

Taphrocampa Gosse, 1951*Taphrocampa annulosa* Gosse, 1851

- Palaearctic region: Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Romania (Rudescu, 1960); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhain, Germany (Althaus, 1976); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bog Chambedaze, Massif Central, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Water courses in the Bucegi mts., Romania (Godeanu, 1963b); Small permanent ponds in the Bucegi mts., Rom. (Godeanu, 1969a); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Dübener heide, N Germany (Wulfert, 1960a, 1960b & 1961); Nat. Res. "Het Hol" near Kortenhoeft, NL (Dresscher, 1976); In reed borders of the Danube delta, Romania (Rudescu, 1968); Lao-Shan mountains, China (Wulfert, 1968); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)
- Nearctic region: Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Kingston, Ontario, Canada (Nogrady, 1989); Canada (Chengalath, 1977); Wisconsin, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Laurentian Great Lakes (Stemberger, 1979)
- Oriental region: Singapore (Karunakaran & Johnson, 1978); Malaysia & Singapore (Sudzuki, 1989)
- Australian region: NW Aust.: Magela Creek area (Koste, 1981b); Alligator river area, NT, Aust. (Tait, Shiel & Koste, 1984); Creek & river in Aust. (Bērziņš, 1982); NSW & Qld, Aust. (Shiel & Koste, 1979); NSW, NT, Qld & Vic, Aust. (Koste & Shiel, 1991); West Canterbury, New Zealand (Russell, 1960)
- Neotropical region: Brazil (Koste & José de Paggi, 1982); Varzea near Santarem, Brazil (Koste, 1974b); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Taphrocampa clavigera Stokes, 1896

- Palaearctic region: Romania (Rudescu, 1960); Peat bogs in the Massif Central, France (Batut, 1965); C Eur. mts., Carpathes, C Eur. plains, Baltic province, UK (Bērziņš, 1978); Peat bogs in the Auvergne, France (Francez, 1981); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)
- Nearctic region: N America (Bērziņš, 1978)
- Neotropical region: Brokopondo Lake, Surinam (Leentvaar, 1979); Surinam (Koste & José de Paggi, 1982)

Taphrocampa selenura Gosse, 1887

- Palaearctic region: Garden ponds in Tokyo, Japan (Sudzuki, 1975); Lago Trasimeno, Italy (Taticchi, 1968); River Ybbarpsån, Sweden (Bērziņš, 1979); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); ? District Ostrava, CSR (Dvorakova, 1960b); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); All over Europe (Bērziņš, 1978); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); River Elbe estuary, Germany (Schulz, 1961); Anatolia, Turkey (Segers *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Bog pond near Budapest, Hungary (Nogrady, 1962); Luga district of Leningrad area, R.F. (Kutikova, 1962b); In reed border of the Danube delta, Romania (Rudescu, 1968); Ponds in the Paris suburb, France (Pourriot, 1965)
- Nearctic region: Canada (Chengalath, 1977); Wisconsin, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Mt Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Laurentian Great Lakes (Stemberger, 1979); Mirror Lake, New Hampshire, USA (Strayer, 1985)
- Oriental region: Impoundment Kinda, C Burma (Koste & Tobias, 1990)
- Australian region: Tasmania (Koste & Shiel, 1987); NSW, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, N Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Rare. NSW & NT (Koste & Shiel, 1991); Canterbury, New Zealand (Russell, 1960)
- Neotropical region: Ecuador: Oriente & Costa (Koste & Böttger, 1989); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1992); Chile (Löffler, 1962); Chilean lakes (Schmid-Araya, 1991); Brazil, Argentina & Chile (Koste & José de Paggi, 1982); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. Santa Fé, Argentina

(José de Paggi, 1990); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Taphrocampa spec.

- Palaearctic region: Periphytic biota in sewages & park waters, Jap. (Sudzuki, 1981)
- Nearctic region: Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965); Mirror Lake, New Hampshire, USA (Strayer, 1985)
- Oriental region: Singapore (Sudzuki, 1991)

***Testudinella* Bory de St. Vincent, 1826**

***Testudinella ahlstromi* Hauer, 1956**

- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
- Nearctic region: N Carolina, USA (Koste, 1972f)
- Australian region: S Tasmania (Koste, Shiel & Tan, 1988); Tasmania (Shiel, Koste & Tan, 1989)
- Neotropical region: Amazonia, Brazil (Thomasson, 1971); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil & Venezuela (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Venezuela & Brazil (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Ecuador: Oriente & Costa (Koste & Böttger, 1989); Ecuador: Oriente (Koste & Böttger, 1992); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Province Santa Fé, Argentina (José de Paggi, 1990); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Laguna Cocha Cashu, Amazonia, Brazil (Schaden, 1977c)

***Testudinella amphora* Hauer, 1938**

- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
- Oriental region: Indonesia (Sudzuki, 1989)
- Australian region: Tasmania (Koste & Shiel, 1987); ? Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); NT, Aust. (Koste & Shiel, 1990c); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)
- Neotropical region: Amazonia, Brazil (Thomasson, 1971); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); NW Brazil: Magela Creek area (Koste, 1981b)

***Testudinella angulata* Myers, 1934**

- Nearctic region: Northern Michigan inland lakes (Stemberger, 1990)

***Testudinella bidentata* (Ternetz, 1892)**

- See *T. parva* f. *bidentata* (Ternetz, 1892)

***Testudinella brevicaudata* Yamamoto, 1951**

- Palaearctic region: Japanese inland waters (Yamamoto, 1960a); Japan (Sharma, 1990)
- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989); New for India: Ganhati city, Assam State. (Sharma, 1990); Lake Manguao, Palawan, The Philippines (Davies & Green, 1990)

***Testudinella brycei* Hauer, 1938**

- Palaearctic region: Japanese inland waters (Yamamoto, 1960a); C Eur. plain (Bērziņš, 1978)
- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989)
- Neotropical region: Surinam (Leentvaar, 1975); Brokopondo Lake, Surinam (Leentvaar, 1979); Argentina & Surinam (Koste & José de Paggi, 1982); Province Santa Fé, Argentina (José de Paggi, 1990)

