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REVIEW
Rotifers in saltwater environments, re-evaluation of an inconspicuous taxon

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Rotifers are microscopic aquatic animals that comprise more than 1800 species. Most rotifer species live in freshwater and limno-terrestrial habitats, while thalassic environments (brackish+seawater) are thought to host few species. No recent review of saline rotifers is available. Here we report the results of a review of the literature concerning rotifers from saline environments, distinguished into three categories: stenohaline, euryhaline, and haloxenous, and found both in truly marine habitats and/or in inland saline waters. A total of about 200 studies, mentioning fully identified rotifers from saline waters, allowed us to list as many as 443 rotifer taxa at either specific, subspecific and infrasubspecific rank, corresponding to 391 nominal species. Truly thalassic taxa, not found in inland saline waters only, accounted for 289, including the 'stenohaline' (143) and the euryhaline (146) ones. As for freshwaters, the majority of the thalassic rotifers inhabit the psammon, or display a benthic–periphytic way of life, while the plankton likewise is less species rich and less abundant. The geographical distribution of the brackish and marine rotifers largely reflects the distribution of rotifer investigators, therefore, no biogeographical analysis can be performed yet. In conclusion, the analysis of literature citing rotifers in salt waters, uncovers an unexpected rotifer fauna: the apparent richness of the group in thalassic environments is worthy of being addressed by further investigations, as many species have been reported only by their description, suggesting either considerable endemism or taxonomic errors.

INTRODUCTION

Rotifers are microscopic aquatic animals that comprise more than 1800 species (Segers, 2002). Most rotifer species live in freshwater and limno-terrestrial habitats, while the common feeling is that the thalassic environments (i.e. brackish+seawater) host few species, that have been rather neglected so far (see for instance de Beauchamp, 1965; Wulfert, 1969; Nogrady et al., 1993; Smith, 2001; Segers, 2004). Real estimates of the total number of rotifers inhabiting thalassic waters are very few. Remane (1929) was the first to present an estimate of the number of marine and brackish water species, amounting to 5% of the 1000 species known at the time. Myers (1936) states that about 12% of the 1500 known rotifer species have been recorded from these environments, and Bērziņš (1952) notes that 5% of the 1700 known species occur in marine and brackish water, and 2.5% are strictly marine. Although some of the first rotifer species described in the 18th and 19th Centuries were originally collected in the sea (e.g. *Notholca bipalium* (Müller, 1786), *Proales reinhardti* (Ehrenberg, 1834) among the monogononts, all seisonids, and the bdelloid *Zelinkiella synaptae* (Zelinka, 1887)), in more recent times, rotifer communities of continental waters received much more attention than those of thalassic waters, and the available list of species is mostly confined to inland habitats (Segers, 2002). Nevertheless, the thalassic plankton and meiobenthos harbour several rotifer species that can represent a consistent fraction of the biomass (e.g. Schnese, 1973; Tzschaschel, 1980; Johansson, 1983; Egloff, 1988), and likewise can play an important role in the energy transfer in thalassic food webs (Gifford, 1988; Mallin & Paerl, 1994).

Despite our skewed knowledge of rotifers in favour of freshwater habitats, it seems remarkable that our basic understanding of physiology and reproductive biology of monogonont rotifers is mostly based on the *Brachionus plicatilis* Müller, 1786 species complex that lives in salt waters and is moreover commonly cultivated for aquaculture purposes.

A review on thalassic Rotifera of the North Sea and Baltic Sea has been published by Remane (1929), who recognized 55–60 stenohaline species restricted to brackish and marine waters, and 40 euryhaline species occurring both in sea- and freshwater. More recently 160 taxa have been listed for the same area by NEAT, Marine Invertebrates of Scandinavia (NEAT, 1997), whereas 115 species are reported by the European Register of Marine Species (MarBEF Data System, 2005) for the European thalassic waters. The rotifers of the Black Sea were compiled by Rudescu (1961), who mentioned 111 species and varieties, with 35.1% imported from freshwater, 5.4% euryhaline species, 35.4% brackish water taxa, and 27.0% marine species. The Mediterranean rotifer fauna has been reviewed recently by Ahlrichs (2003) and Ricci & Fontaneto (2003). The analyses revealed that about 90 rotifer species were mentioned by a total of 25 studies, but only few of these focused specifically on the rotifer fauna. Outside Europe thalassic rotifers were reviewed only, as far as we know, for the Canadian coastal waters by Shih

et al. (1971), who recorded 12 plankton taxa, with six and seven taxa from the Atlantic and Pacific part respectively, and a single species from arctic Baffin Island.

Here we report on published results on rotifers from saline environments, with emphasis on the marine and brackish ones, to produce a database for further studies on the thalassic fauna. When possible, we shall relate the rotifer taxa to the nature of the habitat, and try to add to their geographical distribution.

MATERIALS AND METHODS

The systematic position of Rotifera in the 'tree of life' is an open issue and still under study. Recent analyses on morphological and molecular traits confirm that the parasitic Acanthocephala are to be considered a group of rotifers (Giribet et al., 2004). In the present study, 'rotifers' refer to the group of microscopic aquatic pseudocoelomates characterized by an apical ciliated apparatus (corona), specialized pharynx (mastax) and intracytoplasmic lamina (Clément & Wurdak, 1991). Traditionally, the rotifers *sensu stricto* are divided into three major groups: Seisonidea, Bdelloidea, and Monogononta. Seisonidea, with three species, are epibiotic on crustaceans of the genus *Nebalia*, and known from marine habitats only. Bdelloidea and Monogononta comprise about 380 and 1400 species respectively, most of them living in freshwater habitats (Nogrady et al., 1993; Segers, 2002).

We searched the studies, reporting rotifer species in saline environments, that were recorded by the basic databases such as Zoological Record and Web of Science. The search was run on the co-occurrence of two nouns, 'rotifer' and 'saltwater'. As saltwater we arbitrarily refer to those habitats with a salinity higher than 1‰, to include the seas and oceans world-wide, as well as the brackish waters (i.e. mixtures of freshwater and seawater), such as lagoons, estuaries, rock pools, etc., and inland saline waters, like salt lakes, soda lakes, saline springs, etc. Fixing the boundary between fresh and saline water on basis of salinity is very arbitrary indeed, and almost impossible as well on basis of changes in the composition of the biota, as the spectrum of salinity tolerance appears to be a continuous one (Beadle, 1981; Williams, 1981). In the various classifications (for a review see e.g. Remane (1971) and Hammer (1986)) the boundary between fresh and saline water has been put at <0.21–0.5‰ salinity for brackish water (with true seawater ~ 32–38‰ salinity), and 3‰ salinity for inland saline water. The upper limit of the freshwater range for a biological classification has been suggested to be 1‰ by Löffler (1961), based on the distribution of Entomostraca in inland waters of Iran, and Beadle (1969) who states that almost all so-called freshwater animals are found below that value. According to Ruttner-Kolisko (1971), the boundary at which the rotifer biocenosis is changing characteristically lies at 1.5‰ salinity.

Most papers did not report exactly the salinity of their samples; at the state of the knowledge, a distinction between brackish and true seawater would be possible only in very few cases. Therefore, we will refer to brackish and seawaters together, as thalassic environment.

Inevitably, the species list will contain a number of misidentifications, since most of the records are undocumented and thus unverifiable. Some of these records may result from real misidentifications but also from recent changes in taxonomic views (e.g. Segers, 1995), and their reliability may be doubtful.

Rotifers found in saltwater were distinguished into three categories: (1) **stenohaline**, referring to the species found in saltwater only and never reported from freshwater; (2) **euryhaline**, referring to species that were found in both freshwater and saltwater; and (3) **haloxenous** for the freshwater species that are reported as occasional findings in saltwater. Only the stenohaline and the euryhaline groups will be analysed in this study; these are called 'saltwater' rotifers.

Rotifer taxa are further divided into three major groups on the basis of the habitat in which they mostly occur: (1) **plankton**, those found in the water column; (2) **benthic–periphytic** species living in contact with a substratum, including benthos *sensu stricto*, periphyton and psammon; and (3) **epibionts** and **parasites**, species living in association with other animals.

RESULTS

Taxonomic richness of the saltwater rotifer fauna

A total of about 200 studies, mentioning fully identified rotifers from saline waters, have been used in the present study. Few more reports referring to unidentified species, or rotifers identified to genus level only, were left out of consideration. The analysis allowed us to list as many as 443 rotifer taxa, at either specific, subspecific and infrasubspecific rank, corresponding with 391 nominal species. At present we are unable to establish whether some of the subspecies listed (e.g. subspp. of *Keratella cochlearis* and *Trichocerca marina*) are valid taxa or actually separate species, or merely synonyms. A similar problem arises with the infrasubspecific taxa. Some of them are true phenotypes (e.g. the formae of *Brachionus calyciflorus* (see e.g. Gilbert, 1980)), and others (e.g. some formae of *Lecane ludwigii*) might turn out to be valid species. Considering the above remarks, and in view of their low share in the total number of taxa (37 in number that is 8% of total observed taxa), infrasubspecific taxa were included in the rotifer lists as well.

Out of the 443 taxa, at least 106 (23.9%) (Appendix 1) are known from freshwater habitats, and found in saltwater only occasionally and sparsely ('haloxenous taxa'), and will not be analysed in this study. Some other 173 taxa (39.1%) are reported from both fresh- and saltwater habitats, and here considered truly euryhaline. Finally, as many as 164 taxa or 37.0% (corresponding to 148 species) have been found in saltwater only, and considered stenohaline. With saltwater we refer to two different habitats: inland saline lakes, and true thalassic environments. The microfauna of saline lakes includes 133 rotifer taxa or 30.0% of the total observed number of rotifer taxa, of which 48 (10.8%) have never been found in thalassic habitats (Appendix 1). The remaining 85 taxa or 19.2% are shared by saline lakes and thalassic environments, and can be treated with the thalassic taxa. Thus, starting from a list of 443 rotifer taxa reported in saltwater, our analysis will concern 289 thalassic taxa, including the stenohaline

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Table 1. *Number of species, genera, and families of rotifers found in salt waters, and their percentage of the overall diversity.*

	Species			Genera			Families		
	Overall	Marine	%	Overall	Salt	%	Overall	Salt	%
Seisonids	3	3	100.00	1	1	100.00	1	1	100.00
Bdelloids	374	3	0.80	19	3	15.79	4	1	25.00
Monogononts	1441	248	17.21	106	43	40.56	29	21	72.41
All rotifers	1818	254	13.97	126	47	37.30	34	23	67.65

(143 or 32.2%) and the euryhaline (146 or 33.0%) ones (Appendix 1).

Ecological distribution

The majority of the thalassic rotifers inhabit the intertidal psammon, or display a benthic–periphytic way of life. In this group the genera *Encentrum* (41 taxa, 38 stenohaline), *Lecane* (23 taxa, 3 stenohaline), *Colurella* (15 taxa, 4 stenohaline), and *Proales* (12 taxa, 10 stenohaline) are the most common. These genera are common benthic–periphytic representatives in freshwater habitats, as well. At the family level Dicranophoridae is the most diverse, represented by 7 genera and 59 taxa, 53 of which are strictly thalassic.

