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Checklist of Quaternary and Recent Ostracoda (Crustacea) species from Turkey with information on habitat preferences

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Abstract

Approximately 188 published manuscripts were evaluated to review current status of Quaternary and recent marine and non-marine species of Ostracods of Turkey. As a result of our study, 455 species (147 non-marine and 308 marine species) were listed. Besides their distribution, habitat and current taxonomical status data were also reviewed and added to the study.

Introduction

Turkish Republic forms a bridge between Europe and Asia.The part of the country that is on Asia is called Anatolia and the smaller part of the county on the European continent is called Thrace.Turkey has surrounded by four marginal seas, the Black Sea, the Sea of Marmara, the Aegean Sea, and the Mediterranean Sea. It has approximately 8300 km of costal shoreline. In addition to this, both Anatolia and Thrace have rich fresh water habitats such as lakes, streams, hot water springs, cold water springs and reservoirs. Anatolia and Thrace have always been a favourite study area for many taxonomists due to its ecological, geographical and geological features.

The first study on recent non-marine Ostacoda groups that are found in Turkey was done by Schäfer (1952), followed by Hartmann (1964), examining the Ostracods of wetlands in Anatolia. In the following years, by examining the Ostracoda fauna in the hot water springs in the Northwestern Anatolia region, Gülen (1975), paved the way for the future studies on Ostracoda of Turkey. After Gülen, the studies concerning the Ostracoda fauna of Turkey gained great speed. The first records on the paleontological studies on the ostracods in Turkey was done by Gökçen (1976). After these faunistic studies, systematic and ecological studies on recent marine fauna have been started by Kubanç in 1989 with the examination of the Ostracoda fauna in the Sea of Marmara (Kubanç, C. 2002). From 1952 to present, many studies have been done on non-marine, marine and Quaternary Ostracoda fauna of Turkey. Researches on the recent and Quaternary Ostracoda fauna has become more prevalent. However most of the former studies were in Turkish or they contain many synonyms.

For these reasons we reviewed literature and summarized the data presented in literature in this issue to build an updated list for Turkey's recent marine, non-marine and Quaternary Ostracod species according to their habitats. This way, we also tried to summarize the diversity and distribution of the ostracod species in Turkey.

Material and Method

Marine: The Black Sea coast of Turkey is about 1695 km long extending from the Bulgarian border in the west to the Georgia border in the east (Bakan & Büyükgüngör, 2000).The Black Sea is a semi-enclosed sea basin connected to the Sea of Marmara by a narrow channel called Bosporus. Its maximum depth reaches 2200 m (Ivanov *et al.,* 2000).

The Sea of Marmara is a land-locked sea, located between the Thrace and Anatolia peninsulas and constitutes an oceanographic link between two large semi-enclosed basins, the Aegean Sea and Black Sea. The Sea of Marmara is connected to brackish waters of Black Sea (18–22 psu) via the Bosporus and to proper marine waters of the Aegean Sea (37.5–38.5 psu) via the Dardanelles. There are many thermal vents, hot and cold water springs along the North Anatolian fault line in the Sea of Marmara. Similar vents and hot water springs can be seen in Aegean Sea, as well (Başkan & Canik, 1983; Thiermann *et al.*, 1997; Varnavas *et al.,* 1999).

The Aegean Sea constitutes the north-easterly part of the eastern Mediterranean Sea. It is connected with the Mediterranean Sea through the passages between Crete-Karpathos-Rhodes-Turkey (southeast) and Crete-Antikythera-Kythera-Peloponnese peninsula (southwest). The sea surface temperatures and salinities of Aegean Sea fluctuate spatially and seasonally. Salinity values vary from less than 31.0 psu, in the north, to more than 39.0 psu, in the southeast (Poulos *et al.,* 1997).

The Eastern Mediterranean Sea comprises the Ionian and the Levantine Basin, the Adriatic and Aegean seas. The Levantine Basin is one of the major basins of the Mediterranean Sea. (Özsoy & Sözer, 2006). The Levantine surface water reaches the Cretan (Archipelago) in the North, the Aegean Sea in the Northwest. The sub-surface water salinity is usually determined at minimum 38.6 psu and 38.8–39.0 psu maximum (Alhammoud *et al.,* 2005; Geurguess & Chantsev, 2005; Özsoy & Sözer, 2006). Turkey is characterized by temperate Mediterranean climate along the southern coasts, oceanic climate along the Black Sea coasts and continental climate in the interior parts.

Inland waters: Anatolia is quite rich in terms of inland waters. Especially numbers of cold and hot water springs, rivulets, creeks, waterfalls, cascades and streams are very high. Lakes may have different kinds of geomorphological basin formation. Most of them have tectonic basins, the others have basin formations such as alluvium, crater or obruc. In addition to lentic and lotic systems, Ostracoda species could be found in slough, swamp, reed bed, water-pitand puddle. Besides the natural water sources, there are many man-made water bodies such as reservoirs, small pools for animals, pools of fountains, trough and rice-fields where Ostracods are known to live.

The habitats of Ostracods are summarized in 9 groups according to their features in Table 2 (lakes; streams; pool – reservoirs; springs; hot water springs; cave and groundwater; other; brackish water, lagoon, salt lake, saltpan; and marine (for freshwater species that found marines).

Tables: Free living marine and quaternary species were summarized alphabetically in Table 1 and, free living fresh water and Quaternary species were summarized in Table 2. The reference numbers that used in Tables 1-2 are explained in Table 3. There are some genera that are common in freshwater habitats but represented in marine habitats with few species and some genera that are common in marine habitats but few species are found in freshwater habitats. These species were reported in the tables where the genera is commonly found. Invalid species names that had been used in the former publications, habitat preferences of freshwater species, distribution of marine species in surrounding

area and stratigraphic distribution of Quaternary species were also indicated in the tables. Research areas of the reviewed manuscripts were demonstrated by the numbers in the map (Fig. 1).

Statistics: The similarity between habitats were calculated according to Bray-Curtis similarity index using Biodiversity (version-2) software program.

Literature examined: While preparing the species list and habitats many manuscripts that species and their habitat is clear were used also theses, conference proceedings and books which had focused on the recent and Quaternary ostracod fauna of Turkey were reviewed. Most of these studies were faunistic and the data that they contain were used directly. However some of them were ecological and cytological studies. In such cases only the data of distribution or other useful data were used. (Belentepe, 1989; Sarı & Ulakoğlu, 1992; Sarı, *et al*. 2001; Kubanç N., 2002; Kubanç & Gülen, 2002; Ustaoğlu *et al.,* 2003; Balık *et al*., 2004; Aygen & Balık, 2005; Balık *et al*., 2006; Çelekli & Külkoyluoğlu, 2007; Kubanç *et al.,* 2007; Ustaoğlu, *et al.,* 2008; Özuluğ & Suludere, 2013). Data from theses and the publications that follow them were use different sets and types of data were presented. If not, only one of them was used. We obtained many of the theses, from the national thesis centre with the approval of the author (Council Of Higher Education Thesis Center: http://tez.yok.gov.tr).We did not use theses without author approvals for the study.

We followed up several studies or reviews to determine the confirmed names, synonyms, authors of each species and also species distributions. (Delorme, 1967; Ghetti, 1972; Hartmann & Puri, 1974; Atersuch, 1977; Kempf, 1980; Gülen *et al.,* 1994a; Kempf, 1986a; Kempf, 1986b; Meisch, 1984; 2000; Oertli, 1985; Athersuch *et al.,* 1989; Matzke-Karasz, 1995; Altınsaçlı & Griffiths, 2002; Frenzel & Viehberg, 2004; Altınsaçlı, 2004; Aiello & Barra, 2010; Martens & Savatenalinton, 2011; Karanovic, 2012; Külköylüoğlu, 2013 and WoRMS:http://www.marinespecies.org).

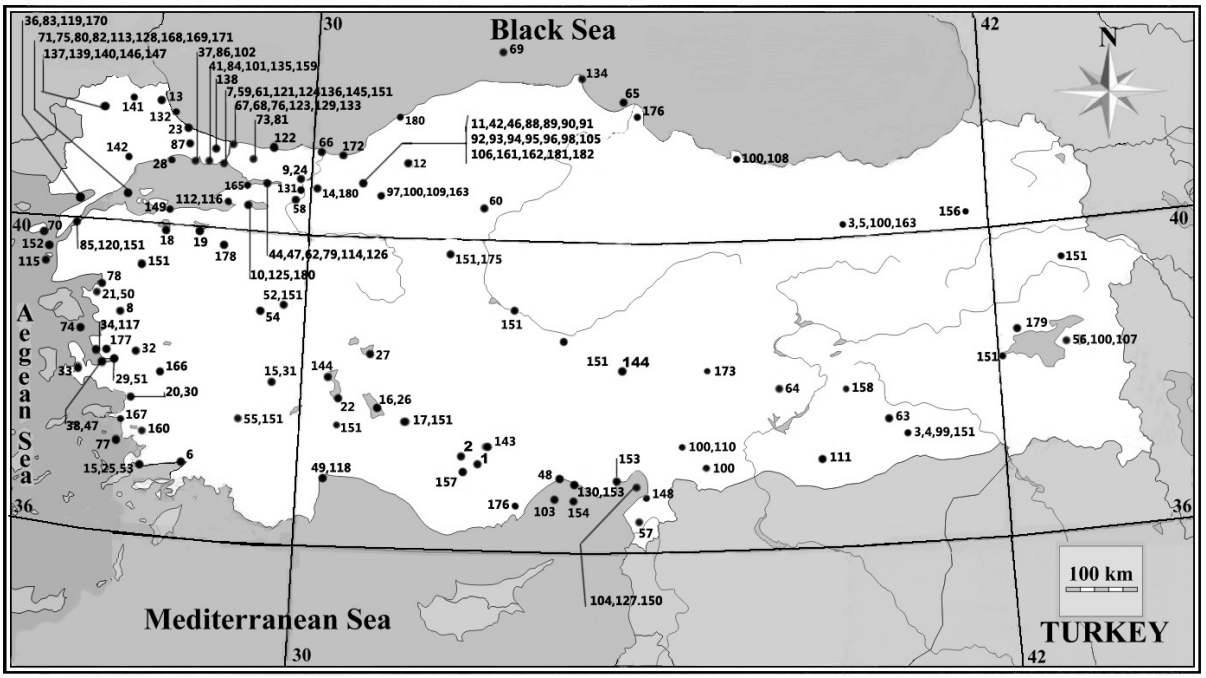

Figure 1: Distribution of studies on free living and quaternary Ostracoda on Turkey.

Results and Discussion

Quaternary Ostracoda

There are 36 paleontological studies which have mentioned the Quaternary period that were reviewed. Totally 185 species were recorded in both Table 1 and Table 2. Among them 42 species were recorded only from Quaternary period. Four of them, *Vestalenula cylindrica* (Straub, 1952)*, Candona decimai* Freels, 1980, *Dolerocypri sanatolia* Tunoğlu, Besbelli & Ertekin 2012, *Candona iliensis* Mandelstam, 1963 were the species that are recorded from only Pleistocene period (Matzke-Karasz & Witt, 2005; Tunoğlu *et al.,* 2012). Seventeen species and two subspecies were recorded only from Pleistocene and Holocene period. These species are; *Aurila arborescens* (Brady,1865); *Bathycythere vanstraateni* Sissingh, 1971; *Bosquetina tarentina* (Baird, 1850); *Buntonia dertonensis* (Ruggieri, 1954); *Bythocypris obtusata* (Sars, 1866); *Cytheridea papillosa* Bosquet, 1852; *Cytheropteron pseudoalatum* Colalongo & Pasini, 1980; *Euxinocythere lopatici* (Schornikov, 1964); *Heterocyprideis sorbyana* (Jones, 1857); *Krithe keyi* Breman, 1978; *Krithe monosteracensis* Sequenza, 1880; *Leptocythere peterseni* Mostafawi, 1989; *Loxoconcha lepida* Stepanaitys, 1962; *Macromckenziea ligustica* (Bonaduce, Masoli & Pugliese, 1977); *Candona burdurensis* Freels, 1980; *Candona fastigata* Freels, 1980; *Pseudocandona rostrata* (Brady & Norman, 1889); *Pseudocythere caudate mediterranea* Bonaduce, Masoli, Pugliese, McKenzie, 1980; *Candona parallela pannonica* Zalanyi, 1959.

