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Checklist of rotifer species from Albania (phylum Rotifera)

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Abstract. The checklist of Rotifera species recorded for Albanian inland waters and its neighboring regions is provided. A total of 140 species of bdelloids and monogononts, with representatives of 38 genera are listed. The history of rotifer surveys as a component of zooplankton in Albania started at the end of 19th century. Mostly they were taxonomic and descriptive ones, while later on after the mid 20th century appeared the systematic approaches emphasizing the particularities and richness of zooplankton in specific karstic Mediterranean ecosystems. In this article 140 taxa of bdelloids and monogononts representing 39 genera are reported.

Keywords. Rotifera, Albania, checklist, inland water, distribution records

INTRODUCTION

Albania is a small country (Fig. 1) however, it is rich in water resources including lakes, rivers and springs. There are more than 152 streams and small rivers flow into the seven large rivers, Buna, Drini, Mati, Erzeni, Shkumbini, Semani, and Vjosa, which run southeast to north west towards the Adriatic coast (Cullaj *et al*. 2005). About 247 natural lakes are dispersed throughout the country, most of karstic or glacial origin and they are often very small (less than 1 ha). Albania shares with neighboring countries three of the largest Balkanic Lakes (Ohrid, Prespa and Shkodra). They represent distinct environments among all aquatic habitats of the Balkan in the view of origin, hydrology, and biodiversity (Shumka *et al.* 2018). Around 134 glacial lakes are situated mainly in the northeastern part of the country at altitudes between 1500 – 1800 m a.s.l. Generally, they are small, formed mainly over magmatic (mainly of ultrabasics) and terrene formations (Cullaj *et al*. 2005).

Following Segers (2007) the Phylum Rotifera comprises about 2030 known species worldwide and classified in three main groups, the marine Seisonida (4 species), the Monogononta (1570 species) and the unique, exclusively parthenogenetic Bdelloidea with 461 clonal species. Although the morphology of different species varies widely, all of them possess a specialized masticatory organ containing a set of densely sclerotized trophi (Fontaneto *et al*. 2008). Rotifers, as a component of zooplankton organisms, comprise crucial elements of the structure and function of freshwater ecosystems, not only as consumers of algae, bacteria, protozoans and other invertebrates (Russell *et al.* 2010), but also as food items for juvenile stages of several fish species (Shumka *et al.* 2018). Moreover, their pivotal role in freshwater ecosystems food web, as well as its sensitivity to both man-made and natural changes, makes zooplankton quite suitable for assessing alterations in the trophic dynamics and the ecological state of aquatic ecosystems related to changes in nutrient loading and climate (Hoffmann 1977, Ferrara *et al.* 2002, Preston & Rusak 2010).

Similarly to other large Balkanic lakes like Ohrid and Prespa, the history of zooplankton surveys in Albania starts from the end of 19th century. Basically they were taxonomic and descriptive ones, while later, after the mid 20th century appeared the systematic approach emphasizing