***Testudinella caeca* (Parsons, 1892)**

- Palaearctic region: Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Darnsee near Epe, NW Germany (Koste, 1962); River Hase, NW Germany (Koste, 1976b); W, C & E Eur. plains, Baltic province (Bērziņš, 1978); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Luga district in the Leningrad area, R.F. (Kutikova, 1962b); Serbian section of river Danube (Zivkovic, 1987)

- Nearctic region: Ross Lake, Florida, USA (Bienert, 1986)

- Neotropical region: Argentina (Koste & José de Paggi, 1982)

***Testudinella caeca* (Parsons), f. *haueri* Wiszniewski, 1954**

- Palaearctic region: E Eur. plain (Bērziņš, 1978)

***Testudinella caeca* (Parsons), f. *lermaensis* Ahlstrom, 1932**

- Neotropical region: Province Rio Negro, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

***Testudinella carlini* Bartos, 1951**

- Palaearctic region: Rivers in Soviet Karelia, R.F. (Filimonova, 1976); N, W & C Iceland (De Ridder, 1966a, 1967a, 1969b, 1970, 1972); C Eur. plain, Iceland (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960, 1968 & 1970); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); ? Lakes in the Leczna-Wlodawa area, & "Plaine de la Grande Pologne" (Radwan, 1967)

Testudinella clypeata (O.F. Müller, 1786)

- Palaearctic region: Romania (Rudescu, 1960); Sea & brackish water pools, S Finland (Björklund, 1972a); Brackish water pools in Norway (Eriksen, 1968); Coast of S Finland (Eriksen, 1969); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); All over Europe; Caspian area (Bērziņš, 1978); Rügener, Hiddenseer & Darszer Boddengewässer, Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Gulf of Riga, Baltic Sea, Belt Sea, Kattegat, Skagerak, N & S North Sea, E & W English Channel, Bristol Channel & Irish Sea, S & W Ireland, Norwegian Sea (Bērziņš, 1960); Camargue, S France (De Ridder, 1960a & 1961); Marismas, Spain (De Ridder, 1963b); W Iceland (De Ridder, 1969b, 1970 & 1972); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Oostduinkerke & Oostende, Belgium (De Ridder, 1986); Channel Nieuwpoort-Duinkerke in Oostduinkerke, Belgium (De Maeseener, 1979); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Zuiderzee; r. Tjunmer near Tjun; channel Harlingervaart; near Midlum, NL (Dresscher, 1976); Salt marsh near Puerta da Pollense, Mallorca, Sp. (De Ridder, 1967c); Black Sea (Rudescu, 1961); Ponds in Oltina, Dobrogea, Romania (Popescu-Gorj & Costea, 1961); One brackish & 2 freshwater localities in Poland (Radwan, 1967); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Scandinavian coastal waters (Thane-Fenchel, 1968); Spain: Barcelona & Huelva; Balears: Mallorca (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 8)

Testudinella clypeata (O.F. Müller), f. *crassa* (Levander, 1892)

- Palaearctic region: Gulf of Finland & N North Sea (Bērziņš, 1960); Baltic prov., Boreal highl. & NW Russian taiga (Bērziņš, 1978)

Testudinella discoidea Ahlstrom, 1938

- Palaearctic region: River Loire, France (Lair, 1980); Middle course of river Loire, France (Lair & Sargos, 1981)

Testudinella elliptica (Ehrenberg, 1834)

- Palaearctic region: Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Danube (Enaceanu & Brezeanu, 1970); Boom, Belgium (De Ridder, 1986); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Darnsee near Epe, NW Germany (Koste, 1962); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Almost all over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1970); Rügener, Hiddenseer & Darszer Boddengewässer, Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Japanese inland waters (Yamamoto, 1960a); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Lowland brook-pond system in Boom, Belgium (Maes, 1985); Shores of embanked and free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Prov. Noord-Holland; channel Noordzeekanaal near the Western Docks, A'dam; De Linde; Channel Zuidwillemsvaart between 's Hertogenbosch & Veghel, NL (Dresscher, 1976); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); In reed border of the Danube delta, Romania (Rudescu, 1968); One brackish & several freshw. areas in Poland (Radwan, 1967); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Serbian section of river Danube (Zivkovic, 1987); Spain: Tarragona (Velasco, 1990); Wiszni III Pond, Poland (Lewkowicz, 1972)

- Nearctic region: Canada (Chengalath, 1977); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

- Oriental region: Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989)

Testudinella emarginula (Stenroos, 1898)

- Palaearctic region: L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); N & W Iceland (De Ridder, 1969b, 1970 & 1972); Duszatynskie lakes, Poland (Kowalczyk & Radwan, 1962); Parczew area peat bogs, Poland (Radwan, 1974); Bieszczady, Poland (Radwan, 1967); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Impoundment in Spain (Velasco, 1990); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Romania (Rudescu, 1960); Small lakes in Estonia (Haberman & Mäemets, 1987); River

Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); N Swedish Lapland (Pejler, 1962a); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); All over Europe (Bērziņš, 1978); Camargue, S France (De Ridder, 1960a & 1961); N & W Iceland (De Ridder, 1970 & 1972); Lake Neusiedlersee, Austria (Donner, 1979)

- Nearctic region: Wisconsin, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Jenny Lake, W North America (Thomasson, 1962, 1982a)

- Oriental region: Delhi, India (Sarma, 1988); Danau Teleko, near Palembang, Sumatra (Bērziņš); India: Delhi, Meghalaya State, Assam State & Dharamnayar in N tripura. Also in Orissa & W Bengal (Sharma, 1990); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: Vic, Aust. (Koste & Shiel, 1980c); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: NW Brazil: Magela Creek area (Koste, 1981b); Brazil (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Bazil (Brandorff, Koste & Smirnov, 1982)