Only 21 species and one subspecies were recorded for Holocene period. These species are; *Aurila albicans* (Ruggieri, 1958); *Aurila amygdala* (Stephenson, 1944); *Callistocythere elena* Barbeito-Gonzalez, 1971; *Cushmanidea lithodomoides* (Bosquet, 1852); *Cytherella lata* Brady, 1880; *Henryhowella asperrima* (Reuss 1850); *Leptocythere bisulcata* Stancheva, 1964; *Leptocythere levis* (G. W. Müller, 1894); *Loxoconcha ancilla* Stancheva, 1964; *Orionina bireticulata* Doruk, 1974; *Paracypris polita* Sars, 1866; *Semicytherura robusta* Bonaduce, Ciampo & Masoli, 1976; *Candona amblygonica* Freels, 1980; *Candona araxica* Freels, 1980; *Candona liventalina* (Evlachova); *Candona srebarnensis* Stancheva 1981; *Cyclocypris globosa* (Sars, 1863); *Eucypris crassa* (O.F. Müller, 1785); *Gomphocythere geareyi* Boomer & Gearey , 2010; *Leucocythere luculenta* (Livental, 1929); *Limnocythere inopinata sevanensis* (Bubikyan, 1984); *Pseudocandona trigonella* (Klie, 1931); (Table 1- 2). (Gökçen, 1976; Margaritoria *et al.,* 1977; Bassiouni, 1979; Doruk, 1980; Gülen *et al*., 1990a; Gülen *et al.,* 1990b; Gülen, *et al.,* 1995; Nazik & Öğrünç, 1998; Şafak & Taner, 1998; C. Kubanç *et al.*1999; Meriç *et al.,* 1999; Nazik *et al.,* 1999; Meriç *et al.,* 2000a; Meriç *et al.,* 2000b; Meriç *et al.,* 2003; Kerey *et al.,* 2004a; Kerey *et al.,* 2004b; Schneider *et al.,* 2005; Matzke-Karasz & Witt, 2005; Meriç, & Algan, 2007; Dolu *et al.,* 2007; Ertekin & Tunoğlu, 2008; Kırcı-Elmas *et al.,* 2008; Meriç *et al.,* 2009a; Ongan *et al.,* 2009; Galicki & Doerner, 2010; Boomer & Gearey, 2010; Mischke *et al.,* 2012; Boomer *et al.,* 2010; Algan *et al.,* 2011; Tunoğlu *et al.,* 2012; Bassler-Veit *et al.,* 2013; Nazik *et al.,* 2011; Meriç *et al.,* 2013; Şafak, 2013; Tuncer *et. al.,* 2013).

Free-living Marine Ostracods

There are 46 publications of the studies that had been conducted in Aegean Sea, Black Sea, Sea of Marmara, and Mediterranean (Kimor & Berdugo, 1967; Kubanç & Altınsaçlı, 1990; Kılıç, 1992; Kaleli, 1993; Nazik, 1994; C. Kubanç, 1995; Öztürk, 1995; Tunoğlu, 1996a; Tunoğlu, 1996b; Tunoğlu, 1998; Tunoğlu, 1999; Şafak, 1999; Kılıç *et al.,* 2000; N. Kubanç & Kılınçarslan, 2001; Kılıç, 2001; Nazik, 2001; N. Kubanç & Gülen, 2002; Meriç *et al.,* 2002; C. Kubanç, 2002; Tunoğlu, 2002; Şafak, 2003; C. Kubanç 2003; Opreanu, 2004; C. Kubanç 2005; N. Kubanç, 2005; Külköylüoğlu *et al.,* 2005; Meriç *et al.,* 2005; Perçin & C. Kubanç,

2005; Akıncı, 2006; Bergin *et al*., 2006; Erkmen & Özel, 2006; N. Kubanç 2006; Barut *et al.,* 2007; Külköylüoğlu *et. al.,* 2007a; C. Kubanç *et al*., 2008; Meriç *et al.,* 2008a; Meriç *et al.,* 2008b; Şafak, 2008; Şafak & Heybeli, 2008; Çulha, 2009; Meriç *et al.,* 2009b; Meriç *et al.,* 2010; Paçal, 2011; Paçal & Balkıs, 2012; Artüz *et al.,* 2013; Nazik *et al*., 2013). There are 308 free living ostracod species were listed in Table 1. There are some species that are generally known to be marine or brackish habitats were recorded from fresh water habitats such as lake, stream and reservoirs. These species are *Callistocythere diffusa* (G.W. Müller, 1894); *Cytherois fischeri* (Sars, 1866); *Leptocythere lacertosa* (Hirschmann, 1912); *Loxoconcha elliptica* Brady, 1867; *Loxoconcha immodulata* Stepanaitys,1958; *Tyrrhenocythere amnicola* (Sars, 1887) (Altınsaçlı & Yılmam, 1995; Altınsaçlı, 1997; Altınsaçlı, 1999; Gülen & Altınsaçlı, 1999; Özuluğ, 2000; Altınsaçlı, 2003; Özuluğ, 2005b; Özuluğ & Yaltalıer, 2008; Yaltalıer, 2007; Özuluğ, 2012; Öztürkçü, 2012; Altınsaçlı, 2014). These species were found very close or connected with the marine coast. Most of these species are known from Holocene period therefore in parallel with some geographical changes. The current habitats of these species are consistent with the new formed habitats.

In addition to habitat preferences, the similarity of habitat compositions were calculated according to species presence / absence data amongst four major seas with quaternary period. Bray-Curtis cluster analysis distinguished four groups (Fig. 2); first group included only Black Sea, the second group included only Mediterranean Sea and third group is Quaternary period. The last group is the mixture of the Sea of Marmara and Aegean Sea. Hydrography of Black Sea is characterized by low salinity surface waters as a result of the river input in to the Black Sea (Ivanov *et al.,* 2000). The low salinity Black Sea waters flowing through the Bosporus enter the Sea of Marmara as a surface current. Denser, high salinity Aegean Sea flows through the Dardanelles as an undercurrent (Beşiktepe *et al.,* 2000). It can be said that both salinity and water flow directions affect species distribution. Also, a close similarity between quaternary period and Aegean and Sea of Marmara was found. This interesting situation would be changed in the future by latest paleontological studies on Black Sea and Mediterranean.

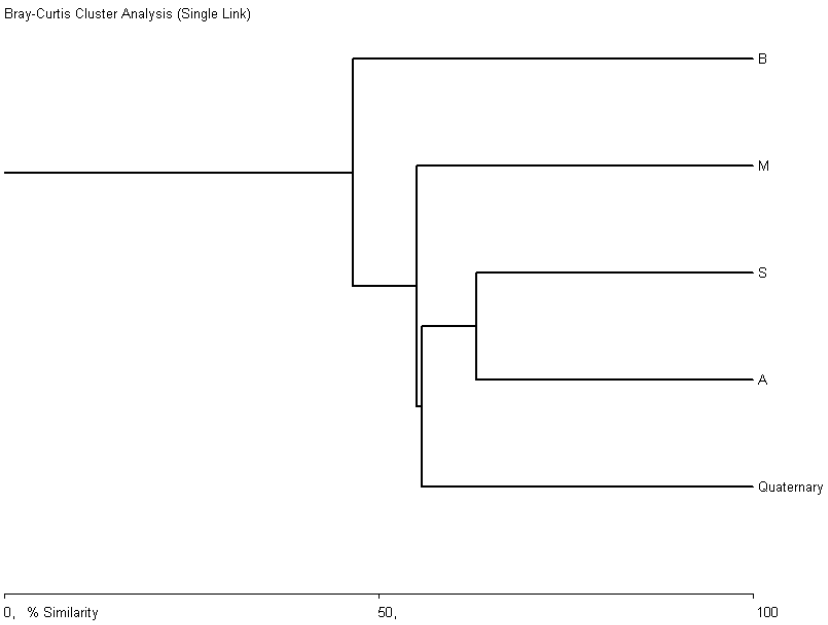

Figure 2: Similarity analysis on Marins: A: Aegean Sea, B: Black Sea, S: Sea of Marmara, M: Mediterranean.

Free-living Non-Marine Ostracods

We reviewed 100 studies that were conducted in the various habitats in Turkey. (Schäfer, 1952; Hartmann, 1964; Şahin & Baysal, 1972; Tareen, 1974; Gülen, 1975; Gülen, 1977; Gülen, 1982; Gülen, 1984; Gülen, 1985a; Gülen, 1985b; Gülen, 1988; Belentepe, 1989; Altınsaçlı S. & Kubanç C. l990; Sarı & Ulakoğlu, 1992; Altınsaçlı S. 1993; Külköylüoğl, *et al.,* 1993; Gülen *et al.,* 1994b; Altınsaçlı, S. & Yılmam, 1995; Külköylüoğl, *et al.,* 1995; Çakıl, 1996; Altınsaçlı S., 1997; Gülen *et al.,* 1997; Aygen & Balık, 1998; Külköylüoğlu, 1998; Altınsaçlı S., 1999; Gülen & Altınsaçlı S., 1999; Altınsaçlı S, 2000a; Altınsaçlı *et al.,* 2000a; Altınsaçlı S., 2000b; Altınsaçlı *et al.,* 2000b; Özulug, 2000; Koç, 2000; Altınsaçlı, S. 2001; Altınsaçlı, S. & Griffiths, H. I. 2001a; Altınsaçlı, S. & Griffiths, 2001b; Altınsaçlı S. & Griffiths, 2001c; Özulug *et al.,* 2001; Sarı *et al*., 2001; Aygen & Balık, 2002; Özulug, 2002; Özulug & Kılıç, 2002; N. Kubanç, 2002; Altınsaçlı S., 2003; Külköylüoğlu, 2003a; Külköylüoğlu, 2003b; Külköylüoğlu, 2003c; Külköylüoğlu, 2003d; Ustaoğlu *et al*., 2003; Akdemir, 2004; Altınsaçlı *et al.,* 2004; Balık *et al.,* 2004; Külköylüoğlu, 2004; Külköylüoğlu & Dügel, 2004; Yılmaz, 2004; Altınsaçlı S. & Altınsaçlı S., 2005; Aygen & Balık, 2005; Külköylüoğlu, 2005a; Külköylüoğlu, 2005b; Külköylüoğlu, 2005c; Özulug, 2005a; Özulug, 2005b; Balık *et al*., 2006; Yılmaz & Külköylüoğlu, 2006; Külköylüoğlu & Yılmaz, 2006; N. Kubanç *et al.,* 2007; Külköylüoğlu *et al.,* 2007c; Çelekli & Külköylüoğlu, 2007; Yaltalıer, 2007; Akdemir, 2008; Altınsaçlı S. & Mezquita, 2008; Dügel *et al.,* 2008; Sarı-Karakaş & Külköylüoğlu, 2008; Ustaoğlu *et al*., 2008; Özulug & Yaltalıer, 2008; Tunoğlu & Ertekin, 2008; Akdemir, 2009; Altınsaçlı, S. & Altınsaçlı, S. 2009; Özulug & Yaltalıer, 2009; Külköylüoğl, *et al.,* 2010; Sarı & Külköylüoğlu, 2010; Akdemir & Külköylüoğlu, 2011; Özuluğ, 2011; Külköylüoğlu & Sarı, 2012; Külköylüoğlu *et al.,* 2012a; Külköylüoğlu *et al.,* 2012b; Külköylüoğlu *et al.,* 2012c; Külköylüoğlu *et al*., 2012d; Öztürkçü, 2012; Özuluğ, 2012; Sarı *et al*., 2012; Ustaoğlu *et al*., 2012; Yavuzatmaca *et al*., 2012; Külköylüoğlu *et al.,* 2013; Özuluğ & Suludere, 2013; Akdemir & Külköylüoğlu, 2014; Altınsaçlı S., 2014; Altınsaçlı *et al.,* 2014; Külköylüoğlu *et al.,* 2014; Rasoulie*t al*., 2014; Uçak *et al*., 2014; Özuluğ & Dökümcü, 2014; Külköylüoğlu *et al.,* 2015; Yavuzatmaca *et al*., 2015; Akdemir *et al*., 2016; Külköylüoğlu *et al.,* 2016; Yavuzatmaca *et al*., 2017). All the recent freshwater species were reported (Table 2). Ten species that recorded in Table 2 were dated from Pleistocene. These species are; *Candona neglecta* Sars, 1887, *Candona weltneri weltneri* Hartwig, 1899; *Cyclocypris ovum* (Jurine, 1820); *Cypris pubera* O. F. Müller, 1776; *Darwinula stevensoni* (Brady & Robertson, 1870); *Heterocypris salina* (Brady, 1868); *Ilyocypris bradyi* Sars, 1890; *Ilyocypris gibba* (Ramdohr, 1808); *Pseudocandona compressa* (Koch, 1838); *Scottia pseudobrowniana* Kempf, 1971. Nine species were from Holocene: *Candona angulata* G.W. Müller, 1900; *Candona candida* (O.F. Müller, 1776); *Candonopsis kingsleii* (Brady & Robertson,1870); *Cypridopsis vidua* (O.F. Müller, 1776); *Cytherissa lacustris lacustris* (Sars, 1863); *Eucyprinotus rostratus* (Sywula, 1966), *Heterocypris incongruens* (Ramdohr, 1808); *Limnocythere inopinata* (Baird, 1843); *Prionocypris zenkeri* (Chyzer & Toth, 1858). It is very interesting that the cosmopolitan species *H. incongruens* was not recorded from Pleistocene. In other words, *H. incongruens* in the Turkey was from Holocene period. Further paleontological studies are necessary to confirm this finding.

