

Stevan Petković¹⁾

Biološki zavod — Titograd

A survey of investigations on Rotatoria in a karstic mediterranean lake ecosystem²⁾

Synopsis

Large water body 370—550 km², favourable thermic water regime to 32°C and abundance of macrophyte vegetation enable Lake Skadar to have a very numerous and versatile fauna. Data on *Rotatorian* fauna can be found in the literature from the twentieth century. Although none of these authors worked exclusively on Rotatoria, still among them, according to the number of published forms, are distinguished: Nedeljković, 1959, Živković, 1965, Petković, 1972, 1975, 1977, and Gannon and Stemberger, 1977. While working on the project »Limnological investigations of Lake Skadar« (from 1972 to 1977), special attention, among others, was paid to coenotic structure of *Rotatorian* community. This contribution includes the survey of former and recent investigations concerning the *Rotatorian* fauna of Lake Skadar.

Sinopsis

PRILOG POZNAVANJU ROTATORIA U SKADARSKOM JEZERU
(Pregled istraživanja *Rotatoria* u jednom karstinom mediteranskom jezerskom ekosistemu)

Projekat Limnološka istraživanja Skadarskog jezera, koji je trajao od 1972. do 1977., predstavlja novo i veoma značajno poglav-

¹⁾ Biološki zavod, P. O. Box 104, 81000 Titograd (Yugoslavia).

²⁾ From Yugoslav — American project »Limnological investigations of Lake Skadar, 1972-1977«.

lje u istoriji istraživanja ovog subtropskog jezera. Kompleksna, samim tim i obimna problematika analizirana je sa raznih aspekata u nameri da se dobije jedna sintetička celina iz koje se jasnije nego do sada može sagledati sav naučni i ekonomski značaj »slatkovodnog crnogorskog mora«. Veliko vodeno prostranstvo 370—550 km², povoljan termički režim vode do 32°C i bogatstvo makrofitske vegetacije omogućili su da se u Skadarskom jezeru razvije veoma brojna i raznovrsna fauna. Podaci o fauni *Rotatoria* mogu se naći u literaturi s početka 20. veka. Iako se od autora nijedan nije bavio isključivo rotatorijama, među njima se, ipak, po broju objavljenih oblika, izdvajaju: Nedeljković, 1959., Živković, 1965., Petković, 1972., 1975., 1977., i Gannon i Stemberger, 1977. U toku rada na pomenutom projektu posebna pažnja, između ostalog, bila je obrađena i na ceničičku strukturu zajednice *Rotatoria*. Ovaj prilog obuhvata pregled ranijih i novijih istraživanja koja se odnose na faunu *Rotatoria* Skadarskog jezera.

Established taxonomic list of all forms of zooplankton and microfauna community of Lake Skadar (Fig. 1) consists 355 species and forms (Monography of Lake Skadar, in print). Predominant place according to the number of species in entire zooplankton community belongs to the group *Rotatoria* (205 species) comprising about 58% of all species. The early studies listed only a few *Rotatoria*: Brehm und Zederbauer, 1905 (5 species), then Rössler, 1931 (5 species), and Gessner, 1934 (6 species). The voluminous and more detailed limnological investigations reported additional species: Nedeljković, 1959 — (40 species), and Milovanović, and Živković, 1965 — (62 species).

From 1972 to 1977 were also reported some faunistic — systematic results in papers: Petković, 1972-1973 (3 species), Živković, 1974 (1 new species for science), Petković, 1975 (7 species among which 1 new for science), and Petković, 1977 (73 new species for Lake Skadar), Gannon and Stemberger (according to their list in Progres Report 1976 and 1977 Program for Limnological investigations of Lake Skadar), recorded in the lake 66 species of *Rotatoria* among which 10 were new for Lake Skadar (*Brachionus dimidiatus*, *Conochiloides exiguus*, *Trichocerca iernis*, *Brachionus angularis*, *Keratella hiemalis*, *K. cochlearis* fa. *robusta*, *Epiphanes macrourus*, *Euchlanis meneta*, *Keratella cochlearis* v. *hispida* and *Testudinella truncata*). To the new species for the lake, being reported for the first time, are added: *Brachionus budapestiensis lineatus* (Fig. 2), *Dissotrocha aculeata aculeata* and *Stephanoceros fimbriatus*, recorded by Petković, now (Table 1). Some ecological data about *Brachionus sessilis* were published by Petković, 1978.