Testudinella epicopta Myers, 1934

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

Testudinella gillardi De Ridder, 1966

- Palaeartic region: Pontic province (Bērziņš, 1978); W & SW Iceland (De Ridder, 1966a, 1967a, 1969b & 1972)

Testudinella greeni Koste, 1981

- Oriental region: In tectonic lake (Sone beel) in Cachar Valley of Assam State. (Sharma, 1990); Malaysia & Indonesia (Sudzuki, 1989)

- Australian region: NW Aust.: Magela Creek area (Koste, 1981b); NT, Australia (Shiel & Koste, 1985); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); River Parana, Argentina (José de Paggi, 1985); Parana medio river environments, Argentina (José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Province Santa Fé, Argentina (José de Paggi, 1990)

Testudinella hysseyi Shiel & Koste, 1985

- Australian region: N Queensland, Aust. (Shiel & Koste, 1985); Tasmania (Koste & Shiel, 1986b & 1987)

Testudinella incisa (Ternetz, 1892)

- Palaeartic region: 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); Lakes in the Leczna-Wlodawa area & Silesia, Pol. (Radwan, 1967); Parczew area peat bogs, Poland (Radwan, 1974); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Fens in Genk, Belgium (Schepens, 1960); Pod padurka pond & Bajinice II pond, Poland (Lewkowicz, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Anatolia, Turkey (Segers *et al.*, 1992); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Fresh & brackish waters in the Netherlands (Dresscher, 1976); Romania (Rudescu, 1960); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); All over Europe; Caspian area (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); N Iceland (De Ridder, 1972); Karelian inland waters (Kutikova, 1965)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Wisconsin, USA (Bērziņš, 1984); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: India (Sharma & Michael, 1980); Sri Lanka (Fernando, 1980a); Sri Lanka & India (Sudzuki, 1989); Sri Lanka: Gem Pit Ratnapura (Chengalath, Fernando & Koste, 1974)

- Australian region: L. Euramo, tropical Queensland crater lake, Aust. (Green, 1981); Qld, Aust. (Shiel & Koste, 1979); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); S Tasmania & Qld, Aust. (Koste, Shiel & Tan, 1988); Notornis Valley, New Zealand (Russell, 1960)

- Neotropical region: Panama (Koste & José de Paggi, 1982; Collado *et al.*, 1984); Near Panguana, Peru (Koste, 1988b); Pond in tropical rain forest, Peru (Schlüter, 1984)

Testudinella mucronata mucronata (Gosse, 1886)

- Palaeartic region: Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); River Sambre in Landrecies, France (Waeyaert, 1972); Ponds in the Paris suburb, France (Pourriot, 1965); Serbian section of river Danube (Zivkovic, 1987); Spain: Madrid & Valencia (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Romania (Rudescu, 1960); River Klyas'ma, R.F. (Bogoslowski, 1961); Heiluntsian province, China (Bogoslowski, 1962); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968; Zankai & Ponyi, 1971a); River Loire, France (Lair, 1980); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); N Swedish Lapland

(Pejler, 1962a); Darnsee near Epe, NW Germany (Koste, 1962); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Saratov reservoir, R.F. (Popchenko *et al.*, 1981); All over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Reservoir Sedlice, near Zeliv, Bohemia, CSR (Sladeczkova, 1960); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1988b); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Eeklo, Belgium (De Maeseneer, 1979; De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Anatolia, Turkey (Segers *et al.*, 1992); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Ponds in Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Lakes in the Leczna-Wlodawa area & in several other parts of Poland (Radwan, 1967); River Rijn, Waal & Yssel; Pond in Enschede; Mastenbroeker kolk; Petgaten in NW Overijssel; De Linde, Friesland; River Maas; Kil van Hurwenen, NL (Dresscher, 1976)

- Nearctic region: Arctic N America (Chengalath & Koste, 1989)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

- Australian region: Swamp near Lake Hayes, S Island, New Zealand (Bērziņš, 1982a); Chatham Islands, New Zealand (Russell, 1960)

- Neotropical region: Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Surinam (Leentvaar, 1975); Ecuador: Oriente (Koste & Böttger, 1989 & 1992); Argentina (Modenutti & Claps, 1988); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Amazonia, Brazil (Hauer, 1965; Thomasson, 1971; Koste, 1972f); Paraguay, Brazil, Argentina & Surinam (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Corriente, Argentina (José de Paggi, 1990)

Testudinella mucronata tasmaniensis Koste & Shiel, 1986

- Australian region: Stock dam Triabunna, Tasmania (Koste & Shiel, 1986b); Tasmania (Shiel, Koste & Tan, 1989)

Testudinella mucronata (Gosse), f. *hauerensis* Gillard, 1967

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil (Gillard, 1967; Thomasson, 1971; Koste, 1972f); Brazil & Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Ecuador: Oriente & Costa (Koste & Böttger, 1989); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b); Prov. Chaco & Santa Fé, Argentina (José de Paggi, 1990); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Lago Jurucui, Amazonia, Brazil (Schaden, 1977c); L. Redondo & L. Jacaretinga, Amazonia, Brazil (Serruya & Pollingher, 1984); Ecuador: Costa (Koste & Böttger, 1992)

Testudinella munda Bērziņš, 1982

- Australian region: Creek in Australia (Bērziņš, 1982); Creek in Vic, Aust. (Shiel & Koste, 1985)

Testudinella naumanni Carlin, 1939

- Palaeartic region: N Swedish Lapland (Pejler, 1962a); C Eur. plain (Bērziņš, 1978)

- Nearctic region: NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989)

Testudinella neboisi Bērziņš, 1982

- Australian region: Creek in Australia (Bērziņš, 1982); Creek in Vic, Aust. "Must be considered a doubtful species" (Shiel & Koste, 1985)

