	
Apseudopsis mediterraneus (Bacescu, 1961)				Mutlu, 2015	?	Ss	
Apseudopsis minimus (Gutu, 2002)			Ozgen et al., 2019		I	Hs	
Apseudopsis ostroumovi Bacescu & Carausu, 1947	Bacescu and Margineanu, 1959				II	Ss	
Paradoxapseudes intermedius (Hansen, 1895)		+	+		I-II	Hs, Ss	
Leptocheliidae (Family)							
Chondrochelia savignyi (Kroyer, 1842)	+	+	+	+	I-III	Hs, Ss	*Lepchelia dubia* (Kroyer, 1842); *Leptochelia savignyi* (Kroyer, 1842)
Heterotanais oerstedii (Krøyer, 1842)			+		I	Ss	
Leptochelia mergellinae Smith, 1906	Bacescu, 1960		+		I	Hs	
Pseudoleptochelia anomala (Sars, 1882)			+		I	Hs	

Table. (Continued.)

Leptognathiidae (Family)							
?*Leptognathia propontiaca* (Ostroumoff, 1896)		Ostroumoff, 1896			IV	Ss	
Paratanaoidea incertae sedis (Family)							
Pseudoparatanais batei (Sars, 1882)			+		I	Hs	
Pseudotanaidae (Family)							
Pseudotanais borceai Bacescu, 1960	Bacescu and Margineanu, 1959				III	Ss	
Tanaellidae (Family)							
Araphura brevimanus (Lilljeborg, 1864)			Ozaydinli and Bizsel, 2020		II	Ss	
Araphura filiformis (Lilljeborg, 1864)		Altınsaçlı et al., 2017			I	Ss	*Tanais filiformis* Lilljeborg, 1864; *Leptognathia filiformis* (Lilljeborg, 1864)
Tanaididae (Family)							
Hexapleomera robusta (Moore, 1894)			+		I	Hs	
Tanais dulongii (Audouin, 1826)	+	+	+	Özgür, 2004	I	Hs, Ss	
Zeuxo turkensis Larsen, 2014			Larsen, 2014		I	Hs	
Tanaissuidae (Family)							
Tanaissus lilljeborgi (Stebbing, 1891)				Mutlu, 2015	?	Ss	
CUMACEA (Order)							
Bodotriidae (Family)							
Bodotria arenosa mediterranea (Steuer, 1938)	+	+	+	Mutlu, 2015	I,II	P, Ss	
Bodotria gibba (Sars, 1878)				Mutlu, 2020	?	Ss	
Bodotria pulchella (Sars, 1878)			+	+	I-II	Hs, Ss,P	
Bodotria parvui Petrescu, 2008			+		I	?	
Bodotria scorpioides (Montagu, 1804)	Kurt-Şahin et al., 2017	+	+		I-IV	Hs, Ss	
Cumopsis goodsir (Van Beneden, 1861)	Kurt-Şahin et al., 2017	+	+	+	I	Ss	
Eocuma ferox (Fischer, 1872)			+		I-II	Ss, P	
**Eocuma sarsii* (Kossmann, 1880)			+		II	Ss	
Iphinoe douniae Ledoyer, 1965		+	+	+	I-II	Ss	
Iphinoe elisae Băcescu, 1950	Bacescu and Margineanu, 1959	+		Mutlu, 2020	II-III	Ss	
Iphinoe maeotica Sowinskyi, 1893	+	+		Mutlu, 2015	I-II	Ss	
Iphinoe rhodaniensis Ledoyer,1965		+			II	Ss	
Iphinoe serrata Norman, 1867	Kurt-Şahin et al., 2017	Mülayim, 2021	+	Mutlu, 2015	I-III	Ss	
Iphinoe tenella Sars, 1878	+	+	+	+	I-III	Ss, P	

Table. (Continued.)

Iphinoe trispinosa (Goodsir, 1843)	Kurt-Şahin et al., 2017	Mülayim, 2020			II	Ss	
Vaunthompsonia cristata Bate, 1858		+	+		I-V	Ss, P	
Diastylidae (Family)							
Diastylis cornuta (Boeck, 1864)			+		II-VII	Ss	
Diastylis neapolitana Sars, 1879			+		I-II	Ss, P	
Diastylis rugosa Sars, 1865		+	+	+	I-III	Hs, Ss, P	
Diastylis tumida (Liljeborg, 1855)				Mutlu, 2020	?	Ss	
Diastyloides bacescoi Fage, 1940			+	+	I-III	Ss	
Diastyloides bosphorica (Băcescu, 1982)		+			II	Ss	*Diastylopsis bosphorica* Băcescu, 1982
Diastyloides serratus (Sars G.O., 1865)		+	+	Bayhan et al., 2015	II-III	Ss	
Ekleptostylis walkeri (Calman, 1907)			+		III-VII	Ss	
Leuconidae (Family)							
Eudorella truncatula (Bate, 1856)	+	+	+	+	I-III	Ss	
Leucon (Epileucon) longirostris Sars, 1871				Bayhan et al., 2015	?	?	
Leucon (*Leucon*) *mediterraneus* Sars, 1878				+	?	Ss	
Leucon (Macrauloleucon) siphonatus Calman, 1905		Mülayim, 2021			III	Ss	
Nannastacidae (Family)							
Campylaspis glabra Sars, 1878		+	+	+	III	Ss	
Campylaspis legendrei Fage, 1951			+	Mutlu, 2015	I-III	Ss	
Campylaspis macrophthalma Sars, 1878		+	+		II-III	Ss	
Campylaspis sulcata Sars, 1870				Mutlu, 2020	?	Ss	
?*Cumella armatura* Mutlu, 1990	Öztürk, 1998				?	?	
Cumella (*Cumella*) *limicola* Sars, 1879	Bacescu and Margineanu, 1959	+	+	+	I-II	Hs, Ss, P	
Cumella (*Cumella*) *limicoloides* Bacescu & Muradian, 1975	+				II	Ss	
Cumella (*Cumella*) *pygmaea* G.O. Sars, 1865	+	Mülayim, 2021	+	Mutlu, 2015	I-II	P, Ss	
Nannastacus longirostris G.O. Sars, 1879		+	+		I-III	Ss, P	
Nannastacus turcicus Băcescu, 1982		+			II	Ss	
Nannastacus unguiculatus (Bate, 1859)	+	+	+		I-III	Hs, Ss, P	
Procampylaspis bonnieri Calman, 1906				Bayhan et al., 2015	?	?	
Pseudocumatidae (Family)							
Monopseudocuma gilsoni (Bacescu, 1950)				Mutlu, 2020	?	Ss	
Pseudocuma (*Pseudocuma*) *longicorne* (Bate, 1858)	+	+	+	+	I-III	Hs, Ss, P	
Pseudocuma (*Pseudocuma*) *simile* G.O. Sars, 1900			+		I	Ss, P	
EUPHAUSIACEA (Order)							

Table. (Continued.)

Euphausiidae (Family)							
Euphausia brevis Hansen, 1905				+	I-III	P	
Euphausia hemigibba Hansen, 1910				+	I-III	P	
Euphausia krohnii (Brandt, 1851)			Güreşen and Gönülal, 2018	+	I-III	P	
Euphausia tenera Hansen, 1905				+	I-III	P	
Hansarsia atlantica (Hansen, 1916)				Gönülal, 2022	I-IV	P	*Nematoscelis atlantica* Hansen, 1916
Hansarsia megalops (G.O. Sars, 1883)				+	I-II	P	*Nematoscelis megalops* G.O. Sars, 1883
Meganyctiphanes norvegica (M. Sars, 1857)		+			I-V	P	
Stylocheiron abbreviatum G.O. Sars, 1883				+	I-III	P	
Stylocheiron affine Hansen, 1910				+	I-III	P	
Stylocheiron longicorne G.O. Sars, 1883				Gönülal, 2022	I-IV	P	
Thysanopoda aequalis Hansen, 1905				+	I-III	P	
Nyctiphanes couchii (Bell, 1853)				Bayhan et al., 2015	I-III	P	
DECAPODA (Order)							
Acanthephyridae (Family)							
Acanthephyra eximia Smith, 1884				Deval and Froglia, 2016	V-VII	P	
Acanthephyra pelagica (Risso, 1816)			+	+	V-VII	P	
Acanthephyra purpurea A. Milne-Edwards, 1881			Katağan et al., 1988		V-VII	Ss	
Albuneidae (Family)							
Albunea carabus (Linnaeus, 1758)				+	II	Ss	
Alpheidae (Family)							
Alpheus dentipes Guérin, 1832	+	Colombo, 1885	+	+	I-III	Hs, Ss	
Alpheus glaber (Olivi, 1792)		+	+	+	I-III	Hs, Ss	
**Alpheus inopinatus* Holthuis & Gottlieb, 1958				Kocataş, 1981	I-III	Hs, Ss	
**Alpheus lobidens* De Haan, 1849			Bakır et al., 2015	Geldiay, 1969	I	Ss	*Alpheus crassimanus* Heller, 1862
Alpheus macrocheles (Hailstone, 1835)		+	+	+	I-V	Hs, Ss	
**Alpheus migrans* Lewinshon & Holthuis, 1978				+	II	Ss	
**Alpheus rapacida* De Man, 1908			+	+	I-III	Hs, Ss	
Athanas amazone Holthuis, 1951			+		I-II	Ss	
Athanas nitescens (Leach, 1814)	+	Colombo, 1885	+	+	I-III	Hs, Ss	
Automate branchialis Holthuis & Gottlieb, 1958			+		II	Ss	
Salmoneus kekovae Grippa, 2004				+	I	Ss	
Synalpheus africanus Crosnier & Forest, 1965			+	+	I	Hs	*Synalpheus tumidomanus africanus* Crosnier & Forest, 1965b
Synalpheus gambarelloides (Nardo, 1847)			+	+	I-VII	Hs, Ss	
Aristeidae (Family)							

