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An Updated Zooplankton Biodiversity of Turkish Inland Waters

M. Ruşen USTAOĞLU

Ege University, Faculty of Fisheries, Bornova-İzmir, Turkey

ABSTRACT

In this study, zooplankton biodiversity in Turkish inland waters is updated by literature review. In 2004, a total of 427 taxa belong to 229 rotifers, 92 cladocerans and 106 copepods have determined in a zooplankton checklist (Ustaoğlu 2004). Between 2004 and 2011, rotifer biodiversity raised from 229 to 341 taxa in the checklist (Ustaoğlu et al. 2012). By the increasing studies on the subject in recent years and as a consequence of reviewing 263 literature from the studies; 5 new genera (*Ceratotrocha, Donneria, Octotrocha, Otostephanos, Stephanoceros*) and 76 taxa from rotifer fauna; 1 new genus (*Kurzia*) and 11 taxa from cladoceran fauna; 13 new genera (*Calacalanus, Mecynocera, Paracalanus, Lernaea, Oithona, Echinocamptus, Maraenobiotus, Leptocaris, Harpacticus, Heterolaophonte, Metis, Phyllognathopu, Kinnecaris*) and 35 taxa from copepod fauna have been added to the zooplankton fauna. As a result, the recent checklist of inland waters zooplankton of Turkey has 661 taxa which include 417 rotifers, 103 cladocerans and 141 copepods namely.

Keywords: Rotifera, Cladocera, Copepoda, zooplankton, check-list

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CORRESPONDING AUTHOR

m.rusen.ustaoglu@ege.edu.tr
Tel : +90 232 311 2853
Fax: +90 232 338 3685

Türkiye İçsuları Zooplankton Biyoçeşitliliğinin Güncellemesi

Öz: Bu çalışma ile Türkiye iç sularında yapılmış olan zooplanktonik çalışmalar incelenerek zooplankton kontrol listesi güncellenmiştir. 2004 yılında hazırlanan zooplankton kontrol listesi ile rotiferlerden 229, kladoserlerden 92, kopepodlardan ise 106 olmak üzere toplam 427 takson saptanmıştır (Ustaoğlu 2004). 2004-2011 yılları arasında yapılan yayınların eklenmesiyle hazırlanan kontrol listesi ile rotifer biyoçeşitliliği 229 taksondan 341 taksona yükselmiştir (Ustaoğlu et al. 2012). Son yıllarda artan araştırmalarla birlikte toplam 263 yayının incelenmesi sonucunda rotifer faunasına 5 yeni genus (*Ceratotrocha, Donneria, Octotrocha, Otostephanos, Stephanoceros*) ve 76 taxa; kladoser faunasına 1 yeni genus (*Kurzia*) ve 11 taxa; copepod faunasına ise 13 yeni genus (*Calacalanus, Mecynocera, Paracalanus, Lernaea, Oithona, Echinocamptus, Maraenobiotus, Leptocaris, Harpacticus, Heterolaophonte, Metis, Phyllognathopus, Kinnecaris*) ve 35 taxa ilave edilmiştir. Sonuç olarak, güncel Türkiye içsu zooplankton kontrol listesi 417 rotifer, 103 kladoser ve 141 kopepod olmak üzere toplam 661 taksondan oluşmuştur.

Anahtar kelimeler: Rotifera, Cladocera, Copepoda, zooplankton, kontrol listesi

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Introduction

The animal components of the freshwater plankton are dominated by 3 major groups: the rotifers, and 2 subclasses of the Crustacea, the Cladocera and Copepoda (Wetzel 1975). Rotifera is a phylum of primary freshwater Metazoa containing two major groups; the heterogonic Monogononta and the exclusively parthenogenetic Bdelloida. Monogononta contains 1570 species level taxa, of which a majority (1488) is free-living fresh or inland water taxa. Bdelloida contains 461 species, only one of which is marine, but with many limnoterrestrial representatives. Rotifer biodiversity is very rich in Palaearctic region, Monogononta 978 species in 93 genera and Bdelloida 370 species in 19 genera (Segers 2008). Cladocera is a primarily-freshwater monophyletic group, an important component of the microcrustacean zooplankton. They inhabit most types of continental fresh and saline water habitats, occurring more abundantly in both temporary and permanent stagnant waters. About 620 species are currently known in 95 genera. In Palaearctic region Cladocera biodiversity is very rich with 245 species in 60 genera (Forro et al. 2008). Approximately 2814 copepod species in 257 genera inhabit freshwater. The palaearctic region