Testudinella obscura Althaus, 1957

- Palaeartic region: East Balkan (Bērziņš, 1978); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Shores of the White Sea & the Barents Sea, R.F. (Ghilarov, 1967); Black Sea (Rudescu, 1961); Spain: Tarragona (Velasco, 1990)

Testudinella ohlei Koste, 1972

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Amazonia, Brazil; Varzea near Santarem; Lago Paroni on the lower Rio Tapajos; in acid waters near Rio Nhamunda, N of Paratins, on the Amazonas (Koste, 1978b); Brazil (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Ecuador: Oriente (Koste & Böttger, 1992)

Testudinella ohlei Koste, f. *pustulata* Koste, 1978

- Neotropical region: In acid waters near Rio Nhamunda, Amaz., Braz. (Koste, 1978b); Brazil (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982)

Testudinella panonica Zivkovic, 1987

- Palaearctic region: Serbian section of river Danube (Zivkovic, 1987)

Testudinella parva (Ternetz, 1892)

- Palaearctic region: L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Dübener Heide, N Germany (Wulfert, 1961); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); Parczew area peat bogs, Poland (Radwan, 1974); Lakes in the Leczna-Wlodawa area & other regions in Poland (Radwan, 1967); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Fens in Genk, Belgium (Schepens, 1960); Serbian section of river Danube (Zivkovic, 1987); Spain: Pontevedra (Velasco, 1990); Pond Chalinski Maly II & Lipowy pond, Poland (Lewkowicz, 1972); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Romania (Rudescu, 1960); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989c, 1989d); N Swedish Lapland (Pejler, 1962a); Darnsee near Epe, NW Germany (Koste, 1962); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Balaton, Hungary (Zankai & Kertesz, 1967); Lake Donk, Overmere, Belgium (Dumont, 1968b); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Eeklo, Belgium (De Maeseneer, 1979; De Ridder, 1986); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Great Dismal Swamp, N Carolina-Virginia border, USA (Anderson, Benfield & Buikema, 1977); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: Sri Lanka (Fernando, 1980a); Malaysia, Sri Lanka & Indonesia (Sudzuki, 1989); New record for India: in paddy-fields in Jaintia bills district, Meghalaya State; paddy-fields in Kokrajhar & Nalbari districts, Assam State (Sharma, 1990); Kalimantan (Borneo), Indonesia (Koste, 1988a); Sri Lanka. Rare; found in ponds (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); 2 Kumaun Himalaya lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NW Aust.: Magela Creek area (Koste, 1981b); Beaufort Dam, Aust. (Bērziņš, 1982); Qld, Aust. (as *T. insinuata* Hauer, 1938) (Shiel & Koste, 1979); NT, Aust. (Koste & Shiel, 1980c)

- Neotropical region: Venezuela & Brazil (Koste & José de Paggi, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b)

Testudinella parva (Ternetz), f. *bidentata* (Ternetz, 1892)

- Palaearctic region: Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Romania (Rudescu, 1960); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Darnsee near Epe, NW Germany (Koste, 1962); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Alps, C Eur. mts., Carpathes, Pontic province, W, C & E Eur. plains, UK, Ireland, Boreal highland, NW Russian taiga (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Eeklo & Lacuisine, Belgium (De Maeseneer, 1979; De Ridder, 1986); Knowsley Park, Liverpool, UK (Galliford, 1964); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Parczew area peat bogs, Poland (Radwan, 1974); Lakes in the Leczna-Wlodawa area & in several other regions in Poland (Radwan, 1967); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Fens in Genk, Belgium (Schepens, 1960); Serbian section of river Danube (Zivkovic, 1987); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

- Oriental region: New to India; in East Khasi & Jaintia Hills districts of Meghalaya State (Sharma, 1990)

Testudinella parva (Ternetz), f. *semiparva* Hauer, 1938

- Palaearctic region: 2 regions in Poland (Radwan, 1967); Serbian section of river Danube (Zivkovic, 1987); C Eur. plain (Bērziņš, 1978)

- Nearctic region: Canada (Chengalath, 1977)

- Oriental region: Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Indonesia (Sudzuki, 1989); New to India: in pond in Lakhimpur, Assam State. Up to now only recorded from Java and Poland (Sharma,

1990)

- Australian region: Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985)

- Neotropical region: Amazonia, Brazil (Thomasson, 1971; Koste, 1972f); Brazil (Koste & José de Paggi, 1982); ? Crescent Lake, Rio Sniú Missu, Mato Grosso, C Brazil (Green, 1972); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b)

Testudinella patina (Hermann, 1783)