Table. (Continued.)

Aristaeomorpha foliacea (Risso,1827)			+	+	III-VII	Ss	
Aristeus antennatus (Risso, 1816)			+	+	VI-VII	Ss	
Atelecyclidae (Family)							
Atelecyclus rotundatus (Olivi, 1792)		+	+		II-III	Ss	
Axiidae (Family)							
Calocaris macandreae Bell, 1846		+	+		VI-VII	Ss	
Benthesicymidae (Family)							
Amalopenaeus elegans Smith, 1882		+	+	+	VII	P	*Gennadas elegans* (Smith, 1882)
Calappidae (Family)							
**Calappa hepatica* (Linnaeus, 1758)				+	III	Ss	
Calappa granulata (Linnaeus, 1758)		+	Nalbantoğlu, 1958	+	I-V	Ss	
Callianassidae (Family)							
Callianassa subterranea (Montagu, 1808)		Bakır and Ateş, 2018	+	+	II	Ss	
Gilvossius candidus (Olivi, 1792)	+				I	Hs	*Pestarella candida* (Olivi, 1792)
Gilvossius tyrrhenus (Petagna, 1792)		Erkan Yurdabak, 2004	+	+	I-II	Hs, Ss	*Callianassa* (*Callianassa*) *tyrrhena* (Petagna, 1792); *Pestarella tyrrhena* (Petagna, 1792)
Necallianassa truncata (Giard & Bonnier, 1890)	Kurt-Şahin et al., 2017		+	+	I-III	Hs, Ss	
Cancridae (Family)							
Cancer pagurus Linnaeus, 1758				Terbıyık-Kurt and Yılmaz-Zenginer, 2016	?	?	
Carcinus aestuarii Nardo, 1847	Nikitin, 1948	Ostroumoff, 1894	Mater and Kocataş, 1967	+	I-II	Hs, Ss	
Carcinidae (Family)							
Portumnus latipes (Pennant, 1777)	+	+	+	+	I-II	Hs, Ss	
Portumnus lysianassa (Herbst, 1801)			+		I-III	Ss	
Xaiva biguttata (Risso, 1816)			+	+	I	Ss	
Crangonidae (Family)							
Aegaeon cataphractus (Olivi, 1792)		+	+	+	II	Hs	
Aegaeon lacazei (Gourret, 1887)	+	+	+	+	II-VI	Ss	
Crangon crangon (Linnaeus, 1758)	+	+	+	+	I-IV	Ss	*Crangon maculosus* Rathke, 1836
Philocheras bispinosus bispinosus (Hailstone, 1835)		Ateş et al., 2007	+	+	I-II	Ss	
Philocheras fasciatus (Risso, 1816)	+	+	+		I	Ss	
Philocheras monacanthus (Holthuis, 1961)			+	+	I-II	Ss	

Table. (Continued.)

Philocheras sculptus (Bell, 1847)		Ateş et al., 2007	+		I-III	Hs, Ss	
Philocheras trispinosus (Hailstone in Hailstone & Westwood, 1835)	+	+	+	+	I-II	Ss	
Pontophilus spinosus (Leach, 1816)			+		I-II	Ss	
Ctenochelidae (Family)							
Gourretia denticulata (Lutze, 1937)		Bakır and Ateş, 2018	+	+	II	Ss	
Cymonomidae (Family)							
Cymonomus granulatus (Norman *in* Thomson, 1873)				Bayhan et al., 2015	VI	?	
Dairidae (Family)							
**Daira perlata* (Herbst, 1790)				+	I	Hs, Ss	
Diogenidae (Family)							
Calcinus tubularis (Linnaeus, 1767)		+	+	+	I-II	Hs	
Clibanarius erythropus (Latreille, 1818)	Nikitin, 1948	+	+	+	I-II	Hs, Ss	*Clibanarius misanthropus* (Risso, 1827)
Dardanus arrosor (Herbst, 1796)		+	+	+	I-VII	Hs, Ss	
Dardanus calidus (Risso, 1827)			+	+	II	Ss	
Diogenes pugilator (Roux, 1829)	Nikitin, 1948	+	+	+	I-II	Hs, Ss	
Paguristes eremita (Linnaeus, 1767)		+	+	+	I-III	Hs, Ss	
Paguristes syrtensis de Saint Laurent, 1971		+	+	+	I-III	Hs	
Dorippidae (Family)							
Medorippe lanata (Linnaeus, 1767)		+	+	+	II-VI	Ss	
Dromiidae (Family)							
Dromia personata (Linnaeus, 1758)		+	+	+	I-III	Hs, Ss	
Epialtidae (Family)							
Acanthonyx lunulatus (Risso, 1816)		+	+	+	I	Hs, Ss	
Herbstia condyliata (Fabricius, 1787)		+	+		I-II	Ss	
Pisa armata (Latreille, 1803)		+	+	+	I-II	Hs, Ss	
Pisa chiragra (Fabricius, 1775)		+	+		II	Ss	*Lissa chiragra* (Fabricius, 1775)
Pisa hirticornis (Herbst, 1804)		+	+		I	Hs	*Pisa corallina* (Risso, 1816)
Pisa muscosa (Linnaeus, 1758)			+	+	I	Hs	
Pisa nodipes Leach, 1815		+	+	+	I-III	Hs, Ss	
Pisa tetraodon (Pennant, 1777)		Ostroumoff, 1894	+	+	I-III	Hs, Ss	
Eriphiidae (Family)							
Eriphia verrucosa (Forskål, 1775)	+	+	+	+	I-II	Hs, Ss	
Ethusidae (Family)							
Ethusa mascarone (Herbst, 1785)		Ateş et al., 2007	+	+	I-III	Hs, Ss	
Eucalliacidae (Family)							
Calliax lobata (de Gaillande & Lagardère, 1966)		+			II	Ss	
Euryplacidae (Family)							
**Eucrate crenata* (De Haan, 1835)			Doğan et al., 2016	+	I-II	Ss	

Table. (Continued.)