In the littoral plankton the most common rotifer genera are *Synchaeta* (31 taxa, 24 thalassic), *Keratella* (20 taxa, 6 strictly thalassic), and *Notholca* (18 taxa, 11 strictly thalassic). The rotifer plankton of the open ocean is restricted to *Synchaeta* spp. and *Trichocerca marina*. At the family level Brachionidae is the most rich, represented by four genera and 48 taxa, 20 of which are stenohaline. Synchaetidae with only two genera has 33 planktonic taxa, but 24 are stenohaline. As usually holds for freshwaters, the thalassic rotifer plankton likewise is less species rich and less abundant than the benthic–periphytic fauna.

Epibiotic–parasitic rotifers live on crustaceans (*Proales paguri*, *Brachionus rubens* and Seisonidae), hydroids (*Proales christinae*, *P. gonothyraeae*) and holothurians (*Zelinkiella synaptae*), and in the gut of annelids (*Albertia crystallina*). Most of them are thought to be epibionts and not true parasites, although these symbioses have never been investigated in detail. Suitable hosts for rotifers like crustaceans are much more frequent and abundant in the sea than in freshwater, and one could predict that, other things being equal, epibiotic–parasitic rotifers experience many more opportunities to encounter and settle on a host in the sea than in freshwater. In contrast, rather few rotifers live in the sea as epibionts, while in freshwater about 30 monogononts and a dozen of bdelloids live on arthropods permanently.

Apart from remarkable differences in abundances, the ecology of the thalassic rotifers reflects their ecology in freshwater, with benthic–periphytic species more abundant than planktonic ones, and with the epibiotic–parasitic relationships mostly concerning arthropods.

Geographical distribution

Not surprisingly, the geographical distribution of the brackish and marine rotifers largely reflects the distribution of rotifer investigators. Thus, rotifers seem rather abundant around Europe, whereas the other regions of the world received less attention. Nevertheless, we cannot exclude the possibility that some areas may be more species-rich than others. More than 100 taxa are listed in only five studies on the Black Sea, while the 25 studies on the Mediterranean only reported 90 rotifer taxa.

Too little information is available to speculate about possible endemisms in thalassic rotifers. We can only state that environments like polar seas, with prevailing stressful conditions, are inhabited by rotifer taxa that live in other areas also: for instance of the 41 rotifers reported from the Arctic-seas only nine seem to be endemic, and out of 11 species found in the Antarctic the presumed endemics are only four. But these results may be underestimates owing to the very few studies and poor state of areal coverage.

DISCUSSION

The analysis of literature citing rotifers in saltwater, uncovers an unexpected fauna, composed of freshwater (106 taxa), inland saline (133 taxa) and thalassic (brackish-marine) (289 taxa) elements. Part of this freshwater fraction probably concerns species at the upper limit of their salinity tolerance. The majority, however, must be seen as introductions by rivers, streams, etc. In this respect it is interesting to note, that the viability of rotifer diapausing eggs is almost not affected by exposure to open-ocean water, despite the low salinity tolerance of the adult stages of most species (Gray et al., 2005). Inland saline waters, although studied to a much larger extent (see e.g. Hammer, 1986) than marine-brackish waters, show a smaller number of rotifer taxa, with 48 of them restricted to these environments. Undoubtedly this lower number results from environmental stress, due to high salinities, ionic compostion, high pH values, unstable physiochemical conditions and other extreme variables of many of these systems. In contrast with the apparent situation in marine-brackish waters, inland saline waters, viz. soda lakes, show a number of true endemics.

The not insignificant rotifer species richness in thalassic environments is worth being addressed by further investigations as, for instance, many species have been reported only by their description, suggesting either considerable endemism or taxonomic errors. The euryhaline taxa, occurring in both fresh and salt waters, are apparently very tolerant and cope with considerable changes of salinity. However, it may also be possible that freshwater species and thalassic species, displaying identical phenotypes, possess different genotypes and are actually sibling species. In fact, rotifer siblings are known to differ for

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ecological requirements and cannot be seen as ecological analogues (e.g. Ciros-Perez et al., 2001; Gomez et al., 2002).

The rotifer fauna has been searched for in a number of thalassic habitats, from psammon of sandy shores (e.g. Turner, 1990, 1993), periphyton of tidal pools (e.g. Saunders-Davies, 1995, 1998) and deep sediments (Sommer et al., 2003), to plankton (e.g. Arndt et al., 1990; Viitasalo, 1994; De Smet, 2006). Although our knowledge of rotifer diversity in thalassic waters is far from being complete, the major groups, i.e. Seisonidea, Monogononta and Bdelloidea, seem to be unevenly represented. Seisonidea are exclusively marine (Ricci et al., 1993; Ahlrichs, 1998). About 17% of monogonont species and 1% of known bdelloids live in thalassic environments (Table 1). The overall ratio of bdelloid to monogonont species from freshwater habitats is 1:3, and reasonably, thalassic species should occur in a similar proportion. In contrast, the bdelloids appear highly under-represented (ratio 1:83). Actually, bdelloids are often mentioned in thalassic species lists as 'bdelloid undetermined'. Commonly, this results from problems with identification, due to contraction and deformation of the specimens after addition of fixative to the samples (almost all of them can only be identified alive). Thus the bdelloids might have been poorly documented in thalassic habitats because of this problem with identification. However, at the present stage of knowledge, we cannot rule out the hypothesis that bdelloids are physiologically 'incompatible' with the thalassic environment.

The low number of thalassic rotifer species, probably also results in part from the occasional nature of the samplings. More extensive research at a single site over a longer period will reveal many more species. Tzschaschel (1979) for example, reported in a single paper concerning the North Sea, 21 psammobiotic species, with 13 of them new to science.

On the whole, although unexpectedly high, the diversity of Rotifera is much lower in thalassic environments than in freshwaters. If this is to be ascribed to scarce investments into this field, to poor efforts of rotifer investigators, or to some biological peculiarity of the rotifers it is premature to say. But, if the relatively poor attention paid to the thalassic rotifers has generated a list of 289 taxa with 254 species, representing about 14% of the actually known species considered valid, we can reasonably predict that the rotifer diversity in thalassic environments is much more relevant.

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Appendix 1. *Saltwater rotifers found in thalassic environments and inland saline waters, their ecology and distribution.*

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Adineta glauca Wulfert, 1942	×		×			×																		Althaus (1957a), De Ridder (1968), Pax & Wulfert (1942), Wulfert (1942b)
Adineta gracilis Janson, 1893	×		×			×																		De Ridder (1968), Wulfert (1943)
Adineta grandis Murray, 1910	×		×			×																		Dartnall (1997), Murray (1910), Spurr (1957)
Albertia crystallina Schultze, 1851		×		×				×			×													De Smet & Pourriot (1997)
Anuraeopsis fissa (Gosse, 1851)	×	×			×		×				×						×							Althaus (1957a), De Ridder (1968), Voropayev et al. (1985), Wibaut-Isebree Moens (1954)
Anuraeopsis navicula Rousselet, 1910		×	×				×																	Xu (1998)
Ascomorpha ecaudis Perty, 1850	×	×			×		×				×	×												Althaus (1957a), De Ridder (1968), Pejler (1972), Remane (1929), Rudescu (1961)
Ascomorpha ovalis (Bergendal, 1892)		×			×		×															×		De Ridder (1983)
Ascomorpha saltans Bartsch, 1870		×			×	×	×											×						De Ridder (1960), De Ridder (1961), De Ridder (1968)
Aspelta clydona Harring & Myers, 1928		×		×		×				×	×		×											Funch & Sørensen (2001), Godske Björklund (1972b), Godske Eriksen (1968), Jansson (1967), Remane (1929), Saunders-Davies (1995), Sørensen (2001b)
Aspelta europaea (Hauer, 1939)		×			×	×					×													De Smet & Pourriot (1997), Sick (1933)
Aspelta harringi (Remane, 1929)		×		×		×					×		×						×					d'Hondt (1970), Otto (1936), Remane (1929), Saunders-Davies (1995)
Aspelta mollis Rodewald-Rudescu, 1960 sp. inq.		×		×		×						×												Rudescu (1961)
Aspelta pachida (Gosse, 1887)		×		×		×					×													Remane (1929), Rentz (1940), Schwarz (1955/1956), Schwarz (1962)
Aspelta reibischi (Remane, 1929)		×		×		×					×													Bērziņš (1952), De Smet & Pourriot (1997)
Asplanchna brightwellii Gosse, 1850	×	×			×		×				×	×	×						×					Althaus (1957a), De Ridder (1959), De Ridder (1968), Remane (1929), Rentz (1940), Rudescu (1961), Wibaut-Isebree Moens (1954)
Asplanchna herrickii De Guerne, 1888		×	×				×																	Wibaut-Isebree Moens (1954)
Asplanchna priodonta Gosse, 1850	×	×			×		×				×	×	×					×	×			×		De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), De Ridder (1983), Löffler (1954), Remane (1929), Rudescu (1961), Schwarz (1955/1956), Viitasalo & Kataiisto (1994), Viitasalo (1994), Wibaut-Isebree Moens (1954)
Asplanchna sieboldi (Leydig, 1854)		×	×				×																	Schwarz (1962)
Asplanchnopus hyalinus Harring, 1913		×	×				×																	Forés et al. (1986)
Asplanchnopus syrinx (Ehrenberg, 1837) sp. inq.	×		×				×																	Nógrádi (1957)
Brachionus angularis f. *bidens* Plate, 1886		×			×		×				×	×												Rudescu (1961), Wibaut-Isebree Moens (1954)
Brachionus angularis Gosse, 1851	×	×			×		×				×	×	×				×	×	×		×			Adamkiewicz-Chojnacka & Radwan (1989), Adamkiewicz-Chojnacka & Rozanska (1990), Althaus (1957a), De Manuel (1995), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), Forés et al. (1986), Gessner (1957), Hada (1939), Hauer (1957), Remane (1929), Rudescu (1961), Schiewer et al. (1990), Schwarz (1955/1956),Thiel (1996), Turner (1993), Wibaut-Isebree Moens (1954)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Brachionus asplanchnoides Charin, 1947	×			×			×																	Rong et al. (1998)
Brachionus bennini (Leissling, 1924)		×	×					×																De Ridder (1983)
Brachionus calyciflorus f. *amphiceros* Ehrenberg, 1838		×			×		×				×	×												Rudescu (1961), Schwarz (1955/1956)
Brachionus calyciflorus f. *anuraeiformis* Brehm, 1909		×			×		×					×												Rudescu (1961)
Brachionus calyciflorus f. *dorcas* Gosse, 1851	×		×				×																	Sørensen (2001a)
Brachionus calyciflorus Pallas, 1766	×	×			×		×				×	×	×					×	×				×	Adamkiewicz-Chojnacka & Radwan (1989), Adamkiewicz-Chojnacka & Rozanska (1990), Althaus (1957a), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), De Ridder (1983), Forés et al. (1986), Jenkin (1936), Remane (1929), Rudescu (1961), Saint Jean & Pagano (1987), Schwarz (1955/1956), Sørensen (2001b), Thiel (1996), Thomas (1965), Thomas (1972), Wibaut-Isebree Moens (1954)
Brachionus caudatus Barrois & Daday, 1894	×		×				×																	Galat et al. (1981)
Brachionus cf. *nilsoni* (Ahlstrom, 1940)	×		×				×																	Halse et al. (1998)
Brachionus dimidiatus f. *dimidiatus* (Bryce, 1931)	×				×		×																	Jenkin (1936), Nogrady (1983), Pourriot et al. (1967), Vareschi & Jacobs (1984), Vareschi & Jacobs (1985), Vareschi & Vareschi (1984)
Brachionus dimidiatus f. *inermis* (Schmarda, 1854)	×				×		×																	de Beauchamp (1932a), de Beauchamp (1932b), Nogrady (1983), Rong et al. (1998)
Brachionus dimidiatus f. *quartarius* de Beauchamp, 1932	×				×		×																	de Beauchamp (1932a), de Beauchamp (1932b), Nogrady (1983)
Brachionus diversicornis (Daday, 1893)		×	×				×																	Rudescu (1961)
Brachionus falcatus Zacharias, 1898		×	×				×																	Saint Jean & Pagano (1987)
Brachionus forficula f. *minor* Voronkov, 1913		×	×				×																	Rudescu (1961)
Brachionus ibericus Ciros-Perez, Gomez & Serra, 2001		×		×			×											×						Ciros-Perez et al. (2001b)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Brachionus leydigii Cohn, 1862	×	×			×		×				×													Althaus (1957a), De Ridder (1968), Wibaut-Isebree Moens (1954)
Brachionus novaezelandiae Morris, 1913	×				×		×	×																Rong et al. (1998)
Brachionus novaezelandiae var. *hungaricus* Nogrady, 1957	×				×			×																Nógrádi (1957)
Brachionus plicatilis (Müller, 1786)	×	×		×			×			×	×	×		×		×	×	×	×	×	×	×		Althaus (1957a), Anderson et al. (1955), Arndt & Heerkloss (1989), Chujkov (1985), Ciros-Perez et al. (2001a), Ciros-Perez et al. (2001b), d'Hondt (1970), de Beauchamp (1930), de Beauchamp (1932b), De Manuel (1990), De Manuel et al. (1992), De Manuel (1995), De Ridder (1958), De Ridder (1960), De Ridder (1962), De Ridder (1967), De Ridder (1968), De Ridder (1981), De Ridder (1983), Egborge (1994), Forés et al. (1986), Galat et al. (1981), Gaudy et al. (1995), Gessner (1957), Ghilarov (1967), Gillard (1959), Godske Björklund (1972b), Godske Eriksen (1968), Hada (1939), Halse et al. (1998), Hauer (1925), Hauer (1957), Hauer (1963), Heinbokel et al. (1988), Hlava & Heerkloss (1994), Jenkin (1936), Kameswara Rao & Mohan (1984), Koste (1981), Lam-Hoai et al. (1997), Lebedeva et al. (1988), Löffler (1953), Nogrady (1983), Ovander (1985), Pourriot et al. (1967), Pretus et al. (1992), Remane (1929), Rentz (1940), Reviriego et al. (1993), Rong et al. (1998), Rougier & Lam-Hoai (1997), Rudescu (1961), Russell (1962), Saint Jean & Pagano (1987), Schwarz (1955/1956), Schwarz (1959), Segers & Dumont (1993), Sick (1933), Sládeček (1955), Timms (1981), Turner (1993), Vareschi & Jacobs (1984), Vareschi & Jacobs (1985), Vareschi & Vareschi (1984), Voropayev et al. (1985), Walker (1981), Wibaut-Isebree Moens (1954), Williams (1981), Wulfert (1942a), Wulfert (1943)
Brachionus quadridentatus f. *brevispinus* Ehrenberg, 1832		×			×	×						×												Nógrádi (1957), Rudescu (1961)
Brachionus quadridentatus f. *hyphalmiros* Tschugunoff, 1921		×			×	×						×												Rougier et al. (2005)
Brachionus quadridentatus f. *melhemi* (Barrois & Daday, 1894)		×	×			×																		De Ridder (1983)
Brachionus quadridentatus Hermann, 1783	×	×			×	×					×	×					×	×						Althaus (1957a), De Manuel (1995), De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), De Ridder (1981), Forés et al. (1986), Galat et al. (1981), Godske Björklund (1972b), Hauer (1963), Heerkloss & Schnese (1999), Hlava & Heerkloss (1994), Megyeri (1963), Remane (1929), Rentz (1940), Rudescu (1961), Thiel (1996), Thomas (1965), Thomas (1972), Voropayev et al. (1985), Williams (1981)