- Palaearctic region: Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Po river, Italy (Ferrari *et al.*, 1989); Volga river & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Peridunar pond Dulce, Doñana Nat. Park, Spain (Lopez *et al.*, 1991); Fishfattening ponds in the Ukraina (Krazhan *et al.*, 1976); Vilnius, Lithuania (Rachynnas, 1971); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, caspian area, Asia Minor (Bērziņš, 1978); "Grote vijver" fort 8, Hoboken (Antwerp, Belg.) (De Smet *et al.*, 1986); "Kleine vijver" fort 8, Hoboken (Antwerp, Belg.) (De Smet *et al.*, 1989); Moat of fort Merksem (Antwerp, Belgium) (De Smet *et al.*, 1987); Soviet section of river Danube, R.F. (Parchuk, 1985); Saratov reservoir, R.F. (Popchenko *et al.*, 1981); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Delta of river Danube, Romania (Prunescu-Arion, 1989; Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lac Léman, Fr./CH (Martin, 1961; Balvay & Laurent, 1981 & 1989; Balvay *et al.*, 1991); Lac d' Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); River Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Freshwater pools in S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); River Loire, France (Lair *et al.*, 1978; Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia, ex-Yugoslavia (Erben, 1987); District Ostrava, CSR (Dvorakova, 1960b); Knowsley Park, Liverpool, UK (Galliford, 1964); Boatracing canal Gent, Belgium (De Maeseneer, 1972; Vanderbeken, 1977; Coussement, 1982); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); Pond in Botanical Garden, Gent, Belgium (Verheye, 1980); Karagöl, near Izmir, Turkey (Ustaoglu, 1986); Akgöl (Selçuk-Izmir), Turkey (Ustaoglu & Balik, 1987); Lake Marmara, Turkey (Ustaoglu, in press); Camargue, S France (De Ridder, 1960a & 1961); Marismas, S Spain (De Ridder, 1962b); N & W Iceland (De Ridder, 1969b, 1970 & 1972); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Leczna-Włodawa lake district, E Poland (Radwan, 1984); Backwater Labicko, Middle Elbe, CSR (Straskraba, 1965); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Inundation area of Danube delta, Romania (Dorobantu, 1964); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1968, 1970 & 1973); Reservoir Sedlice, near Zeliv, Bohemia, CSR (Sladeczkova, 1960); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Mountain Fuji, Japan (Sudzuki, 1971); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); All over Belgium (De Ridder, 1986); Lake Neusiedlersee, Austria (Donner, 1979); Clay pits in Stuivekenskerke, Belgium (Espeel, 1979); Eeklo, Belgium (De Maeseneer, 1979); Lake Constance, Germany (Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Canal Leeds-Liverpool, UK (Galliford, 1960b); Dozmary pool, Bodmin Moor, Cornwall, UK (Galliford, 1967); District Ardennen, Belgium (Gijssels *et al.*, 1976); Lakes N of Bucarest, Romania (Godeanu, 1969b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Nat. Res. Wellemeersen, Belgium (Dumont *et al.*, 1975); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Near water works at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); River Bistritza & its tributaries, Romania (Miron, 1960); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Bakkerskooi, Wanneperveen, NW Overijssel, NL (Leentvaar, 1967b); Shores of embanked or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1976); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Brielse Maas & dune lakes on Voorne; all over the Netherlands (Dresscher, 1976); Impoundment Helme, near Kelbra, Kyffhäuser, Germany (Heynig, 1974); Etang de Soustons, SW France (De Ridder, 1967b); Bog pond near Budapest, Hungary (Nogrady, 1962); Black Sea (Rudescu, 1961); Ellesmere District, UK (Galliford, 1960a); Central Finland (Eloranta, 1981b); Lake Bolsena, C Italy (Ferrari, 1972); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Near Asperg, Württemberg, Germany (Klement, 1960); "Altes Land" near

Hamburg, Germany (Caspers & Heckman, 1981 & 1982); Hamburg area, Germany (Heckman, 1982); Lake Bielersee, CH (Berner-Fankhauser, 1986); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Afghanistan (Bērziņš, 1961); Monsa, Shetlands (De Smet *et al.*, 1988); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Alkal. Péteri-See, Hungary (Kertesz, 1960); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Muy on Texel, NL (Leentvaar, 1967); L. Quackjeswater & L. Breedewater on Voorne; Lake Vogelmeer, Ymuiden, NL (Leentvaar, 1963); Broads & peat pits in NW Overijssel, NL (Schroevers, 1965); Karstic lake Percile, Latium, Italy (Margaritora, 1981); N Swedish Lapland (Pejler, 1962a); Baisse salée, Camargue, S France (Aguesse, 1960); Lago di Giulianello, Latium, Italy (Ferrara & Margaritora, 1977; Bazzanti & Stella, 1977); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogoslowski, 1961); Heiluntsian province, China (Bogoslowski, 1962); River Ybbarpsån, Sweden (Bērziņš, 1979); All over Europe (Bērziņš, 1978); Lake Monterosi, Latium, Italy (Stella & Margaritora, 1966); Karatas Lake, Turkey (Emir, 1991); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1992); Mickletown Lagoons, lower Aire valley, UK (Ruttner-Kolisko, 1979); Ponds in the Paris suburb, France (Pourriot, 1965); Ponds in the Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Lakes around mountain Fuji, Japan (Sudzuki, 1971); Mountain Fuji area, Japan (Sudzuki, 1978a); Periphytic biota in sewages & park waters, Jap. (Sudzuki, 1981); Pool, S of Trondheim, Norway (Thomasson, 1979); Scandinavian coastal waters (Thane-Fenchel, 1968); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); All over Spain. Balears: Ibiza, Menorca, Mallorca (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Impoundment Twistetalsperre, Nordhessen, G. (Meinel *et al.*, 1983); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); 4 lakes in the Puy-de-Dôme, France (Persoone *et al.*, 1968); Luga district in the Leningrad area, R.F. (Kutikova, 1962b); In reed borders of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Ponds in Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); River Loire, in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Lakes in the Leczna-Wlodawa area & in many other regions in Poland (Radwan, 1967); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Lake Jorzec, Mazurian lakeland, Poland (Radwan *et al.*, 1985); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Gregg's Lake, Fentrus L., Highland L., Little Swede n° 1 L., Parvin L. & Hayden's L., Colorado, USA (Pennak, 1966); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Ross Lake, Florida (Bienert, 1986); Illinois river, USA (Brown *et al.*, 1989); Lake O'Woods, West Virginia, USA (Havens & Da Costa, 1987); Colorado, USA (Turner, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Northern Michigan inland lakes (Stemberger, 1990); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Lakes in Santee, California, USA (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Greens Lake, Beaver Island, Michigan, USA (Foran & King, 1982); Near Monroe, Louisiana, USA (Gallagher, 1966); Crater Lake & Walker L., Arizona, USA (Green, 1986); Experimental ponds near Bakersfield, Kern County, California, USA