Some species such as *Darwinula stevensoni*, *Leptocythere lacertosa*, *Cyprideis torosa*, *Cyprideis anatolica, Loxoconcha elliptica, Eucypris virens* and *Cypridopsis vidua* were reported from euhaline and polyhaline habitats that salinity values are between %040-%273 (Barut *et al*., 2007; Meriç *et al*., 2010). However, it is very difficult to understand what the population of these species are like in the saltpan. Meriç *et al*., (2010) suggested that these specimens might be carried to the extreme habitat due to pumping the sea waters (Aegean Sea) into the salt ponds. Similar situation can be said for salt lakes that are very close to seas.

Specimens are likely to be drifted from marine habitats to salt lake habitats or by streams that are linked to salt lakes. In addition, *Cypridopsis vidua, Heterocypris salina, Heterocypris incongruens*, *Ilyocypris gibba, Ilyocpris inermis, Limnocythere inopinata, Potamocypris seueri, Potamocypris villosa* are recorded from marine habitats (Kılıç, 2001; Meric *et al*., 2002; Özuluğ & Kılıç, 2002; Paçal & Balkıs, 2012). Almost all species were reported from Sinop coast of the Black Sea (Kılıç, 2001) where many streams flow in to the Black Sea. In other words, it is not surprising that these species were observed in estuaries. *P. steuri* was also recorded from both the Black Sea and Alanya cost of the Mediterranean Sea. This situation is compatible with our knowledge about the ecology of this species that mentioned in Meisch (1985).

When we analyzed species distribution, similarity index of the habitat compositions were calculated according to species presence / absence data amongst nine habitats, that mentioned in Table 2 (except "Other" column), with quaternary period. As a result of Bray-Curtis analysis, cave and ground waters, quaternary, marines (included freshwater species that found in marines) and hot water springs were distinguished, each one as a separate group. However, brackish-lagoon, springs, pool-reservoirs, streams and lakes were found more close to each other (Fig. 3). The similarity between quaternary period and current time period was found to be very low. This suggests that there have been no table changes in the fauna over time. Species patterns of common inland water habitats were very similar to faunal patterns of four major inland habitats (stream, lake, spring, pool and reservoir). This is possibly due to the large number of common species that are found in these habitats. Rare or endemic species number were low. The frequency of common species like as *C. neglecta* (recorded in 74 paper) and *C. torosa* (67 paper) also *C. vidua* (69 paper) *H. incongruens* (63 paper) supports our opinion. The monotonicity of faunal pattern in the inland waters would be signal of some environmental problems.

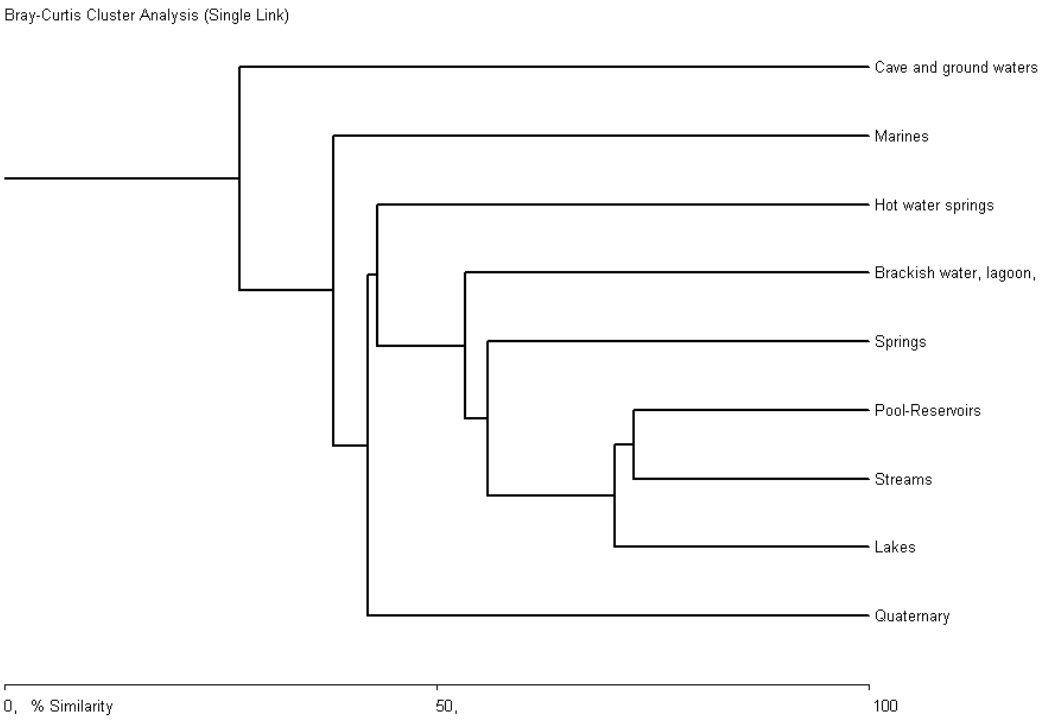

Figure 3: Similarity analysis on inland water habitats with marine.

Table 1: Free living marine and quaternary species.
▼:The species that recorded only Quaternary period. (*): The species that valid or invalid not clear. Synonyms: Contain species names, referred in literature. E: Earlier Pleistocene, M: Middle Pleistocene, L: Late Pleistocene. A: Aegean Sea, B: Black Sea, S: Sea of Marmara, M: Mediterranean. Str: Stream, La.: Lake, PR: Pool-Reservoir, Sp.: Spring.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Acanthocythereis ascolii (Puri, 1963)				**A, S, B.**	•			43, 171, 172.
Acantocythereis hystrix (Reuss, 1850)	*Trachyleberis hystrix* (Reuss, 1849)	**L, E.**	•	**M, A, S.**				6, 38, 43, 48, 62, 74, 75, 79, 80, 82, 83, 114, 116,118, 120, 127,130, 128, 148, 150, 152, 154, 170, 171.
Actinocythereis dunelmensis (Norman, 1865)	*Cythereis dunelmensis* Norman, 1865			**A, S.**	•			75, 78, 80, 82.
*Amnicythere quinquetuberculata** (Schweyer, 1949)				**B.**	•			172.
Archiconchoecia striata G. W. Müller, 1894				**A.**				47.
Archypolycope demulderi * (Sissingh, 1972) Chavtur, 1981	**Polycope demulderi* Sissingh, 1972			**A.**				43, 74, 83.
Argilloecia acuminata G. W. Müller, 1894		**L.**	•	**A, B.**	•			43, 48, 76.
Argilloecia conoidea Sars, 1923			•	**M, A.**				114, 118, 121, 128, 152, 153, 154, 155.
Argilloecia minor (G. W. Müller, 1894)				**S, B.**	•			76, 149.
Argilloecia robusta Bonaduce, Ciampo & Masoli, 1976				**S.**				149.
Aurila albicans (Ruggieri, 1958) ▼			•					130.
Aurila amygdala (Stephenson, 1944) ▼			•					59, 61, 114.
Aurila arborescens (Brady,1865)▼		**E**	•					165, 126.
Aurila convexa (Baird, 1850)			•	**M, A, S, B.**	•			6, 7, 35, 38, 43, 68, 69, 75, 78, 80, 82,83,85, 103,104, 114, 115, 116, 118, 119, 120, 121, 128, 129, 130, 133, 148,150, 152, 153, 154, 171, 172.
Aurila ducasseae (Moyes,1961)				**M.**				127.
Aurila maculosa Uliczny, 1969		**L, E.**	•	**A.**				35, 83.
Aurila oblonga (Moyes, 1965)				**A.**				83.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Aurila prasina Barbieto-Gonzalez, 1971				**A, S, B.**	•			6, 68, 70, 76, 78, 80, 82, 83, 102, 118, 171.
Aurila speyeri (Brady, 1868)	*Cythere speyeri* Brady, 1880			**M, A, S, B.**	•			6, 68, 74, 76, 78, 80, 82, 118, 152, 154, 155.
*Aurila veniliae** Uliczny, 1969				**S.**				171.
Aurila venus (Sequenza, 1883)				**A.**				43.
Aurila woodwardii (Brady, 1868)				**M, A, S.**	•			6, 78, 82, 153.
Bairdia conformis (Terquem, 1878)		**L.**	•	**A.**				43, 48, 74, 83, 118.
Bairdoppilata subdeltoidea supradentata (Terquem, 1878)	*Bairdoppilata supradentata* (Terquem, 1878)		•	**A, S.**				116, 120, 128, 152.
Basslerites berchoni (Brady, 1870)			•	**M, A, S.**				38, 116, 118, 120, 127, 130, 128, 133, 153, 154, 155
Basslerites teres (Brady, 1869)				**M.**				150, 148
Bathycythere vanstraateni Sissingh, 1971 ▼		**L.**	•					48.
Bosquetina carinella (Reuss, 1950)				**M, A, S.**				74, 83, 120, 152, 154, 155
Bosquetina dentata (G.W. Müller, 1894)			•	**A, S.**				38, 43, 116, 118, 128, 152. 169, 170, 171
*Bosquetina rhodiensis** Sissingh, 1972				**A.**				43.
Bosquetina tarentina (Baird, 1850) ▼		**L.**	•					48.
Buntonia dertonensis (Ruggieri, 1954) ▼		**L.**	•					48.
Buntonia giesbrechtii (G.W. Müller, 1894)			•	**A, S.**				38, 43, 75, 85, 118, 128. 137, 171.
Buntonia sublatissima (Neviani, 1906)	*Buntonia sublatissima sublatissima* (Neviani, 1906)	**L.**	•	**A, S.**				43, 48, 116, 120, 152, 171.
*Buntonia sublatissima dertonensis** Ruggieri, 1954				**A.**				43.
Buntonia subulata Ruggieri, 1954			•	**A, S.**				128, 152.
Buntonia textilis Bonaduce, Ciampo & Masoli, 1976		**L.**	•	**A.**				48, 74.
Bythocypris bosquetiana (Brady, 1866)	*Bairdia bosquetiana* Brady, 1866			**A.**				43.
Bythocypris obtusata (Sars, 1866)▼		**L.**	•					48.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Bythocythere minima Bonaduce, Ciampo & Masoli, 1976			•	**M, A, S.**				6, 38, 43, 116, 120, 133, 132,
Bythocythere turgida Sars, 1866				**A, S, B.**	•			74, 76, 83, 134, 149
Callistocythere (Rastrocythere) rastrifera (Ruggieri, 1953)	*Leptocythere rastrifera* Ruggieri, 1953		•	**A, S.**	•			102, 114, 121, 129, 152, 149.
Callistocythere adriatica Masoli, 1968			•	**A, S, B.**	•			43, 76, 83, 118, 124, 171, 172.
Callistocythere crispata (Brady, 1868)	*Cythere crispata* Brady, 1868			**M, A, S, B.**	•			74, 134,150. 148, 149.
Callistocythere elena Barbeito-Gonzalez, 1971▼			•					62, 79, 114.
Callistocythere flavidofusca (Ruggieri, 1950)				**B.**				134.
Callistocythere intricatoides (Ruggieri, 1953)		**L, E**	•	**A, S.**				6, 7, 43, 74, 120, 125,131, 152, 165.
Callistocythere littoralis (G.W. Müller, 1894)		**L, M, E.**	•	**M, A, S, B.**	•			67, 71, 76, 83, 114, 118, 119, 123, 152, 171.
Callistocythere lobiancoi (G.W. Müller, 1894)				**A, S.**				6, 75, 80, 82, 85, 114.
Callistocythere montana Doruk, 1980			•	**A, S.**				38, 114, 116, 121, 128, 133, 152.
Callistocythere pallida (G.W. Müller, 1894)			•	**M, A, S, B.**	•			76, 114, 116, 118, 120, 121, 128, 132, 133, 152, 154, 155.
Callistocythere vexata Bonaduce, Ciampo & Masoli, 1976		**L.**	•	**S.**				48, 149.
Carinocythereis antiquata (Baird, 1850)	*Cythereis antiquata* Baird, 1850	**L, E.**	•	**M, A, S, B.**				6, 35, 43, 61, 62,74, 75, 76, 79, 80, 82, 83, 85, 103, 104, 114, 116, 121,127,129,130, 134, 152, 153, 154, 172,
Carinocythereis carinata (Roemer, 1838)		**L, E.**	•	**M, A, S, B.**				6, 7, 38, 43, 44, , 62, 74, 79, 83, 114, 115, 116, 118,119, 120,121, 127, 128, 129,130, 132, 133, 148, 150, 152, 153, 154, 171, 172.
Carinocythereis meulenkampi Sissing, 1972				**A, S.**				38, 43, 115, 116, 171.
Carinocythereis rhombica Stambolidis, 1982		**L**	•	**A, S.**				74, 83, 120, 165.
Caudites calceolatus (Costa, 1853)				**A.**				6, 78, 152.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Celtia quadridentata (Baird, 1850)	*Cythere quadridentata* Baird, 1850; *Falunia quadridentata* (Baird, 1850); *Olimfalunia quadridentata* (Baird, 1850); *Hiltermannicythere turbida* (G. W. Müller, 1894); *Carinocythereis quadridentata* (Baird, 1850).	**L, E.**	•	**M, A, S.**				6, 7, 38, 43, 44, 62, 74, 75, 79, 80, 82, 85, 114, 115, 116, 125, 120, 121, 128,130, 131,148, 150, 152, 153.
Cistacythereis caelatura Uliczny, 1969			•	**M.**				127, 130, 154, 155
Costa batei (Brady, 1866)		**L, E.**	•	**M, A, S.**				6, 35, 43, 44, 62, 75, 79, 80, 82, 114, 115, 118,119, 120,127, 128,130, 152, 153, 154. 155.
Costa edwardsii (Roemer, 1838)		**L, E.**	•	**M, A, S, B.**	•			6, 38, 43, 44, 61, 62, 69, 74, 75, 79, 80, 82, 83, 114, 116, 120, 121, 128, 129, 132, 133, 143, 148,150, 152, 153, 154, 171, 172.
Costa tricostata (Reuss, 1850)			•	**A, S.**				38, 43, 116, 118, 130, 133, 171.
Cuneocythere semipunctata (Brady, 1868)				**S.**				149.
Cushmanidea elongata (Brady, 1868)	*Pontocythere elongata* (Brady, 1868)	**L.**	•	**M, A, S, B.**	•			7, 62, 68, 78, 74, 79, 76, 83, 104, 114, 116, 118, 119, 120, 121, 127,130, 128, 129, 133, 135,137, 148, 150, 152, 153, 154, 155
Cushmanidea lithodomoides (Bosquet, 1852) ▼			•					67.
Cushmanidea turbida (Mueller, 1894) Puri, Bonaduce & Malloy, 1965	*Pontocythere turbida* (G. W. Müller, 1894)	**L, E**		**M, A, S, B.**	•			6, 43, 76, 83, 137, 150, 165, 148, 149.
Cyprideis anatolica Bassiouni, 1979			•	**A.**		•		35, 117, 130, 152.
Cyprideis pannonica (Mehes, 1908)				**A.**				152.
*Cyprideis seminulum** (Reuss, 1850)				**M.**				154, 155
*Cyprideis sohni** Bassiouni, 1979			•	**S.**				35, 114, 121, 129, 171.
Cyprideis torosa (Jones, 1850)	*Cytheridea littoralis* Brady, 1868; *Cyprideis tetratuberculata* Krstic, 1968; *Cyprideis trituberculata* Krstic, 1968; *Cyprideis tuberculata* (Mehes, 1908).	**L, M, E.**	•	**M, A, S, B.**	•	•		6, 8, 14,21, 23, 13, 14, 15, 22, 34, 35,36, 41, 43, 44, 54, 56, 59, 61, 65, 66, 67, 68, 69,70, 74, 75, 76, 78, 79, 80, 82,83, 85, 87,98, 101, 102 103, 104, 112, 113,114, 115, 117, 118, 120, 121, 122, 123,124, 126,128, 130, 133, 135,