Galatheidae (Family)							
Galathea bolivari Zariquiey Álvarez, 1950		Ateş et al., 2007	+	+	I-III	Hs, Ss	
Galathea cenarroi Zariquiey Álvarez, 1968			+		I	Ss	
Galathea dispersa Spence Bate, 1858		+	+	+	II-VII	Ss	
Galathea intermedia Lilljeborg, 1851		+	+	+	I-V	Hs, Ss	
Galathea nexa Embleton, 1836		+	+	+	II-III	Ss	
Galathea squamifera Leach, 1814		+	+	+	I-II	Hs, Ss	
Galathea strigosa (Linnaeus, 1761)		+	+		I-II	Hs, Ss	
Geryonidae (Family)							
Geryon longipes A. Milne-Edwards, 1882		+	+	+	VII	Ss	
Goneplacidae (Family)							
Goneplax rhomboides (Linnaeus, 1758)		+	+	+	I-V	Ss	
Grapsidae (Family)							
Pachygrapsus marmoratus (Fabricius, 1787)	+	+	+	+	I-II	Hs	
Pachygrapsus maurus (Lucas, 1846)				+	I	Hs	
Pachygrapsus transversus (Gibbes, 1850)				+	I	Hs, Ss	
Planes minutus (Linnaeus, 1758)				+	I	?	
Hippolytidae (Family)							
Hippolyte garciarasoi d'Udekem d'Acoz, 1996	+	Ateş et al., 2007	+		VII	P	
Hippolyte holthuisi Zariquiey Álvarez, 1953		+	+		I-II	Ss	
Hippolyte inermis Leach, 1816		+	+	+	I-II	Hs, Ss	
Hippolyte leptocerus (Heller, 1863)	+	+	+	+	I-II	Hs, Ss	*Virbius gracilis* Heller, 1862
Hippolyte leptometrae Ledoyer, 1969			+		I-II	Ss	
Hippolyte varians Leach, 1814			+		I	Hs	
Saron marmoratus (Olivier, 1811)				Ergüden et al., 2018	II	Hs	
Homolidae (Family)							
Homola barbata (Fabricius, 1793)			+	+	?	?	
Inachidae (Family)							
Achaeus cranchii Leach, 1817		+	+	+	I-III	Hs	
Achaeus gracilis (O.G. Costa, 1839)		Ateş et al., 2007	+	+	I-II	Hs, Ss	
Dorhynchus thomsoni Thomson, 1873			+		VII	Ss	
Inachus aguiarii Brito Capello, 1876			+		?	?	
Inachus communissimus Rizza, 1839		Ateş et al., 2007	+	+	I-II	Hs, Ss	
Inachus dorsettensis (Pennant, 1777)		+	+	+	I-III	Hs, Ss	
Inachus leptochirus Leach, 1817		+	+	+	III	Hs	
Inachus parvirostris (Risso, 1816)		Bakır and Ateş, 2018	+		III	Ss	
Inachus phalangium (Fabricius, 1775)		Ďuriš et al., 2013	+		II	Ss	
Inachus thoracicus Roux, 1830		+	+		?	?	
Macropodia czernjawskii (Brandt, 1880)		Demir, 1952	+		I-II	Ss	
Macropodia deflexa Forest, 1978			Ozgen et al., 2019		I	Hs	

Table. (Continued.)

Macropodia linaresi Forest & Zariquiey Álvarez, 1964		Bakır and Ateş, 2018	+	+	I-III	Hs, Ss	
Macropodia longirostris (Fabricius, 1775)	+	Colombo, 1885	+	+	I-III	Hs, Ss	*Stenorhynchus longrostris* (Fabricius, 1775)
Macropodia rostrata (Linnaeus, 1761)	+	Colombo, 1885	+	+	I-V	Hs, Ss	*Stenorhynchus phalangium* (Fabricius, 1775); *Cancer Phalangium* Fabricius, 1775
Macropodia tenuirostris (Leach, 1814)			+	+	I-V	Ss	*Macropodia longipes* (A. Milne-Edwards & Bouvier, 1899)
Laomediidae (Family)							
Jaxea nocturna Nardo, 1847		+	+	+	I-III	Ss	
Latreilliidae (Family)							
Latreillia elegans Roux, 1830			+	Lewinsohn and Holthuis, 1964	II-V	Ss	
Leucosiidae (Family)							
Arcania brevifrons Chen, 1989				Bariche et al., 2020	II	Ss	
**Coleusia signata* (Paulson, 1875)		+	Bilecenoğlu and Çınar, 2021	+	I-II	Hs, Ss	
Ebalia cranchii Leach, 1817		+	+	+	III	Ss	
Ebalia deshayesi Lucas, 1846			+	+	III	Ss	
Ebalia edwardsii O.G. Costa, 1838		+	+		III	Hs	
Ebalia granulosa H. Milne Edwards, 1837			+	Mutlu, 2015	I-IV	Ss	
Ebalia nux A. Milne Edwards, 1883			Katağan et al., 1988	Adensamer, 1898	I-VI	Ss	
Ebalia tuberosa (Pennant, 1777)		+	Kocataş, 1981	+	II-III	Hs, Ss	
Ebalia tumefacta (Montagu, 1808)			+			Ss	
Ilia nucleus (Linnaeus, 1758)		Ostroumoff, 1894	+	+	I-III	Hs, Ss	
**Ixa monodi* Holthuis & Gottlieb, 1956			+	+	I-III	Ss	
**Myra subgranulata* Kossmann, 1877				+	I-III	Hs, Ss	
Luciferidae (Family)							
Lucifer typus H. Milne Edwards, 1837			+	+	I-III	P	
Lysmatidae (Family)							
Lysmata kempi Chace, 1997				+	II	Ss	
Lysmata seticaudata (Risso, 1816)	+	+	+	+	I-II	Hs, Ss	
Macrophthalmidae (Family)							
**Macrophthalmus* (*Macrophthalmus*) *indicus* Davie, 2012			+	+	I-III	Ss	
Majidae (Family)							
Eurynome aspera (Pennant, 1777)		+	+	+	II-III	Hs, Ss	
Maja crispata Risso, 1827		+	+	+	I-II	Hs, Ss	
[BN]*Maja squinado* (Herbst, 1788)	+	+	+	+	I-III	Hs, Ss	
Neomaja goltziana (d'Oliveira, 1889)			+	+	IV	Ss	*Maia goltziana* d'Oliveira, 1889

Table. (Continued.)

**Micippa thalia* (Herbst, 1803)			+	+	I	Hs	
**Schizophrys aspera* (H. Milne Edwards, 1831)				Terbıyık-Kurt and Yılmaz-Zenginer, 2016	?	?	
Matutidae (Family)							
Ashtoret lunaris (Forskål, 1775)		Harlıoğlu et al., 2018	Harlıoğlu et al., 2018	Turan et al., 2015	II	Ss	
**Matuta victor* (Fabricius, 1781)			Ateş et al., 2017	Dailianis et al., 2016	I	Ss	
Munididae (Family)							
Iridonida speciosa (von Martens, 1878)			+	Kousteni et al., 2022	III-VI	Ss	*Munida rutllanti* Zariquiey Álvarez, 1952
Munida intermedia A. Milne Edwards & Bouvier, 1899			+		VI	Ss	
Munida rugosa (Fabricius, 1775)		+	+		III-VI	Ss	
Munida tenuimana Sars, 1872		+	+		VII	Ss	
Nanocassiopidae (Family)							
Microcassiope minor (Dana, 1852)			+	+	I	Hs	
Nephropidae (Family)							
[BN, NL] *Homarus gammarus* (Linnaeus, 1758)		Thompson, 1912	+		I-IV	Hs	
Nephrops norvegicus (Linnaeus, 1758)		+	+		IV-VII	Ss	
Ocypodidae (Family)							
[BC, BN] *Ocypode cursor* (Linnaeus, 1758)			+	+	I	Ss	
Ogyrididae (Family)							
**Ogyrides mjoebergi* (Balss, 1921)				+	I	Ss	
Oregoniidae (Family)							
Ergasticus clouei A. Milne-Edwards, 1882				Adensamer, 1898	IV-VII	Ss	
Paguridae (Family)							
Anapagurus bicorniger A.Milne-Edwards & Bouvier, 1892		+	+	+	II	Ss	
Anapagurus breviaculeatus Fenizia, 1937		+	+		I-III	Ss	
Anapagurus chiroacanthus (Lilljeborg, 1856)		+	+	+	I	Ss	
Anapagurus laevis (Bell, 1845)	+	+	+	+	II-III	Ss	
Anapagurus longispina A. Milne-Edwards & Bouvier, 1900			+	+	III	Ss	
Anapagurus petiti Dechancé & Forest, 1962		Ateş et al., 2007	+	+	II-III	Ss	
Cestopagurus timidus (Roux, 1830)		+	+	+	I-III	Hs	
Pagurus alatus Fabricius, 1775		+	+	+	II-VII	Ss	
Pagurus anachoretus Risso, 1827		+	+	+	I-III	Hs, Ss	
Pagurus chevreuxi (Bouvier, 1896)			+	+	I-III	Hs	
Pagurus cuanensis Bell, 1845		+	+	+	I-II	Hs, Ss	
Pagurus excavatus (Herbst, 1791)		+	+	+	I-II	Hs, Ss	
Pagurus forbesii Bell, 1845		+	+	+	I-II	Hs, Ss	
Pagurus prideaux Leach, 1815		+	+	+	II-V	Ss	
Palaemonidae (Family)							
Ascidonia flavomaculata (Heller, 1864)		+			I	Ss	
Balssia gasti (Balss, 1921)			+		III	Hs	

Table. (Continued.)