In taxonomic survey all recorded species of *Rotatoria* were classified into 21 families (Table 1). The largerst number of spe-

cies was recorded in family *Brachionidae* (44). After this one, there are the following: *Lecanidae* (24), *Trichocercidae* (19), *Synchaetidae* (16), *Testudinellidae* (12), *Euchlanidae* and *Colurellidae* (11 each). Other families are presented by 1 to 9 species. The most frequent genera have been: *Lecane* (24 species), *Trichocerca* (19 species), *Keratella* and *Brachionus* (15 species each), *Testudinella* (10 species), *Euchlanis* (9 species), *Lepadella* and *Notholca* (7 species) each and *Synchaeta*, *Polyarthra* and *Mytilina* (6 species each).

Small depth, almost permanent winds, particularly during the ample rains, typical for this climate, and well developed hydrographic system, cause in the entire water mass to abound in numerous pelagial and littoral forms. Just opposite to great diversity in the littoral, rotatorian population of pelagial, during the stable weather, acts very monotonously. About 37% of the species are planktonic. *Keratella*, *Kellicottia*, *Asplanchna*, *Synchaeta*, *Filinia*, and some species of *Trichocerca*, *Polyarthra*, *Ploesoma*, *Gastropus*, *Ascomorpha*, *Brachionus*, *Conochilus*, *Pompholyx*, *Conochiloides* and *Collotheca*, develop quantitatively more abundant populations than the other species, and by their presence they influence, at any given moment, the general physiognomy of zooplankton community of Lake Skadar.

Some ecological remarks concerning Rotatoria of Lake Skadar

By its ecological characteristics of Rotatorian fauna of Lake Skadar, in major part, is represented by eurytopic lake- ponds' and rivers complex of widespread species in northern and temperate climatic zone. Among them there are some common representatives of the potamoplankton like: *Wolga spinifera*, *Filinia terminalis*, *Trichocerca rattus*, *Anuraeopsis fissa*, *Brachionus calyciflorus*, *B. angularis*, *Synchaeta stylata*. Rotatorian fauna also consists of thermophilic forms, among which the following are pointed out: *Brachionus sessilis*, *B. falcatus*, *Keratella valga*, *B. budapestiensis lineatus*, but also coldstenothermous species: *Keratella cochlearis*, *K. hiemalis*, *Polyarthra dolichoptera*, *Lepadella patella*, some species of *Notholca*, *Asplanchna*. Structure of Rotatorian fauna includes some representatives of salt waters. Such of them are: *Lophocharis salpina*, *Bipalpus hudsoni*, *Keratella cochlearis recurvispina*, but there are also euryhaline species like: *Notholca squamula*, *N. acuminata*, *N. bipalium*, *Colurella adriatica*. Rotatorian community of Lake Skadar, concerning the saprobity, can be said to consist of the representatives of all categories. From the oligosaprobic forms by higher individual numbers are emphasized: *Paratrichocerca cylindrica* and *Kellicottia longispina*. Among the species common for alpha and beta categories an important place belongs to: *Hexarthra mira*, *Ascomorpha ovalis*, *A. ecaudis*, *Gastropus stylifer*, *Ploesoma truncatum*, *Bipalpus hudsoni*, *Argonotholca foliacea*, *Conochilus uni-*