- Oriental region: 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Taiwan (Sudzuki, 1988); India (Sharma & Michael, 1980); Kashmir, Gujarat, Rajasthan, Andhra Pradesh, W Bengal, Orissa, Assam & Meghalaya + different states of NE India (Sharma, 1990); Kalimantan (Borneo), Indonesia (Koste, 1988a); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Chengalath, Fernando & Koste, 1973; Fernando, 1980a); Singapore & Malaysia (Karunakaran & Johnson, 1978); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Maini Lake, Stocking tank & Nursery tank, Delhi, India (George, 1966); Fishponds at Barrackpore, W Bengal State, India (Michael, 1968); Punjab State, India (Sharma & Sharma, 1984); Impoundment Kinda, C Burma (Koste & Tobias, 1990, 1982); 2 Kumaun Himalaya lakes, UP, India (Sharma & Pant, 1984 & 1985); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Ricefields in NE Thailand (Heckman, 1979); West Bengal, NE India (Sharma, 1979b); Orissa, E India (Sharma, 1980b); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969); South India (Naidu, 1967); Punjab State, NW India (Sharma, 1976); Storage reservoir Ajwa, Prata-pura reservoir & Nimeta water works, near Baroda, India (Wulfert, 1966); Lake Khan Payao (Serruya & Pollinger, 1984)

- Australian region: In many localities in Australia (Bērziņš); SW Aust. (Koste, Shiel & Brock, 1983); Lake

Purrumbete, freshwater Aust. crater lake (Green, 1981); NW Aust.: Magela Creek area (Koste, 1981b); Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Billabongs in the river Murray floodplain, NSW, Aust. (Hillman & Shiel, 1991); NSW, Qld & Vic, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); Saddle Hill pond, New Zealand (Bryas, 1960); Waiholo & Canterbury, New Zealand (Russell, 1960)

- Neotropical region: Antilles françaises (Pourriot, 1975); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Laguna Cocha Cashu, Amazonia, Brazil (Schaden, 1977c); Ecuador: Oriente & Costa (Koste & Böttger, 1989 & 1992); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Chilean lakes (Schmid-Araya, 1991); River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978a & 1985); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Gillard, 1967; Thomasson, 1971; Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Argentina, Venezuela, Colombia, Brazil, Chile, Paraguay, Antilles, Peru, Surinam, Panama (Koste & José de Paggi, 1982); Rio Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b); Galapagos Islands (De Smet, 1987 & 1989); Island Maraca, Roraima, Brazil (Koste & Robertson, 1990); Surinam (Leentvaar, 1975); Argentine Patagonia (Kuczynski, 1987b); Amazonia, Brazil (Hauer, 1965b); Lake Escondido, Rio Negro prov., Argentina (Baleiro & Modenutti, 1990); Prov. Chubut & Rio Negro, Argentina (José de Paggi, 1990); Caribbean part of the Neotropical region (De Ridder, 1977); Aruba, Bonaire, Curaçao, Bahamas, Caribbean Islands, Cuba & Haiti (Collado *et al.*, 1984); Lago do Valencia, Venezuela (De Infante, 1980); Brokopondo Lake, Surinam (Leentvaar, 1979); Santa Cruz & Tierra del Fuego, Argentina (Olivier, 1965)

Testudinella patina (Hermann), f. *aspis* Carlin, 1939

- Palaearctic region: C Eur. mountains & plains, Baltic province (Bērziņš, 1978); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973)

Testudinella patina (Hermann), f. *dendradena* de Beauchamp, 1955

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989a); Taiwan, Malaysia, Singapore, Indonesia, Sri Lanka, Philippines & India (Sudzuki, 1989b)

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil. First record (Koste & Robertson, 1983); for the Amazon region (Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Testudinella patina (Hermann), f. *intermedia* (Anderson, 1889)

- Palaearctic region: Lowland brook-pond system in Boom, Belgium (Maes, 1985); Heiluntsian province, China (Bogoslowski, 1962); C Eur. mts., Hungarian plain, C & E Eur. plains, Baltic province, UK, Caucasus, Caspic area (Bērziņš, 1978); Alkal. Péteri-See, Hungary (Kertesz, 1960); Impoundment Kninicki, CSR (Kubicek, 1964); River Svratka & new impoundments in the CSR (Kubicek, 1968); Lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Parczew area peat bogs, Poland (Radwan, 1974); Lakes in the Leczna-Wlodawa area & "Plaine de la Grande Pologne", Poland (Radwan, 1967); Serbian section of river Danube (Zivkovic, 1987); Spain: Madrid (Velasco, 1990); Southwest islands of Japan (Sudzuki *et al.*, 1992); Boom, Belgium (De Ridder, 1986); Side-arm of river Danube near Bratislava, CSR (Lichardova, 1964)

- Nearctic region: Kingston, Ontario, Canada (Nogrady, 1989)

- Oriental region: Calcutta (Anderson, 1889). Paddy-field in Tihu (Sharma, 1990); (Malbari district, Assam State, India)

- Australian region: Lake Barracoota, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1979 & 1985)

- Neotropical region: Near Panguana, Peru (Koste, 1988b)

Testudinella patina (Hermann), f. *lindbergi* Bērziņš, 1961

- Palaearctic region: Afghanistan (Bērziņš, 1961)

Testudinella patina (Hermann), f. *trilobata* (Anderson & Shephard, 1892)

- Palaearctic region: Lakes in the Leczna-Wlodawa area & Haute Silésie, Poland (Radwan, 1967); Lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); Serbian section of river Danube (Zivkovic, 1987); Spain: Madrid (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Heiluntsian province, China (Bogoslowski, 1962); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); District

Ostrava, CSR (Dvorakova, 1960b); Alkal. Péteri-See, Hungary (Kertesz, 1960); Lake Balaton, Hungary (Zankai & Kertesz, 1967); Darnsee near Epe, NW Germany (Koste, 1962); C Eur. mts., Carpathes, Hungarian plain, C & E Eur. plains, Caspian area (Bērziņš, 1978); Obretin lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Southwest islands of Japan (Sudzuki *et al.*, 1992); Romania (Godeanu, 1961); Lakes, N of Bucarest, Romania (Godeanu, 1969b)

- Nearctic region: Kentucky, USA (Bērziņš, 1984); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989); Singapore & Taiwan (Sudzuki, 1991)

- Australian region: Vic, Aust. (Shiel & Koste, 1979)