Brachycarpus biunguiculatus (Lucas, 1846)			+	+	I-III	Ss	
Gnathophyllum elegans (Risso, 1816)		+	+	+	I-II	Ss	
Palaemon adspersus Rathke, 1836	+	+	+	+	I-II	Hs, Ss	
Palaemon elegans Rathke, 1836	+	+	+	+	I-II	Hs, Ss	
Palaemon longirostris H. Milne Edwards, 1837	+	Demir, 1952	+	+	I	Hs, Ss	*Palaemon edwardsii* Heller, 1863
Palaemon serratus (Pennant, 1777)	+	+	+	+	I-II	Hs, Ss	
Palaemon xiphias Risso, 1816		+	+	+	I	Ss	
**Palaemonella rotumana* (Borradaile, 1898)				+	I-II	Hs	
Periclimenes aegylios Grippa & d'Udekem d'Acoz, 1996		+			I	Ss	
Periclimenes amethysteus (Risso, 1827)		+	+		I	Ss	
Periclimenes scriptus (Risso, 1822)		Colombo, 1885	+	+	I	Ss	
Pontonia pinnophylax (Otto, 1821)			+	+	I	Hs	
Typton spongicola O.G. Costa, 1844		+	+		II-III	Hs, Ss	
**Urocaridella pulchella* Yokes & Galil, 2006				Yokeş and Galil, 2006	II	Hs	
Palicidae (Family)							
Palicus caronii (Roux, 1830)		+	+		III	Hs	*Cymopolia caronii* Roux, 1830
Palinuridae (Family)							
[BN, NL] *Palinurus elephas* (Fabricius, 1787)		Thompson, 1912	+	+	II-III	Hs	
Pandalidae (Family)							
Chlorotocus crassicornis (A. Costa, 1871)		+	+	+	III-VI	Ss	
Pandalina brevirostris (Rathke, 1843)		Okuş, 1989	+	+	I-II	Hs, Ss	
Pandalina profunda Holthuis, 1946		+	Gönülal et al., 2014		VI	Ss	
Plesionika acanthonotus (Smith, 1882)			+	Deval and Froglia, 2016	VII	Ss	
Plesionika antigai Zariquiey Álvarez, 1955				Deval et al., 2017	VI	Ss	
Plesionika edwardsii (Brandt, 1851)			+	+	IV-V	Ss	
Plesionika gigliolii (Senna, 1902)			+	Deval and Froglia, 2016	V	Ss	
Plesionika heterocarpus (A. Costa, 1871)		+	+	+	III-VI	Ss	
Plesionika longicauda (Rathbun, 1901)				Mutlu, 2015	I	Ss	
Plesionika martia (A. Milne-Edwards, 1883)			+	Demirci, 2007	VII	Ss	
Plesionika narval (Fabricius, 1787)		+	+	+	V	Ss	
Parthenopidae (Family)							
Derilambrus angulifrons (Latreille, 1825)	+	Ostroumoff, 1894	+	+	I-II	Ss	
Parthenopoides massena (Roux, 1830)		+	+	+	II-V	Hs, Ss	
Spinolambrus macrochelos (Herbst, 1790)		+	+	+	I-V	Ss	
Pasiphaeidae (Family)							
**Leptochela pugnax* De Man, 1916			+	+	I-IV	Ss	
Pasiphaea multidentata Esmark, 1866			+	+	III	Ss	
Pasiphaea sivado (Risso, 1816)		+	+	+	VI	Ss	
Penaeidae (Family)							

Table. (Continued.)

Funchalia villosa (Bouvier, 1905)				Deval and Froglia, 2016	VI-VII	Ss	
**Metapenaeopsis aegyptia* Galil & Golani, 1990				+	I-II	Ss	
**Metapenaeopsis mogiensis consobrina* (Nobili, 1904)				+	I-III	Ss	
**Metapenaeus affinis* (H. Milne Edwards, 1837)			+		I-II	Ss	
**Metapenaeus monoceros* (Fabricius, 1798)			Bilecenoğlu and Çınar, 2021	+	I-II	Ss	
**Metapenaeus stebbingi* Nobili, 1904				+	I-II	Ss	
Parapenaeus longirostris (Lucas, 1846)		+	+	+	I-VII	Ss	
**Penaeus aztecus* Ives, 1891	Gönülal and Çiftçi Türetken, 2019		Bakır and Aydın, 2016	+	II	Ss	*Farfantepenaeus aztecus* (Ives, 1891)
**Penaeus hathor* Burkenroad, 1959			+	+	I	Ss	
Penaeus kerathurus (Forskål, 1775)		+	+	+	I-III	Ss	
**Penaeus merguiensis* De Man, 1888				+	II	Ss	*Fenneropenaeus merguiensis* (De Man, 1888)
**Penaeus pulchricaudatus* Stebbing, 1914		Zaitsev and Öztürk, 2001	Zaitsev and Öztürk, 2001	Gruvel, 1928	I-III	Ss	
**Penaeus semisulcatus* De Haan, 1844		+	Soykan et al., 2019	+	I-II	Ss	
**Penaeus subtilis* Pérez Farfante, 1967				+	II	Ss	*Farfantepenaeus subtilis* (Pérez Farfante, 1967)
**Trachysalambria palaestinensis* (Steinitz, 1932)			Ateş et al., 2016	+	I-IV	Ss	
Percnidae (Family)							
**Percnon gibbesi* (H. Milne Edwards, 1853)			Bilecenoğlu and Çınar, 2021	+	I	Hs	
Pilumnidae (Family)							
**Eurycarcinus integrifrons* De Man, 1879				+	I-II	Ss	
**Pilumnopeus vauquelini* (Audouin, 1826)				+	I	Hs	
Pilumnus hirtellus (Linnaeus, 1761)	Nikitin, 1948	+	Colombo, 1885	+	I-V	Hs	
**Pilumnus minutus* De Haan, 1835	+		+	+	I	Hs	*Pilumnus hirsutus* Stimpson, 1858
Pilumnus spinifer H. Milne Edwards, 1834		+	+	Holthuis and Gottlieb, 1958	I-III	Hs, Ss	
Pilumnus spinulosus Kessler, 1861			Kocataş, 1981	Kocataş, 1981	?	?	*Pilumnus aestuarii* Nardo, 1847
Pinnotheridae (Family)							
Nepinnotheres pinnotheres (Linnaeus, 1758)		+	+		I	Hs	
Pinnotheres pisum (Linnaeus, 1767)		+	+		I-II	Hs	

Table. (Continued.)

Pirimelidae (Family)							
Pirimela denticulata (Montagu, 1808)		+	+	+	I	Hs, Ss	
Sirpus zariquieyi Gordon, 1953	+	+	+	+	I-III	Hs	
Polybiidae (Family)							
Bathynectes longipes (Risso, 1816)		+			II	Ss	
Bathynectes maravigna (Prestandrea, 1839)			+	+	V-VI	Ss	
Liocarcinus corrugatus (Pennant, 1777)		+	+	+	I-II	Hs, Ss	
Liocarcinus depurator (Linnaeus, 1758)	+	+	+	+	I-III	Ss	
Liocarcinus maculatus (Risso, 1827)		+	+	+	II-III	Hs, Ss	
Liocarcinus marmoreus (Leach, 1814)	+	+	+	+	?	?	
Liocarcinus navigator (Herbst, 1794)	Nikitin, 1948	+	+	+	I-II	Hs, Ss	*Liocarcinus arcuatus* (Leach, 1814); *Portunus arcuatus* Leach, 1814
Liocarcinus pusillus (Leach, 1816)		Mülayim, 2021	+	+	I-III	Hs	
Liocarcinus vernalis (Risso, 1827)	Nikitin, 1948	+	+	+	I-II	Ss	
Liocarcinus zariquieyi (Gordon, 1968)			Balkıs and Kurun, 2008	+	?	?	
Macropipus tuberculatus (Roux, 1830)			+	Özcan and Ateş, 2018	IV-VII	Ss	
Polychelidae (Family)							
Polycheles typhlops Heller, 1862		+	+	+	VI-VII	Ss	
Stereomastis sculpta (Smith, 1880)			Gönülal and Güreşen, 2017		VI-VII	Ss	
Porcellanidae (Family)							
Pisidia bluteli (Risso, 1816)	Nikitin, 1948	Holthuis, 1961	+	+	I-II	Hs, Ss	*Pisidia longimana* (Risso, 1816)
Pisidia longicornis (Linnaeus, 1767)	Sezgin et al., 2016	Ostroumoff, 1894	+	+	I	Hs	
Porcellana platycheles (Pennant, 1777)		+	+	+	I	Hs, Ss	
Portunidae (Family)							
Achelous hastatus (Linnaeus, 1767)			+	+	I-IV	Ss	*Portunus hastatus* (Linnaeus, 1767)
**Callinectes sapidus* Rathbun, 1896	+	Zaitsev and Öztürk, 2001	+	+	I-II	Ss	
**Carupa tenuipes* Dana, 1852			+	+	I-II	Hs	
**Charybdis (Charybdis) hellerii* (A. Milne-Edwards, 1867)			+	+	I-II	Hs, Ss	
**Charybdis (Goniohellenus) longicollis* Leene, 1938			+	+	I-II	Ss	
**Gonioinfradens giardi* (Nobili, 1905)				Karhan and Yokes, 2012	I	Hs, Ss	
**Portunus segnis* (Forskål, 1775)		+	+	+	I-II	Hs, Ss	

Table. (Continued.)