(Continued)

Appendix 1. *(Continued).*

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Brachionus quadridentatus var *entzii* f. *convergens* Nógrádi, 1957	×			×		×																		Nógrádi (1957)
Brachionus rotundiformis Tschugunoff, 1921		×		×			×					×		×				×						Chujkov (1985), Ciros-Perez et al. (2001a), Ciros-Perez et al. (2001b), Haberman & Sudzuki (1998), Rong et al. (1998), Rudescu (1961)
Brachionus rubens Ehrenberg, 1838	×	×			×			×			×							×					×	Althaus (1957a), De Ridder (1962), De Ridder (1968), De Ridder (1981), De Ridder (1983), Godske Björklund (1972b), Nógrádi (1957), Remane (1929), Sládeček (1955)
Brachionus sessilis Varga, 1951		×	×					×																De Ridder (1983)
Brachionus urceolaris Müller, 1773	×	×			×	×				×	×	×	×				×	×	×		×			Althaus (1957a), De Pauw (1969), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), Forés et al. (1986), Ghilarov (1967), Hauer (1963), Nógrádi (1957), Pasquali (1940), Rentz (1940), Rudescu (1961), Schiewer et al. (1990), Schwarz (1955/1956), Sládeček (1955), Sørensen (2001a), Voropayev et al. (1985), Wibaut-Isebree Moens (1954)
Cephalodella auriculata (Müller, 1773)	×	×			×	×					×													Althaus (1957a), Althaus (1957b), De Ridder (1968), Godske Björklund (1972b)
Cephalodella catellina (Müller, 1786)	×	×			×	×					×	×						×	×			×		Althaus (1957a), d'Hondt (1970), De Manuel et al. (1992), De Ridder (1962), De Ridder (1967), De Ridder (1968), De Ridder (1983), Godske Björklund (1972b), Hauer (1925), Iltis et al. (1984), Remane (1929), Rentz (1940), Rudescu (1961), Wulfert (1943)
Cephalodella delicata Wulfert, 1937	×	×			×	×					×													De Ridder (1968), Godske Björklund (1972b), Wulfert (1943)
Cephalodella fluviatilis (Zawadowski, 1926)	×				×	×	×																	de Beauchamp (1932a), Jenkin (1936), Nogrady et al. (1995), Pourriot et al. (1967)
Cephalodella forficata (Ehrenberg, 1832)	×		×			×																		Sørensen (2001a)
Cephalodella forficula Ehrenberg, 1832	×	×	×			×																		Althaus (1957a), De Manuel (1995), De Ridder (1968)
Cephalodella gibba (Ehrenberg, 1832)	×	×			×	×	×				×					×			×	×				Althaus (1957a), d'Hondt (1970), De Manuel (1995), De Ridder (1968), Godske Björklund (1972b), Hauer (1925), Kameswara Rao & Mohan (1984), Nógrádi (1957), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Turner (1993)
Cephalodella gisleni Bērziņš, 1953	×			×			×																	Nogrady et al. (1995)
Cephalodella globata (Gosse, 1887)		×			×	×																		Koste (1978)
Cephalodella gracilis (Ehrenberg, 1832)	×	×			×	×				×	×													Althaus (1957a), Althaus (1957b), De Ridder (1968), Funch & Sørensen (2001), Godske Björklund (1972b)
Cephalodella hoodi (Gosse, 1886)	×				×	×																		Althaus (1957a), De Ridder (1968)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Cephalodella marina Myers, 1924		×		×		×												×						Nogrady et al. (1995), Pasquali (1940)
Cephalodella megalocephala (Glascott, 1893)	×	×			×	×					×													Althaus (1957a), De Ridder (1968), Godske Björklund (1972b)
Cephalodella mineri Myers, 1924	×			×		×																		Nogrady et al. (1995)
Cephalodella obvia Donner, 1950	×				×		×																	Vareschi & Vareschi (1984)
Cephalodella pachydactyla Wulfert, 1937		×	×			×																		Godske Björklund (1972b)
Cephalodella pentaplax Wulfert, 1943	×				×	×																		De Ridder (1968), Nogrady et al. (1995), Wulfert (1943)
Cephalodella stenroosi Wulfert, 1937	×				×	×																		Koste (1978)
Cephalodella sterea (Gosse, 1887)	×		×			×																		De Ridder (1968)
Cephalodella sterea minor Donner, 1950	×		×			×																		Althaus (1957a)
Cephalodella tenuiseta (Burn, 1890)		×	×			×																		Remane (1929)
Cephalodella ventripes (Dixon-Nuttall, 1901)	×	×	×			×																		Althaus (1957a), Althaus (1957b), De Ridder (1968), Godske Björklund (1972b)
Collotheca campanulata (Dobie, 1849)		×			×	×					×													Remane (1929)
Collotheca cornuta (Dobie, 1849)	×	×	×			×																		De Ridder (1968), Hauer (1925), Remane (1929), Schwarz (1955/1956), Schwarz (1962)
Collotheca coronetta (Cubitt, 1869)	×		×			×																		Althaus (1957a), De Ridder (1968)
Collotheca mutabilis (Hudson, 1885)		×			×		×				×													Pejler (1972), Remane (1929), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962)
Collotheca ornata (Ehrenberg, 1832)	×	×			×	×					×													Armitage & House (1962), De Ridder (1968), Hauer (1925), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Sick (1933)
Collotheca ornata f. *natans* Tschugunoff, 1921		×			×		×					×												Rudescu (1961)
Collotheca pelagica (Rousselet, 1893)		×			×		×				×	×												Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Colurella adriatica Ehrenberg, 1831	×	×			×	×					×	×	×			×	×	×	×		×	×		Althaus (1957a), Althaus (1957b), d'Hondt (1970), De Manuel et al. (1992), De Manuel (1995), De Ridder (1957a), De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1967), De Ridder (1968), De Ridder (1983), De Smet (2006), Forés et al. (1986), Gessner (1957), Godske Björklund (1972b), Godske Eriksen (1968), Hauer (1925), Hauer (1957), Nógrádi (1957), Pasquali (1940), Pax & Wulfert (1941), Pax & Wulfert (1942), Pretus et al. (1992), Remane (1929), Rentz (1940), Rudescu (1961), Saunders-Davies (1995), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Turner (1993), Voropayev et al. (1985), Wulfert (1942a)

(Continued)