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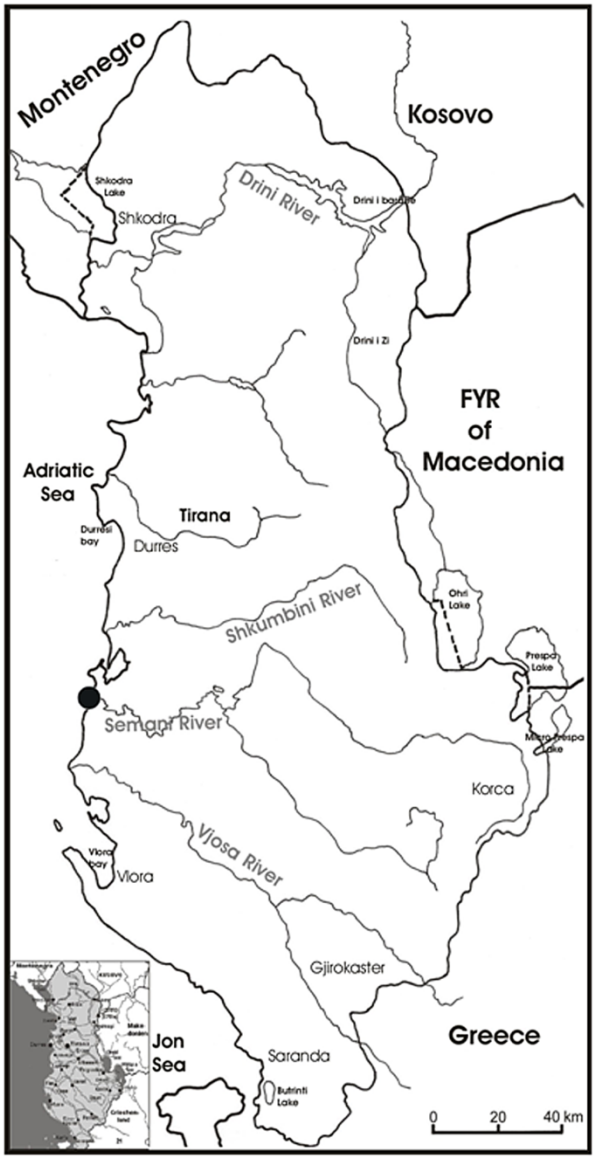

Figure 1. Map of Albania

the particularities and richness of zooplankton in specific karstic Mediterranean ecosystem. Amongst them can be mention Richard (1897) with his work dedicated to *Cladocera*, Steur (1900) with paper published on *Copepoda*, Vereščagin (1912) and Parenzan (193) on *Cladocera*, Nedeljković (1959) on *Rotifera*, Petkovski (1961) with fundamental work on *Cladocera* and *Copeoda*, separately *Harpacticoida* and *Ostracoda*, Živković (1965) and Milovanović & Živković (1965) on Rotifera, Protozoa and Cladocera.

MATERIALS AND METHODS

There are a large number of references, including identification keys with abundant information on ecological and systematical aspects of rotifers from different regions of the world. From this, the following papers were consulted: Segers (2002) and Wallace *et al.* (2006); higher-level classification. For taxonomy and distribution of the different families the following sources were used: De Ridder (1986, 1991, 1993), De Ridder & Segers (1997), Donner (1965), De Smet (2006), De Smet & Pourriot (1997), Jersabek (2003), Koste (1978), Koste & Shiel (1987, 1989a, b), Nogrady *et al.,* (1995), Nogrady & Segers (2002), Segers (1995a, b, 2003), Segers & Wallace (2001), Sørensen *et al.* (2005).

The following articles were used to compile the list of rotifers of Albanian inland waters: Brusina (1898), Byron (1981), Gannon & Stemberger (1981), Guseska (2012), Guseska *et al.* (2008, 2012, 2014), Gushevska *et al.* (1996), Kiefer (1937), Kostoski (1998), Kostoski *et al.* (2004, 2005), Michaloudi (2005), Michaloudi *et al.* (1997), Milovanovic & Živkovic (1965), Nedeljkovic (1959), Parenzan (1931), Petković (1973, 1975, 1978, 1981), Popovska-Stankovič *et al.* (1988, 2003), Richard (1897), Serafimova-Hadzisce (1954, 1958, 1975), Shumka (1994, 1997a, b, 2000, 2001, 2014), Shumka & Miho (2006), Shumka & Nikleka (2018), Shumka & Špoljar (2018), Shumka *et al.* (1998, 2018), Steuer (1900), Tasevska (2002), Tasevska *et al.* (2006, 2008, 2012a, b, 2017, 2018), Veršcagin (1912), Živkovic (1974, 1975),