**Processidae (Family)*							
Processa acutirostris Nouvel & Holthuis, 1957				+	I	Ss	
Processa canaliculata Leach, 1815		Okuş, 1989	+	+	I-V	Hs, Ss	
Processa edulis (Risso, 1816)		+	+	+	I-II	Hs, Ss	
Processa elegantula Nouvel & Holthuis, 1957		Bakır and Ateş, 2018	+	+	I-III	Hs, Ss	
**Processa macrodactyla* Holthuis, 1952			+		I	Hs	
Processa macrophthalma Nouvel & Holthuis, 1957		+	+	+	I-III	Ss	
Processa modica modica Williamson in Williamson & Rochanaburanon, 1979		Bakır and Ateş, 2018	+	+	I-II	Hs, Ss	
Processa nouveli nouveli Al Adhub & Williamson, 1975		+	+	+	I-III	Hs, Ss	
Processa parva Holthuis, 1951				+	I	Ss	
Processa robusta Nouvel & Holthuis, 1957				Mutlu and Ergev, 2013	I-II	Hs, Ss	
**Progeryonidae (Family)*							
Paragalene longicrura (Nardo, 1869)				Gönülal et al., 2015	III	Ss	
**Scyllaridae (Family)*							
[BN, NL] *Scyllarides latus* (Latreille, 1803)			+	+	I-II	Hs	
[BN, NL] *Scyllarus arctus* (Linnaeus, 1758)		+	+	+	I	Hs	
[BN, NL] *Scyllarus pygmaeus* (Spence Bate, 1888)			+	+	I-II	Hs	
**Sergestidae (Family)*							
Allosergestes sargassi (Ortmann, 1893)			Güreşen and Gönülal, 2018	Gönülal, 2022	VI-VII	P	
Eusergestes arcticus (Krøyer, 1855)		Ostroumoff, 1896	+	Deval and Froglia, 2016	V-VII	P	*Sergestes arachnipodus* (Cocco, 1832)
Robustosergia robusta (Smith, 1882)		+	+	Deval and Froglia, 2016	VI	P	*Sergestes robustus* Smith, 1882
**Sicyoniidae (Family)*							
Sicyonia carinata (Brünnich, 1768)			+	+	I-III	Hs, Ss	
**Sicyonia lancifer* (Olivier, 1811)				Patania and Mutlu, 2016	III	Ss	
**Solenoceridae (Family)*							
Solenocera membranacea (Risso, 1816)		+	+	+	II-VI	Ss	*Penaeus membranaceus* Risso, 1816
**Stenopodidae (Family)*							
Odontozona minoica Dounas & Koukouras, 1989			+		VI	Ss	
Richardina fredericii Lo Bianco, 1903		Bakır and Ateş, 2018	+		VII	Ss	
Stenopus spinosus Risso, 1827			+	+	I-IV	Ss	

Table. (Continued.)

Thoridae (Family)							
Eualus cranchii (Leach, 1817)		+	+	+	I-III	Hs, Ss	
Eualus occultus (Lebour, 1936)			+		I-III	Hs	
Eualus sollaudi (Zariquiey Cenarro, 1936)				+	I-II	Hs	
Upogebiidae (Family)							
Gebiacantha talismani (Bouvier, 1915)				+	III	Ss	
Upogebia deltaura (Leach, 1816)			+	+	II-III	Hs, Ss	
Upogebia pusilla (Petagna, 1792)	Nikitin, 1948	+	+	+	I-V	Hs, Ss	*Gebia litoralis* (Risso, 1816)
Upogebia stellata (Montagu, 1808)				Mutlu, 2015	I	Ss	
Upogebia tipica (Nardo, 1869)			+	+	II-III	Ss	
Varunidae (Family)							
Brachynotus foresti Zariquiey Álvarez, 1968			+	+	I-II	Hs	
Brachynotus gemmellaroi (Rizza, 1839)			+	+	I	Ss	
Brachynotus sexdentatus (Risso, 1827)	+	+	+	+	I-II	Hs, Ss	
Xanthidae (Family)							
**Actaea savignii* (H. Milne Edwards, 1834)				+	I	Hs	
**Atergatis roseus* (Rüppell, 1830)			+	+	I-II	Hs, Ss	
Lophozozymus incisus (H. Milne Edwards, 1834)		+	+	+	I	Hs	
Monodaeus couchii (Couch, 1851)		Artüz et al., 2014b	+	Deval and Froglia, 2016	I-VII	Ss	*Monodaeus guinotae* Forest, 1976
Paractaea monodi Guinot, 1969				+	I	Ss	
Xantho hydrophilus (Herbst, 1790)	Nikitin, 1948	+	+	Holthuis, 1961	I	Hs	*Xantho granulicarpus* Forest, 1953
Xantho pilipes A. Milne-Edwards, 1867		Balkıs, 1994	+	+	I-V	Hs, Ss	
Xantho poressa (Olivi, 1792)	+	+	+	+	I-II	Hs	
HEXAPODA (Subphylum)							
INSECTA (Class)							
DIPTERA (Order)							
Chironomidae (Family)							
Chironomus salinarius Kieffer, 1915		+	+	+	I	Ss	
Clunio mediterraneus Neumann, 1966				+	I	Hs	
Halocladius varians (Staeger, 1839)			+	+	I	Hs, Ss	
Thalassomya frauenfeldi Schiner, 1856			+		I	Hs	
HEMIPTERA (Order)							
Corixidae (Family)							
Sigara stagnalis (Leach, 1817)			+		?	?	

Examining the distribution of species in marine waters, the highest species diversity is observed in the Aegean Sea, increasing from 1056 to 1330 species. This is followed by the Levantine Sea, increasing from 849 to 1079 species, the Sea of Marmara increasing from 787 to 932, and the Black Sea increasing from 350 to 413.

Figure 2 illustrates the number of species recorded over time in the major seas around Türkiye, including the total, Aegean Sea, Levantine Sea, Sea of Marmara, and Black Sea. Focusing on the period from 2014 to 2024, a significant increase in species numbers can be observed across all regions. During this period, the total number of species