Appendix 1. *(Continued).*

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Colurella adriatica f. *alpha* Hauer, 1925		×			×	×						×												Rudescu (1961)
Colurella adriatica f. *beta* Hauer, 1925		×			×	×						×												Rudescu (1961)
Colurella adriatica f. *gamma* Hauer, 1925		×			×	×						×												Rudescu (1961)
Colurella anodonta Carlin, 1939	×				×	×																		De Ridder (1968)
Colurella colurus (Ehrenberg, 1830)	×	×			×	×			×	×	×	×	×			×		×	×		×	×		Althaus (1957a), Czapik (1952), de Beauchamp (1930), De Manuel et al. (1992), De Ridder (1957a), De Ridder (1957b), De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1983), De Smet (2002), De Smet (2006), Fenchel & Jansson (1966), Forés et al. (1986), Funch & Sørensen (2001), Ghilarov (1967), Gillard (1959), Godske Björklund (1972b), Godske Eriksen (1968), Hauer (1925), Jansson (1967), Kameswara Rao & Mohan (1984), Lam-Hoai et al. (1997), Münch & Petzold (1955/1956), Pasquali (1940), Pax & Wulfert (1941), Pax & Wulfert (1942), Pretus et al. (1992), Remane (1929), Rougier & Lam-Hoai (1997), Rudescu (1961), Saunders-Davies (1995), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Sørensen (2001a), Turner (1990), Turner (1993), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983), Wulfert (1942a), Zelinka (1907)
Colurella colurus f. *compressa* Lucks, 1912		×	×			×																		Pasquali (1940), Turner (1990)
Colurella dicentra Gosse, 1887	×	×			×	×					×	×						×			×			De Ridder (1968), De Ridder (1981), Godske Björklund (1972b), Godske Eriksen (1968), Hauer (1925), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Sørensen (2001b), Turner (1990), Tzschaschel (1979), Wulfert (1942a)
Colurella geophila Donner, 1951	×	×			×	×					×													De Ridder (1968), Godske Björklund (1972b), Segers & Dumont (1993)
Colurella geophila hallensis Althaus, 1957	×			×		×																		Althaus (1957a)
Colurella geophila limnetica Althaus, 1957	×			×		×																		Althaus (1957a)
Colurella halophila Wulfert, 1942		×		×		×					×							×						Bērziņš (1952), De Ridder (1967), Schwarz (1962), Wulfert (1942a)
Colurella hindenburgi Steinecke, 1917		×	×			×																		Rougier et al. (2005)
Colurella marinovi Althaus, 1957		×		×		×						×												Rudescu (1961)
Colurella obtusa (Gosse, 1886)	×	×			×	×				×								×						Althaus (1957a), Althaus (1957b), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Ghilarov (1967), Iltis et al. (1984), Wulfert (1942a)
Colurella ornata Fadeew, 1927		×	×			×																		De Ridder (1960), De Ridder (1961)
Colurella salina Althaus, 1957	×	×		×		×			×												×			Althaus (1957a), De Ridder (1968), De Smet (2002), Turner (1993)
Colurella subtilis Althaus, 1957	×			×		×																		Althaus (1957a), De Ridder (1968)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Colurella uncinata (Müller, 1773)	×	×			×	×				×	×	×						×			×			Althaus (1957a), Althaus (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1968), Funch & Sørensen (2001), Godske Eriksen (1968), Ovander (1985), Schwarz (1955/1956), Sørensen (2001a)
Colurella uncinata f. *bicuspidata* (Ehrenberg, 1832)	×	×			×	×												×						Althaus (1957a), Althaus (1957b), De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1968), Wulfert (1942a)
Colurella uncinata f. *deflexa* (Ehrenberg, 1834)	×	×			×	×												×						Althaus (1957a), Wulfert (1942a)
Colurella unicauda Godske Eriksen, 1968		×		×		×				×	×													Funch & Sørensen (2001), Funch Andersen (1990), Godske Eriksen (1968), Sørensen & Kristensen (2000)
Conochilus hippocrepis (Schrank, 1830)		×			×		×					×												Rudescu (1961)
Conochilus unicornis Rousselet, 1892		×	×				×																	De Ridder (1968), Remane (1929), Schwarz (1962)
Dicranophoroides caudatus (Ehrenberg, 1834)	×				×	×																		Althaus (1957a), De Ridder (1968), De Smet & Pourriot (1997)
Dicranophorus bulgaricus Althaus, 1957		×		×		×						×												De Smet & Pourriot (1997), Rudescu (1961)
Dicranophorus forcipatus (Müller, 1786)		×			×	×						×												Rudescu (1961)
Dicranophorus proclestes Harring & Myers, 1928		×	×			×																		Rudescu (1961)
Dipleuchlanis propatula (Gosse, 1886)		×	×			×																		Kameswara Rao & Mohan (1984)
Encentrum algente Harring, 1921		×		×		×			×	×	×													De Smet & Pourriot (1997), De Smet (1995), De Smet (2002), Funch & Sørensen (2001), Godske Eriksen (1968), Otto (1936), Schwarz (1955/1956)
Encentrum arenarium Althaus, 1957		×		×		×						×												De Smet & Pourriot (1997), Rudescu (1961)
Encentrum astridae Sørensen, 2001		×		×		×															×			Sørensen (2001a)
Encentrum axi Tzschaschel, 1979		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum barti De Smet, 2000		×		×		×					×													De Smet (2000)
Encentrum bidentatum (Lie-Pettersen, 1906)		×		×		×					×													De Smet & Pourriot (1997), Godske Eriksen (1968), Sick (1933)
Encentrum boddensis Schwarz, 1962		×		×			×				×													Schwarz (1962)
Encentrum cruentum Harring & Myers, 1928		×		×		×					×													Bērziņš (1952), De Smet & Pourriot (1997), Schwarz (1962)
Encentrum dieteri De Smet, 1995		×		×		×				×														De Smet & Pourriot (1997), De Smet (1995)
Encentrum enteromorphae Otto, 1936		×		×		×					×													De Smet & Pourriot (1997), Otto (1936)
Encentrum eristes Harring & Myers, 1928		×		×		×					×													De Smet & Pourriot (1997), Otto (1936)
Encentrum eulitorale Tzschaschel, 1978		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Encentrum flexile Godske Eriksen, 1968		×		×		×					×													De Smet & Pourriot (1997), Godske Eriksen (1968)
Encentrum frenoti De Smet, 2002		×		×		×			×															De Smet (2002)
Encentrum glaucum Wulfert, 1936	×				×	×																		Althaus (1957a), De Ridder (1968), De Smet & Pourriot (1997)
Encentrum graingeri Chengalath, 1985		×		×		×				×														De Smet & Pourriot (1997), De Smet (1995), Friedrich & De Smet (2000), Sørensen & Kristensen (1998)
Encentrum gulo Wulfert, 1936	×				×	×																		Althaus (1957a), De Ridder (1968), De Smet & Pourriot (1997)
Encentrum incertum Althaus, 1957 sp. inq.		×		×		×						×												Rudescu (1961)
Encentrum kostei Tzschaschel, 1978		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980)
Encentrum lacidum Harring & Myers, 1928		×		×		×															×			De Smet & Pourriot (1997)
Encentrum limicola Otto, 1936		×		×		×				×	×													De Smet & Pourriot (1997), Funch & Sørensen (2001), Otto (1936), Sørensen (2001b)
Encentrum listense Tzschaschel, 1978		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1983)
Encentrum listensoides De Smet, 2000		×		×		×					×													De Smet (2000)
Encentrum longirostrum Tzschaschel, 1978		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum marinum (Dujardin, 1841)	×	×			×	×			×	×	×	×	×			×		×	×	×	×			Althaus (1957a), Bērziņš (1952), d'Hondt (1970), De Manuel et al. (1992), De Ridder (1968), De Smet (1995), De Smet (2002), De Smet (2006), Funch & Sørensen (2001), Godske Björklund (1972b), Godske Eriksen (1968), Hauer (1925), Hollowday (1949), Kameswara Rao & Mohan (1984), Pasquali (1940), Pretus et al. (1992), Remane (1929), Rentz (1940), Rudescu (1961), Russell (1962), Saunders-Davies (1995), Saunders-Davies (1998), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Sick (1933), Sørensen & Kristensen (1998), Sørensen (2001b), Turner (1990), Wulfert (1942a)
Encentrum matthesi Remane, 1949		×		×		×					×													Remane (1949)
Encentrum mustela (Milne, 1885)	×	×	×			×																		Althaus (1957a), Dartnall (1997), De Ridder (1968), De Smet & Pourriot (1997)
Encentrum myersi Wulfert, 1936		×		×		×					×													De Smet & Pourriot (1997)
Encentrum nesites Harring & Myers, 1928		×			×	×															×			De Smet & Pourriot (1997)
Encentrum obesum Tzschaschel, 1979		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979)
Encentrum oculatum Harring & Myers, 1928		×			×	×															×			De Smet & Pourriot (1997)
Encentrum pachypus Wulfert, 1936	×			×		×																		De Smet & Pourriot (1997)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Encentrum permutandum Tzschaschel, 1979		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum porsildi Sørensen, 1998		×		×		×				×	×													Sørensen & Kristensen (1998), Sørensen (2001b)
Encentrum psammophilum Althaus, 1957		×		×		×					×	×												De Smet & Pourriot (1997), Rudescu (1961), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum putorius Wulfert, 1936		×			×	×							×											Saunders-Davies (1998)
Encentrum remanei Voigt, 1957		×		×		×					×													De Smet & Pourriot (1997)
Encentrum rousseleti (Lie-Pettersen, 1906)	×	×		×		×					×	×							×					Althaus (1957a), d'Hondt (1970), De Smet & Pourriot (1997), De Ridder (1968), Münch & Petzold (1955/1956), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sick (1933)
Encentrum sacculiforme Tzschaschel, 1978		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum salinum Dartnall, 1997 sp. inq.	×			×		×																		Dartnall (1997)
Encentrum salsum Myers, 1936		×		×		×															×			De Smet & Pourriot (1997)
Encentrum simillimum Remane, 1929		×		×		×					×													De Smet & Pourriot (1997), Sick (1933), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Encentrum spatiatum Wulfert, 1936	×				×	×																		Althaus (1957a), Dartnall (1997), De Ridder (1968), De Smet & Pourriot (1997)
Encentrum striatum Althaus, 1957		×		×		×					×	×									×			De Smet & Pourriot (1997), Rudescu (1961), Turner (1990), Tzschaschel (1979)
Encentrum tectipes Remane, 1949		×		×		×															×			De Smet & Pourriot (1997), Sørensen (2001a)
Encentrum tenuidigitatum De Smet, 2000		×		×		×				×	×													De Smet (2000), Funch & Sørensen (2001)
Encentrum valkanovi Althaus, 1957		×		×		×						×												De Smet & Pourriot (1997), Rudescu (1961)
Encentrum villosum Harring & Myers, 1928		×		×		×					×							×						De Smet & Pourriot (1997), Fenchel & Jansson (1966), Pasquali (1940), Schwarz (1955/1956), Sick (1933)
Eosphora ehrenbergi Weber, 1918		×			×	×						×						×						De Manuel et al. (1992), De Manuel (1995), Rudescu (1961)
Eosphora najas Ehrenberg, 1830	×	×			×	×												×						Althaus (1957a), De Manuel et al. (1992), De Ridder (1968), Segers & Dumont (1993)
Ephiphanes senta (Müller, 1773)	×		×			×																		Armitage & House (1962), Dartnall (1997), Iltis et al. (1984), Korotkevich (1964), Kutikova (1964)
Epiphanes macroura (Barrois & Daday, 1894)		×			×	×	×											×						De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1967)
Erignatha longidentata Sørensen, 2001		×		×		×					×													Sørensen (2001b)
Erignatha sagitta Harring & Myers, 1928		×		×		×															×			De Smet & Pourriot (1997)

(Continued)