RESULTS AND DISCUSSION

All species names appeared in the literature listed above were checked and corrected based on Segers *et al*. 2007 and Jersabek & Leitner 2013, and the following changes were made: *Brachionus calyciflorus f. amphiceros* (Ehrenberg, 1838) (synonym, considered an infrasubspecific variant of *B. calyiflorus*); *Brachionus q.* f. *brevispinus* Ehrenberg, 1832 (synonym, considered an infra

subspecific variant of *B. quadridentatus*); *Brachinus q.* f. *cluniorbicularis* Skorikov, 1894 (synonym considered an infrasubspecific variant of *B. quadridentatus*); *Brachionus quadridentatus* f. *rhenanus* Lauterborn, 1893, (synonym considered an infrasubspecific variant of *B. quadridentatus*); *Lophocharis salpina* (Ehrenberg, 1834) synonym of *Lepadella salpina* Ehrenberg, 1834; *Testudinella patina trilobata* (Anderson et Shepard, 1892), synonym of *T. patina* (Hermann 1783); *Testudinella pseudoelliptica* Bartoš, 1951 synonym of *T. patina* (Hermann 1783); *Trichocerca similis similis* (Wierzejski, 1893) synonymous with *Rattulus bicornis* (Western, 1893).

Reviewing the studies dedicated to the Albanian inland water Rotifera fauna is resulted in a list of 140 taxa of bdelloids and monogononts (Table 1). Among the rotifers, the most frequently reported genera are *Lecane* with 16 species, *Trichocerca* with 15 species, *Brachionus* (15 species), *Keratella* (7 species), *Polyarthra* (7 species) and *Lepadella* (6 species). At regional scale it is worth mentioning that from the neighboring Montenegro Petković (1973, 1978) recorded 205 rotifer taxa just for the Lake Scadar/Shkodra, while from North Macedonia for the lakes Ohrid, Prespa and Dojran altogether 60 rotifer taxa were reported (Tasevska *et al.* 2006). However, the high number of species reported for the Lake Scadar/Shkodra by Petković (1973, 1978) does not reflect the latest taxonomic results of Segers *et al*., (2007) and Jersabek & Leitner (2013) listing numerous synonym names and corrections.

The biogeography of Rotifera is highly controversial and prior to the work of Dumont (1983) it was generally accepted that all taxa were cosmopolitan. In the present list of the Albanian rotifers most of the species show a typical Palearctic distribution (Segers 2007) however, to clear the biogeography of several widely distributed species further studies with molecular approaches are needed.

Based on the data presented in the Table 1 almost 90% of the species are found in the Drini Basin (including Lakes of Lesser and Macro Prespa, Ohrid and Scadar/Shkodra), while the transitional water bodies belonging to Ionian and Adriatic Coastal areas are populated only by 9 different species. This disproportional distribution of species calls for further studies.

Table 1. List of Bdelloidea and Monogononta rotifers recorded from continental fresh- and transitional water habitats in Albania (genus and species)

Taxon	**Locality** (water basins)	**References**
***Adineta* Hudson & Gosse, 1886**		
A. steineri Bartos, 1951	**A5** (A)	14, 15, 30, 31, 32, 38, 40, 41,42
***Anuraeopsis* Lauterborn, 1900**		
A. fissa Gosse, 1851	**A1, A2, A5** (A)	12, 13, 15, 17
A. coelata de Beauchamp, 1932	**A5** (A)	12, 13, 15, 17, 30, 31, 32
***Ascomorpha* Perty, 1850**		
A. ecaudis Perty, 1850	**A5, B1, B2** (A, B)	12, 13, 15, 17, 30, 31, 32
A. ovalis Carlin, 1943	**A2, A5, B1** (A, B)	
A. saltans Bartsch, 1870	**A5** (A)	12, 13, 14, 15, 30, 31, 32, 38, 40, 41, 42
***Asplanchna* Gosse, 1850**		
*A. girodi*de Guerne, 1888	**A5** (A)	14, 15, 30, 31, 32, 38, 40, 41, 42
A. priodonta Gosse, 1850	**A1, A2, A3, A4, A5, A6, B1, B2, C1**	
A. sieboldii Leydig, 1854	**A5** (A)	12, 13, 14, 15, 30, 31, 32, 38, 40, 41, 42
***Brachionus* Pallas, 1766**		
B. angularis Gosse, 1851	**A1, A2, A3, A5, B1, B2, C1, C2, C2, C4, C5, D1** (A, B, C, D)	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 30, 31, 32, 38, 40, 41, 42
B. bidentatus Anderson, 1889	**A5** (A)	13, 14, 15, 30, 31, 32, 38, 40, 41, 42
B. calyciflorus Pallas, 1776	**A5, B2** (A, B)	12, 13, 14, 15, 28, 29, 31, 32, 38, 40
B. dimidiatus Bryce, 1931	**A5** (A)	12, 13, 14, 15, 17, 30, 31, 32, 38, 40, 41, 42