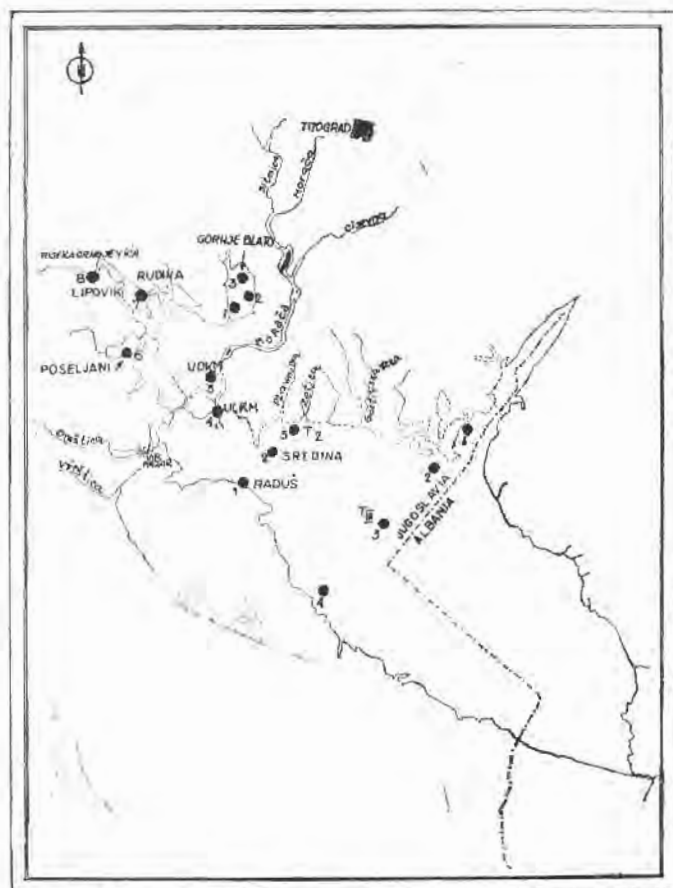


Fig. 1 Lake Skadar — Map of sampling stations: *Vučko blato* (Podseljani, Rudina, Lipovik and UDKM — right branch of Morača River;); *Velje blato*. (Raduš, »sredina« — pelagial, and T² — northern littoral, transect III with four sampling stations 1-4, and ULKM — left branch of the Morača River;); and particular part of Lake Skadar called *Gornje blato* with three sampling stations 1-3.

Sl. 1. Skadarsko jezero — skica tačaka sa kojih su uzimani uzorci: *Vučko blato* (Podseljani, Rudina, Lipovik i UDMK — ušće desnog kraka Morače;); *Velje brato*. (Raduš, »sredina« — pelagijal, i T² — severni litoral, profil III sa četiri tačke 1-4, i ULKM — ušće levog kraka Morače:); i poseban deo Skadarskog jezera zvani *Gornje blato* sa tri tačke 1-3.

cornis, *Asplanchna priodonta*, *Synchaeta tremula*. From beta meso-saprobic forms, slightly larger part in quantitative structure have:

Pompholyx sulcata (from the euplanktonic formation), and *Floccularia ringens* (among phytophilic sessile forms). Remaining beta mesosaprobic oriented forms: *Lecane luna*, *Lophocharis oxysternon*, *Platytas quadricornis*, *Cephalodella gibba* and others, develop less numerous populations. Finally in the category of alpha meso-saprobic species, only *Platytas patulus* is individually more numerous. The category of cosmopolitan forms of *Rotatoria* in Lake Skadar counts 74 species comprising 36% of the total rotatorian numbers in it. *Rotatorian* complex of this subtropical lake is characterised by some rather rare species. Such species are: *Brachionus sessilis*, *B. dimidiatus*, *Macrochaetus subquadratus*, *Keratella cochlearis recurvispina*, *Volga spinifera*, *Lecane calcaria*, *L. nana*, *L. ohioensis*, *Platytas bicornis*, *Notholca bipalium*, *N. scutariensis*, *Conochiloides exiguus*, occurring in plankton mainly sporadically.

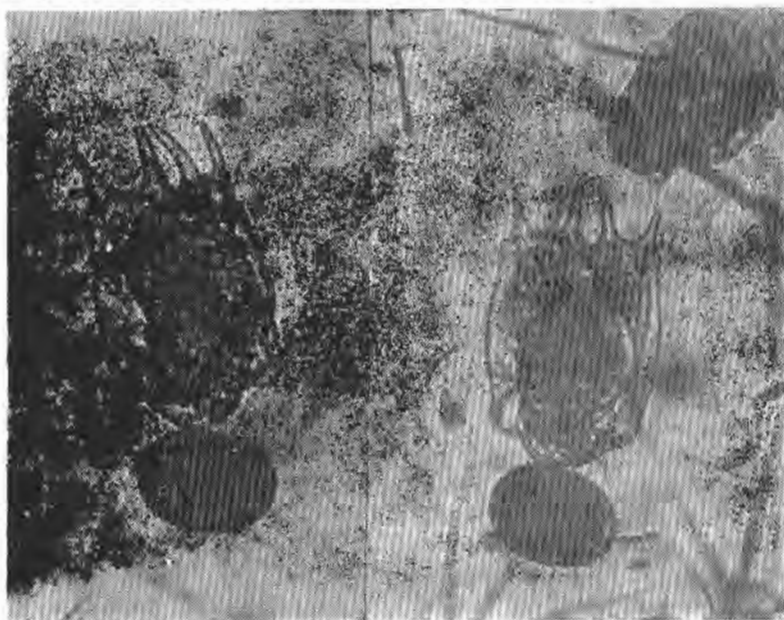


Fig. 2. *Brachionus budapestiensis lineatus* Skor. (Lake Skadar — Rijeka Crnojevića. July, 12 1976.