has 1204 recorded copepod species in 134 genera (Boxshall and Defaye 2008).

In Turkish inland waters, the studies on the zooplankton biodiversity were started at the beginning of 1900's. The first checklist on Cladocera was published by Gündüz (1997). In 2004, a total of 427 taxa belong to 229 rotifers, 92 cladocerans and 106 copepods have determined in a zooplankton checklist by reviewing approximately 120 literatures (Ustaoğlu 2004). With an addition of 68 literatures between 2004 and 2011, rotifer biodiversity raised from 229 to 341 taxa in the checklist (Ustaoğlu et al. 2012). Moreover, regional checklists for zooplankton of Eastern and Southeastern Anatolia Regions (Turkey) (Bulut and Saler 2014) and European Turkey inland waters (Güher 2014) were published. The aim of this study was updated checklist for zooplankton of Turkish inland waters.

Materials and Methods

All published papers and theses (263 papers) from 1903 to 2015 were examined (Figure 1).

The studies performed concerning zooplankton of Turkish inland waters: Akbulut Emir et al. (2008), Akıncı et al. (2012), Aladağ et al. (2006), Alper et al. (2007), Altındağ et al. (2009), Altınsaçlı et al. (2014), Apaydın Yağcı (2013, 2014), Apaydın Yağcı et al. (2013, 2014a, 2014b, 2015), Apaydın Yağcı and Ustaoğlu (2012, 2014), Atıcı et al. (2008), Aydın and Ahıska (2009), Aygen et al. (2004, 2009, 2012), Aygen and Balık (2005), Balık et al. (2004, 2006), Barinova et al. (2014), Başak et al. (2014), Baykal et al. (2006), Baysal and Saler (2014), Bekleyen (2006), Bekleyen et al. (2011), Bekleyen and İpek (2010), Bekleyen and Taş (2008), Bozkurt (2004a, 2004b, 2006, 2007), Bozkurt and Akın (2012a, 2012b), Bozkurt and Güven (2009, 2010), Bozkurt and Sagat (2008), Bozkurt and Tepe (2011), Bozkurt and Dural (2005), Bozkurt et al. (2004), Bruno and Cottarelli (2015), Bulut and Saler (2013, 2014a, 2014b, 2014c), Buyurgan et al. (2010), Chapuis (1953), Demir (2005), Demir et al. (2007), Demirkalp et al. (2004, 2010), Deveci et al. (2011), Dirican and Musul (2008), Dorak (2013), Dorak and Albay (2015), Dorak et al. (2013, 2014), Dorak and Temel (2015), Erdoğan and Ertan (2015), Erdoğan and Güher (2012a, 2012b), Erdoğan and Kaya (2013), Gaygusuz and Dorak (2013), Gökçe and Özhan Turhan (2014), Göksu et al. (2005), Güher (2004, 2012, 2014), Güher and Erdoğan (2008), Güher et al. (2004, 2011), Güher and Kırgız (2004, 2007), Gülle et al. (2010a, 2010b), Gündüz (1997), Gürel and Saler (2015), İnce et al. (2007), İpek and Saler (2012, 2013), Kaya (2013), Kaya and Altındağ (2006, 2007a, 2007b), Kaya and Erdoğan (2015), Okgerman (2008), Özbay and Altındağ (2009), Özbay and Kılınç (2008), Özçalkap and Temel (2011), Özdemir Mis et al. (2009), Saler (2011), Saler and Alış (2014), Saler and Arslan (2007), Saler et al. (2010, 2014, 2015), Saler and Haykır (2011), Saygı Başbuğ (2005), Saygı et al. (2011), Sezen et al. (2014), Sönmez et al. (2008), Şen Özdemir and Caf (2015), Tavşanoğlu et al. (2015), Tellioğlu (2007), Tellioğlu and Yılmaztürk (2005), Türkmen et al. (2006), Ustaoğlu et al. (2005, 2006, 2008, 2012a, 2012b), Ustaoğlu (2004), Yalım and Çıplak (2005a, 2005b), Yiğit (2006), Yiğit and Altındağ (2005), Yıldız (2012), Yıldız et al. (2007, 2010).