B. diversicornis Daday, 1883	**A1, A2, A5** (A)	2, 3, 10, 11, 18, 19, 20, 21, 22, 23, 24, 25
B. falcatus Zacharias, 1898	**A5** (A)	12, 13, 31, 32, 42
B. forficula Wierzejski, 1891	**A1, A2, A5** (A)	13, 14, 15, 31, 32, 38, 42
B. havanaensis Rousselet, 1911	**A5** (A)	13, 14, 15, 31, 32, 38, 42
B. leydigii Cohn, 1862	**A5** (A)	13, 14, 15, 31, 32, 38, 42
B. plicatilis O.F. Müller ,1786	**A5, B1** (A, B)	12, 13, 14, 15, 28, 29, 31, 32, 38, 40
B. rhenanus Lauterborn, 1893.	**A5, B1** (A, B)	12, 13, 14, 15, 28, 29, 31
B. quadridentatus Hermann, 1783	**A1, A3, A4, A5, B2**. (A, B)	12, 13, 14, 15, 28, 29, 31, 32, 38, 40
B. brevispinus Ehrenberg, 1832	**A5** (A)	13, 14, 15, 31, 32, 38, 42
B. quadridentatus melhemi Barrios et Daday, 1894	**A5** (A)	13, 14, 15, 31, 32, 38, 42
B. urceolaris O.F. Müller, 1773	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 42
***Cephalodella* Bory de St. Vincent, 1826**		
C. catellina O.F.Müller, 1786	**A2**, A5 (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
C. forficula Ehrenberg, 1831	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
C. gibba Ehrenberg, 1832	**A2, A3, A5** (A)	10, 11, 18, 19, 20, 21, 22
C. misgurnus Wulfert, 1937	**A5**. (A)	13, 14, 15, 31, 32, 38, 42
C. ventripes Dixon-Nuttall, 1901	**A5, C1** (A, C)	13, 14, 15, 29, 31, 32, 38, 42
***Collotheca* Harring, 1913**		
C. mutabilis Hudson, 1885	**A5** (A)	13, 14, 15, 31, 32, 38, 42
C. pelagic Rousselet, 1893	**A5** (A)	13, 14, 15, 31, 32, 38, 42
***Colurella* Bory de St. Vincent, 1824**		
C. adriatica Ehrenberg, 1831	**A3, A5, A6, D1, E1, E2, E3, E4** (A, D, E)	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 30, 31, 32, 38, 40, 41, 42
C. colurus Ehrenberg, 1830	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
C. obtuse Gosse, 1886	**A2, A5, A6** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
C. uncinato bicuspidato Ehrenberg, 1830	**A2, A3** (A)	10, 11, 18, 19, 20, 21, 22, 23, 33
C. uncinata O. F. Müller, 1773	**A5** (A)	13, 14, 15, 31, 32, 38, 42
***Conochilus* Ehrenberg, 1834**		
C. exiguous Ahlstrom, 1938	**A5** (A)	13, 14, 15, 31, 32, 38, 42
C. hippocrepis Schrank, 1830	**A1, A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
C. unicornis Rousselet, 1892	**A5** (A)	13, 14, 15, 31, 32, 42
***Dicranophorus* Nitsch, 1827**		
D. forcipatus O.F. Müller, 1786	**A2, E1** (A, E)	10, 11, 31
D. grandis Ehrenberg, 1832	**A5** (A)	14, 15, 30, 31, 32, 38, 40, 41, 42
D. rostratus Dixon Nuttal et Freeman, 1902	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Dipleuchlanis* de Beauchamp, 1910**		
D . propatula Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Dissotrocha* Bryce, 1910**		
D. aculeata Ehrenberg, 1832	**A3, A5, A6** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Epiphanes* Ehrenberg, 1832**		
E. macrourus Barrois &Daday, 1894	**A5, B1** (A, B)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
E. senta O.F. Müller, 1773	**A5, B1** (A, B)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Euchlanis* Ehrenberg, 1832**		
E. dilatata Ehrenberg, 1832	**A2,A3, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
E. incise Carlin, 1939	**A3, A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
E. meneta Myers, 1930	A5 (A)	39, 41
***Filinia* Bory de St. Vincent, 1824**		
F. longiseta Ehrenberg, 1834	**A1, A2, A3, A4, A5, B1, B2, C4, C5, D1** (A, B, C, D)	2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 19, 20, 31, 32, 38, 39, 40, 41, 42
F.opoliensis Zacharias, 1898	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
F.terminalis Plate, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42