Sl. 2. *Brachionus budapestinsis lineatus* Skor. (Skadarsko jezero — Rijeka Crnojevića, 12. jul 1976.

Tab. 1. Historical and actual survey of Rotifer composition in Lake Skadar

Tab. 1. Istorijski i aktuelni pregled *Rotatoria* u Skadarskom jezeru fam. *Notommatidae*:

1. <i>Scardium longicaudum</i> (O. F. M.)	Z., Ga. and S.
2. <i>Monommata longiseta</i> (O. F. M.)	Z.

3. Monommata sp.	+++
4. Cephalodella gibba gibba (Ehrb.)	P.
5. Cephalodella tenuiseta tenuiseta (Burn.)	P.
6. Cephalodella sp.	Ga. and S.
7. Notommat _a sp.	+++
8. Pleurotorcha sp.	+++

fam. *Trichocercidae*

1. <i>Trichocerca</i> (s. str.) <i>bicristata</i> (Gosse)	+
<i>Trichocerca bicristatus</i> (Gosse)	Z.
2. <i>Trichocerca</i> (D.) <i>dixon-nuttalli</i> Jenn.	+
<i>Diurella dixon-nuttalli</i> Jenn.	N.
3. <i>Trichocerca</i> (D.) <i>tenuior</i> (Gosse)	+
<i>Trichocerca tenuior</i> (Gosse)	Z.
4. <i>Trichocerca</i> (D.) <i>bidens</i> (Lucks)	+
<i>Trichocerca bidens</i> (Lucks)	Z.
5. <i>Trichocerca</i> (D.) <i>rousseleti</i> (Voigt)	+
<i>Trichocerca rousseleti</i> Voigt	Z., Ga. and S.
6. <i>Trichocerca</i> (D.) <i>porcellus</i> (Gosse)	+
<i>Trichocerca porcellus</i> (Gosse)	Ga. and S.
<i>Diurella porcellus</i> Gosse	N.
7. <i>Trichocerca</i> (s. str.) <i>longiseta</i> (Schr.)	+
<i>Trichocerca longiset_a</i> Schrank	N.
8. <i>Trichocerca</i> (s. str.) <i>pusilla</i> (Laut.)	P.
<i>Trichocerca pusilla</i> (Jenings)	Ga. and S.
9. <i>Trichocerca</i> (D.) <i>tigris</i> (Müll.)	P.
10. <i>Trichocerca</i> (D.) <i>similis</i> (Wierz.)	P.
<i>Trichocerca similis</i> (Wierz.)	Ga. and S.
<i>Diurella stylata</i> (Eyferth)	N.
11. <i>Trichocerca</i> (s. str.) <i>rattus tatus</i> (Müll.)	P.
12. <i>Trichocerc_a</i> (s. str.) <i>rattus carinat_a</i> (Ehrb.)	P.
13. <i>Trichocerca</i> (s. str.) <i>rattus minor</i> (Fadewew)	P.
14. <i>Trichocerca</i> (D.) <i>relicta</i> Donner	P.
15. <i>Trichocerca</i> (D.) <i>weberi</i> (Jenn.)	P.
16. <i>Trichocerca</i> sp.	+++
17. <i>Paratrichocerca cylindrica</i> (Imh.)	+
<i>Trichocerca</i> (s. str.) <i>cylindrica</i> Imh.	+
<i>Trichocerca cylindrica</i> Imh.	N., Ga. and S.
18. <i>Rattulus</i> sp.	Ge.
19. <i>Trichocerca iernis</i> (Gosse)	+++
<i>Trichocerca</i> (s. str.) <i>iernis</i> (Gosse)	+

fam. *Synchaetidae*:

1. <i>Synchaeta</i> sp.	Ge., N.
2. <i>Synchaeta stylata</i> Wierz.	Z., Ga. and S.
3. <i>Synchaeta pectinata</i> Ehrb.	Z., Ga. and S.