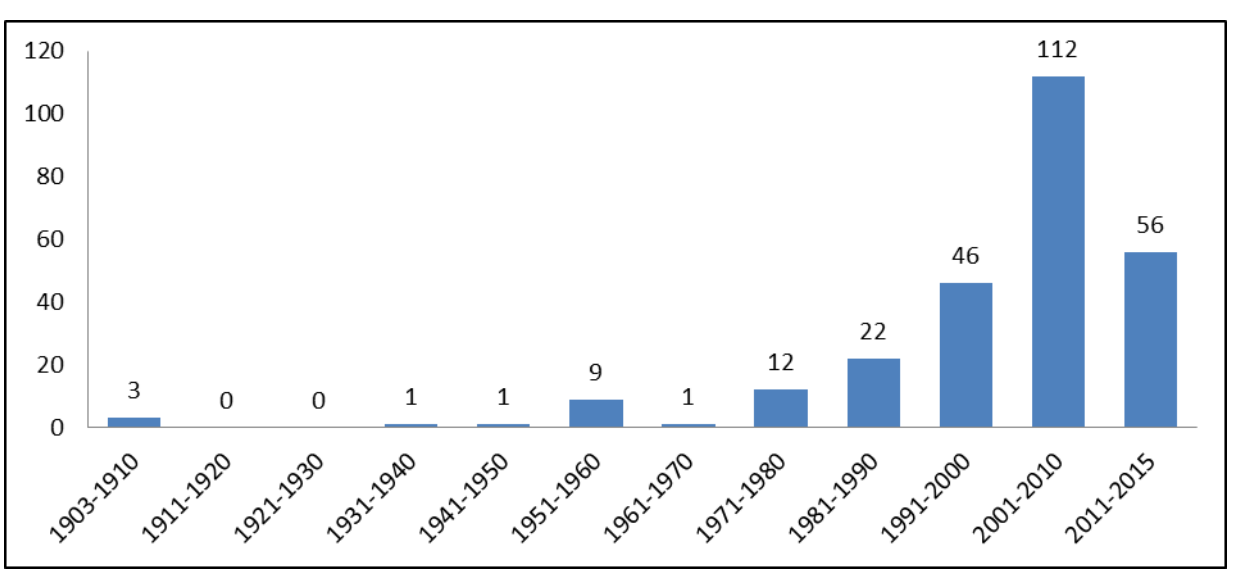

Figure 1. Quantitative distribution of zooplankton studies in decades in Turkey.

Results and Discussion

By the increasing studies on the subject in recent years and as a consequence of reviewing 263 literature from the studies; 5 new genera (*Ceratotrocha, Donneria, Octotrocha, Otostephanos, Stephanoceros*) and 76 taxa from rotifer fauna; 1 new genus (*Kurzia*) and 11 taxa from cladoceran fauna; 13 new genera (*Calacalanus, Mecynocera, Paracalanus, Lernaea, Oithona, Echinocamptus, Maraenobiotus, Leptocaris, Harpacticus, Heterolaophonte, Metis, Phyllognathopus, Kinnecaris*) and 35 taxa from copepod fauna have been added to the zooplankton fauna (Table 1).

Table 1. Additional taxa to the Turkish inland water zooplankton fauna (after Ustaoğlu 2004, Ustaoğlu et al. 2012).