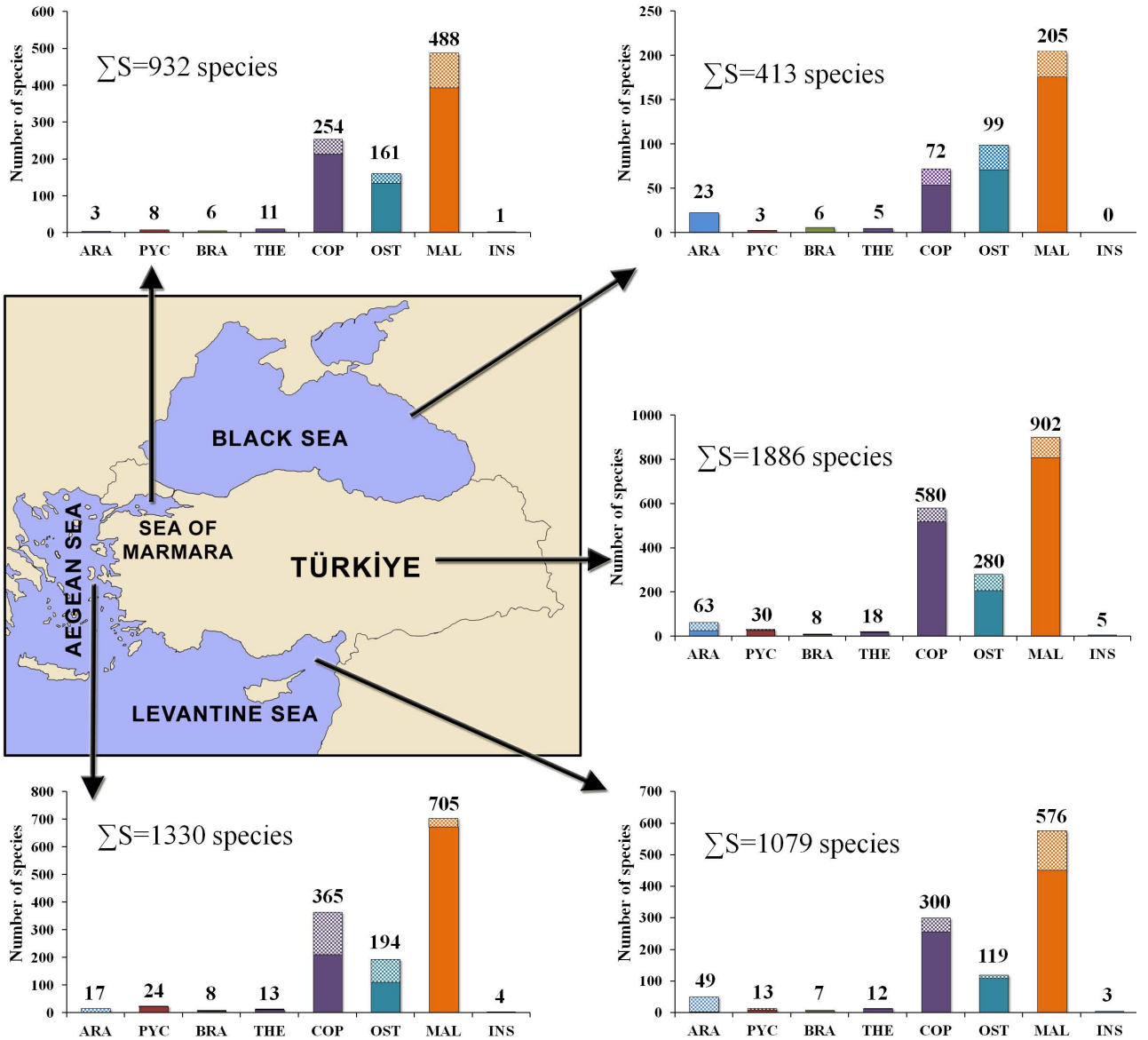


Figure 1. The number of marine arthropod species along the Turkish coasts (ARA: Arachnida; PYC: Pycnogonida; BRA: Branchiopoda; THE: Thecostraca; COP: Copepoda; OST: Ostracoda; MAL: Malacostraca; INS: Insecta).

has continued to rise sharply, indicating an ongoing trend of species discovery and possibly improved documentation methods. The number of species in the Aegean Sea has shown a substantial increase, second only to the total count, reflecting either new discoveries or that more research is being done in this region. The Levantine Sea also has a notable increase in species numbers, suggesting a high level of biodiversity in this region, and the Sea of Marmara has shown a steady rise in species numbers, although not as pronounced as in the Aegean and Levantine Seas. While the Black Sea has shown the least increase compared to the other regions, it still has a positive trend in species numbers from 2014 to 2024. This might be related to low species diversity due to the physicochemical structure of this particular sea.

3.3. Alien species

Over the past decade, alien species have been identified along the coasts of Türkiye. These include one pantopod (*Ammothea hilgendorfi*), one branchiopod (*Pleopis schmackeri*), five copepods (*Calanus finmarchicus*, *Dioithona oculata*, *Lernanthropus callionymicola*, *Oithona davisae*, and *Pseudodiaptomus marinus*), one isopod (*Paracerceis sculpta*), one stomatopod (*Cloridina* cf. *ichneumon*), and three decapods (*Matuta victor*, *Schizophrys aspera*, and *Sicyonia lancifer*).

Some of the species previously considered to be alien are now regarded as cryptic due to uncertainty regarding their origins. It should be noted that these species are not considered alien on the list (Table). The addition of these new alien species and the removal of others have resulted in an increase in the number of alien species in Turkish seas to 83. As expected, the Levantine coast has the highest number, with 75 alien species. Following their arrival and subsequent adaptation to the ecological conditions of this region, many species have subsequently migrated northwards. Consequently, although this number is in decline, the Aegean Sea is the second most species-rich sea, with 44 species. Continuing northward, the number of alien species declines to 22 in the Sea of Marmara and 7 in the Black Sea (Table).

3.4. Protected species

Protected species in Türkiye's seas include *Homarus gammarus* (Linnaeus, 1758), *Palinurus elephas* (Fabricius, 1787), *Scyllarides latus* (Latreille, 1803), *Scyllarus arctus* (Linnaeus, 1758), *Scyllarus pygmaeus* (Spence Bate, 1888), *Maja squinado* (Herbst, 1788), and *Ocypode cursor* (Linnaeus, 1758). These species are safeguarded under various national laws and international agreements aimed at preserving marine biodiversity and protecting vulnerable species from overexploitation and habitat destruction (Table).

For instance, the Bern and Barcelona conventions provide a framework for the conservation of these species across Europe and the Mediterranean region, ensuring their habitats are protected and their populations are monitored and managed sustainably. In Türkiye, these protective measures are reinforced by national regulations that impose restrictions on fishing practices, habitat disruption, and other activities that could harm these species. Consequently, the proper enforcement of these laws is crucial for maintaining the ecological balance and ensuring the long-term survival of these important marine species.

4. Discussion

The coasts of Türkiye exhibit a diversity of marine biotopes due to their location as a transition zone between the Mediterranean Basin and the Black Sea. As a result of the geographical positioning of this area, a wide range of habitats has been formed, which has contributed to the high diversity of species present. According to various researchers, the number of marine arthropod species in the Mediterranean Sea is slightly in excess of 2000, whereas in the Aegean Sea this number is reduced to one-third, and in the Black Sea it is reduced to one-tenth (Zaitsev et al., 2002; Coll et al., 2010). A comparison of these findings with observations along the Turkish coastline reveals distinct patterns in biodiversity. The Aegean Sea is the most biodiverse (1330 species) among the four seas surrounding Türkiye. It ranks as the second most diverse sea in the Levantine region (1079 species), followed by the Sea of Marmara (932 species) as the third, and the Black Sea (413 species) as the least diverse. This ranking demonstrates significant differences in ecological characteristics and biodiversity levels across Türkiye's coastal seas.

A review of the historical timeline of marine research along Türkiye's coasts reveals a significant period of development. The oldest species records date back to the 1750s, with the rate of discovery increasing from the 1900s, peaking between 1960 and 2014 (Bakır et al., 2014). Although the rate of new species discoveries has slowed since 2014, research efforts have continued, leading to the identification of 262 new species over the past decade alone (Figure 2). Overall, the period from 2014 to 2024 highlights a significant growth in the recorded marine biodiversity across all Turkish seas, with findings in the

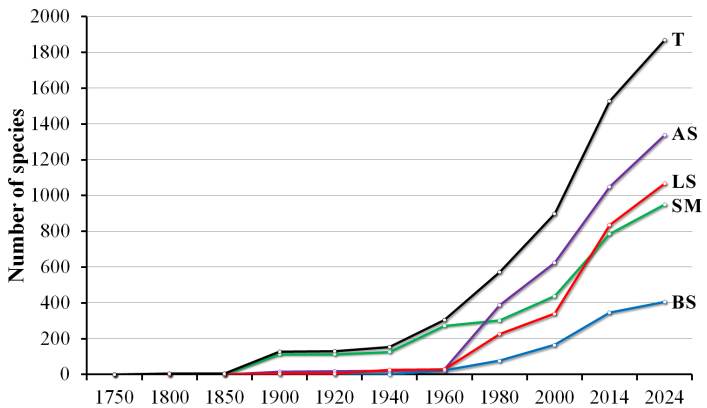


Figure 2. Timeline of the species records along the Turkish coasts (T: total; AS: Aegean Sea; LS: Levantine Sea; SM: Sea of Marmara; BS: Black Sea).

Aegean and Levantine seas contributing substantially to this increase. This trend underscores the importance of continued research and documentation efforts to further understand and preserve marine biodiversity in the region.