Journal of the Marine Biological Association of the United Kingdom (2006)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Erignatha thienemanni Remane, 1929 nom. dub.		×		×		×					×								×					d'Hondt (1970), Sick (1933)
Euchlanis deflexa Gosse, 1851	×		×			×																		Althaus (1957a), De Ridder (1968)
Euchlanis dilatata Ehrenberg, 1832	×	×			×	×					×	×				×		×				×		Althaus (1957a), Althaus (1957b), De Manuel (1995), De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), De Ridder (1983), Godske Björklund (1972b), Kameswara Rao & Mohan (1984), Löffler (1954), Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Wibaut-Isebree Moens (1954)
Euchlanis dilatata f. *macrura* Ehrenberg, 1832		×			×	×						×												Rudescu (1961)
Euchlanis incisa Carlin, 1939		×	×			×																		De Ridder (1960), De Ridder (1961)
Euchlanis lyra Hudson, 1886		×			×	×						×												Ovander (1985)
Euchlanis parva Rousselet, 1892 sp. inq.		×			×	×												×						De Ridder (1960), De Ridder (1961)
Filinia brachiata (Rousselet, 1901)	×		×				×																	De Ridder (1968)
Filinia cornuta (Weisse, 1847)		×	×				×																	De Ridder (1968), Forés et al. (1986), Wibaut-Isebree Moens (1954)
Filinia limnetica (Zacharias, 1893)	×	×			×		×				×						×							Althaus (1957a), Rentz (1940), Schwarz (1955/1956), Schwarz (1962), Voropayev et al. (1985)
Filinia longiseta (Ehrenberg, 1834)	×	×			×		×				×	×	×			×		×	×					Adamkiewicz-Chojnacka & Radwan (1989), Adamkiewicz-Chojnacka & Rozanska (1990), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), Heerkloss & Schnese (1999), Kameswara Rao & Mohan (1984), Nógrádi (1957), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Schiewer et al. (1990), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Sørensen (2001b), Thiel (1996), Wibaut-Isebree Moens (1954), Wulfert (1942a)
Filinia passa (Müller, 1786)	×		×				×																	De Ridder (1968)
Filinia terminalis (Plate, 1886)	×	×			×		×				×	×												De Ridder (1968), Gessner (1957), Hauer (1957), Rentz (1940), Rudescu (1961), Thiel (1996)
Floscularia melicerta (Ehrenberg, 1832)		×			×		×				×													Remane (1929)
Gastropus hyptopus (Ehrenberg, 1838)	×		×				×																	Althaus (1957a), De Ridder (1968)
Gastropus stylifer Imhof, 1887	×		×				×																	De Ridder (1968)
Habrotrocha constricta (Dujardin, 1841)	×		×			×																		Murray (1910)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Hexarthra fennica (Levander, 1892)	×	×		×			×			×	×	×						×						Adamkiewicz-Chojnacka & Rozanska (1990), Anderson et al. (1955), De Manuel et al. (1992), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Ghilarov (1967), Godske Björklund (1972b), Hauer (1963), Moscatello & Belmonte (2004), Pretus et al. (1992), Remane (1929), Rudescu (1961), Sládeček (1955), Timms (1981), Wibaut-Isebree Moens (1954), Williams (1981)
Hexarthra fennica medica Löffler, 1954	×			×			×																	Löffler (1954)
Hexarthra jenkinae (de Beauchamp, 1932)	×			×			×																	de Beauchamp (1932a), Galat et al. (1981), Jenkin (1936), Nogrady (1983), Pourriot et al. (1967), Vareschi & Jacobs (1984), Vareschi & Vareschi (1984)
Hexarthra jenkinae nakuru Koste, 1977	×			×			×																	Koste (1977)
Hexarthra libica (Manfredi, 1939)	×			×			×																	Koste (1978)
Hexarthra mira (Hudson, 1871)	×	×			×		×				×												×	Althaus (1957a), Branco et al. (1998), De Ridder (1968), Megyeri (1963), Remane (1929), Sládeček (1955)
Hexarthra oxyuris (Zernov, 1903)	×	×		×			×				×	×						×						de Beauchamp (1930), De Manuel et al. (1992), Hauer (1925), Löffler (1953), Pretus et al. (1992), Remane (1929), Rudescu (1961)
Hexarthra polyodonta (Hauer, 1957)	×			×			×																	Gessner (1957), Hauer (1963)
Hexarthra polyodonta soaplakeiensis Koste, 1977	×			×			×																	Koste (1977)
Itura aurita (Ehrenberg, 1830)	×	×			×	×					×													Althaus (1957a), De Ridder (1968), Rentz (1940)
Itura myersi Wulfert, 1935	×		×				×																	Althaus (1957a), De Ridder (1968)
Kellicottia longispina (Kellicott, 1879)	×	×			×		×				×	×												De Ridder (1968), Hauer (1925), Remane (1929), Rudescu (1961), Wibaut-Isebree Moens (1954)
Keratella americana Carlin, 1943		×			×		×														×			Turner (1993)
Keratella cochlearis (Gosse, 1851)	×	×			×		×				×	×	×					×	×					Adamkiewicz-Chojnacka & Radwan (1989), Adamkiewicz-Chojnacka & Rozanska (1990), Althaus (1957a), De Pauw (1969), De Ridder (1957a), De Ridder (1957b), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), Forés et al. (1986), Godske Björklund (1972b), Hauer (1925), Hauer (1957), Lagus & Lindholm (2000), Meiners et al. (2002), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Sládeček (1955), Thiel (1996), Viitasalo et al. (1995), Wibaut-Isebree Moens (1954), Wulfert (1942a)
Keratella cochlearis baltica (Imhof, 1886)		×		×			×				×													Silina (1990)
Keratella cochlearis hispida Lauterborn, 1900		×			×		×					×												Rudescu (1961)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Keratella cochlearis micracantha Lauterborn, 1900		×			×		×					×												Rudescu (1961)
Keratella cochlearis recurvispina (Jägerskiöld, 1894)		×		×			×				×	×												Pejler (1972), Remane (1929), Rudescu (1961), Silina (1990)
Keratella cochlearis tecta (Gosse, 1851)	×	×			×		×				×	×	×					×	×					De Ridder (1959), De Ridder (1960), Hauer (1957), Heerkloss & Schnese (1999), Rudescu (1961), Schiewer et al. (1990), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962)
Keratella crassa Ahlstrom, 1943		×			×		×													×				Russell (1953)
Keratella cruciformis (Thompson, 1892)		×		×			×				×	×							×					d'Hondt (1970), Godske Eriksen (1968), Meiners et al. (2002), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Wibaut-Isebree Moens (1954)
Keratella eichwaldi (Levander, 1894)		×		×			×				×	×					×							Arndt & Heerkloss (1989), De Ridder (1981), Gillard (1959), Godske Björklund (1972b), Hada (1939), Heerkloss & Schnese (1999), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Keratella quadrata (Müller, 1786)	×	×			×		×			×	×	×	×					×	×					Althaus (1957a), De Pauw (1969), De Ridder (1957a), De Ridder (1957b), De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), De Ridder (1983), De Smet (1995), Forés et al. (1986), Godske Björklund (1972b), Hauer (1925), Hauer (1957), Koski et al. (1999), Meiners et al. (2002), Nógrádi (1957), Ovander (1985), Pasquali (1940), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Sládeček (1955), Thiel (1996), Viitasalo et al. (1995), Wibaut-Isebree Moens (1954)
Keratella quadrata f. *dispersa* Carlin, 1943	×		×				×																	Sládeček (1955)
Keratella quadrata f. *divergens* (Voigt, 1902)		×			×		×					×												Rudescu (1961)
Keratella quadrata f. *frenzeli* (Eckstein, 1895)		×			×		×				×													Silina (1990)
Keratella quadrata f. *platei* (Jägerskiöld, 1894)		×		×			×				×	×												Rudescu (1961), Silina (1990)
Keratella quadrata var. *brevispina* (Gosse, 1851)	×		×				×																	Nógrádi (1957)
Keratella testudo (Ehrenberg, 1832)		×	×				×																	De Ridder (1981)
Keratella tropica (Apstein, 1907)		×			×		×									×		×						Forés et al. (1986), Kameswara Rao & Mohan (1984)
Keratella tropica f. *brehmi* (Klausener, 1908)		×			×		×					×												Rudescu (1961)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Keratella tropica var. *taurocephala* Koste, 1978		×		×			×							×										Koste (1978)
Keratella valga (Ehrenberg, 1834)		×			×		×					×						×						De Ridder (1962), Rudescu (1961)
Keratella valga f. *heterospina* (Klausener, 1908)		×			×		×					×					×							Rudescu (1961), Voropayev et al. (1985)
Keratella valga f. *monospina* (Klausener, 1908)		×			×		×					×												Rudescu (1961)
Lecane abanica Segers, 1994	×			×		×																		Segers (1995)
Lecane althausi Rudescu, 1960 sp. inq.		×		×		×						×												Rudescu (1961)
Lecane arcuata (Bryce, 1891)		×			×	×															×			Turner (1990)
Lecane arcula Harring, 1914	×				×	×																		Segers & Dumont (1993)
Lecane aspasia Myers, 1917	×		×			×																		Althaus (1957a), De Ridder (1968)
Lecane bifurca (Bryce, 1892)	×		×			×																		Hauer (1940)
Lecane bulla (Gosse, 1851)	×	×			×	×	×									×		×			×	×	×	Althaus (1957a), Branco et al. (1998), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1983), Kameswara Rao & Mohan (1984), Nógrádi (1957), Rougier et al. (2005), Segers & Dumont (1993), Sládeček (1955), Sørensen (2001a)
Lecane closterocerca (Schmarda, 1859)	×	×			×	×				×	×							×						Althaus (1957a), Althaus (1957b), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Ghilarov (1967), Godske Björklund (1972b), Nógrádi (1957), Sládeček (1955)
Lecane cornuta (Müller, 1786)	×	×			×	×					×	×												Fenchel & Jansson (1966), Hamelin (1956), Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Lecane difficilis Segers & Pourriot, 1997		×	×			×																		Rougier et al. (2005)
Lecane eutarsa Harring & Myers, 1926		×	×			×																		Rougier et al. (2005)
Lecane flexilis (Gosse, 1886)	×	×			×	×												×						De Ridder (1960), Pax & Wulfert (1942)
Lecane furcata (Murray, 1913)	×	×	×			×																		Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1968), Segers & Dumont (1993)
Lecane galeata (Bryce, 1892)		×			×	×												×						Wulfert (1942a)
Lecane grandis (Murray, 1913)	×	×		×		×					×	×									×			Remane (1929), Rudescu (1961), Segers & Dumont (1993), Sørensen (2001a)
Lecane hamata (Stokes, 1896)	×	×	×			×																		De Ridder (1960), De Ridder (1961), De Ridder (1962), Segers & Dumont (1993)
Lecane hastata (Murray, 1913)	×	×			×	×					×										×	×		Brain & Koste (1993), De Ridder (1983), Remane (1929), Segers & Dumont (1993), Sørensen (2001a)
Lecane inconspicua Segers & Dumont, 1993	×			×		×																		Segers & Dumont (1993)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Lecane inermis (Bryce, 1892)	×	×			×	×															×			Pax & Wulfert (1941), Pax & Wulfert (1942), Segers (1995), Turner (1990), Turner (1993), Wulfert (1942b)
Lecane intrasinuata (Olofsson, 1917)		×			×	×				×														Ghilarov (1967)
Lecane lamellata (Daday, 1893)	×	×		×		×					×	×						×						De Manuel et al. (1992), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), Ovander (1985), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Segers & Dumont (1993)
Lecane ligona (Dunlop, 1901)		×			×	×					×													Remane (1929)
Lecane ludwigii (Eckstein, 1883)		×			×	×												×						De Ridder (1960), De Ridder (1961), De Ridder (1968), Segers (1995)
Lecane ludwigii f. *ichthyoura* (Anderson & Shepard, 1892)	×	×			×	×					×													Hauer (1925), Pretus et al. (1992), Schulz (1936/1937), Schwarz (1962)
Lecane ludwigii f. *lacinulata* Hauer, 1938	×				×	×																		Segers & Dumont (1993)
Lecane ludwigii f. *ohioensis* (Herrick, 1885)	×	×	×			×																		De Manuel et al. (1992), Godske Björklund (1972b), Halse et al. (1998), Schwarz (1962)
Lecane luna (Müller, 1776)	×	×			×	×				×	×	×						×			×	×		Althaus (1957a), Althaus (1957b), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), De Ridder (1983), Ghilarov (1967), Godske Björklund (1972b), Megyeri (1963), Nógrádi (1957), Pretus et al. (1992), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Segers & Dumont (1993), Turner (1990), Wibaut-Isebree Moens (1954)
Lecane lunaris (Ehrenberg, 1832)	×	×			×	×	×			×	×	×										×		Althaus (1957a), De Ridder (1968), De Ridder (1983), Ghilarov (1967), Nógrádi (1957), Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Lecane muscicola (Bryce, 1891)	×		×			×																		De Ridder (1968), Hauer (1925)
Lecane nana (Murray, 1913)	×	×			×	×					×							×						Althaus (1957a), De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), De Ridder (1981), Godske Björklund (1972b), Hauer (1925), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Segers & Dumont (1993)
Lecane papuana (Murray, 1913)		×			×	×										×								Kameswara Rao & Mohan (1984)
Lecane paradoxa (Steinecke, 1916)	×	×			×	×												×						De Ridder (1960), De Ridder (1961), Segers & Dumont (1993), Segers (1995)
Lecane paxiana Hauer, 1940	×		×			×																		Hauer (1940)
Lecane psammophila (Wiszniewski, 1932)		×	×			×																		Schwarz (1955/1956), Schwarz (1959), Schwarz (1962)
Lecane punctata (Murray, 1913)	×	×			×	×					×							×			×			De Ridder (1960), De Ridder (1961), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Segers & Dumont (1993), Sørensen (2001a)
Lecane pyriformis (Daday, 1905)	×	×	×			×																		De Ridder (1960), De Ridder (1961), De Ridder (1983), Segers & Dumont (1993)
Lecane quadridentata (Ehrenberg, 1832)	×	×			×	×					×							×						Althaus (1957a), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Remane (1929)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Lecane rhytida Harring & Myers, 1926		×	×			×																		Rougier et al. (2005)
Lecane sinuosa Nogrady, 1957 sp. inq.	×			×		×																		Nógrádi (1957)
Lecane stenroosi (Meissner, 1908)	×				×	×																		Segers (1995)
Lecane tenuiseta Harring, 1914	×		×			×																		Althaus (1957a), De Ridder (1968), Segers & Dumont (1993)
Lecane thalera (Harring & Myers, 1926)		×			×	×					×													Schwarz (1955/1956), Schwarz (1962), Segers (1995)
Lecane ungulata (Gosse, 1887)		×	×			×																		De Ridder (1960), De Ridder (1961), De Ridder (1962)
Lepadella acuminata (Ehrenberg, 1834)		×			×	×					×							×						De Ridder (1960), De Ridder (1961), De Ridder (1962), Godske Björklund (1972b), Remane (1929)
Lepadella amphitropis Harring, 1916	×		×			×																		Nógrádi (1957)
Lepadella arabica Segers & Dumont, 1993	×				×	×																		Segers & Dumont (1993)
Lepadella duvigneaudi De Ridder, 1968	×			×		×																		De Ridder (1968)
Lepadella minuta (Montet, 1918)	×		×			×																		Segers & Dumont (1993)
Lepadella oblonga (Ehrenberg, 1834)		×			×	×					×													Godske Björklund (1972b)
Lepadella ovalis (Müller, 1786)	×	×			×	×					×	×												Althaus (1957a), Althaus (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1968), Remane (1929), Rudescu (1961)
Lepadella patella (Müller, 1786)	×	×			×	×				×	×					×		×						Althaus (1957b), De Manuel (1995), De Ridder (1958), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Ghilarov (1967), Godske Björklund (1972b), Kameswara Rao & Mohan (1984), Korotkevich (1964), Nógrádi (1957), Remane (1929)
Lepadella patella similis Lucks, 1912	×	×			×	×					×	×						×						Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Godske Björklund (1972b), Hauer (1925), Megyeri (1963), Rudescu (1961)
Lepadella pontica Koch-Althaus, 1957		×		×		×						×												Rudescu (1961)
Lepadella psammophila Tzschaschel, 1974		×		×		×					×													Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Lepadella quadricarinata (Stenroos, 1898)		×			×	×					×													Godske Björklund (1972b)
Lepadella rhomboides (Gosse, 1886)		×	×			×																		Rougier et al. (2005)
Lepadella rhomboidula (Bryce, 1890)		×	×			×																		De Ridder (1960)
Lepadella triptera (Ehrenberg, 1830)	×	×			×	×					×							×						Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1968), Godske Björklund (1972b), Hauer (1925), Remane (1929), Segers & Dumont (1993)
Lindia annecta Harring & Myers, 1922		×	×			×																		Schwarz (1962)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Lindia elsae De Smet, 2006		×		×		×										×								De Smet (2006)
Lindia gravitata (Lie-Pettersen, 1906)		×		×		×					×													De Smet (2005), Schulz (1936/1937)
Lindia tecusa Harring & Myers, 1922		×		×		×					×	×							×					De Smet (2005), d'Hondt (1970), Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Sørensen (2001b), Tzschaschel (1979)
Lindia torulosa Dujardin, 1841		×			×	×			×		×		×											De Ridder (1968), De Smet (2002), Saunders-Davies (1998), Schwarz (1955/1956), Schwarz (1962)
Lophocharis ambidentata De Ridder, 1960		×		×		×												×						De Ridder (1960), De Ridder (1961)
Lophocharis najas Wulfert, 1942		×			×	×												×						De Ridder (1960), De Ridder (1961)
Lophocharis oxysternon (Gosse, 1851)		×			×	×												×						De Ridder (1960), De Ridder (1961), De Ridder (1962)
Lophocharis salpina (Ehrenberg, 1834)	×	×			×	×					×								×					Althaus (1957a), d'Hondt (1970), De Ridder (1968), Hauer (1925), Iltis et al. (1984), Remane (1929)
Mniobia symbiotica (Zelinka, 1886)	×	×			×	×																		Egborge (1994)
Monommata dentata Wulfert, 1940	×		×			×																		Althaus (1957a), De Ridder (1968)
Monommata grandis Tessin, 1890	×		×			×																		De Ridder (1968), Hauer (1925)
Monommata longiseta (Müller, 1776)	×		×			×																		De Ridder (1968)
Mytilina mucronata (Müller, 1773)	×	×			×	×					×							×						Althaus (1957a), De Ridder (1962), De Ridder (1968), Godske Björklund (1972b), Nógrádi (1957), Remane (1929)
Mytilina ventralis (Ehrenberg, 1832)		×			×	×				×	×	×												Ghilarov (1967), Godske Björklund (1972b), Remane (1929), Rudescu (1961)
Mytilina ventralis f. *brevispina* Ehrenberg, 1832	×	×			×	×				×		×						×						Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1968), Ghilarov (1967), Nógrádi (1957), Rudescu (1961)
Mytilina videns (Levander, 1894)		×			×	×					×	×												Remane (1929), Rudescu (1961)
Notholca acuminata (Ehrenberg, 1832)	×	×			×		×			×	×	×	×				×	×	×					Althaus (1957a), Althaus (1957b), De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), Forés et al. (1986), Ghilarov (1967), Gillard (1959), Godske Björklund (1972a), Godske Björklund (1972b), Godske Eriksen (1968), Kameswara Rao & Mohan (1984), Nógrádi (1957), Pasquali (1940), Pejler (1972), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sládeček (1955), Voropayev et al. (1985), Wibaut-Isebree Moens (1954)
Notholca angakkoq Sørensen, 1998		×		×			×			×														Funch & Sørensen (2001), Sørensen & Kristensen (1998)
Notholca bipalium (Müller, 1786)		×		×			×				×							×			×			De Manuel et al. (1992), Focke (1961), Forés et al. (1986), Godske Björklund (1972a), Godske Björklund (1972b), Godske Eriksen (1968), Pretus et al. (1992), Remane (1929), Rentz (1940), Sick (1933), Turner (1990)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Notholca caudata Carlin, 1943		×			×	×	×				×													Godske Björklund (1972a)
Notholca foliacea (Ehrenberg, 1838)	×	×			×		×				×													Althaus (1957b), De Ridder (1968), Godske Björklund (1972b), Pejler (1972), Remane (1929), Rentz (1940), Schwarz (1955/1956), Schwarz (1962), Wibaut-Isebree Moens (1954)
Notholca ikaitophila Sørensen & Kristensen, 2000		×	×				×			×														Sørensen & Kristensen (2000)
Notholca japonica (Marukawa, 1928)		×	×				×				×						×							Bērziņš (1952), Hada (1939), Marukawa (1928)
Notholca japonica kisselevi Kutikova, 1970		×	×				×														×			Turner (1993)
Notholca labis Gosse, 1887	×	×			×		×				×						×	×						Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1968), Godske Björklund (1972a), Voropayev et al. (1985)
Notholca liepetterseni Godske Björklund, 1972		×	×				×			×	×													Funch & Sørensen (2001), Funch Andersen (1990), Godske Björklund (1972a)
Notholca marina Focke, 1961		×	×				×			×	×		×											De Ridder (1981), Focke (1961), Funch & Sørensen (2001), Godske Björklund (1972a), Saunders-Davies (1995)
Notholca pacifica Russell, 1962		×	×				×													×				Russell (1962)
Notholca psammarina Buchholz & Rühmann, 1956		×	×			×				×	×													Focke (1961), Funch & Sørensen (2001), Godske Björklund (1972a), Godske Eriksen (1968), Ruttner-Kolisko (1974)
Notholca squamula (Müller, 1786)	×	×			×		×				×	×	×					×	×					Althaus (1957a), De Manuel (1990), De Manuel et al. (1992), De Manuel (1995), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1967), De Ridder (1968), Forés et al. (1986), Gillard (1959), Pretus et al. (1992), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Wulfert (1943)
Notholca squamula salina f. *dumonti* De Ridder & Verheye, 1981		×	×				×				×													De Ridder (1981)
Notholca squamula salina Focke, 1961		×	×				×				×							×			×			De Manuel et al. (1992), De Manuel (1995), Focke (1961), Forés et al. (1986), Godske Björklund (1972a), Godske Eriksen (1968), Adamkiewicz-Chojnacka & Rozanska (1990), Sørensen (2001b), Turner (1990)
Notholca striata (Müller, 1786)	×	×			×		×			×	×	×	×				×	×						Bērziņš (1952), De Ridder (1957a), De Ridder (1957b), De Ridder (1958), De Ridder (1967), De Ridder (1968), Focke (1961), Forés et al. (1986), Funch & Sørensen (2001), Ghilarov (1967), Gillard (1959), Godske Björklund (1972a), Godske Eriksen (1968), Hada (1939), Hauer (1925), Nógrádi (1957), Pasquali (1940), Remane (1929), Rentz (1940), Rudescu (1961), Saunders-Davies (1995), Schulz (1936/1937), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Sick (1933), Sørensen (2001b), Wulfert (1942a)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Notholca striata f. *acuminata* (Ehrenberg, 1832)	×	×			×		×										×							Hada (1939), Hauer (1925)
Notholca striata f. *biremis* (Ehrenberg, 1832)		×			×		×				×						×							Hada (1939), Rentz (1940), Schwarz (1955/1956)
Notholca verae Kutikova, 1958	×				×		×																	Korotkevich (1964)
Notommata aurita Ehrenberg, 1830	×	×			×	×						×												Nógrádi (1957), Rudescu (1961)
Notommata cyrtopus Gosse, 1886	×		×			×																		Althaus (1957a), De Ridder (1968)
Notommata glyphura Wulfert, 1935	×	×			×	×						×												Althaus (1957a), De Ridder (1968), Rudescu (1961), Wulfert (1943)
Paradicranophorus hudsoni (Glascott, 1893)	×	×			×	×					×								×					De Smet & Pourriot (1997)
Paradicranophorus sinus De Smet, 2003		×		×		×					×													De Smet (2003)
Paradicranophorus sordidus Donner, 1968	×				×	×																		Dartnall (1997)
Paradicranophorus wesenberglundi Sørensen, 2001		×		×		×					×													Sørensen (2001b)
Philodina acuticornis Murray, 1902	×		×			×																		Pax & Wulfert (1941), Pax & Wulfert (1942), Wulfert (1942b)
Philodina alata Murray, 1910	×		×			×																		Korotkevich (1964)
Philodina citrina Ehrenberg, 1832	×	×	×			×																		Althaus (1957a), De Ridder (1968), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Philodina gregaria Murray, 1910	×		×			×																		Armitage & House (1962), Spurr (1957)
Philodina megalotrocha Ehrenberg, 1832	×		×			×	×																	Althaus (1957a), De Ridder (1968)
Philodina roseola Ehrenberg, 1832	×	×	×			×																		Althaus (1957a), De Ridder (1968), Münch & Petzold (1955/1956), Pax & Wulfert (1942), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Wulfert (1942b), Wulfert (1943)
Philodina tranquilla Wulfert, 1942	×				×	×																		Pax & Wulfert (1942), Wulfert (1942b)
Philodinavus paradoxus (Murray, 1905)	×		×			×																		Pax & Wulfert (1942)
Platyias quadricornis (Ehrenberg, 1832)		×			×	×												×						De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968)
Platyionus patulus (Müller, 1786)		×	×			×																		De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1983), Forés et al. (1986)
Pleurotrocha atlantica Myers, 1936		×		×		×												×						Nogrady et al. (1995), Wulfert (1942a)
Pleurotrocha petromyzon Ehrenberg, 1830	×				×	×		×																Althaus (1957a), De Ridder (1968)
Ploesoma hudsoni (Imhof, 1891)		×			×		×				×													Remane (1929), Rentz (1940), Wibaut-Isebree Moens (1954)
Ploesoma lenticulare Herrick, 1885	×				×	×	×																	Hollowday (2002)
Ploesoma truncatum (Levander, 1894)		×			×	×	×				×													Remane (1929)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Polyarthra dolichoptera Idelson, 1925		×	×				×																	De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1981), Ovander (1985)
Polyarthra remata Skorikov, 1896		×			×	×					×		×					×	×					De Ridder (1958), De Ridder (1959), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981)
Polyarthra vulgaris Carlin, 1943	×	×	×				×																	De Pauw (1969), De Ridder (1959), De Ridder (1968), Nógrádi (1957), Rudescu (1961), Timms (1981)
Pompholyx complanata Gosse, 1851		×	×			×																		De Ridder (1968), Wibaut-Isebree Moens (1954)
Pompholyx sulcata (Hudson, 1885)	×	×			×		×				×	×				×								De Ridder (1968), Hauer (1925), Kameswara Rao & Mohan (1984), Rentz (1940), Rudescu (1961)
Proales christinae De Smet, 1994		×		×				×			×													De Smet (1994), De Smet (1996a)
Proales commutata Althaus, 1957		×		×		×						×												De Smet (1996a), Rudescu (1961)
Proales decipiens (Ehrenberg, 1832)	×		×			×																		Althaus (1957a), De Ridder (1968)
Proales fallaciosa Wulfert, 1937	×		×			×																		Althaus (1957a), De Ridder (1968)
Proales fleetensis Saunders-Davies, 1995 sp. inq.		×		×		×							×											Saunders-Davies (1995)
Proales germanica Tzschaschel, 1978		×		×		×					×													De Smet (1996a), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Proales globulifera (Hauer, 1921)		×			×	×					×							×						Pasquali (1940), Remane (1929)
Proales gonothyraeae Remane, 1929		×		×				×											×					d'Hondt (1970), De Smet (1996a)
Proales halophila Remane, 1929		×		×		×			×	×	×	×	×											Bērziņš (1952), Czapik (1952), De Smet (1995), De Smet (1996a), De Smet (2002), Godske Björklund (1972b), Godske Eriksen (1968), Otto (1936), Rudescu (1961), Saunders-Davies (1995), Saunders-Davies (1998), Schwarz (1955/1956), Schwarz (1962), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Proales litoralis De Smet, 1996		×		×		×													×					De Smet (1996b)
Proales minima (Montet, 1915)		×			×	×															×			Turner (1993)
Proales oculata Tzschaschel, 1978		×		×		×					×													De Smet (1996a), Sørensen (2001b), Tzschaschel (1979), Tzschaschel (1980)
Proales paguri Thane-Fenchel, 1966		×		×				×											×					d'Hondt (1970), De Smet (1996a)
Proales reinhardti (Ehrenberg, 1834)		×		×		×			×	×	×	×	×						×					Bērziņš (1952), d'Hondt (1970), Dartnall (1997), De Manuel et al. (1992), De Pauw (1969), De Smet (1995), De Smet (1996b), De Smet (2002), Friedrich & De Smet (2000), Funch & Sørensen (2001), Godske Björklund (1972b), Godske Eriksen (1968), Hamelin (1956), Hollowday (1949), Jansson (1967), Pasquali (1940), Pretus et al. (1992), Rudescu (1961), Saunders-Davies (1995), Saunders-Davies (1998), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Sørensen & Kristensen (1998), Sørensen (2001b)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Proales similis de Beauchamp, 1907	×	×		×		×					×	×				×		×			×			Brain & Koste (1993), De Manuel (1995), De Ridder (1968), De Smet (1996a), De Smet (2006), Godske Björklund (1972b), Hauer (1925), Moscatello & Belmonte (2004), Münch & Petzold (1955/1956), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sørensen (2001a), Wulfert (1942a)
Proales syltensis Tzschaschel, 1978		×		×		×					×													De Smet (1996a), Tzschaschel (1979), Tzschaschel (1980), Tzschaschel (1983)
Proales theodora (Gosse, 1887)		×			×	×				×	×	×							×					De Smet (1995), De Smet (1996b), Otto (1936), Rudescu (1961)
Proales werneckii (Ehrenberg, 1834)	×		×			×																		Althaus (1957a), De Ridder (1968)
Ptygura crystallina (Ehrenberg, 1834)	×				×	×																		Althaus (1957a), De Ridder (1968)
Ptygura melicerta (Ehrenberg, 1832)	×				×	×																		Althaus (1957a), De Ridder (1968)
Ptygura melicerta var. *agassizi* Edmondson, 1948		×		×		×															×			Koste (1978)
Resticula melandocus (Gosse, 1887)	×		×			×																		Althaus (1957a), De Ridder (1968)
Rhinoglena fertoeensis Varga, 1929	×			×		×																		Althaus (1957a), De Ridder (1968), Korotkevich (1964)
Rhinoglena frontalis Ehrenberg, 1853	×		×			×																		De Ridder (1968)
Rotaria citrina (Ehrenberg, 1838)	×	×	×			×																		De Ridder (1968), Donner (1965), Fenchel & Jansson (1966), Hauer (1925), Remane (1929), Schwarz (1955/1956), Schwarz (1962)
Rotaria laticeps Wulfert, 1942		×		×		×												×						Wulfert (1942a)
Rotaria macrura (Schrank, 1803)		×	×			×																		De Ridder (1968), Remane (1929)
Rotaria neptunia (Ehrenberg, 1832)	×		×			×	×																	Althaus (1957a), De Ridder (1968)
Rotaria rotatoria (Pallas, 1766)	×	×	×			×																		Althaus (1957a), De Pauw (1969), De Ridder (1968), Hauer (1925), Münch & Petzold (1955/1956), Pasquali (1940), Pax & Wulfert (1941), Remane (1929), Renaud-Debyser & Salvat (1963), Rudescu (1961)
Rotaria tardigrada (Ehrenberg, 1832)	×	×	×			×																		Althaus (1957a), De Ridder (1968), Rudescu (1961)
Scaridium longicaudum (Müller, 1786)	×		×			×																		Althaus (1957a), De Ridder (1968)
Seison africanus Sørensen, Segers & Funch, 2005		×		×				×								×								Sørensen et al. (2005)
Seison annulatus Claus, 1876		×		×				×			×							×	×					Ahlrichs (1997), d'Hondt (1970), Markevich (1993), Plate (1887), Remane (1929), Ricci et al. (1993), Segers & Melone (1998)
Seison nebaliae Grube, 1861		×		×				×			×							×	×					Ahlrichs (1997), Ahlrichs (1998), d'Hondt (1970), Ferraguti & Melone (1999), Markevich (1993), Plate (1887), Remane (1929), Ricci et al. (1993), Segers & Melone (1998)
Sinantherina socialis (Linné, 1758)		×	×				×																	De Ridder (1981)
Squatinella rostrum (Schmarda, 1846)	×	×	×			×																		Althaus (1957a), Althaus (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1968)