Phylum: ROTIFERA Cuvier, 1817
Classis: Eurotatoria De Ridder, 1957
Subclassis: BdelloideaHudson, 1884
Familia: Habrotrochidae Bryce, 1910
Habrotrocha constricta (Dujardin, 1841)
Habrotrocha eremita (Bryce, 1894)
Habrotrocha fusca (Bryce, 1894)
Habrotrocha gracilis Montet, 1915
Habrotrocha ligula Bryce, 1913
Habrotrocha pusilla (Bryce, 1839)
Otostephanos monteti Milne, 1916
Familia: Philodinidae Ehrenberg, 1838
Ceratotrocha cornigera (Bryce, 1893)
Ceratotrocha velata Donner, 1949
Macrotrachela cf. *brachysoma* Schulte, 1954
Macrotrachela crucicornis (Murray, 1905)
Macrotrachela decora (Bryce, 1912)
Macrotrachela inermis Donner, 1965
Macrotrachela insolita De Koning, 1947
Macrotrachela plicatula (Murray, 1911)
Mniobia bdelloidea Donner, 1951
Mniobia cf. *armata* (Murray, 1905)
Mniobia lamellata Donner, 1950
Mniobia obtusicalcar De Koning, 1947
Mniobia orta Donner, 1951
Mniobia scabrosa Murray, 1911
Mniobia tarda Donner, 1949
Mniobia vargai Donner, 1962
Mniobia variabilis Donner, 1949
Philodina cristata Donner, 1949
Philodina rapida Milne, 1916
Subclassis: Monogononta Plate, 1889
Superordo: Pseudotrocha Kutikova, 1970
Ordo: Ploima Hudson & Gosse, 1886
Familia: Brachionidae Ehrenberg, 1838
Brachionus bennini (Leissling, 1924)
*Brachionus durgae (*Dhanapathi, 1974)
Brachionus murphyi (Sudzuki, 1989)
Brachionus nilsoni (Ahlstrom, 1940)
Brachionus sericus (Rousselet, 1907)
Familia: Dicranophoridae Harring, 1913
Aspelta angusta Harring & Myers, 1928
Aspelta aper (Harring, 1913)
Aspelta curvidactyla Berzins, 1949
Aspelta psitta Harring & Myers, 1928
Dicranophorus aspondus Harring & Myers, 1928
Donneria sudzukii (Donner, 1968)
Encentrum kulmatyckii Wiszniewski, 1953
Encentrum martes Wulfert, 1939
Erignatha clastopis (Gosse, 1886)

Phylum: ARTHROPODA Latreille, 1829
Subphylum: Crustacea Brünnich, 1772
Classis: Branchiopoda Latreille, 1817
Subclassis: Phyllopoda Preuss, 1951
Ordo: Diplostraca Gerstaecker, 1866
Subordo: CLADOCERA Latreille, 1829
Infraordo: Anomopoda Stebbing, 1902
Familia: Daphniidae Sars, 1865
Ceriodaphnia bicuspidata Weltner, 1897
Familia: Moinidae Goulden, 1968
Moina dubia Guerne & Richard, 1892
Moina mongolica Daday, 1901
Moina rectirostris (Leydig, 1860)
Familia: Bosminidae Baird, 1845
Bosmina coregoni Baird, 1857
Familia: Chydoridae Stebbing, 1902
Subfamilia: Eurycercinae Kurz, 1875
Kurzia latissima (Kurz, 1875)
Subfamilia: Chydorinae Stebbing, 1902
Chydorus ovalis Kurz, 1874
Subfamilia: Aloninae Frey, 1967
Acroperus neglectus Lilljeborg, 1901
Alona cambouei Guerne&Richard, 1893
Alona mediterranea Yalım&Çıplak, 2005
Infraordo: Oncychopoda Sars, 1865
Familia: Podonidae Mordukhai-Boltovskoi, 1968
Cornigerus maeticus (Pengo, 1879)
Classis: Maxillopoda Dahl, 1956
Subclassis: COPEPODA H.Milne-Edwards, 1840
Infraclassis: Neocopepoda Huys & Boxshall, 1991
Superordo: Gymnoplea Giebesbrecht, 1882
Ordo: Calanoida Sars, 1930
Familia: Acartidae G.O.Sars, 1903
Acartia (Acartiura) clausi Giesbrecht, 1889
Familia: Paracalanidae Giesbrecht, 1893
Calocalanus contractus Farran, 1926
Mecynocera clausi Thompson I.C., 1888
Paracalanus parvus parvus (Claus, 1863)
Familia: Diaptomidae G.O.Sars, 1903
Subfamilia: Diaptominae Kiefer, 1932
Eudiaptomus gracilis (G.O.Sars, 1863)
Arctodiaptomus (Rh.) alpinus (Imhof, 1885)
Occidodiaptomus dischensis (Brehm, 1938)
Superordo: Podoplea Giesbrecht, 1882
Ordo: Cyclopoida Sars, 1918
Familia: Cyclopoidae G.O.Sars, 1913
Subfamilia: Eucyclopinae Kiefer, 1927
Paracyclops affinis (Sars, 1863)
Paracyclops imminutus (Kiefer, 1929)