***Gastropus* Imhof, 1898**		
G. hyptopus Ehrenberg, 1838	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
G.stylifer Imhof, 1891	**A1, A2, A4, A5, B1, D1, E1** (A, B, D, E)	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 30, 31, 32, 38, 40, 41, 42
***Hexarthra* Schmarda, 1854**		
H. mira Hudson, 1871	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Kellicottia* Ahlstrom, 1938**		
K. longispina Kellicott, 1879	**A1, A2, A3, A4, A5, B1, B2, C1, C2, C3, C4, D1, E1** (A, B, C, D, E)	2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 40, 41, 42
***Keratella* Bory de St. Vincent, 1822**		
K. cochlearis Gosse, 1851	**A1, A2, A3, A4, A5, B1, B2, C1, C2, C3, C4, C5, D1, E2** (A, B, C, D, E)	2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 40, 41, 42
K. cochlearis v. hispida Lauterborn, 1898	**A2** (A)	2, 25, 26, 36
K. hiemalis Carlin, 1943,	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
K. quadrata O.F. Müller, 1786,	**A1, A2, A5, D1, E2** (A, D, E)	2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15
K. tecta Gosse, 1851	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
K. ticinensis Callerio, 1921	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
K. valga Ehrenberg, 1832	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Lecane* Nitzsch, 1827**		
L. bulla Gosse, 1851	**A2, A3, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L. closterocerca Schmarda, 1859	**A2, A3, A5, B1** (A, B)	2, 13, 14, 15, 32, 38, 39, 41, 42
L. copeis Harring et Myers, 1926	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.curvirostris Yamamoto, 1941	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.elasma Harring& Myers, 1926	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.elsa Nitzsch, 1827	**A5, A6** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.flexilis Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L. hamata Stokes, 1896	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L. ivli Wiszniewski, l935	**A2, A5** (A)	2, 13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L. lamellate Daday, 1893	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.luna O.F. Müller, 1776	**A1, A2, A3, B1** (A, B)	13, 14, 15, 30, 32, 38, 39, 40, 41, 42
L. lunaris Ehrenberg, 1832	**A3** (A)	3, 9, 23, 24, 25, 29
L.nana Murray, 1913	**A5, B2** (A, B)	13, 14, 15, 39, 30, 32, 38, 39, 40, 41, 42
L.quadridentata Ehrenberg, 1832	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.obtusa Hauer, 1889	**A5** (A)	2, 13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L. stenroosi Meissner, 1908	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Lepadella* Bory de St. Vincent, 1826**		
L. acuminate Ehrenberg, 1834	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.ehrenbergii Perty, 1850	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.ovalis O.F. Müller, 1786	**A2, A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.patella O.F. Müller, 1773	**A2, A3, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 40, 41, 42
L.rhomboides Gosse, 1886	**A5** (A)	1,2, 13, 14, 15, 31, 32, 38, 39, 40, 41, 42
L.triptera Erenberg, 1830	**A2, A3, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 40, 41, 42
***Lophocharis* Ehrenberg, 1838**		
L.oxysternon Gosse, 1851	**A3, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 40, 41, 42
L. salpina Ehrenberg, 1834	**A5, A6** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Monommata* Bartsch, 1870**		
M. aequalis Ehrenberg, 1832	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Mytilina* Bory de St. Vincent, 1826**		
M. crassipes Luchs, 1912	**A5** (A)	1, 2, 13, 14, 15, 31, 32, 38, 39, 40, 41, 42
M. mucronata Ehrenberg, 1832	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
M. ventralis brevispina Ehrenberg, 1832	**A2, A3** (A)	13, 14, 15, 39, 30, 32, 38, 39