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
								137, 143, 146, 150, 152, 153, 154, 156, 160, 171, 176.
Cythere crenulosa Terquem, 1878	*Urocythereis crenulosa* (Terquem, 1878)	**L, E**		**M, S**				120, 165
*Cytherella (Cytherelloidea) beckmanni** (Barbeito-Gonzalez, 1971) Sissingh, 1972	*Cytherelloidea beckmanni* Barbeito-Gonzalez, 1971			**M, A.**				6, 119.
Cytherella abyssorum Sars, 1866				**A.**	•			78.
Cytherella alvearium Bonaduce, Ciampo & Masoli, 1976				**M, A, S.**	•			6, 87, 74, 83, 148, 149, 150,
Cytherella circumpunctata Ciampo, 1976				**A.**				43.
Cytherella lata Brady, 1880▼			•					128.
Cytherella maremensis Artüz, Gülen & Kubanç, 2013				**S**				28.
Cytherella scutulum Ruggieri, 1976				**A.**				43.
Cytherella terguemi Sissingh, 1972				**M, A.**				43, 154, 155
Cytherella vandenboldi Sissingh, 1972			•	**M, A, S.**				
Cytherella vulgata Ruggieri, 1962			•	**M, A, S.**				43, 74, 83, 116, 120, 125, 152, 153, 154, 131.
Cytherelloidea sordida (G. W. Müller, 1894)			•	**M, A, S.**				6, 115, 119, 120,127,130,148, 150, 153.
Cytheretta adriatica Ruggieri, 1952				**M, A, S.**	•			6, 41, 74, 83, 101, 103,104, 148, 150,154, 155.
Cytheretta jurinii (Muenster, 1830)				**S.**				171.
Cytheretta semiornata (Egger,1858)			•	**M.**				127,130, 153, 154.155.
Cytheretta subradiosa (Roemer, 1838)	*Cytheretta rubra* G.W. Müller, 1894			**M, A, S.**				6, 43, 45,74, 148, 150, 154, 155.
Cytheridea acuminata (Bosquet, 1852)				**M, A, S, B.**				38, 43, 120, 134, 148, 150, 152, 154,172.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Cytheridea neapolitana Kollman, 1960		**L.**	•	**M, A, S.**				6, 38, 43, 62, 74, 79, 83, 85, 114, 116, 120, 130, 127, 128, 148, 150, 152, 153, 154, 155 171, 181.
Cytheridea papillosa Bosquet,1852▼		**L.**	•					62, 79, 114.
*Cytheridea paracuminata verrucosa** Kollmann, 1960				**M.**				154, 155
Cytherois fischeri (Sars, 1866)			•	**M, A.**	•		**La.**	15,130, 152, 153, 154, 155.
Cytherois frequens G. W. Müller, 1894				**A, S.**				43, 149.
Cytheroma karadagiensis Dubowsky, 1939				**S, B.**	•			134, 149.
Cytheroma variabilis G. W. Müller, 1894				**S, B.**	•			76, 134, 149.
Cytheropteron alatum Sars, 1866				**A, S.**				43, 74, 75, 80, 82, 83.
Cytheropteron latissimum (Norman, 1865)				**A, S.**				152, 171.
Cytheropteron latum G. W. Müller, 1894			•	**A, S.**				83, 120, 128.
Cytheropteron monoceros Bonaduce, Ciampo & Masoli, 1976				**A.**				43.
*Cytheropteron pseudoalatum** Colalongo & Pasini, 1980▼		**L.**	•					48.
Cytheropteron punctatum Brady, 1867				**A, S.**				38, 75, 80, 82, 83.
Cytheropteron rotundatum Müller, 1894		**L.**	•	**A, S.**				43, 48, 149.
Cytheropteron vespertilio (Reuss, 1850)				**S.**				149.
Darwinula cylindrica (Straub, 1952)			•	**M, S.**				128, 152, 154, 155
Dopseucythere mediterranea▼ (Bonaduce, Masoli, Pugliese & McKenzie, 1980)	*Pseudocythere caudata mediterranea* Bonaduce, Masoli, Pugliese, McKenzie, 1980	**L.**	•					48.
Echinocythereis keyseri Stambolidis, 1982				**A.**				83.
Echinocythereis laticarina (Brady, 1868)			•	**A, S.**				82, 83, 128, 152.
Eucytherura complexa (Brady, 1867)				**A.**				43.
Eucytherura gibbera G. W. Müller, 1894				**A.**				152.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Eucytherura mistrettai Sissingh, 1972				**A.**				43.
Eupolycope frequens (Mueller, 1894) Chavtur, 1981	*Polycope frequens* G. W. Müller, 1894			**A, B.**				74, 83, 134.
*Euxinocythere bacuana** Livental, 1938				**B.**	•			172.
*Euxinocythere lopatici** (Schornikov, 1964) ▼		**L, M, E.**	•					67, 114, 123, 132.
Falunia (Hiltermannicythere) pokornyi (Ruggieri, 1962) Bassiouni, 1970	*Cistacythereis pokornyi* (Ruggieri, 1962)			**M.**				153, 154, 155
Falunia plicatula (Reuss, 1850)		**L, M, E.**	•	**A, S, B**	•			43, 67, 114, 123, 171, 172.
Hansacypris rara (G. W. Müller, 1894)	*Aglaiocypris rara* (G. W. Müller, 1894)			**A, S.**				6, 149.
Hemicythere (Urocythereis) favosa (Roemer, 1838)	*Urocythereis favosa* (Roemer, 1838)		•	**M, A, S.**				43, 103, 104, 114, 118, 121, 127, 129, 130, 153, 154, 171.
Hemicytherura bulgarica (Klie, 1937) Elofson, 1941	*Eucytherura bulgarica* Klie, 1937			**S. A, B.**	•			70, 69, 149,
Hemicytherura cellulosa (Norman, 1865)	*Cytherura cellulosa* Norman, 1865			**S.**				149.
Hemicytherura videns (G. W. Müller, 1894)				**S.**				149.
Henryhowella asperrima (Reuss 1850)▼			•					7.
Henryhowella sarsii (G. W. Müller, 1894)		**L.**	•	**M, A.**				43, 48, 74, 83, 128, 152.
Heterocyprideis sorbyana (Jones, 1857)▼	*Cyprideis sorbyana* (Jones, 1857)	**L, E.**	•					44, 62, 79, 114.
Heterocythereis albomaculata (Baird, 1838)	*Cythereis (Eucythereis) albomaculata* (Baird, 1838) De Vos, 1957		•	**M, A, S, B.**	•			6, 35, 76, 102, 119, 148, 150, 153, 154, 155.
Hiltermannicythere emaciata (Brady, 1867)	*Falunia emaciata* (Brady, 1867)		•	**M, S.**				35, 119, 127, 133, 149.
Hiltermannicythere rubra (G. W. Müller, 1894)	*Carinocythereis rubra* (G. W. Müller, 1894); *Falunia rubra* (G. W. Müller, 1894); *Cythereis rubra* G. W. Müller, 1894.	**L, E**	•	**M, A, S, B.**	•			50, 76, 78, 120, 132,134, 148, 150, 165.
Hiltermannicythere rubra pontica (Dubowski, 1939)	*Cythereis rubra pontica* Dubowsky, 1939			**B.**	•			69.
Hirschmannia viridis (Mueller, 1785)				**M.**				153, 154, 155
Krithe bartonensis (Jones, 1857)				**M.**				154, 155
Krithe keyi Breman, 1978▼		**L.**	•					48.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Krithe monosteracensis Sequenza, 1880▼		**L.**	•					48.
Krithe praetexta (Sars, 1866)				**A.**				43.
Krithe reniformis (Brady, 1868)				**M, S.**				150, 148, 149.
Krithe similis (G. W. Müller, 1894)				**S.**				149.
Leptocythere (Callistocythere) diffusa (Mueller, 1894) Schornikov, 1966	*Callistocythere diffusa* (G.W. Müller, 1894)			**S, B.**	•		**Str.**	69, 80, 82, 134, 136,
Leptocythere bacescoi (Rome, 1942)				**A.**				6.
Leptocythere bisulcata Stancheva, 1964▼			•					114, 121, 129.
Leptocythere bituberculata Bonaduce, Ciampo & Masoli, 1976				**A.**				74, 77.
Leptocythere castanea (Sars, 1866)			•	**A, B.**	•			68, 71, 83, 114, 121, 129.
Leptocythere devexa Schornikov, 1966				**B.**				134.
Leptocythere histriana Caraion, 1964				**S.**		•		149, 137.
Leptocythere lacertosa (Hirschmann, 1912)			•	**M, A, S.**		•	**La.**	15, 36, 71, 99, 117, 128, 133, 153.
Leptocythere lagunae Hartmann, 1958				**A, B.**	•			6, 76.
Leptocythere levis (G. W. Müller, 1894) ▼			•					114, 121, 129.
Leptocythere macella Ruggieri, 1975				**M, S, B.**	•			76, 148, 149, 150.
Leptocythere multipunctata (Sequenza, 1883)		**L, E**	•	**M, A, S, B.**				45, 69, 83, 134, 149, 154, 165.
Leptocythere pellucida (Baird, 1850)			•	**S, B.**	•			78, 114, 121, 129, 171, 172.
*Leptocythere peterseni** Mostafawi, 1989▼		**L, E**	•					165.
Leptocythere pirsagatica (Livental, 1949)		**M.**		**B.**				114, 123, 172.
Leptocythere porcellanea (Brady, 1869)			•	**M.**				133, 153, 154,155.
Leptocythere psammophila Guillaume, 1976			•	**A.**				71, 114, 115, 128, 152.
Leptocythere ramosa (Rome, 1942)				**M, A, B.**	•			43, 76, 134, 153, 154, 155.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Leptocythere rara (G.W. Müller, 1894)			•	**M, S, B.**	•			23, 76, 114, 121, 129, 148, 150.
Loculicytheretta pavonia (Brady, 1866)			•	**M, A.**				6, 103,104, 127, 130, 148,150, 153, 154, 155.
Loxocauda pellucida (G. W. Müller, 1894*)*	*Loxoconcha pellucida* G.W. Müller, 1894.			**A, S.**				43, 149.
Loxoconcha affinis (Brady, 1866)				**A.**				74.
Loxoconcha agilis Ruggieri, 1967	*Palmoconcha agilis* (Ruggieri, 1967)		•	**M, A, S, B.**				40, 43, 74, 115, 116, 118, 124, 128, 132, 133, 148, 150, 153, 154, 171, 172.
Loxoconcha alata Brady, 1868			•	**A, S.**				43, 127, 149.
*Loxoconcha ancilla** Stancheva, 1964▼			•					114, 129, 121.
Loxoconcha bairdi G.W. Müller, 1912				**M, A, S.**				6, 74, 78, 118, 148, 149, 150.
Loxoconcha bulgarica Caraion, 1960				**S.**				149.
Loxoconcha concentrica Bonaduce, Ciampo & Masoli, 1976			•	**M.**				127, 153.
Loxoconcha elliptica Brady, 1867			•	**M, A.**	•		**La.**	7, 15, 34, 36,114, 115, 117, 126,153.
Loxoconcha exagona Bonaduce, Ciampo & Masoli, 1976				**M, A, S.**	•			6, 78, 148, 149, 150.
Loxoconcha gibberosa Terquem, 1878		**L, M, E.**	•	**A, S.**				6, 62, 74, 79, 77, 114, 165.
Loxoconcha gibboides Shweyer, 1949		**L, E.**	•	**S.**				67, 114, 123, 172.
Loxoconcha immodulata Stepanaitys,1958	*Loxoconchissa immodulata* (Stepanaitys, 1958)		•				**Str. PR.**	23, 9, 10, 14, 132,140, 142, 179.
Loxoconcha impressa (Baird, 1850)				**A.**	•			78, 102.
*Loxoconcha lepida** Stepanaitys, 1962 ▼		**L, M, E.**	•					40, 114, 123, 132.
Loxoconcha littoralis G. W. Müller, 1894				**S, B.**	•			76, 80, 82.
Loxoconcha mediterranea G. W. Müller, 1894			•	**A, S.**				114, 128, 129, 152, 121.
*Loxoconcha micra** Barbeito-Gonzales, 1971				**A.**				6.
Loxoconcha minima G. W. Müller, 1894				**M, S, B.**	•			76, 80, 82, 148, 150,