Table 1. Continued.

Familia: Epiphanidae Harring, 1913
Mikrocodides hertha Wulferty, 1961
Familia: Euchlanidae Ehrenberg, 1838
Euchlanis triquetra Ehrenberg, 1838
Familia: Gastropodidae Harring, 1913
Gastropus minor (Rousselet, 1892)
Familia: Lecanidae Remane, 1933
Lecane aspasia Myers, 1917
Lecane decipiens (Murray, 1913)
Lecane ivli (Wiszniewski, 1935)
Lecane margalefi De Manuel, 1994
Lecane signifera (Jennings, 1896)
Familia: Lepadellidae Harring, 1913
Lepadella (Lepadella) latusinus (Hilgendorf, 1899)
Familia: Mytilinidae Harring, 1913
Mytilina mucronata spinigera (Ehrenberg, 1830)
Familia: Notommatidae Hudson & Gosse, 1886
Cephalodella cf. ungulata (Fischer & Ahlrichs, 2006)
Cephalodella forficata (Ehrenberg, 1832)
Cephalodella gigantea Remane, 1933
Cephalodella hoodii (Gosse, 1886)
Cephalodella obvia Donner, 1950
Cephalodella theodora Koch-Althaus, 1961
Cephalodella tinca Wulfert, 1937
Notommata aurita (Müller, 1786)
Notommata codonella Harring & Myers, 1924
*Notommata pachyura (*Gosse, 1886)
Notommata pseudocerberus de Beauchamp, 1908
Resticula melandocus (Gosse, 1887)
Familia: Proalidae Harring & Myers, 1924
Proales sigmoidea (Skorikov, 1896) (=*Pleurotrocha*)
Familia: Synchaetidae Hudson & Gosse, 1886
Ploesoma truncatum (Levander, 1894)
Synchaeta kitina Rousselet, 1902
Synchaeta tremula (Müller, 1786)
Familia: Trichocercidae Harring, 1913
Trichocerca bicristata (Gosse, 1887)
Trichocerca braziliensis (Murray, 1913)
Trichocerca chattoni (de Beauchamp, 1907)
Trichocerca myersi (Hauer, 1931)
Trichocerca ruttneri Donner, 1953
Trichocerca similis grandis Hauer, 1965
Superordo: Gnesiotrocha Kutikova, 1970
Ordo: Flosculariaceae Harring, 1913
Familia: Flosculariidae Ehrenberg, 1838
Beauchampiella eudactylota (Gosse, 1886)
Octotrocha speciosa Thorpe, 1893
Familia: Hexarthridae Bartos, 1959
Hexarthra bulgarica (Wiszniewski, 1933)
Ordo: Collothecaceae Harring, 1913
Familia: Collothecidae Harring, 1913
Stephanoceros fimbriatus (Goldfusz, 1820)
Subfamilia: Cyclopinae Kiefer, 1927
Cyclops kolensis Lilljeborg, 1901
Megacyclops gigas (Claus, 1857)
Metacyclops stammeri Kiefer, 1938
Thermocyclops oithonoides (Sars, 1863)
Familia: Lernaeidae Cobbold, 1879
Lernaea cyprinacea Linnaeus, 1758
Familia: Oithonidae Dana, 1853
Oithona nana Giesbrecht, 1893
Oithona plumifera Baird, 1843
Ordo: Harpacticoida Sars, 1911
Familia: Ameiridae Monard, 1927
Nitokrella stammeri Chappius, 1938
Familia: Canthocamptidae Sars, 1906
Attheyella wulmeri (De Kerherve, 1914)
Bryocamptus (Bryocamptus) minutus (Claus, 1863)
Bryocamptus (Bryocamptus) tarnogradskyi Borutzky, 1934
Bryocamptus (Rheocamptus) typhylops (Mrazek, 1893)
Bryocamptus (Rheocamptus) zschokkei (Schmeil, 1893)
Echinocamptus georgevitchi (Chappius, 1927)
Elaphoidella anatolica Chappius, 1953 *Elaphoidella helenae* Chappius, 1953
Elaphoidella jasonis Chappius, 1953
Maraenobiotus brucei himalayensis Chappius,1928
Familia: Darcythompsoniidae Lang, 1936
Leptocaris brevicornis (Van Douwe, 1904) (=*Horisella*)
Leptocaris trisetosus (Kurz, 1935) (=*Horisella*)
Familia: Harpacticidae Dana, 1846
Harpacticus littoralis Sars G.O., 1910
Familia: Laophontidae Scott T., 1904
Heterolaophonte stroemii (Baird, 1837)
Familia: Metidae Boeck, 1873
Metis ignea ignea Philippi, 1843
Familia: Phyllognathopodidae Gurney, 1932
Phyllognathopus viguieri (Maupas, 1892)
Familia: Parastenocarididae Chappius, 1940
Subfamilia: Parastenocaridinae Chappius, 1940
Kinnecaris draconis Bruno & Cottarelli, 2015
Kinnecaris xanthi Bruno & Cottarelli, 2015