M. ventralis ventralis Ehrenberg, 1832	**A2, A3** (A)	13, 14, 15, 39, 30, 32, 38, 39
***Notholca* Gosse, 1886**		
N. acuminatae Ehrenberg, 1832	**A2, A3** (A)	13, 14, 15, 39, 30, 32, 38, 39
N. foliacea Ehrenberg, 1838	**A5** (A)	1,2, 13, 14, 15, 31, 32, 38, 39, 40, 41, 42
N. squamula O.F. Müller , 1786	**A2** (A)	13, 14, 15, 30, 32, 38
***Notommata* Ehrenberg, 1830**		
N. copeus Ehrenberg, 1834	**A2, A3, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 40, 41, 42
***Philodina* Ehrenberg, 1830**		
P. megalotrocha Ehrenberg, 1832	**A3** (A)	36, 37
***Plationus* Segers, Murugan& Dumont, 1993**		
P.patulus O.F. Müller, 1786	**A2, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
***Platyias* Harring, 1913**		
P. quadricornis Ehrenberg, 1832	**A3, A5** (A)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
***Ploesoma* Herrick, 1885**		
P.hudsoni Imhof, 1891	**A5** (A)	13, 14, 15, 39, 38, 39, 40, 41, 42
P.truncatum Levander, 1894)	**A3, A4, A5, B1** (A, B)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
***Polyarthra* Ehrenberg,1834**		
P.dolichoptera Delson, 1925	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
P. euryptera Wierzejski, 1891	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
P.major Bueckhardt, 1900	**A5, A5, B1, B2** (A, B)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
P.minor Voigt, 1904	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
P.remata Skorikov, 1896	**A5, B1, B2, E1** (A, B, E)	2, 13, 14, 15, 39, 30, 32, 38, 39,
P.trygla Ehrenberg, 1834	**A1, A2, A3, A5, B1** (A, B)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
P.vulgaris Carlin, 1943	**A1, A2, A3, A5, B1** (A, B)	13, 14, 15, 39, 30, 32, 38, 39, 41, 42
***Pompholyx* Gosse, 1851**		
P.complanata Gosse, 1851	**A5, A6** (A)	2, 13, 14, 15, 39, 30, 32, 38, 39
P.sulcata Hudson, 1885	**B1, B2, D, E1, E2** (B, D, E)	26, 27, 28, 29, 30, 31, 32
P. triloba Pejler, 1957	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
***Rotaria* Scopoli, 1777**		
R. citrine Ehrenberg, 1838	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
R. rotatoria Pallas, 1766	**A3, A5** (A)	13, 14, 15, 30, 32, 38, 39, 41, 42
R. socialis Kellicot, 1888	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
***Scaridium* Ehrenberg, 1830**		
S. longicaudum O.F. Müller, 1786	**A3** (A)	7, 8, 35, 36, 37
***Squatinella* Bory de St. Vincent, 1826**		
S. lamellaris O.F. Müller, 1786	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
***Synchaeta* Ehrenberg, 1832**		
S. littoralis Rousselet, 1902	**A5, A6, E1** (A, E)	13, 14, 15, 29, 30, 32, 38, 39, 40, 41, 42
S. pectinata Ehrenberg, 1832	**A1, A2, A5, A6, B1, B2, C1, C5**. (A, B, C)	2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 41, 42
S. stylata Wierzejski, 1893	**B1, B2, C1, C2, C3, C4, C5** (B, C)	27, 28, 29, 30, 31, 32
***Testudinella* Bory de St. Vincent, 1826**		
T. mucronata Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T. patina Hermann, 1783	**A2, A3** (A, B)	13, 14, 15, 30, 32, 38, 39, 41, 42
T.truncata Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
***Trichocerca* Lamarck, 1801**		
T.bicristata Gosse, 1887	**A3** (A)	5, 6, 7, 8, 35, 36
T.capucina Wie&Zach,1893	**A1, A2, A3, A4, A5, A6, B1, B2, D, C3, C4, C5** (A, B, C)	2, 3, 4, 6, 7, 8, 9, 10,12, 13, 14, 15, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 41, 42
T.cylindrica Imhof, 1891	**A1, A2, A5** (A)	2, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 40, 41, 42