- Neotropical region: Surinam (partim *sub nomine T. lobosa*) (Leentvaar, 1975); Brokopondo Lake, Surinam (Leentvaar, 1979); Amazonia, Brazil (Koste, 1972f); Brazil, Argentina, Surinam, Panama (Koste & José de Paggi, 1982); Orinoco river basin, Venezuela (Vasquez, 1984a); Chilean lakes (Schmid-Araya, 1991); Prov. Santa Fé, Argentina (José de Paggi, 1990); Panama (Collado *et al.*, 1984); Laguna Costa Cashu, Amazonia, Brazil (Schaden, 1977c)

Testudinella pseudoclypeata Bērziņš, 1943

- Palaeartic region: W Eur. plain & Baltic province (Bērziņš, 1978)

Testudinella reflexa (Gosse, 1887)

- Palaeartic region: Peats in the Caucasus (Tarnogradsky, 1961); Nat. Res. "Leiemeersen", Assebroek, Belgium (De Ridder, 1992); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Dübener Heide, N Germany (Wulfert, 1961); Romania (Rudescu, 1960); Prov. Zuid-Limburg, NL (Dresscher, 1976); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Near Asperg, Württemberg, Germany (Klement, 1960); N Swedish Lapland (Pejler, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Alps, C Eur. mts., Carpathes, Hungarian plain, C & E Eur. plains, Baltic prov., Fennoscandia, Caspian area. Cosmopolitan (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Several regions in Poland (Radwan, 1967)

- Nearctic region: Canada (Chengalath, 1967); Laurentian Great Lakes (Stemberger, 1979)

- Australian region: Creek in Aust. (Bērziņš); NSW & Qld, Aust. (Shiel & Koste, 1979); Mt. Cook, New Zealand (Russell, 1960)

- Neotropical region: Parana medio river environments, Argentina (José de Paggi, 1982); Brokopondo Lake, Surinam (Leentvaar, 1979); Surinam & Argentina (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Province Santa Fé, Argentina (José de Paggi, 1990)

Testudinella robertsoni Koste & Robertson, 1990

- Neotropical region: Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990)

Testudinella sculpturata Bartos, 1951

- Palaeartic region: C Eur. mountains (Bērziņš, 1978); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992)

Testudinella sphagnicola Rudescu, 1960

- Palaeartic region: In peat bogs of S Bukowina, Romania (Rodewald-Rudescu & Godeanu, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Carpathes (Bērziņš, 1978)

Testudinella striata (Murray, 1913)

- Australian region: Müller Glacier, New Zealand (Russell, 1960)

Testudinella triangularis Myers, 1934

- Nearctic region: Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

Testudinella tridentata Smirnov, 1931

- Palaeartic region: Heiluntian province, China (Bogoslowski, 1962); Amur region, Ussuri & China (Koste, 1981b)

- Nearctic region: Mt. Temblant Prov. park, Québec, Canada (Nogrady, 1980)

- Oriental region: New record for India: in 2 ponds in Somithur district of Assam State and in a paddy-field in Kailashaker (N Trip.) (Sharma, 1990); Kalimantan (Borneo), Indonesia (Koste, 1988a)

- Australian region: Jubiluka billabong, NT, Aust. (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983; Tait, Shiel & Koste, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); E Aust. (Koste & Shiel, 1980b); Vic, Aust. (Koste & Shiel, 1980c)

- Neotropical region: Brazil, Argentina & Surinam (Koste & José de Paggi, 1982); Surinam (Leentvaar, 1975); River Parana, Argentina (José de Paggi, 1985 & 1987b); Ecuador: Oriente (Koste & Böttger, 1989 & 1992); Lago Paroni, Brazil (Koste, 1974a); Province Santa Fé, Argentina (José de Paggi, 1990)

Testudinella tridentata Smirnov, f. *amazonica* Thomasson, 1971

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Varzea near Santarem, Brazil (Koste, 1974b); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil (Thomasson, 1971; Koste, 1981b); Lago Paroni, Amazonia, Brazil (Koste, 1974a); Brazil & Venezuela (Koste & José de Paggi, 1982); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Testudinella tridentata Smirnov, f. *braziliensis* Koste, 1972

- Australian region: NW Aust.: Magela Creek area (Koste, 1981b)
- Neotropical region: Amazonia, Brazil; Brazil; also R.F., USA & Africa (Koste, 1972f)

Testudinella tridentata Smirnov, f. *curvata* Wulfert, 1965

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981)

Testudinella tridentata Smirnov, f. *dicella* Myers, 1934

- Nearctic region: Canada (Chengalath, 1977); Wisconsin & New Jersey, N America (Koste, 1981b); Ross Lake, Florida, USA (Bienert, 1986)

Testudinella tridentata Smirnov, f. *insulana* Bērziņš, 1982

- Oriental region: Danau Teleko, near Palembang, Sumatra (Bērziņš, 1982a)

Testudinella trilobata haterunensis Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

Testudinella trilobata triangularis Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

Testudinella trilobata amphora Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

Testudinella truncata (Gosse, 1886)

- Palaeartic region: River Grabia basin, Poland (Pawlowski, 1960, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Shores of embanked or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Domein De Linde, Friesland, NL (Dresscher, 1976); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lakes in the Leczna-Wlodawa area & several other regions in Poland (Radwan, 1967); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Romania (Rudescu, 1960); Lake Stechlinsee, Brandenburg, Romania (Althaus, 1963; Ronneberger & Schönborn, 1985); Coast of S Finland (Eriksen, 1969); Pools of the Upper Elbe, CSR (Dvorakova, 1961); District Ostrava, CSR (Dvorakova, 1960b); Lake Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Nat. Res. Neeruti lakes, NE Estonia (Mäemets A. & A., *s.d.*); Darnsee near Epe, NW Germany (Koste, 1962); River Hase, NW Germany (Koste, 1976b); C Eur. mountains, Carpathes, Pontic prov., C & E Eur. plains, Baltic province, Ireland, UK, NW Russian taiga, Caspian area (Bērziņš, 1978)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