As a result, the recent checklist of inland waters zooplankton of Turkey has 661 taxa which include 417 rotifers (63.09%), 103 cladocerans (15.58%) and 141 copepods (21.33%) namely (Table 2). If we compare taxa of Turkey to Palaearctic region; 30.93% of rotifers, 42.04% of cladocerans and 11.71% copepods occurs in Turkish freshwaters (Table 3).

Table 2. Number genera and taxa within zooplankton groups.

		Ustaoğlu 2004		Ustaoğlu et al. 2012		2015	
Group		Genera	Taxa	Genera	Taxa	Genera	Taxa
ROTIFERA	Bdelloida	3	7	12	48	14	74
	Monogononta	50	222	62	293	65	343
	Total	53	229	74	341	79	417
CLADOCERA		35	92			36	103
COPEPODA	Calanoida	12	32			15	39
	Cyclopoida	17	56			19	65
	Harpacticoida	13	18			21	37
	Total	42	106			55	141
Total		130	427	74	341	170	661

Table 3. Number genera and taxa within zooplankton groups currently in Palaearctic and Turkey.

Group		PALAEARCTIC		TURKEY		
		Genera	Taxa	Genera	Taxa	Taxa %
ROTIFERA (Segers 2008)	Bdelloida	19	370	14	74	
	Monogononta	93	978	65	343	
	Total	112	1348	79	417	30.93
CLADOCERA (Forro et al. 2008)		60	245	36	103	42.04
COPEPODA (Boxshall and Defaye 2008)	Calanoida	32	175	15	39	
	Cyclopoida	44	410	19	65	
	Harpacticoida	49	584	21	37	
	Gelyelloida	1	2	-	-	
	Siphonostomatoida	8	33	-	-	
	Total	134	1204	55	141	11.71
Total		306	2797	170	661	

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