4. <i>Synchaeta kitina</i> Rousselet	Z., Ga. and S.
5. <i>Synchaeta tremula</i> O. F. M.	Z.
6. <i>Synchaeta oblonga</i> Ehrb.	P., Ga. and S.
7. <i>Ploesoma truncatum</i> (Lev.)	N., Ga. and S.
8. <i>Ploesoma lenticulare</i> Herr.	P.
9. <i>Ploesoma triacanthum</i> (Begr.)	P.
10. <i>Bipalpus hudsoni</i> (Imh.)	+
<i>Ploesoma hudsoni</i> (Imh.)	Ge., N., Ga. and S.
11. <i>Polyarthra vulgaris</i> or <i>P. dolichoptera</i>	+
<i>Polyarthra platyptera</i>	Br. u. Z.
12. <i>Polyarthra</i> sp.	R.
13. <i>Polyarthra trigla</i> Ehrb.	N.
<i>Polyarthra vulgaris</i> Carlin	Z., Ga. and S.
14. <i>Polyarthra remata</i> Skorikov	Z., Ga. and S.
15. <i>Polyarthra major</i> Burckhardt	Z., Ga. and S.
16. <i>Polyarthra dolichoptera</i> Idelson	Z., Ga. and S.

fam. **Gastropodidae:**

1. <i>Gastropus</i> sp.	N.
2. <i>Gastropus stylifer</i> Imh.	P., Ga. and S.
3. <i>Postclausa hyptopus</i> (Ehrb.)	+
<i>Gastropus hyptopus</i> (Ehrb.)	Z., Ga. and S.
4. <i>Postclausa minor</i> (Rouss.)	P.
5. <i>Ascomorpha ecaudis</i> Porty	N., Ga. and S.
6. <i>Ascomorpha minima</i> Hofsten	P.
7. <i>Ascomorpha saltans</i> Bartsch	P., Ga. and S.
8. <i>Ascomorpha agilis</i> Zach.	P.
9. <i>Chromogaster ovalis</i> (Berg.)	Ga. and S.
<i>Ascomorpha ovalis</i> Berg	+
<i>Anapus ovalis</i> Berg	N.

fam. **Habrotrochidae:**

1. <i>Habrotrocha visa</i> Donner	P.
2. <i>Habrotrocha</i> sp.	+++

fam. **Dicranophoridae:**

1. <i>Dicranophorus</i> sp.	++
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fam. **Asplanchnidae:**

1. <i>Asplanchna priodonta priodonta</i> Gosse	+
<i>Asplanchna priodonta</i> Gosse	Br. u. Z., Ge., N. Ga. and S.
2. <i>Asplanchna</i> sp.	R.
3. <i>Asplanchnella brightwelli</i> (Gosse)	P.
<i>Asplanchna brightwelli</i> (Gosse)	+
4. <i>Asplanchna sieboldi</i> (Leyd.)	Z.

fam. **Lecanidae:**

1. <i>Lecane</i> (s. str.) <i>luna luna</i> Müll.	+
<i>Lecane luna</i> Müll.	N., Ga. and S.
2. <i>Lecane</i> (s. str.) <i>calcaria</i> Harr. et Myers	+
<i>Lecane calcaria</i> Harring et Myers	N., Z.
3. <i>Lecane</i> (s. str.) <i>arcula</i> Harr.	+
<i>Lecane arcula</i> Harring	Z.
4. <i>Lecane</i> (s. str.) <i>ludwigii</i> (Eckst.)	+
<i>Lecane ludwigii</i> (Eckstein)	Z.
5. <i>Lecane</i> (<i>Hemimonostyla</i>) <i>sympoda</i> Hauer	+
<i>Lecane sympoda</i> Hauer	Z.
6. <i>Lecane</i> (s. str.) <i>nana</i> (Murray)	+
<i>Lecane nana</i> (Murray)	Z.
7. <i>Lecane</i> (M.) <i>closterocerca</i> (Schm.)	+
<i>Lecane closterocerca</i> (Schm.)	Z.
<i>Monostyla closterocerca</i> Schm.	Ga. and S.
8. <i>Lecane</i> (M.) <i>stenroosi</i> (Meissn.)	+
<i>Lecane stenroosi</i> (Meissner)	Z.
9. <i>Lecane</i> (M.) <i>hamata</i> (Stokes)	+
<i>Lecane hamata</i> (Stokes) or <i>Monostyla hamata</i>	Z., Ga. and S.
10. <i>Lecane</i> <i>Lecane</i> (M.) <i>quadridentata</i> (Ehrb.)	+
<i>Lecane quadridentata</i> (Ehrb.)	Z.
11. <i>Lecane</i> (s. str.) <i>flexilis</i> (Gosse)	P.
<i>Lecane flexilis</i> (Gosse)	Ga. and S.
12. <i>Lecane</i> (s. str.) <i>ohioensis ohioensis</i> (Herr.)	P.
13. <i>Lecane</i> (s. str.) <i>ungulata</i> (Gosse)	P.
14. <i>Lecane</i> (s. str.) <i>curvicornis</i> (Murray)	P.
15. <i>Lecane</i> (H.) <i>kluchor</i> Tarn.	P.
16. <i>Lecane</i> (M.) <i>crenata</i> (Harr.)	P.
17. <i>Lecane</i> (M.) <i>acus</i> (Harr.)	P.
18. <i>Lecane</i> (s. str.) <i>tenuiseta tenuiseta</i> (Harr)	P.
19. <i>Lecane</i> (H.) <i>bryophila</i> Koniar	P.
20. <i>Lecane</i> sp.	+++
21. <i>Lecane</i> (M.) <i>bullata bullata</i> (Gosse)	+
<i>Monostyla bullata</i> Gosse	N., Ga. and S.
22. <i>Lecane</i> (M.) <i>lunaris</i> (Ehrb.)	+
<i>Monostyla lunaris</i> Ehrb.	N., Ga. and S.
23. <i>Lecane</i> (M.) <i>opias</i> Harr. et Myers	+
<i>Monostyla opias</i> Harr. et Myers	N.
24. <i>Monostyla</i> sp.	+++