T. elongate Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T.iernis Gosse, 1887	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 40, 41, 42
T.longiseta Schrank, 1802	**A1, A2, A3** (A)	13, 14, 15, 30, 32, 38, 39, 40, 41, 42
T.myersi Hauer ,1931	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T.porcellus Gosse, 1886	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T.pusilla Lauterborn, 1898	**A2, E3, E4** (A, E)	3, 4, 6, 7, 8, 9, 10, 12, 13, 14
T.rattus O.F. Müller, 1776	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T.rousseleti Voigt, 1902)	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T.similis Wierzejski, 1893)	**A1, A2, A5** (A)	2, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38, 39, 40, 41, 42
T.stylata Gosse, 1851	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T. tenuior Gosse, 1886	**A2** (A)	13, 14, 15, 30, 32, 38
T.weberi Jennings, 1903	**A2, A3** (A)	2, 28, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 38
***Trichotria* Bory de St. Vincent, 1827**		
T. curta Skorikov, 1914	**A5** (A)	13, 14, 15, 31, 32, 38, 39, 41, 42
T. pocillum O.F. Müller, 1776	**A3, A5** (A)	2, 13, 14, 15, 39, 30, 32, 38, 39, 41, 42
T. tetractis Ehrenberg, 1830	**A3, A5** (A)	2, 13, 14, 15, 39, 30, 32, 38, 39, 41, 42

Legends for letter symbols and nearest central point in brackets

A1 - Lake Micro Prespa (N:40.691447; E:21.028600),
A2 - Lake Macro Prespa (N:40.794431; E:20.946263),
A3 - Lake Ohrid (N:40.974442; E:20.676057),
A4 - Lake Fierza (N:42.090651; E:20.395832),
A5 - Lake Scadar/Shkodra (N:42.150502; E:19.395438),
A6 - River Buna (N:42.005522; E:19.456769),
B1 - Reservoir Bovilla (N:41.444056; E:19.893058),
B2 - Lake Tirana (N:41.310917; E:19.816143),
C1 - Lake Belshi (N:40.978345; E:19.891313),
C2 - Lake Merhoe (N:40.952991; E:19.899225),
C3 - Lake Seferani (N:40.940781; E:19.920761),
C4 - Reservoir Thana (N:40.862995; E:19.840817),
C5 - Reservoir Murrizi (N:40.727543; E:19.728467),
D1 - Lake Butrinti (N:39.784623; E:20.032498),
E1 - Lagoon of Patok (N:41.631068; E:19.601154),
E2 - Lagoon of Karavasta (N:40.918227; E:19.475840),
E3 - Lagoon of Narta (N:40.538250; E:19.424175),
E4 - Lagoon of Orikum (N:40.317013; E:19.441460),

Albanian water basin symbols in brackets from Dill (1993)

A (Drini Basin); **B** (Ishmi/Erzeni Basin); **C** (Semani Basin); **D** (Coastal Ionian Sea); **E** (Coastal Adriatic Sea).

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