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Loxoconcha nea Barbeito-Gonzales, 1971				**M, S.**				148, 149, 150.
Loxoconcha obliquata Seguenza, 1880		**L, M, E.**	•	**A, S.**				43, 67, 114, 118,123, 171.
Loxoconcha ovulata (Costa, 1853)	*Loxoconcha tumida* Chapman, 1902.		•	**M, A, S, B.**	•			6, 43, 70, 74, 76, 80, 82, 83, 114, 118, 121, 129, 133, 148, 150, 152, 153, 154, 171, 172.
Loxoconcha parallela G. W. Müller, 1894				**M, A.**	•			6, 78, 153.
Loxoconcha pontica Klie, 1937				**A, S, B.**	•			70, 69, 80.
Loxoconcha punctatella (Reuss, 1850)				**A.**				74, 83.
Loxoconcha rhomboidea (Fischer, 1855)		**L, E.**	•	**M, A, S, B.**	•			6, 7, 38, 43, 62, 66, 69, 70,71, 74, 75, 76,79, 80, 82, 83, 85, 103, 104, 114, 115, 116, 118, 119, 120, 121, 125, 126,127, 128, 129, 130, 131, 133, 135, 148, 150, 152, 153, 154, 170, 171.
Loxoconcha rubritincta Ruggieri, 1964				**M, A.**				6, 150, 148.
Loxoconcha stellifera G. W. Müller, 1894		**E**	•	**M, A, S, B.**	•			6, 7, 76, 78, 80, 82, 83, 102, 148, 150, 154, 165.
*Loxoconcha sublepida** Stancheva, 1989				**B.**				172.
*Loxoconcha variesculpta** Ruggieri, 1962				**A.**				43.
Macrocyprina succinea (G. W. Müller, 1894)	*Macrocypris succinea* G.W. Müller, 1894.			**A.**				43.
Macromckenziea ligustica (Bonaduce, Masoli & Pugliese, 1977)▼	*Macrocypris ligustica* Bonaduce, Masoli & Pugliese, 1977.	**L.**	•					48.
Macropyxis adriatica (Breman, 1975)	*Macropyris adriatica* Breman, 1975			**S.**				149.
*Mediocypris candonaeformis straubi** Kheil, 1964				**S.**				171.
Microcythere obliqua G. W. Müller, 1894				**A.**				74.
Microcytherura angulosa (Seguenza, 1880)				**A, S.**				43, 116.
Microcytherura fulva (Brady & Robertson, 1874)			•	**M, S.**				119, 128.
*Microcytherura nigrescens*G. W. Müller, 1894				**S, B.**	•			69, 149.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Mikroconchoecia curta (Lubbock, 1862)				**M, A.**				47, 72.
*Monoceratina mediterranea** Sissingh, 1972		**L.**	•	**A.**				48, 74, 128.
Monoceratina oblita Bonaduce, Ciampo & Masoli, 1976				**A, S.**				77, 149.
Neocythere complicata (Ruggieri, 1953) Wilkinson, 1980	*Neocytherideis complicata* (Ruggieri, 1953)			**M, A.**				6, 150, 148.
Neocythere complicata (Ruggieri, 1953) Wilkinson, 1980	*Procytherideis complicata* (Ruggieri, 1953)		•	**M.**				127.
*Neocytherideis cylindrica** (Brady, 1868)	**Neocopytus cylindricus* (Brady, 1868).		•	**M, A.**				43, 103, 115, 127, 130, 148, 150, 152, 153, 154, 155.
Neocytherideis fasciata (Brady & Robertson, 1874)	*Neocytherideis subulata* (Brady, 1868); *Cytherideis subulata fasciata* Brady & Robertson, 1874; *Neocytherideis foveolata* (Brady, 1870).			**M, A.**				6, 43, 83, 118, 119, 148, 150, 153.
Neonesidea corpulenta (G. W. Müller, 1894)	*Bairdia corpulenta* G. W. Müller, 1894.		•	**M, A.**				43, 114, 116, 119, 121, 129.
Neonesidea crasenticlavula Maddocks, 1969				**A.**				83.
Neonesidea formosa (Brady, 1868)	*Bairdia formosa* Brady, 1868; *Bairdia serrata* G.W. Müller, 1894.		•	**M, A.**				74, 115, 119, 127, 152.
Neonesidea frequens (G. W. Müller, 1894)	*Bairdia frequens* G. W. Müller, 1894.			**M, A, S.**				118,119, 120.
Neonesidea longevaginata (G. W. Müller, 1894)	*Bairdia longevaginata* G. W. Müller, 1894.		•	**M, A, S.**				6, 82, 114, 118, 121, 129,148,150.
Neonesidea mediterranea (G. W. Müller, 1894)	*Bairdia mediterranea* G. W. Müller, 1894.		•	**A, S, B.**	•			6, 38, 43, 67, 74, 83, 114, 115, 118, 123, 129, 133, 152, 171, 172.
Occultocythereis dohrni (Puri, 1963)				**A.**				43.
*Orionina bireticulata** Doruk, 1974▼			•					128.
Palmoconcha bonaducei (Ciampo, 1972)	*Loxoconcha bonaducei* Ciampo, 1972			**A.**				6, 74.
Palmoconcha granulata (Sars, 1866)	*Loxoconcha granulata* Sars, 1866		•	**M, A, S, B.**	•			6, 61, 114, 134, 148,150, 152, 154, 160.
Palmoconcha turbida (Müller, 1894) yeniden sırala	*Loxoconcha turbida* G.W. Müller, 1912			**A, S.**				74, 120, 152.
Paracypris complanata (Brady & Robertson, 1869)	*Aglaiocypris complanata* (Brady & Robertson 1869).		•	**M, A, S.**				6,127, 149, 152, 153, 154, 155