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Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Synchaeta arcifera Xu, 1998		×		×			×								×									Xu (1998)
Synchaeta atlantica Zelinka, 1907		×		×			×				×						×		×					Hada (1939), Remane (1929), Zelinka (1907)
Synchaeta bacillifera Smirnov, 1933		×		×			×			×														Friedrich & De Smet (2000)
Synchaeta baltica Ehrenberg, 1934		×		×			×				×	×						×	×	×	×			Bērziņš (1952), Godske Björklund (1972b), Hamelin (1956), Heinbokel et al. (1988), Johansson (1987), Koski et al. (1999), Koste (1981), Lam-Hoai et al. (1997), Meiners et al. (2002), Pasquali (1940), Pejler (1972), Remane (1929), Rentz (1940), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Rudescu (1961), Russell (1953), Schwarz (1955/1956), Schwarz (1962), Seisuma & Legdzhinya (1988), Silina (1990), Viitasalo et al. (1995)
Synchaeta bicornis Smith, 1904		×		×		×	×				×										×		×	Branco et al. (1998), Koste (1981), Remane (1929), Wibaut-Isebree Moens (1954)
Synchaeta cecilia f. *fusipes* Buchholz, 1954		×		×			×					×												Rudescu (1961)
Synchaeta cecilia Rousselet, 1902		×		×			×			×	×							×	×	×	×		×	Arndt et al. (1990), Bērziņš (1952), d'Hondt (1970), Fenchel & Jansson (1966), Friedrich & De Smet (2000), Godske Björklund (1972b), Godske Eriksen (1968), Hamelin (1956), Heinbokel et al. (1988), Koste (1981), Pasquali (1940), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Rougier et al. (2005), Rudescu (1961), Russell (1953), Sick (1933)
Synchaeta curvata Lie-Pettersen, 1906 sp. inq.		×		×			×				×	×								×				Godske Eriksen (1968), Remane (1929), Rudescu (1961), Russell (1962), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962)
Synchaeta cylindrica Althaus, 1957	×			×			×																	Althaus (1957a), De Ridder (1968)
Synchaeta elsteri Hauer, 1963	×	×		×			×											×						Forés et al. (1986), Hauer (1963)
Synchaeta fennica Rousselet, 1909		×		×			×				×									×				Koste (1981), Pejler (1972), Remane (1929), Russell (1953)
Synchaeta glacialis Smirnov, 1932		×		×			×			×														Friedrich & De Smet (2000)
Synchaeta grimpei Remane, 1929		×		×			×				×							×			×			Koste (1981), Lam-Hoai et al. (1997), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Schwarz (1955/1956), Schwarz (1962)
Synchaeta gyrina Hood, 1887		×		×			×				×	×												Godske Björklund (1972b), Godske Eriksen (1968), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Synchaeta hutchingsi Brownell, 1988		×		×			×															×		Brownell (1988)
Synchaeta hyperborea Smirnov, 1932		×		×			×			×														Friedrich & De Smet (2000)
Synchaeta johanseni Harring, 1921		×		×			×				×						×							Hada (1939), Remane (1929)
Synchaeta kitina Rousselet, 1902		×			×		×											×						De Manuel et al. (1992), Forés et al. (1986), Pretus et al. (1992)
Synchaeta littoralis Rousselet, 1902 sp. inq.	×	×			×		×				×	×	×				×	×	×					Althaus (1957a), Arndt et al. (1990), De Ridder (1968), Forés et al. (1986), Godske Eriksen (1968), Hada (1939), Hamelin (1956), Hollowday (1949), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1959), Schwarz (1962), Silina (1990)