fam. **Epiphanidae:**

1. <i>Epiphanes macrourus</i> (Barrois et Daday)	+++
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fam. **Trichotriidae:**

1. <i>Trichotria tetractis tetractis</i> (Ehrb.)	P.
<i>Trichotria tetractis</i> (Ehrb.)	Z., Ga. and S.

2. <i>Trichotria pocillum pocillum</i> (Müll.) <i>Trichotria pocillum</i> Müll.	P. N., Ga. and S.
3. <i>Trichotria similis</i> (Stenr.)	P.
4. <i>Macrochaetus subquadratus</i> Perty	P.
5. <i>Wolga spinifera</i> (Western)	P.

fam. **Brachionidae:**

1. <i>Brachionus</i> sp.	R., N.
2. <i>Brachionus sessilis</i> Varga	Z., P.
3. <i>Brachionus diversicornis</i> Daday	Z.
4. <i>Brachionus quadridentatus quadridentatus</i> Herm. <i>Brachionus quadridentatus</i> Herm. <i>Brachionus capsuliflorus</i> Pall.	P. Ga. and S. N.
5. <i>Brachionus falcatus</i> Zach.	N., Ga. and S.
6. <i>Brachionus calyciflorus calyciflorus</i> Pall.	P.
7. <i>Brachionus calyciflorus anuraeiformis</i> Brehm	P.
8. <i>Brachionus calyciflorus dorcas</i> Gosse	P.
9. <i>Brachionus calyciflorus spinosus</i> Wierz.	P.
10. <i>Brachionus calyciflorus amphicros</i> Ehrb.	P.
11. <i>Brachionus urceus urceus</i> (Linn.)	P.
12. <i>Brachionus angularis bidens</i> Plate	P.
13. <i>Brachionus bbdapestiensis lineatus</i> Skor.	++
14. <i>Brachionus dimidiatus</i> (Bryce)	+++
15. <i>Platylas quadricornis</i> Ehrb.	Z.
16. <i>Platylas bicornis</i> Živković	Z.
17. <i>Platylas quadricornis brevispinus</i> (Dad.)	P.
18. <i>Platylas patulus patulus</i> (Müll.) <i>Noteus militaris</i> Ehrb.	+ N.
19. <i>Argonotholca foliacea</i> (Ehrb.)	P.
20. <i>Anuraeopsis fissa fissa</i> (Gosse) <i>Anuraeopsis fissa</i> Gosse	P. Z., Ga. and S.
21. <i>Notholca acuminata acuminata</i> (Ehrb.) <i>Notholca acuminata</i> Ehrb.	P. N.
22. <i>Notholca labis labis</i> Gosse <i>Notholca labis</i> Gosse	P. N.
23. <i>Notholca labis limnetica</i> Lev. <i>Notholca limnetica</i> Levand.	+ N.
24. <i>Notholca bipalium</i> (Müll.) <i>Notholca striata</i> (Müll.)	+ N.
25. <i>Notholca squamula squamula</i> (O. F. M.) <i>Notholca squamula</i> (O. F. M.)	P. Z.
26. <i>Notholca scutariensis</i> Petković	P.
27. <i>Notholca</i>	R.
28. <i>Kellicottia longispina longispina</i> (Kell.) <i>Kellicottia longispina</i> Kell. <i>Notholca longispina</i> Kell.	P. Ga. and S. Br. u. Z., Ge., N.