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Paracypris polita Sars, 1866▼			•					133.
Paracypris sklira Barbeito-Gonzalez 1971				**A, S.**				6, 149.
*Paracytheridea bilacunosa** (Speyer, 1863)				**S.**				171.
Paracytheridea depressa G. W. Müller, 1894		**L, E**	•	**M, A, S.**				7, 43, 114, 116, 118, 120, 121,127, 129, 152, 153, 154, 165, 171.
Paracytheridea parallia Barbeito–Gonzalez, 1971		**L, E**	•	**M, A, S.**	•			6, 44, 62, 74, 79, 75, 76, 80, 82, 83, 85, 114, 128, 148, 150, 165.
Paracytherois ensiforme (Brady, 1868)	*Paradoxostoma ensiforme* Brady, 1868.	**L, E.**	•	**S.**				62, 79, 75, 80, 82, 114.
Paracytherois flexuosa (Brady, 1867)		**L.**	•	**A.**				43, 48.
Paracytherois mediterranea Bonaduce, Ciampo & Masoli, 1976	*Pseudocythere mediterranea* (Bonaduce, Ciampo & Masoli, 1980) Malz & Jellinek, 1994			**S.**				149.
Paradoxostoma angustum G. W. Müller, 1894				**A.**				43.
Paradoxostoma fuscum G. W. Müller, 1894				**M, S.**				68, 150, 148, 149.
Paradoxostoma guttatum Schornikov, 1965				**B.**				69.
Paradoxostoma intermedium G. W. Müller, 1894				**A, B.**				70, 69.
Paradoxostoma rarum G. W. Müller, 1894				**A.**				83.
Paradoxostoma taeniatum G. W. Müller, 1894				**S.**				149.
Paradoxostoma triste G. W. Müller, 1894			•	**S, B.**	•			76, 114, 116, 120, 121, 129, 133.
Parakrithe dimorpha Bonaduce, Ciampo & Masoli, 1976				**M.**				150, 148.
Polycope orbicularis Sars, 1866				**A.**				43.
Polycope orbulinaeformis Breman, 1976		**L.**	•	**A.**				43, 48.
Polycope parareticulata Bonaduce, Ciampo & Masoli, 1976				**A.**				74, 83.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Polycope reticulata G. W. Müller, 1894		**L.**	•	**A, S.**				43, 48, 74, 83, 171.
Polycope tholiformis Bonaduce, Ciampo & Masoli, 1976		**L.**	•	**A.**				43, 48.
Polycope vasfiensis Sissingh, 1972				**A.**				43, 74, 77.
Pontocypris acuminata (G. W. Müller, 1894)	*Erythrocypris acuminata* G. W. Müller, 1894.		•	**A, S, B.**				43, 74, 83, 115, 116, 118, 120, 128, 171, 172.
Pontocypris rara (G. W. Müller, 1894)	*Erythrocypris rara* G. W. Müller, 1894.			**S.**				152.
Pontocythere bacescoi (Caraion, 1960)				**B.**	•			13, 69.
Porroecia porrecta (Claus, 1890)	*Conchoecia porrecta* Claus, 1890.			**A.**				47.
Procytherideis subspiralis (Brady, Crosskey & Robertson, 1874) Ruggieri, 1978	*Neocytherideis subspiralis* (Brady, Crosskey & Robertson, 1874)			**M, A.**				6, 150, 148
Propontocypris intermedia (Brady, 1868)	*Pontocypris intermedia* Brady, 1868.			**A.**	•			6, 78.
Propontocypris dispar (G. W. Müller, 1894)				**M, A, S.**				6, 74, 85, 83, 153
Propontocypris pirifera (G. W. Müller, 1894)	*Pontocypris pirifera* Sars, 1866.		•	**M, A, S.**				6, 38, 43, 83, 114, 118,119, 121, 129, 154, 171.
Pseudocythere calcarata (Seguenza, 1880) Guillaume, Peypouquet & Tétart, 1985	*Pseudocytherura calcarata* (Seguenza, 1880)	**L, E.**	•	**M, S, B.**	•			7, 62, 74, 75, 76, 79, 80, 82, 114, 120, 128, 133, 154, 155, 165, 172.
Pseudocythere caudata Sars, 1866				**A.**				43.
Pseudocytherura pontica Dubovsky, 1939				**S.**				149.
*Pseudopsammocythere kollmanni** Carbonnel, 1966				**A.**				43.
Pseudopsammocythere similis (G. W. Müller, 1894)				**M,A, S.**				6, 43, 149, 154, 155.
Pseudopsammocythere similis (Mueller, 1894) Carbonnel, 1969	*Paradoxostoma simile* G. W. Müller, 1894	**L, M, E.**	•	**A, S, B.**				43, 67, 74, 76, 83, 114, 123, 134, 171, 172.
Pterygocythereis ceratoptera (Bosquet,1852)			•	**A, S.**				6, 43, 119, 120, 128, 152, 168, 171.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Pterygocythereis jonesii (Baird,1850)	*Cythereis Jonesii* Baird, 1850.	**L, E.**	•	**A, S, B.**				38, 43, 44, 61, 62, 74, 75, 79, 83, 114, 116, 120, 128, 133, 134, 152, 171, 172, 181.
Quadracythere prava (Baird, 1850)	*Cythereis polygonata* Rome, 1942; *Cythereis prava* (Baird, 1850); *Hemicythere prava* (Baird, 1850); *Jugosocythereis prava* (Baird, 1850); *Tenedocythereis prava* (Baird, 1850).	**L, E.**	•	**M, A, S.**				6, 35, 43, 74, 82, 83, 104, 115,116, 118, 119, 120, 127, 128, 148, 150, 152.
Rectotrachyleberis punctatissima (Ruggieri, 1962)	*Costa punctatissima* Ruggieri, 1962			**M, A, S.**				43, 74, 83, 154, 171.
Robertsonites tuberculatus (Sars, 1866)	*Cythereis tuberculate* Sars, 1866.			**S.**				75.
Sagmatocythere mediterranea (Mueller, 1894) Athersuch, 1976	*Callistocythere mediterranea* (G.W. Müller, 1894)		•	**M, A, S, B.**	•			38, 70, 69, 114, 115, 116, 121, 129, 133, 154.
Sagmatocythere napoliana (Puri, 1963)	*Loxoconcha napoliana* Puri, 1963.		•	**M, A, S.**				83, 150, 148, 149.
Sagmatocythere versicolor (G. W. Müller, 1894)	*Loxoconcha versicolor* G. W. Müller, 1894.			**A, S.**				6, 74, 77, 149.
Sclerochilus contortus (Norman,1862)			•	**A, S, B.**	•			43, 76, 83, 114, 121, 129, 133, 171,
Sclerochilus gewemuelleri Dubowsky, 1939				**B.**				69, 134.
Semicytherura acuminata (G. W. Müller, 1894)			•	**M, A, S.**				125, 129, 148, 150, 152, 154, 155
Semicytherura acuta (G.W. Müller, 1912)	*Cytherura nigrescens* G.W. Müller, 1894.			**S.**				116, 120.
Semicytherura acuticostata (Sars, 1866)		**L.**	•	**M, A, S.**				62, 79, 114, 118, 128, 129, 152, 154 121, 155.
Semicytherura aenariensis Bonaduce, Ciampo & Masoli, 1976				**M, A.**				150, 148.
Semicytherura alifera (Ruggieri, 1959)				**A.**				6.
Semicytherura amorpha Bonaduce, Ciampo & Masoli, 1976				**S, B.**				76, 149.
Semicytherura calamitica Schornikov, 1969				**B.**				134.
Semicytherura cribriformis (G. W. Müller, 1894)				**A, S.**				43, 171.
Semicytherura diafora Barbeito-Gonzalez, 1971				**A, S.**				6, 83, 149.
Semicytherura dispar (G. W. Müller, 1894)				**A.**				152.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Semicytherura incongruens (G. W. Müller, 1894)	*Cytherura incongruens* G.W. Müller, 1894.	**L.**	•	**M, S.**				62, 79, 75, 80, 85, 82, 114, 127, 130, 154, 155.
Semicytherura inversa (Seguenza, 1880)	*Cytherura inversa* Seguenza, 1880			**M, A, S.**				6, 7, 43, 74, 80, 82, 83, 116, 120, 152, 154.
Semicytherura mediterranea (G. W. Müller, 1894)				**A.**				6, 83,
Semicytherura paradoxa (G. W. Müller, 1894)	*Cytherura paradoxa* G. W. Müller, 1894		•	**A, S.**				43, 118, 125, 131, 171.
Semicytherura psila Barbeito-Gonzales, 1971				**A.**				6.
Semicytherura punctata (G. W. Müller, 1894)				**A.**				115.
Semicytherura rara (G. W. Müller, 1894)				**A, B.**				76, 83.
Semicytherura rarecostata Bonaduce, Ciampo & Masoli, 1976				**S, B.**				76, 80,
Semicytherura robusta Bonaduce, Ciampo & Masoli, 1976▼			•					130.
Semicytherura ruggierii (Pucci,1956)	*Cytheropteron ruggierii* Pucci, 1956		•	**M, A, S, B.**	•			43, 76, 83, 114, 129, 154. 149, 121, 149, 155.
Semicytherura sella (Sars, 1866)				**M.**				150, 148.
Semicytherura stilifera Bonaduce, Ciampo & Masoli, 1976				**S.**				149.
Semicytherura sulcata (G. W. Müller, 1894)			•	**M, A.**				6, 7, 43, 82, 102, 114, 115, 120, 127, 130, 129, 148, 150, 152, 153, 154, 155.
Semicytherura tergestina Masoli, 1968				**S.**				149.
Semicytherura ventricosa (G. W. Müller, 1894)				**A.**				6.
Tegmenia rugosa (Costa, 1853	*Falunia rugosa* (Costa, 1853) *Hiltermannicythere rugosa* (Costa, 1853)		•	**M, A, S**				114, 115, 121,127, 128, 129, 152, 153, 154, 155.
Triebelina raripila (G. W. Müller, 1894)	*Bairdia raripila* G. W. Müller, 1894			**M, A, S.**				6, 119, 149.
Tyrrhenocythere amnicola (Sars, 1887)		**L, E.**	•	**B, S.**	•		**La. Str. PR.**	9, 10, 23, 58, 66, 67, 71, 114, 121, 122, 123, 129, 131, 132, 133 ,137, 140, 146,171, 172, 179,
Tyrrhenocythere donetziensis (Dubowsky, 1926)							**La. Str. Sp.**	14, 16, 136, 142.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Tyrrhenocythere flipescui (Hanganu, 1962)			•	**S.**				171, 132,
Urocythereis britannica Athersuch, 1977		**L, E.**	•	**M, A, S, B.**				6, 44, 59, 61, 62, 68, 78, 74, 79, 75, 76, 80, 82, 85, 102, 114, 135,
*Urocythereis colum** Athersuch, 1977				**M, A.**				6, 150, 148.
Urocythereis distinguenda Neviani, 1928				**M, A.**	•			6, 78, 83, 148, 150.
Urocythereis margaritifera (G. W. Müller, 1894)			•	**M, A, S.**				74, 114, 119, 130, 129, 152, 154, 149, 121, 155.
Urocythereis neapolitana Athersuch, 1977				**A, S.**				74, 83, 149.
Urocythereis oblonga (Brady, 1866)			•	**M, A, S.**				7, 114, 115, 119, 125, 120, 152, 131.
Urocythereis phantastica Athersuch & Ruggieri, 1975				**M, A.**				6,150, 148.
Urocythereis sororcula (Seguenza, 1880) Uliczny, 1969			•	**A.**				127, 152.
Xestoleberis aurantia (Baird, 1838)			•	**M, A, S, B.**	•			69, 80, 114, 115, 116, 121, 127, 128, 129, 133, 152, 153, 154, 155.
Xestoleberis aurantia acutipenis Caraion, 1963			•	**B.**	•			70, 69.
Xestoleberis communis G. W. Müller, 1894		**L.**	•	**M, A, S, B.**	•			6, 7, 38, 43, 48, 74, 76, 80, 82, 83, 114, 115, 116, 118,119, 120, 121, 129, 130, 148,150, 153, 154, 171.
Xestoleberis cornelii Caraion, 1963				**A, S, B.**				70, 69, 80, 82, 134.
Xestoleberis decipiens (G. W. Müller, 1894)				**M, A, S, B.**	•			6, 68, 74, 76, 80, 82, 104, 103, 148, 150, 154, 155.
Xestoleberis depressa Sars, 1866			•	**M, A, S.**				38, 114, 115, 119, 120, 121, 127, 129, 133, 152, 153, 154, 155.
Xestoleberis dispar G. W. Müller, 1894		**L, M, E.**	•	**M, A, S, B.**	•			6, 7, 43, 67, 74, 76, 83, 114, 118,119, 120, 123, 124, 125, 131, 148, 150, 154, 165, 171, 172.
Xestoleberis margaritea (Brady, 1866)	*Cytheridea margaritea* Brady, 1866	**L.**		**A, S, B.**	•			6, 76, 150, 165, 149, 148.
Xestoleberis margaritopsis Rome,1942				**A, S, B.**	•			76, 83, 149.
Xestoleberis pellucida (G. W. Müller, 1894)				**A, S.**				6, 149.

Species	Synonyms	Pleistocene	Holocene	Marines	Brackish water and Lagoons	Salt lake, Saltpans	Fresh Waters	References
Xestoleberis plana (G. W. Müller, 1894)				**A, S, B.**	•			6, 76, 83, 171.
*Xestoleberis reymenti** Ruggieri, 1967				**A.**				43.
Xestoloberis ventricosa (G. W. Müller, 1894)			•	**A.**				43, 130, 153.