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Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Synchaeta monopus Plate, 1889		×		×			×				×	×								×				Johansson (1987), Koski et al. (1999), Pejler (1972), Remane (1929), Rentz (1940), Rudescu (1961), Russell (1953), Schwarz (1955/1956), Schwarz (1962), Silina (1990), Viitasalo et al. (1995)
Synchaeta neapolitana Rousselet, 1902		×		×			×				×	×					×	×						Bērziņš (1952), Godske Eriksen (1968), Hada (1939), Lam-Hoai et al. (1997), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Rudescu (1961)
Synchaeta oblonga Ehrenberg, 1832		×			×		×				×	×						×						Arndt et al. (1990), De Manuel (1995), De Ridder (1957a), De Ridder (1957b), Forés et al. (1986), Godske Björklund (1972b), Ovander (1985), Pretus et al. (1992), Rudescu (1961)
Synchaeta pectinata Ehrenberg, 1832	×	×			×		×			×	×	×												Althaus (1957a), De Ridder (1968), Pejler (1972), Pouchet (1892), Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Synchaeta pontica Rudescu, 1960 sp. inq.		×		×			×					×												Rudescu (1961)
Synchaeta rousseleti Zelinka, 1927		×		×			×		×															Zelinka (1927)
Synchaeta squamadigitata De Smet, 2006		×		×			×									×								De Smet (2006)
Synchaeta stylata Wierzejski, 1893		×			×		×				×	×												Remane (1929), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Synchaeta tamara Smirnov, 1932		×		×			×			×														Friedrich & De Smet (2000)
Synchaeta tavina Hood, 1893		×			×		×				×	×					×		×		×			d'Hondt (1970), Hada (1939), Koste (1981), Rentz (1940), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Sick (1933)
Synchaeta tremula (Müller, 1786)	X	×			×		×				×		×											Althaus (1957a), De Ridder (1968), Remane (1929), Saunders-Davies (1995)
Synchaeta triophthalma Lauterborn, 1894		×		×			×		×		×	×	×				×	×	×	×	×			Bērziņš (1952), d'Hondt (1970), De Pauw (1969), Hada (1939), Heinbokel et al. (1988), Hollowday (1949), Koste (1981), Lam-Hoai et al. (1997), Morris (1913), Pasquali (1940), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962), Zelinka (1927)
Synchaeta vorax Rousselet, 1902		×		×			×				×	×	×	×			×	×	×				×	Arndt et al. (1990), Bērziņš (1952), d'Hondt (1970), De Ridder (1959), Godske Björklund (1972b), Godske Eriksen (1968), Hada (1939), Hollowday (1949), Lam-Hoai et al. (1997), Pasquali (1940), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2000), Rougier et al. (2005), Rudescu (1961), Saunders-Davies (1995), Schwarz (1955/1956), Schwarz (1962), Sukurov (1987), Sukurov (1988)