29. Keratella cochlearis v. macracantha (Lauter.)	Z.
30. Keratella cochlearis v. tecta (Gosse)	Z., Ga. and S.
Anuraea cochlearis Gosse v. tecta	Br. u. Z.
31. Keratella cochlearis cochlearis Gosse	+
Keratella cochlearis v. macracantha f. micracantha Laut.	Z.
Keratella cochlearis f. microcantha Lauterb.	Ga. and S.
Keratella cochlearis Gosse	N., Ga. and S.
32. Keratella valga heterospina (Klauss.)	+
Keratella quadrata v. valga f. heterospina Klauss.	Z.
33. Keratella valga monospina (Klauss.)	+
Keratella quadrata v. valga f. monospina Klaussener	Z.
34. Keratella quadrata quadrata (Müll.)	+
Keratella quadrata (Müll.)	N., Ga. and S.
Anuraea aculeata	Ge.
35. Keratella quadrata frenzeli (Eckst.)	P.
36. Keratella testudo testudo (Ehrb.)	P.
37. Keratella quadrata dispersa Carl.	P.
38. Keratella cochlearis recurvispina (Jägersk.)	P.
39. Keratella cochlearis f. hispida (Lauterborn)	+++
40. Keratella valga valga (Ehrb.)	+
Anuraea valga Ehrb.	Br. u. Z.
41. Anuraea = Keratella sp.	R.
42. Brachionus angularis Gosse	+++
43. Keratella hiemalis Carl.	+++
44. Keratella cochlearis f. robusta Lauterb.	+++

fam. **Flosculariidae:**

1. Floscularia ringens (Linn.)	P.
2. Linnias melicerta (Weisse)	P.
3. Beauchampia crucigera (Dudrochet)	Z.
4. Sinantherina socialis (Linne)	Z.
5. Lacinularia flosculosa (Müll.)	P.

fam. **Philodinidae:**

1. Philodina sp.	++
2. Rotaria neptunia (Ehrb.)	Z.
3. Rotaria citrina (Ehrb.)	P.
4. Rotaria tardigrada (Ehrb.)	P.
5. Dissotrocha aculeata v. medio-aculeata (Janson)	Z.
6. Dissotrocha aculeata aculeata Ehrb.	++
7. Rotatoria sp.	N.
8. Dissotrocha macrostyla macrostyla (Ehrb.)	P.
Disotrocha aculeata macrostyla (Ehrb.)	+

fam. **Mytilinidae:**

1. <i>Mytilina ventralis brevispina</i> (Ehrb.)	+
<i>Mytilina ventralis</i> var. <i>brevispina</i> (Ehrb.)	Z.
<i>Mytilina brevispina</i> Ehrb.	N.
2. <i>Mytilina trigona</i> (Gosse)	Z.
3. <i>Mytilina compressa</i> (Gosse)	Z.
4. <i>Mytilina ventralis ventralis</i> (Ehrb.)	P.
5. <i>Mytilina mucronata mucronata</i> (Müll.)	P.
6. <i>Mytilina mucronata spiniger</i> ₂ (Ehrb.)	P.
7. <i>Lophocharis oxysternum</i> (Gosse)	N.
8. <i>Lophocharis salpina</i> (Ehrb.)	Z.