Table-2: Free living fresh water and quaternary species: ▼; The species that recorded only Quaternary period. Synonyms: Contain species names, referred in literature; E: Earlier Pleistocene; M: Middle Pleistocene; L: Late Pleistocene; A: Aegean Sea; B: Black Sea; S: Sea of Marmara; Me: Mediterranean.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Bradleystrandesia parva (Hartmann, 1964)										•			151.
Candona amblygonica Freels, 1980 ▼			•										155.
Candona angulata G.W. Müller, 1900			•	•	•	•				•	•		1, 2, 3, 4, 5, 9, 26, 15, 18, 113, 140, 99, 100, 142.
Candona araxica Freels, 1980▼			•										155.
Candona burdurensis Freels, 1980 ▼		**L, E., M.**	•										62, 79, 114, 112, 155.
Candona candida (O.F. Müller, 1776)			•	•	•	•	•			•			3, 5, 11, 12, 46, 67, 71, 92, 96, 97, 98, 99, 100, 105,107,108, 109, 110, 173, 181, 182.
Candona decimai Freels, 1980,▼		**E., M.**											112.
Candona fastigata Freels, 1980▼		**L, E.**	•										62, 79,114.
Candona iliensis Mandelstam ▼		**L.**											173.
Candona improvisa Ostermeyer, 1937					•								108.
Candona lactea Baird, 1850				•									161.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Candona lindneri Petkovski, 1969						•				•			100, 107.
Candona liventalina (Evlachova)▼			•										132.
Candona muelleri Hartwig, 1899				•			•						158, 107.
Candona neglecta Sars, 1887		**L.**	•	•	•	•	•	•	•	•	•		3, 4,5, 7, 8, ,9, 10, 11, 12, 13,14, 16,18, 19, 20, 22, 23, 25, 26, 27, 29, 46, 49, 52, 54, 55, 56, 57, 58, 62, 63, 64, 65, 67, 79, 89, 93, 94, 95, 96, 97, 98, 99, 100, 105, 106, 107, 108,109, 110, 114, 122, 125, 130, 131, 136, 137, 143, 144, 146, 151, 162, 163, 167, 173, 174, 175, 179, 180, 181, 183, 186, 188, 187.
Candona parallela pannonica Zalanyi, 1959▼		**L, E.**	•										36, 62, 67, 79 114, 121, 122, 125, 129, 131, 157, 155, 167.
Candona sanociensis Sywula,1971				•	•	•							161, 179, 100, 108, 109, 183.
Candona srebarnensis Stancheva 1981▼			•										132.
Candona weltneriweltneri Hartwig, 1899		**E.**		•	•								109, 110, 157, 161.
Candonopsis kingsleii (Brady& Robertson, 1870)			•	•	•	•							9, 10, 13, 18, 55, 56, 57, 112, 138, 140, 141.
Candonopsis scourfieldi Brady, 1910					•								147, 179, 136, 183.
Cavernocypris subterranean (Wolf, 1920)						•							175.
Chrissia ousmana Ghetti, 1972										•			184.
Cryptocandona vavrai Kaufmann, 1900	*Candona (Cryptocandona) vavrai* Kaufmann, 1900			•									9.
Cyclocypris globosa (Sars, 1863) ▼			•										125, 131.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Cyclocypris laevis (O.F. Müller, 1776)							•						161.
Cyclocypris serena (Koch, 1838)				•									3, 184.
Cyclocypris ovum (Jurine, 1820)		**E. L,**		•	•	•		•		•			5, 10, 11, 14, 52, 54, 55, 56, 65, 90, 92, 137, 167, 108, 143,173,
Cypretta dubiosa(Daday, 1900)						•							37.
Cypria lata Dubowsky, 1929				•									110.
Cypria ophtalmica (Jurine, 1820)				•	•	•	•			•	•		9, 10, 11, 12, 13, 14, 16, 23, 27, 29, 32, 46, 55, 56, 58, 63, 73, 87, 90, 92, 97, 105, 108, 109, 110, 136, 137, 138, 140, 142, 143,146, 151,162, 176, 178, 183.
Cypria sywulae Meisch, 2000				•									3, 5, 184.
Cypridopsis elongata (Kaufmann, 1900)						•							151.
Cypridopsis vidua (O.F. Müller, 1776)	*Cypridopsis parva* G.W. Müller, 1900		•	•	•	•	•			•	•	**A, B.**	3, 4, 5, 9, 10 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 27, 26, 29, 34, 36, 37, 41, 46, 49, 52, 55, 58, 63, 67, 69, 73, 81, 84, 87, 90, 91, 92, 96, 97, 94, 95, 98, 99,100, 101, 102, 105, 106, 107, 109, 110, 136, 137, 138, 140, 141, 142, 143, 144, 146, 151, 159, 179, 181, 182, 183, 188.
Cypris bispinosa Lucas, 1849				•							•		13, 55, 84.
Cypris pubera O. F. Müller, 1776		**L.**	•	•	•	•		•	•	•	•		3, 5, 8, 23, 10, 11, 15, 18, 19, 22, 29 29, 46, 52, 53, 54, 55, 56, 57, 63, 67, 91, 92, 94, 100, 107, 110, 145, 151, 164, 173, 175, 176.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Cytherissa lacustris lacustris (Sars, 1863)			•	•		•	•	•					29, 52, 54, 55, 57, 67.
Darwinula stevensoni (Brady & Robertson, 1870)		**E., M**	•	•	•	•	•	•		•	•		1, 2, 3, 4, 5, 9, 10, 11, 12, 14, 18, 19, 22, 23, 27, 46, 55, 63, 89, 90, 88, 93, 94, 99, 100, 105, 108, 112, 117, 122, 125, 131, 144, 162, 181, 182, 183, 185.
Dolerocypris anatolia Tunoğlu, Besbelli & Erttekin 2012 ▼		**L.**											173.
Dolerocypris fasciata (O.F. Müller, 1776)				•						•			3, 5.
Dolerocypris pellucida Klie, 1932										•			184.
Dolerocypris sinensis Sars, 1903				•		•		•		•			3, 5, 9, 10, 14, 52, 54, 55, 100, 107, 110.
Eucyprinotus rostratus (Sywula, 1966)	*Eucypris rostratus* Sywula, 1966		•		•								126, 174.
Eucypris crassa (O.F. Müller, 1785)▼			•										49.
Eucypris elliptica (Baird, 1846)										•			175.
Eucypris hamadensis Hartmann, 1964				•		•					•		52, 54, 55, 57, 102, 87.
Eucypris kerkyrensis Stephanides, 1937							•			•			151.
Eucypris lilljeborgi (G.W. Müller, 1900)	*Eucypris lilljeborgi turcica* (Hartmann, 1964)			•	•	•	•			•			3, 5, 9, 14, 15, 55, 56, 63, 64, 87, 151, 162, 175.
Eucypris mareotica (Fischer, 1855)	*Eucypris inflate* (Sars, 1903)			•	•	•					•		8, 23, 13, 14, 15, 20, 55, 57, 60, 81, 137, 144.
Eucypris pagasti Schäfer, 1952				•									56, 164.
Eucypris pigra (Fischer,1851)				•	•		•						46, 63, 140, 142, 179.
Eucypris virens (Jurine, 1820)				•	•	•	•	•		•	•		3, 4, 5, 9, 10, 13, 14, 15, 27, 18, 19, 29, 34, 36, 37, 41, 51, 52, 54, 55, 57, 58, 65, 73, 87, 91, 92, 93, 94, 95, 99, 101, 102, 105, 107, 108, 136, 151,166, 175, 177, 179, 181, 182.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Fabaeformis candona angusta (Ostermeyer, 1937)					•								3, 184.
Fabaeformiscandona balatonica(Daday, 1894)					•								161, 179.
Fabaeformiscandon abreuili (Paris, 1920)					•	•							108, 110, 161, 179.
Fabaeformiscandona brevicornis (Klie, 1925)				•	•								161, 109.
Fabaeformiscandona caudata (Kaufmann, 1900)				•									18.
Fabaeformiscandona fabaeformis (Fischer, 1851)				•	•	•	•	•		•	•		9, 13, 14, 15, 20, 42, 90, 100, 105, 107, 138, 146, 151, 179.
Fabaeformiscandona holtzkampfi (Hartwig, 1900)	*Fabaeformiscandona csikii* (Daday, 1901)					•							64.
Fabaeformiscandon ajaponica (Okubo, 1990)				•									109.
Fabaeformiscandona latens (Klie, 1940)				•		•							100, 161.
Fabaeformiscandona protzi (Hartwig, 1898)				•		•							161, 184.
Fabaeformiscandona subacuta (Okubo, 1990)										•			184.
Gomphocythere geareyi Boomer&Gearey, 2010▼			•										39.
Hemicypris inversa (Daday, 1913)										•			184.
Hemicypris cf. *congenera* (Vávra, 1897)										•			184.
Herpetocypris brevicaudata Kaufmann, 1900				•	•	•	•			•			3, 4, 5, 161, 99, 100, 108, 110, 175, 183.
Herpetocypris chevreuxi (Sars, 1896)				•	•	•	•			•	•		3, 5, 8, , 9, 10, 16, 18, 19, 20, 29, 33, 37, 41, 46, 52, 55, 58, 60, 64, 91, 92, 97, 101, 110, 136, 137, 151, 162, 175, 176, 183, 185.
Herpetocypris helenae G.W. Müller, 1908				•			•			•			22, 110, 151, 175, 183.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Herpetocypris intermedia Kaufmann, 1900				•	•	•	•			•			3, 4, 99, 108, 110, 151, 175, 183, 185.
Herpetocypris reptans (Baird, 1835)					•	•	•			•			63, 100, 105, 108, 110, 143, 145, 175, 183.
Heterocypris barbara (Gauthier&Brehm, 1928)	*Heterocypris turcica* Schäfer, 1952			•	•					•			151, 164, 174.
Heterocypris incongruens (Ramdohr, 1808)			•	•	•	•	•			•	•	**B.**	3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 26, 27, 29, 37, 41, 46, 52, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 69, 81, 87, 91, 92, 93, 95, 97, 99, 100, 101, 102, 107, 108, 114, 137, 140, 142, 143, 145, 151, 159, 162, 163, 175, 179, 183, 185, 188.
Heterocypris rotundata (Bronshtein, 1928)				•	•	•	•			•			27, 64, 97, 100, 137, 151, 161.
Heterocypris sabirae Gülen, 1985								•					54, 55, 56.
Heterocypris salina (Brady, 1868)	*Heterocypris inaequivalvis* Bronshtein, 1928 *Cyprinotus salinus* (Brady, 1868)	**E., L., M.**	•	•	•	•	•	•		•	•	**A, S., B.**	1, 2, 3, 5, 8, 7, 9, 10, 13, 14,15,16, 20, 21, 22, 26, 36, 41, 52, 54, 55, 57, 58, 60, 63, 64, 65, 67, 69, 84, 86, 97, 100, 101 102, 107, 110, 112, 114, 115, 122, 126, 137, 141, 144, 149, 151, 159, 161, 167, 173, 175, 179, 186, 185.
Humphcypris subterranea (Hartmann, 1964)										•			184.
Hungarocypri smadaraszi (Örley, 1886)				•	•								20, 24.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Ilyocypris bradyi Sars, 1890		**E.**	•	•	•	•	•	•	•	•	•		1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 14, 16, 20, 21, 22, 27, 29, 41, 46, 52, 55, 58, 60, 63, 64, 65, 89, 92, 93 94, 95, 97, 99, 100, 101 102, 105, 106, 107,108, 110, 114, 130, 137, 138, 140, 141, 142, 144, 151, 153, 157, 162, 163, 167, 175, 179, 180, 183.
Ilyocypris brehmi Schäfer, 1952				•									164.
Ilyocypris decipiens Masi, 1905	*Ilyocypris iners* Kaufmann, 1900			•	•	•		•		•	•		3, 4, 5, 8, 9, 10, 29, 41, 45, 58, 64, 87, 99, 101, 136, 137, 140, 142, 179, 183.
Ilyocypris divisa Klie, 1926				•				•			•		8, 17, 52, 54, 55, 56, 87.
Ilyocypris getica Masi,1906				•	•								106, 179.
Ilyocypris gibba (Ramdohr, 1808)	*Ilyocypris biplicata (*Koch, 1938)	**E., L.**	•	•	•	•				•	•	**S.**	1, 2, 7, 8, 9, 10, 13, 14, 16, 18, 19, 20, 21, 22, 23, 26, 27, 29, 36, 41, 49, 51, 52, 54, 55, 56, 57, 58, 60, 64, 65, 67, 87, 91, 92, 95, 96, 97, 101 102, 107, 108, 109, 110, 122, 125, 131, 137, 140, 141, 144, 151, 157, 167, 172, 173, 175, 179.
Ilyocypris hartmanni Lerner-Seggev, 1968										•			184.
Ilyocypris inermis Kaufmann, 1900				•	•	•	•		•	•	•	**B.**	3, 4, 5, 8, 10, 60, 69, 92, 97, 98, 99, 100, 107, 108,110, 151, 163, 175, 179, 180, 181, 183.
Ilyocypris monstrifica (Norman, 1862)				•			•			•	•		1, 2, 3, 4, 13, 16, 99, 137, 151, 183, 185.
Ilyocypris salebrosa Stepanaitys,1960					•	•							139, 179.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Isocypris beauchampi (Paris, 1920)						•				•			3, 4, 5, 88, 94, 99, 151, 185.
Koencypris ornata (O.F. Müller, 1776)	*Eucypris ornata* (Müller, 1776)			•			•						151,176.
Kovalevskiella bulgarica (Danielopol, 1970)					•								146.
Kovalevskiella phreaticola (Danielopol, 1965)										•			184.
Leucocythere luculenta (Livental, 1929) ▼			•										112.
Leucocythere mirabilis Kaufmann, 1892				•	•								107, 146.
Limnocythere inopinata (Baird, 1843)			•	•	•	•	•			•	•	**B.**	3, 4,5, 10, 12, 13, 14, 16, 19, 26,56, 69, 73, 94, 96, 99, 102, 106, 107, 109, 125, 131, 136, 137, 138, 140, 141, 174, 179, 181, 182, 183, 186.
Limnocythere inopinata sevanensis (Bubikyan, 1984)▼			•										125, 131.
Limnocythere stationis Vavra, 1891					•	•				•	•		3, 4, 13, 99, 137.
Metacypris cordata Brady&Robertson, 1870										•			24.
Notodromas monacha (O. F. Müller, 1776)									•		•		8, 11, 14, 37, 46, 53, 55, 56.
Notodroma spersica Gurney, 1921					•	•			•				53, 55, 56, 179.
Paralimnocythere compressa (Brady& Norman, 1889)					•								3.
Paralimnocythere psammophila (Flössner, 1965)						•					•		91.
Paralimnocythere relicta (Lilljeborg, 1863)				•		•				•			3, 4, 55, 137.
Physocypria kraepelini G.W. Müller, 1903	*Physocypria kliei* Schäfer, 1934			•	•	•				•			10, 11, 12, 13, 14, 18, 19, 23, 27, 46, 52, 55, 56, 73, 87, 88, 92, 94, 97, 102, 105, 106, 107, 109, 137, 140, 141, 142,

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
													144, 146, 179, 181, 182, 183.
Plesiocypridopsis newtoni (Brady&Robertson, 1870)	*Cypridopsis newtoni* Brady&Robertson, 1870			•		•					•		8, 18, 21, 23, 56, 73, 144.
Potamocypris arcuata (Sars, 1903)	*Potamocypris longisetosa* Bronshtein, 1928			•	•	•		•		•			3, 4, 51, 52, 55, 99, 102, 140, 142, 164, 175, 178, 183.
Potamocypris fallax Fox, 1967	*Potamocypris wolfi* Bronshtein 1928				•	•	•			•			3, 5, 8, 60, 64, 100, 102, 108, 110, 140, 142, 143, 174, 185.
Potamocypris fulva (Brady,1868)				•	•	•	•			•			3, 5, 21, 100, 107, 108, 136, 179.
Potamocypris mastigophora (Methuen, 1910)	*Potamocypris producta* (Sars, 1924)				•								17.
Potamocypris pallida Alm, 1914					•	•	•						3, 100, 108, 110, 175.
Potamocypris similis G.W. Müller, 1912				•	•	•	•			•			3, 4, 5, 97, 99, 100, 108, 110, 136, 161, 163, 175, 183.
Potamocypris smaragdina (Vavra, 1891)				•	•	•							110, 151, 161.
Potamocypris steueri Klie, 1935					•						•	**B., Me.**	69, 178, 143.
Potamocypris unicaudata Schäfer, 1943					•	•	•			•			3, 4, 73, 99, 100, 108, 110,136, 151,175, 183.
Potamocypris variegata (Brady& Norman, 1889)				•	•	•				•			3, 4, 15, 73, 87, 96, 99, 100,102, 107, 136, 137, 140, 141, 142, 144, 151, 175, 179, 183, 185.
Potamocypris villosa (Jurine, 1820)				•	•	•	•			•	•	**B.**	3, 5, 8, 10, 19, 41, 58, 69, 73, 87, 97, 98, 100, 101 102, 107, 108, 110, 137, 138, 151, 175, 177, 181, 183, 188.
Potamocypris zschokkei (Kaufmann, 1900)	*Potamocypris wolfi* Brehm,1920			•	•	•							8, 10, 11, 27, 60, 58, 64, 73, 102, 140.