In the Bakır et al. (2014) study, species considered questionable (misidentified or *nomen nudum*) were initially reported separately from verified species. Over the past decade, some of these species have been reobserved and verified, while the taxonomic status of others has been clarified. Consequently, it was decided to combine all species into a single comprehensive table in the present study. However, there is still a need for detailed information about some species.

The most significant of these species is *Megabalanus* cf. *tintinnabulum* (Linnaeus, 1758). Geldiay and Kocataş (1972a) reported this species as quite abundant under stones in the upper infralittoral zone around the Urla pier in the Gulf of İzmir. However, they expressed doubts regarding the species' identification due to the lack of other records of this species along the Turkish coast.

In the Copepoda class, *Acartia hasanii* Ünal, Shmeleva & Kideys, 2002, *Acartia ioannae* Ünal, Shmeleva & Kideys, 2002, and *Acartia janetae* Ünal, Shmeleva & Kideys, 2002, identified by Ünal et al. (2002) on the southern coast of Türkiye, were also considered questionable in this study (Gubanova et al., 2014).

Parapseudomma calloplura (Holt & Tattersall, 1905), within the order Mysida belonging to the class Malacostraca, previously known from the Levantine coast, was recently recorded in a stomach content study from the Turkish coast (Bayhan et al., 2015). This represents the first documented occurrence of the species on the Turkish coast; thus, it has been included in the list.

Among the amphipods, species such as *Amphilochoides longimanus* (Chevreux, 1888), *Byblis gaimardii* (Krøyer, 1846), *Elasmopus* cf. *gracilis* Schellenberg, 1938, *Elasmopus* cf. *steinitzi* Ruffo, 1959, *Gammarellus homari* (J. C. Fabricius, 1779), *Gammaropsis nitida* (Stimpson, 1853), *Marinogammarus marinus* (Leach, 1816), *Leucothoe crassimana* Kossmann, 1880, *Monocorophium cylindricum* (Say, 1818), *Pontocrates arcticus* G.O. Sars, 1895, *Pontocrates norvegicus* (Boeck, 1861), and *Proboloides gregaria* (G.O. Sars, 1883) have been reported from the Turkish coast. These observations are presented in Table. However, given their limited documentation in few studies and the absence of sources confirming their presence in the Mediterranean Sea, their inclusion in future studies will resolve uncertainties regarding their presence.

Gammarus locusta (Linnaeus, 1758) was identified as a potential concern by Bakır et al. (2014). However, following the discovery of new sources in our most recent study, it became evident that this species had also been reported from the Black Sea (Nikitin, 1948). This species was subsequently corroborated by other researchers who had reported it from the Turkish coast.

Podoceropsis megacheir (Boeck, 1870) was documented by Sowinsky (1897) in the Bosphorus. However, information on its validity or synonymy could not be found, thus it is excluded from the list. Similarly, *Parhyale explorator* Arresti 1989 was later identified as *Parhyale plumicornis* (Heller, 1866; Bakır et al., 2013), excluding it from the list.

Stenogammarus deminutus (Stebbing, 1906) was included in the Black Sea checklist by Öztürk (1998), but its source remains unclear, and no other researchers have reported it. Thus, it is excluded from the list.

Studies by Ruffo et al. (2014) and Davolos et al. (2018) demonstrated that individuals previously identified as *Cryptorchestia cavimana* (Heller, 1865) on the Sea of Marmara and Black Sea coasts of Türkiye actually belong to *Cryptorchestia garbinii* Ruffo, Tarocco & Latella, 2014. Furthermore, the study revealed that *C. cavimana* is not present in Türkiye.

A detailed study of Melitid Amphipods by Lowry and Springthorpe (2005) led to the conclusion that the individuals previously identified as *Maera hamigera* Haswell, 1879 from the Mediterranean Sea actually belong to *Linguimaera caesaris* Krapp-Schickel, 2003. Thus, the existence of this species in the Mediterranean Sea has been confirmed.

Monocorophium sextonae (Crawford, 1937), previously once considered an alien species in Europe, is now recognized as indigenous. Consequently, this species, which has been more accurately evaluated as a cryptic species, has been removed from the alien category in the recent list (Marchini and Cardeccia, 2017).

Several authors reported *Armadilloniscus littoralis* Budde-Lund, 1879, *Armadilloniscus ellipticus* (Harger, 1878), *Tylos europaeus* Arcangeli, 1938, *Tylos latreillei* Audouin, 1826, and *Halophiloscia couchii* (Kinahan, 1858) in the supralittoral region on the Turkish coasts. Furthermore, *Armadillidium nasatum* Budde-Lund, 1885 has been noted as a parasite on *Diplodus annularis* in the Black Sea (Geldiay and Kocataş, 1972a; Geldiay and Kocataş, 1972b; Geldiay et al., 1977; Kocataş and Katağan, 1983; Kırkım et al., 2005; Kırkım et al., 2006; Kayış et al., 2009; Sezgin and Aydemir Çil, 2010). These terrestrial isopods, observed in the supralittoral region (Taiti and Ferrara, 1996; Khemaissia et al., 2010), are likely accidental inclusions in marine samples. Therefore, they are excluded from the presented species list. Another isopod, *Asellus aquaticus* (Linnaeus, 1758), reported in some marine studies off the Turkish coasts (Bat et al., 2000; Kırkım et al., 2005; Kırkım et al., 2006), is excluded as it is a freshwater species.

Sphaeroma granulata M. Edw. was reported by Ostroumoff (1894) from a shell-covered ground near the Black Sea exit of the Bosphorus at approximately 50 m depth. However, this species could not be identified in the literature, and no further reports exist. Therefore, it is considered potentially unreliable.

The alien isopod *Paracerceis sculpta* (Holmes, 1904) has been reported in various Mediterranean countries. Initially identified on a vessel hull from Rhodes in a marina in Fethiye, it has since been observed on both hard and soft substrates within İzmir Bay (Ulman et al., 2017; Dağlı et al., 2024). Consequently, this species is included in the list as it has been recorded outside the ship's hull.

Leptognathia propontiaca (Ostroumoff, 1896) was described as a new taxon by Ostroumoff (1896) from station 19 in the Bosphorus at approximately 115 m depth. However, the study lacked a detailed description, and subsequent publications do not reference this species. Therefore, it is considered suspect.

A species identified by Erhan Mutlu from the Black Sea as a new *Cumella* species by Mihai Bacescu, mentioned in Öztürk (1998) as *Cumella armatura*, is also noted in Gönlügür-Demirci (2006), citing Öztürk (1998). Nonetheless, *C. armatura* was not validated due to the absence of a formal description and introduction to the scientific community; it is considered a species of uncertain status.

Uncertainty regarding *Alpheus lobidens* De Haan, 1849 and *Alpheus* inopinatus Holthuis & Gottlieb, 1958 as previously noted by Bakır et al. (2015), persists. Consequently, we propose the addition of these species to the list.

Trachysalambria palaestinensis (Steinitz, 1932), an alien shrimp species, is frequently misidentified as *Trachysalambria curvirostris* (Stimpson, 1860) in the Mediterranean Sea and along the coasts of Türkiye (Galil et al., 2002). A review by Sakaji and Hayashi (2003) distinguished these two species, validating the presence of *T. palaestinensis* in the Mediterranean Sea.

Recent genetic studies revealed that individuals previously identified as *Penaeus japonicus* Spence Bate, 1888 along the Turkish coastline actually belong to *Penaeus pulchricaudatus* Stebbing, 1914, morphologically indistinguishable from the former (Deval et al., 2023). Consequently, records previously attributed to *P. japonicus* have been reevaluated as *P. pulchricaudatus*.

It was observed that the individuals belonging to *Urocaridella antonbruunii* (Bruce, 1967), as reported by Yokeş and Galil (2004), belong to a new taxon designated as *Urocaridella pulchella* Yokeş and Galil, 2006. Consequently, it has been demonstrated that *U. antonbruunii* has not occured on the coasts of Türkiye.

The presence of *Anapagurus hyndmanni* (Bell, 1845) on the Turkish coast remains uncertain (Bakır et al., 2014) due to the lack of new records and is not included in the list.

Ferreira and Tavares (2020) clarified the taxonomic confusion surrounding *Pisidia bluteli* (Risso, 1816), *Pisidia longimana* (Risso, 1816), and *Pisidia longicornis* (Linnaeus, 1767). They concluded that *P. longimana* is a synonym of *P. bluteli*, while *P. longicornis* is distinct. Consequently, the records of *P. longimana* and *P. bluteli* were combined.