fam. **Colurellidae:**

1. <i>Colurella adriatica</i> (Ehrb.)	Z.
2. <i>Colurella uncinata</i> f. <i>bicuspidata</i> (Ehrb.)	Z.
3. <i>Colurella obtusa</i> (Gosse)	Z.
4. <i>Lepadella</i> ₂ (s. str.) <i>patella patella</i> ₂ (Müll.)	+
<i>Lepadella patella</i> (O. F. M.)	Z., Ga. and S.
5. <i>Lepadella</i> (s. str.) <i>ovalis</i> (Müll.)	+
<i>Lepadella ovalis</i> (O. F. M.)	Z.
6. <i>Lepadella</i> (s. str.) <i>acuminata acuminata</i> (Ehrb.)	+
<i>Lepadella acuminata acuminata</i> (Ehrb.)	P.
7. <i>Lepadella</i> (H.) <i>ehrenbergi</i> (Perty)	P.
8. <i>Lepadella</i> (s. str.) <i>rhomboides rhomboides</i> (Gosse)	P.
9. <i>Lepadella</i> (s. str.) <i>princisi</i> Berzins	P.
10. <i>Lepadella</i> sp.	+++
11. <i>Squatinela rostrum rostrum</i> (Schm.)	P.

fam. **Euchlanidae:**

1. <i>Euchlanis dilatata</i> Ehrb.	N., Ga. and S.
2. <i>Euchlanis deflexa</i> (Gosse)	Z.
3. <i>Euchlanis triquetra</i> Ehrb.	Z.
4. <i>Euchlanis alata</i> Voronkov	Z.
5. <i>Euchlanis pyriformis</i> Gosse	P.
6. <i>Euchlanis dilatata</i> ₂ <i>lucksiana</i> Hauer	P.
7. <i>Euchlanis incisa</i> Carl.	P.
8. <i>Euchlanis meneta</i> Myers	+++
9. <i>Dipleuchlanis propatula</i> Gosse	N., Z.
10. <i>Eudactylota eudactylota</i> (Gosse)	Z.
11. <i>Euchlanis</i> sp.	+++

fam. **Conochilidae:**

1. <i>Conochilus hippocrepis</i> (Schrank)	Z.
2. <i>Conochilus unicornis</i> Rouss.	P., Ga. and S.
3. <i>Conochiloides coenobasis</i> Skorikov	Z.

4. <i>Conochiloides dossuarius</i> (Hudson)	Z.
5. <i>Conochiloides natans</i> Seligo	N.
6. <i>Conochiloides exiguus</i> Ahlstrom	+ + +

fam. **Testudinellidae:**

1. <i>Testudinella patina patina</i> (Herm.)	+
<i>Testudinella patina</i> (Herm.)	Z.
2. <i>Testudinella incisa</i> (Ternetz)	Z., Ga. and S.
3. <i>Testudinella patina trilobata</i> (Anders. et Shep.)	P.
<i>Testudinella patina triloba</i> Anderson	Ga. and S.
4. <i>Testudinella bidentata</i> (Tern.)	P.
5. <i>Testudinella parva</i> (Tern.)	P.
6. <i>Testudinella elliptica</i> (Ehrb.)	P.
7. <i>Testudinella emarginula</i> (Stenr.)	P.
8. <i>Testudinella patina intermedia</i> (Anders.)	P.
9. <i>Testudinella truncata</i> (Gosse)	+ + +
10. <i>Testudinella</i> sp.	+ + +
11. <i>Pompholyx sulcata</i> Hudson	N.
12. <i>Pompholyx complanata</i> Gosse	P.

fam. **Filiniidae:**

1. <i>Filinia longiseta longiseta</i> Ehrb.	+
<i>Filinia longiseta</i> Ehrb.	N.
2. <i>Filinia terminalis</i> Plate	N.
3. <i>Filinia longiseta limnetica</i> (Zach.)	P.
4. <i>Filinia maior</i> (Colditz)	P.

fam. **Hexarthridae:**

1. <i>Hexarthra mira</i> (Hudson)	+
<i>Pedalia mira</i> (Hudson)	Z.

fam. **Collothecidae:**

1. <i>Collotheca libera</i> (Zach.)	Z.
2. <i>Collotheca mutabilis</i> (Hudson)	Z., Ga. and S.
3. <i>Collotheca</i> sp.	N.
4. <i>Collotheca pelagica</i> (Rouss.)	P., Ga. and S.
5. <i>Collotheca campanulata</i> Dobie	P.
6. <i>Stephanoceros fimbriatus</i> (Goldfuss)	+ +

LEGEND: Br. u. Z. = Brehm und Zederbauer, 1905

R. = Rössler, 1931
 Ge. = Gessner, 1934
 N. = Nedeljković, 1959
 Z. = Živković, 1965, 1974
 P. = Petković, 1972, 1975, 1977

- Ga. and S. = Gannon and Stemberger, 1976-1977
 + = revised by Petković
 ++ = recently recorded by Petković
 +++ = recently recorded by Stemberger

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