(Continued)

Appendix 1. *(Continued)*.

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Testudinella clypeata (Müller, 1786)		×		×		×					×	×	×					×	×					d'Hondt (1970), De Manuel et al. (1992), De Manuel (1995), De Ridder (1957a), De Ridder (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1962), Gillard (1959), Godske Björklund (1972b), Godske Eriksen (1968), Pretus et al. (1992), Remane (1929), Rentz (1940), Rudescu (1961), Saunders-Davies (1995), Schwarz (1955/1956), Schwarz (1962), Sick (1933), Wulfert (1942a)
Testudinella elliptica (Ehrenberg, 1834)		×	×			×		×																Rentz (1940), Schwarz (1955/1956), Schwarz (1962)
Testudinella incisa f. *emarginula* Stenroos, 1898		×			×	×												×						De Ridder (1960), De Ridder (1961)
Testudinella obscura Althaus, 1957		×		×		×				×		×							×		×			d'Hondt (1970), Ghilarov (1967), Rudescu (1961), Turner (1993)
Testudinella patina (Hermann, 1783)	×	×			×	×					×	×				×		×						Althaus (1957a), De Manuel et al. (1992), De Manuel (1995), De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Hauer (1925), Kameswara Rao & Mohan (1984), Ovander (1985), Pretus et al. (1992), Remane (1929), Rentz (1940), Rudescu (1961), Sládeček (1955), Wibaut-Isebree Moens (1954)
Testudinella reflexa (Gosse, 1887)		×			×	×												×						Pasquali (1940)
Testudinella truncata (Gosse, 1886)	×		×			×																		Althaus (1957a)
Trichocerca artmanni (Zelinka, 1927) sp. inq.		×		×			×		×															Zelinka (1927)
Trichocerca brachyura (Gosse, 1851)	×	×	×			×																		Althaus (1957a), De Ridder (1960), De Ridder (1961), De Ridder (1968), Godske Björklund (1972b)
Trichocerca capucina (Wierzejski & Zacharias, 1893)		×			×		×				×	×												Remane (1929), Rudescu (1961), Schwarz (1955/1956), Schwarz (1962)
Trichocerca cavia (Gosse, 1886)	×		×			×																		De Ridder (1968)
Trichocerca curvata (Levander, 1894) sp. inq.		×		×			×				×													Remane (1929)
Trichocerca henseni (Zelinka, 1907) sp. inq.		×		×			×												×					Zelinka (1907)
Trichocerca heterodactyla (Tschugunoff, 1921)		×		×			×																	Koste (1978)
Trichocerca insignis (Herrick, 1885)		×	×				×																	Rougier et al. (2005)
Trichocerca longiseta (Schrank, 1802)		×			×	×	×				×													De Ridder (1968), Godske Björklund (1972b), Remane (1929)

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Appendix 1. *(Continued).*

Species	Inland	Marine	Haloxenous	Strictly haline	Euryhaline	Benthic-periphytic	Plankton	Epibiont-parasite	Antarctica	Arctic	Baltic and North Sea	Black Sea	British Channel	Caspian Sea	China Sea	Indian Ocean	Japanese Sea	Mediterranean	NE Atlantic	New Zealand	NW Atlantic	SE Atlantic	SW Atlantic	Bibliographic references (in alphabetical order)
Trichocerca marina (Daday, 1890)		×		×			×				×	×	×		×		×	×	×	×	×		×	d'Hondt (1970), Godske Eriksen (1968), Hada (1939), Hamelin (1956), Heinbokel et al. (1988), Hollowday (1949), Lam-Hoai et al. (1997), Pasquali (1940), Remane (1929), Rougier & Lam-Hoai (1997), Rougier et al. (2005), Rudescu (1961), Russell (1953), Schwarz (1955/1956), Schwarz (1962), Xu (1998)
Trichocerca marina caspica (Tschugunoff, 1921)		×		×			×							×										Koste (1978)
Trichocerca marina longicauda (Tschugunoff, 1921)		×		×			×							×										Koste (1978)
Trichocerca obtusidens (Olofsson, 1918)		×	×			×																		Godske Björklund (1972b)
Trichocerca pediculus Remane, 1949		×		×		×					×													Remane (1949)
Trichocerca porcellus (Gosse, 1851)	×		×			×																		Althaus (1957a), De Ridder (1968)
Trichocerca pusilla Lauterborn, 1898	×	×			×		×											×						Althaus (1957a), De Ridder (1968), Pretus et al. (1992)
Trichocerca rattus (Müller, 1776)	×	×			×	×					×	×						×						Althaus (1957a), Althaus (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1968), De Ridder (1981), Godske Björklund (1972b), Remane (1929), Rentz (1940), Rudescu (1961)
Trichocerca rousseleti (Voigt, 1902)		×	×			×																		Wibaut-Isebree Moens (1954)
Trichocerca ruttneri (Donner, 1953)	×				×	×																		Koste (1978)
Trichocerca stylata (Gosse, 1851)	×		×				×																	Nógrádi (1957)
Trichocerca taurocephala (Hauer, 1931)	×	×			×	×					×										×			Gessner (1957), Godske Björklund (1972b), Hauer (1957), Turner (1990), Turner (1993), Wiszniewski (1934)
Trichocerca tenuior (Gosse, 1886)	×		×			×																		Althaus (1957a), De Ridder (1968)
Trichotria pocillum (Müller, 1776)	×	×	×			×																		Althaus (1957a), Althaus (1957b), De Ridder (1960), De Ridder (1961), De Ridder (1968), Godske Björklund (1972b), Remane (1929), Schwarz (1955/1956)
Trichotria tetractis (Ehrenberg, 1830)		×	×			×																		De Ridder (1962), Kameswara Rao & Mohan (1984)
Tripleuchlanis plicata (Levander, 1894)	×	×			×	×					×					×		×						De Ridder (1960), De Ridder (1961), De Ridder (1962), De Ridder (1968), Godske Björklund (1972b), Hauer (1925), Kameswara Rao & Mohan (1984), Remane (1929), Schwarz (1955/1956), Schwarz (1962), Segers & Dumont (1993)
Wierzejskiella ambigua (Tzschaschel, 1979)		×		×		×					×													Tzschaschel (1979), Tzschaschel (1980)
Wierzejskiella elongata (Wiszniewski, 1932)		×	×			×																		Tzschaschel (1979)
Wierzejskiella marina Remane, 1949		×		×		×					×													De Smet & Pourriot (1997), Tzschaschel (1979), Tzschaschel (1980)
Wierzejskiella subterranea Remane, 1949		×		×		×					×													De Smet & Pourriot (1997)
Wigrella amphora (Remane, 1929)		×		×		×					×													Remane (1929)
Zelinkiella synaptae (Zelinka, 1888)		×		×				×			×							×	×					d'Hondt (1970), Di Milia (1962), Remane (1929)

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