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
Prionocypris zenkeri (Chyzer&Toth, 1858)	*Eucypris zenkeri* (Chyzer&Toth, 1858)		•	•	•	•	•	•		•	•		3, 4, 5, 10, 12, 14, 16, 20, 22, 26, 27, 29, 37, 52, 55, 56, 58, 60, 64, 87, 92, 99, 100, 102, 105, 106, 107, 108, 109, 110, 125, 131, 137, 138, 140, 142, 143, 151, 162, 163, 175, 179, 183, 185, 188.
Pseudocandona albicans (Brady, 1864)	*Candona parallela* G.W. Müller, 1900			•	•	•	•			•			3, 5, 56, 100, 106, 107, 109, 110, 136, 140, 141, 151, 183, 185, 186.
Pseudocandona compressa (Koch, 1838)	*Candona compressa* (Koch, 1838)	**L., E., M.**		•		•					•		9, 13, 23, 27, 26, 46, 64, 100, 105, 107, 112, 157, 173.
Pseudocandona eremita (Vejdovsky, 1882)	*Typhlocypris eremita* (Vejdovsky, 1882) *Cavernocando nadispar* Hartmann, 1964			•		•							55, 64, 106, 109, 138, 151, 175.
Pseudocandona hartwigi (G.W. Müller, 1900)	*Candona hartwigi* G.W. Müller, 1900			•		•					•		13, 137, 183.
Pseudocandona marchica (Hartwig, 1899)	*Candona marchica* Hartwig, 1899			•	•	•					•		1, 2, 23, 10, 11, 12, 13, 14, 22.
Pseudocandona rostrata (Brady& Norman, 1889) ▼	*Candona rostrate* Brady& Norman, 1889	**L.,**	•										62, 79, 114.
Pseudocandona semicognita (Schäfer, 1934)				•		•				•			100, 107, 109, 161.
Pseudocandona sucki (Hartwig, 1901)				•	•								109, 179.
Pseudocandona trigonella (Klie, 1931)▼	*Candona trigonella* Klie, 1931		•										122.
Psychrodromus fontinalis (Wolf, 1920)				•	•	•	•			•			3, 4, 5, 46, 97, 99, 100, 107, 108, 110, 140, 141, 142, 151, 163, 175, 183.
Psychrodromus olivaceus (Brady& Norman,1889)	*Ilyodromus olivaceus* (Brady & Norman, 1889)			•	•	•	•	•	•	•	•		3, 5, 8, 9, 10, 13, 14, 16, 25, 26, 27, 29, 31, 41, 46, 52, 54, 55, 56, 58, 60, 64, 92, 98,100, 101, 108, 110, 136, 137, 140, 142, 143, 144,

Species	Synonyms	Pleistocene	Holocene	Lakes	Streams	Pool-Reservoirs	Springs	Hot water springs	Cave and groundwaters	Others	Brackish water, lagoon, salt lake and saltpans	Marines	References
													151, 162, 163, 174, 175, 179, 180, 181, 183, 187, 185.
Psychrodromus robertsoni (Brady& Norman, 1889)					•								3.
Psychrodromus turcicus (Hartmann, 1964)	*Ilyodromus turcicus* Hartmann, 1964			•	•								56, 64.
Sarscypridopsis aculeata (Costa, 1847)	*Cypridopsis aculeata* (Costa, 1847)			•	•	•					•		8, 55, 178.
Schellencandona belgica (Klie, 1937)				•									161.
Schellencandona insueta(Klie, 1938)							•						187.
Scottia pseudobrowniana Kempf, 1971		**E.,**			•	•	•						89, 93, 100, 162, 167, 174.
Stenocypria fischeri (Lilljeborg, 1883)	*Cypris fischeri* Lilljeborg, 1883			•	•	•							3, 5, 106, 107, 110, 151, 164.
Stenocypris bolieki, Ferguson, 1962										•			151, 184.
Stenocypris cylindrical major Baird, 1859	*Stenocypris malcolmsoni* Brady, 1886					•		•					21, 52, 55.
Tonnacypris lutaria (Koch, 1838)	*Eucypris lutaria* (Koch, 1838)			•	•	•		•					9, 10, 14, 19, 29, 52, 54, 55, 56, 57, 87, 92, 93, 94, 102, 181, 182.
Trajancypris clavata (Baird, 1838)	*Eucypris clavata* (Baird, 1838)			•	•	•				•			22, 29, 52, 55, 63, 110, 111, 151, 175, 189.
Trajancypris laevis (G.W. Müller, 1900)						•	•						100, 107, 175.
Trajancypris serrata (G.W. Müller, 1900)	*Eucypris serrata* (G.W.Müller, 1900)			•	•	•	•			•			20, 109, 110, 151, 161.
Vestalenula boteai (Danielopol, 1970)										•			184.
Vestalenula cuneata (Klie, 1939)										•			184.
Vestalenula cylindrical (Straub, 1952) ▼		**E, M, L.**											112.
Zonocypris cf. *costata* (Vavra, 1897)							•						64. 183.
Zonocypris inconspicua Schäfer, 1952				•									164.

Table-3: The literature numbers and literatures used in Tables 1-2.

1	Akdemir, 2004	**2**	Akdemir, 2008	**3**	Akdemir, 2009	**4**	Akdemir & Külköylüoğlu, 2011	**5**	Akdemir & Külköylüoğlu, 2014
6	Akıncı, 2006	**7**	Algan *et al.,* 2011	**8**	Altınsaçlı, 1993	**9**	Altınsaçlı, 1997	**10**	Altınsaçlı, 1999
11	Altınsaçlı, 2000a	**12**	Altınsaçlı, 2000b	**13**	Altınsaçlı, 2001	**14**	Altınsaçlı, 2003	**15**	Altınsaçlı, 2014
16	Altınsaçlı & Altınsaçlı, 2005	**17**	Altınsaçlı & Altınsaçlı, 2009	**18**	Altınsaçlı & Griffiths, 2001a	**19**	Altınsaçlı & Griffiths, 2001b	**20**	Altınsaçlı & Griffiths, 2001c
21	Altınsaçlı & Kubanç C., l990	**22**	Altınsaçlı & Mezquita, 2008	**23**	Altınsaçlı & Yılmam, 1995	**24**	Altınsaçlı *et al.,* 2004	**25**	Altınsaçlı *et al*., 2014
26	Altınsaçlı *et al*., 2000a	**27**	Altınsaçlı *et al*., 2000b	**28**	Artüz *et al*., 2013	**29**	Aygen & Balık, 1998	**30**	Aygen & Balık, 2002
31	Aygen & Balık, 2005	**32**	Balık *et al.,* 2006	**33**	Balık *et al*., 2004	**34**	Barut *et al*., 2007	**35**	Bassiouni, 1979
36	Bassler-Veit *et al.,* 2013	**37**	Belentepe, 1989	**38**	Bergin *et al*., 2006	**39**	Boomer & Gearey, 2010	**40**	Boomer *et al*., 2010
41	Çakıl, 1996	**42**	Çelekli & Külköylüoğlu, 2007	**43**	Çulha, 2009	**44**	Dolu, *et al*., 2007	**45**	Doruk, 1980
46	Dügel *et al*., 2008	**47**	Erkmen & Özel, 2006	**48**	Ertekin & Tunoğlu, 2008	**49**	Galicki & Doerner, 2010	**50**	Gökçen, 1976
51	Gülen, 1975	**52**	Gülen, 1977	**53**	Gülen, 1982	**54**	Gülen, 1984	**55**	Gülen, 1985a
56	Gülen, 1985b	**57**	Gülen, 1988	**58**	Gülen & Altınsaçlı, 1999	**59**	Gülen *et al*., 1990a	**60**	Gülen *et al.,* 1994b
61	Gülen *et al.,* 1990b	**62**	Gülen *et al.,* 1995	**63**	Gülen *et al.,* 1997	**64**	Hartmann, 1964	**65**	Kaleli, 1993
66	Kerey *et al.,* 2004a	**67**	Kerey *et al.,* 2004b	**68**	Kılıç, 1992	**69**	Kılıç, 2001	**70**	Kılıç *et al.,* 2000
71	Kırcı-Elmas *et al.,* 2008	**72**	Kimor & Berdugo,1967	**73**	Koç, 2000	**74**	Kubanç C., 1995	**75**	Kubanç C., 2002
76	Kubanç C., 2003	**77**	Kubanç C., 2005	**78**	Kubanç & Altınsaçlı, 1990	**79**	Kubanç C. *et al.,* 1999	**80**	Kubanç C. *et al.,* 2008
81	N.Kubanç, 2002	**82**	N. Kubanç, 2005	**83**	N.Kubanç, 2006	**84**	Kubanç & Gülen, 2002	**85**	Kubanç & Kılınçarslan, 2001
86	N. Kubanç *et al.,* 2007	**87**	Külköylüoğlu, 1998	**88**	Külköylüoğlu, 2003a	**89**	Külköylüoğlu, 2003b	**90**	Külköylüoğlu, 2003c
91	Külköylüoğlu, 2003d	**92**	Külköylüoğlu, 2004	**93**	Külköylüoğlu, 2005a	**94**	Külköylüoğlu, 2005b	**95**	Külköylüoğlu, 2005c
96	Külköylüoğlu & Dügel, 2004	**97**	Külköylüoğlu & Sarı, 2012	**98**	Külköylüoğlu & Yılmaz, 2006	**99**	Külköylüoğlu *et al.,* 2012a	**100**	Külköylüoğlu *et al.*. 2013
101	Külköylüoğlu *et al.,* 1993	**102**	Külköylüoğlu *et al.,* 1995	**103**	Külköylüoğlu *et al.,* 2007a	**104**	Külköylüoğlu*et al.,* 2005	**105**	Külköylüoğlu *et al.,* 2007b
106	Külköylüoğlu *et al.,* 2010	**107**	Külköylüoğlu *et al.,* 2012b)	**108**	Külköylüoğlu *et al.,* 2012c	**109**	Külköylüoğlu *et al.,* 2014	**110**	Külköylüoğlu *et al.,* 2012d
111	Margaritoria *et al.,* 1977	**112**	Matzke-Karasz & Witt, 2005	**113**	Meriç & Algan, 2007	**114**	Meriç *et al*., 1999	**115**	Meriç *et al*., 2002
116	Meriç *et al*., 2005	**117**	Meriç *et al*., 2010	**118**	Meriç *et al*., 2008b	**119**	Meriç *et al*., 2008a	**120**	Meriç *et al*., 2009b
121	Meriç *et al*., 2013	**122**	Meriç *et al*., 2000a	**123**	Meriç *et al*., 2000b	**124**	Meriç *et al*., 2003	**125**	Meriç *et al*., 2009a
126	Mischke *et al*., 2010	**127**	Nazik, 1994	**128**	Nazik, 2001	**129**	Nazik *et al*., 1999	**130**	Nazik & Öğrünç, 1998
131	Nazik *et al.,* 2011	**132**	Nazik *et al.,* 2013	**133**	Ongan *et al*., 2009	**134**	Opreanu, 2004	**135**	Öztürk, 1995

136	Öztürkçü, 2012	**137**	Özulug, 2000	**138**	Özulug, 2002	**139**	Özulug, 2005a	**140**	Özulug, 2005b
141	Özuluğ, 2011	**142**	Özuluğ, 2012	**143**	Ozulug & Kılıç, 2002	**144**	Özulug *et al*., 2001	**145**	Özuluğ & Suludere, 2013
146	Özulug & Yaltalıer, 2008	**147**	Özulug & Yaltalıer, 2009	**148**	Paçal, 2011	**149**	Paçal & Balkıs, 2012	**150**	Perçin & Kubanç, 2005
151	Rasouli *et al*., 2014	**152**	Şafak, 1999	**153**	Şafak, 2003	**154**	Şafak, 2008	**155**	Şafak, 2013
156	Şafak & Heybeli, 2010	**157**	Şafak & Taner, 1998	**158**	Şahin & Baysal, 1972	**159**	Sarı & Ulakoğlu, 1992	**160**	Sarı, *et al.,* 2001
161	Sarı & Külköylüoğlu, 2010	**162**	Sarı-Karakaş & Külköylüoğlu, 2008	**163**	Sarı *et al.,* 2012	**164**	Schäfer, 1952	**165**	Schneider *et al.,* 2005
166	Tareen, 1974	**167**	Tuncer *et al.,* 2013	**168**	Tunoğlu, 1996a	**169**	Tunoğlu, 1996b	**170**	Tunoğlu, 1998
171	Tunoğlu, 1999	**172**	Tunoğlu, 2002	**173**	Tunoğlu *et al.,* 2012	**174**	Tunoğlu & Ertekin, 2008	**175**	Uçak *et al*., 2014
176	Ustaoğlu *et al.,* 2012	**177**	Ustaoğlu *et al.,* 2003	**178**	Ustaoğlu *et al.,* 2008	**179**	Yaltalıer, 2007	**180**	Yavuzatmaca *et al.,* 2012
181	Yılmaz, 2004	**182**	Yılmaz & Külköylüoğlu, 2006	**183**	Akdemir *et al.,* 2016	**184**	Küköylüoğlu *et al.,* 2015	**185**	Yavuzatmaca *et al.,* 2017
186	Özuluğ & Dökümcü, 2014	**187**	Yavuzatmaca *et al*., 2015	**188**	Külköylüoğlu, *et al*., 2016				

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