Stereomastis artuzi, introduced by Artüz (2014a) as a new species from the Sea of Marmara, was deemed invalid by Chang et al. (2024) due to the lack of a valid description and its resemblance to *Polycheles typhlops* Heller, 1862. Consequently, *S. artuzi* is excluded from the list.

Gonioinfradens giardi (Nobili, 1905), previously considered a synonym for *Gonioinfradens paucidentata* (A. Milne-Edwards, 1861) in the Mediterranean Sea, has been validated as a distinct species through morphological and genetic analysis (Galil et al., 2018). Consequently, *G. paucidentata* is no longer recognized in the Mediterranean, and *G. giardi* is confirmed on the Turkish coasts.

Carcinus maenas (Linnaeus, 1758) and *Carcinus aestuarii* Nardo, 1847 have both been reported along the Turkish coastline. However, given the distribution patterns and genetic data (Carlton and Cohen, 2003; Klassen and Locke, 2007), all records of *C. maenas* on the Turkish coast are now considered to be *C. aestuarii* until future evidence suggests otherwise.

Cancer pagurus Linnaeus, 1758 although documented in Turkish coastal studies (Devedjian, 1926; Eryılmaz, 1997; Gökalp, 2011; Keskin and Atar, 2013), has not been definitively identified through interviews with authors. However, Terbıyık-Kurt and Yılmaz-Zenginer (2016) identified its larvae, leading to its inclusion in the species list. Yet, the presence of adult individuals is necessary for a formal confirmation of this species on the Turkish coast.

Geryon trispinosus (Herbst, 1803) has not been documented in the Sea of Marmara since its initial report by Ostroumoff (1896). Given its frequent confusion with *Geryon longipes* A. Milne-Edwards, 1882, which has been reported from the same region by various researchers (Koukouras et al., 2000; Colmenero et al., 2023), *G. trispinosus* was determined to be erroneously identified from the Turkish seas and excluded from the list.

Liocarcinus vernalis was reported by Ostroumoff (1894, 1896) in the Sea of Marmara, possibly misidentified as *Polybius holsatus* (Fabricius, 1798), previously known as *Liocarcinus holsatus* (Fabricius, 1798). It has been confirmed that *P. holsatus* does not exist on the Turkish coasts, so it is excluded from the list.

Another crab species that has been misidentified on the Turkish coast is *Myra fugax* (Fabricius, 1798). The resemblance of the specimen to *Myra subgranulata* Kossmann, 1877 led to its exclusion from the list.

Necora puber (Linnaeus, 1767) was identified through genetic analysis of samples from Turkish coasts (Keskin

and Atar, 2013). However, it has not been documented in studies by numerous experts over several decades, making its presence speculative.

Pilumnus inermis A. Milne-Edwards and Bouvier, 1894 has been misidentified. It is confirmed that these individuals actually belong to *Pilumnus hirtellus* (Linnaeus, 1761).

Sirpus ponticus Verestchaka, 1989 reported in Gönlügür-Demirci (2006) is also a result of misidentification of the individuals of *Sirpus zariquieyi* Gordon, 1953.

Individuals previously identified as *Xantho floridus* (Montagu, 1808) belong to other species within the same genus (Bakır et al., 2014). This makes the presence of *X. floridus* uncertain, and it is excluded from the list.

Paractaea rufopunctata (H. Milne Edwards, 1834) is considered a synonym of *Paractaea monodi* Guinot, 1969, in Mediterranean studies (Kljajo & Ševčić, 2000; Mavidis et al., 2008; Marco-Herrero et al., 2015). Consequently, *P. rufopunctata* is replaced with *P. monodi* in the list prepared by Bakır et al. (2014).

Individuals previously reported from the Turkish coasts as *Macrophthalmus graeffei* Milne-Edwards, 1873, are identified as *Macrophthalmus indicus* Davie, 2012, the only species within the genus to have entered the Eastern Mediterranean via the Suez Canal (Davie, 2012). The checklist has been updated accordingly.

Eucrate crenata (De Haan, 1835), initially identified as *Eurycarcinus integrifrons* De Man, 1879 by Doğan et al. (2016) on the Aegean Sea coast, was later confirmed to be *E. crenata* by Bakır and Salman (2018). This Aegean Sea record is now incorporated into the existing database.

Discrepancies were identified between the station codes for species and those on the sampling map in the project report by Kocataş and Katağan (1978). To avoid confusion, it is recommended to consult subsequent sources reporting these species chronologically. Some references in the recent list differ from those in Bakır et al. (2014).

In his doctoral thesis on crabs off the Turkish coast, Karhan (2015) offers valuable critiques of the article by Bakır et al. (2014). However, the validity of some of these criticisms is a subject of debate. For example, it inaccurately asserts that *Macropodia tenuirostris* (Leach, 1814) was not documented in Kocataş's (1981) study, as it was designated *Macropodia longipes* (A. Milne-Edwards & Bouvier, 1899), a synonym identified in Spiridonov et al. (2020). Similarly, *Palicus caronii* (Roux, 1830) is a synonym of *Cymopolia caronii* Roux, 1830, noted in Colombo's (1885) work (Di Muzio et al., 2019). Consequently, crab species records from Kocataş and Katağan (2003) and Ateş et al. (2010) are still being evaluated.

Up to 2014, 75 alien arthropod species had been documented on the Turkish coastline, increasing to 83 in the last decade. The Levantine coast (75 species) is the richest region in alien species due to its proximity to the Suez Canal and the first point of contact. While the Suez Canal is the primary gateway, some species, like *Metapenaeus affinis* (H. Milne Edwards, 1837*)* and *Callinectes sapidus* Rathbun, 1896 arrive in different ways. It is probable that both of these species entered the Mediterranean Sea via ballast water from ships; they were able to establish thriving populations in İzmir Bay and Akyatan Lake (Adana), respectively, due to the presence of international ports in these areas (Holthuis, 1961; Aydın et al., 2009).

The Black Sea coast hosts at least six alien species: *Oithona davisae* Ferrari and Orsi, 1984, *Acartia tonsa* Dana, 1849, *Amphibalanus eburneus* (Gould, 1841), *Amphibalanus improvisus* (Darwin, 1854), *Callinectes sapidus* Rathbun, 1896, and *Pilumnus minutus* De Haan, 1835, which are documented in all coastal regions of Türkiye. The physical and chemical properties of the seas indicate that these alien arthropod species possess high adaptability and the ability to thrive in their new environments.

Species such as *Homarus gammarus* (Linnaeus, 1758), *Palinurus elephas* (Fabricius, 1787), *Scyllarides latus* (Latreille, 1803), *Scyllarus arctus* (Linnaeus, 1758), *Scyllarus pygmaeus* (Spence Bate, 1888), and *Maja squinado* (Herbst, 1788) are of significant economic value and are protected in the Mediterranean Sea under the Bern and Barcelona conventions[1]. Turkish fisheries legislation prohibits hunting *H. gammarus* individuals smaller than 25 cm in length and only permits fishing for *H. gammarus*,

P. elephas, *S. latus*, *S. arctus*, and *S. pygmaeus* between 15 April and 1 September[2] (Resmi Gazete, 2020a; 2020b). Another protected species, *O. cursor*, found on sandy beaches, plays a crucial role in the sandy beach food web and is protected by the Bern and Barcelona conventions due to its susceptibility to human activities (Deidun et al., 2017).

It is evident that studies conducted to elucidate the biological diversity of the Turkish seas will continue in the future. A considerable number of studies have been conducted in this area, and Bakır et al. (2014) attempted to consolidate them into a single list. This study presents a more accurate and updated list, incorporating new findings from the past decade and rectifying previous errors. It is our hope that this list will prove to be a valuable resource for future research studies.

[1]Council of Europe (1979). Convention on the Conservation of European Wildlife and Natural Habitats Convention relative à la conservation de la vie sauvage et du milieu naturel de l'Europe. Bern/Berne, 19. https://rm.coe.int/1680304355 [Accessed 8 May 2024]
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[2]Resmi Gazete (2020a). 5/1 Numaralı Ticari Amaçlı Su Ürünleri Avcılığını Düzenleyen Tebliğ, 28 Ağustos 2020, Sayı: 31221. https://www.resmigazete.gov.tr/eskiler/2020/08/20200822-8.pdf [Accessed 8 May 2024]
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