Testudinella truncata (Gosse), f. *ecornis* Wiszniewski, 1953

- Palaeartic region: C Eur. mountains & plains (Bērziņš, 1978); Pelagic zone of the Leczna-Wlodawa lakes, Pol. (Radwan, 1975); Serbian section of river Danube (Zivkovic, 1987)

Testudinella truncata (Gosse), f. *usmaensis* Bērziņš, 1943

- Palaeartic region: Baltic province (Bērziņš, 1978)

Testudinella unicornuta Koste & Shiel, 1987

- Australian region: Tasmania (Koste & Shiel, 1986b & 1987; Shiel, Koste & Tan, 1989)

Testudinella vidzemensis Bērziņš, 1943

- Palaeartic region: River Ybbarpsån, Sweden (Bērziņš, 1979); C & S Sweden (Bērziņš & Pejler, 1987, 1989a & 1989d); C Eur. plain & Baltic province (Bērziņš, 1978)

- Australian region: Creek in Australia (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985)

Testudinella walkeri Koste & Shiel, 1980

- Australian region: NT, Australia (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

Testudinella spec.

- Palaeartic region: Lake Oerd, Ameland, NL (Leentvaar, 1967); Norfolk Broads, UK (Irvine *et al.*, 1990); Delta of river Danube (Prunescu-Arion, 1989); Lake Balaton, Hungary (Zankai, 1968); Lowland brook-pond system in Boom, Belgium (Maes, 1985); Bakkerskooi, NW Overijssel; Loenerveense plas Wijde Blik; Petgaten in NW Overijssel; Lake Het Oerd, Ameland; Lake Veerse Meer, NL (Dresscher, 1976); Etang de

- Soustons, SW France (De Ridder, 1967b); Lac Bourdouze, Puy-de-Dôme, France (Persoone *et al.*, 1968); Bulgarian bank of river Danube (Naidenow, 1963)
- Nearctic region: Northern Michigan inland lakes (Stemberger, 1990); NW Colorado, USA (Cauton & Ward, 1981); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Mirror Lake, New Hampshire, USA (Strayer, 1985)
 - Oriental region: Malaysia & Singapore (Sudzuki, 1989); Thailand (Boonsom, 1984b); Rothanara tank, Indranagar tank, Stocking tank & Nursery tank, Delhi, India (George, 1966); River Yamuna, India (Rai, 1974)
 - Australian region: Lake Catani, Mt. Buffalo, Australia (Bērziņš, 1982)
 - Neotropical region: S Brazil (Arcifa, 1984); Crescent Lake, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Near Panguana, Peru (Koste, 1988a); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992)

Tetrasiphon Ehrenberg, 1840

Tetrasiphon hydrocora Ehrenberg, 1840

- Palaearctic region: Coast of S Finland (Eriksen, 1969); Germany, France, UK, Sweden (Koste, 1968d); In peat bogs in the "Massif Central", France (Batut, 1965); Small water bodies in Soviet Karelia, R.F. (Filimonova, 1976); C Eur. mts., W & C Eur. plains, UK, NW Russian taiga (Bērziņš, 1978); Lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Pond near Besse-en-Chandesse, France (Omalý & Dévaux, 1971); Peat bogs in the Paris suburb, France (Pourriot, 1965)
- Nearctic region: USA (Koste, 1968d); N America (Bērziņš, 1978); Crater Lake, Arizona, USA (Green, 1986); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Wisconsin & Kentucky, USA (Bērziņš, 1984); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Mirror Lake, New Hampshire, USA (Strayer, 1985)
- Oriental region: Sri Lanka (Fernando, 1980a); Malaysia & Sri Lanka (Sudzuki, 1989); Sri Lanka: Gem pit, Ratnapura (Chengalath, Fernando & Koste, 1974)
- Australian region: Tasmania (Koste & Shiel, 1987); NSW, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Billabongs of upper Murray tributaries, NSW; Vic; dune lakes in Tasmania NSW Koste & Shiel, 1991)
- Neotropical region: Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Ecuador: Oriente & Sierra (Koste & Böttger, 1992)

Tetrasiphon spec.

- Nearctic region: The Sacramento-San Joaquin delta estuary, USA (Siegfried & Kopache, 1980)
- Oriental region: Ponds in Chinglepat, Madras, India

Trichocerca Lamarck, 1801

Trichocerca agnatha Wulfert, 1939

- Palaearctic region: C Eur. plain (Bērziņš, 1978); Southwest islands of Japan (Sudzuki *et al.*, 1992); Sinaia, S Carpathes, Romania (Rodewald-Rudescu & Godeanu, 1961); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Impoundment Twistetalsperre, Nordhessen, G. (Meinel *et al.*, 1983)
- Australian region: Vic, Aust. (Koste & Shiel, 1980c); Single record from the river Murray at Echuca, Vic. (Koste & Shiel, 1992)

Trichocerca arctica Voigt, 1957

- Palaearctic region: Pools with fresh and brackish water, S Finland (Björklund, 1972a); NW Russian tundra (Bērziņš, 1978)

Note : See also *Trichocerca minuta* (Olofsson)

Trichocerca barsica (Varga & Dudich, 1939)

- Palaearctic region: C Eur. mountains & Hungarian plain (Bērziņš, 1978)

Trichocerca bicristata (Gosse, 1887)

- Palaearctic region: Romania (Rudescu, 1960); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Afghanistan (Bērziņš, 1961); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); Delta of river Danube (Godeanu & Zinevici, 1983); Sierra Nevada, Spain (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Muy (Texel) & Lake Oerd (Ameland), NL (Leentvaar, 1967); Lac Léman, Fr./CH (Balvay & Laurent, 1990); (Balvay *et al.*, 1985); Fish-fattening ponds in the Ukraina (Krazhan *et al.*, 1976); All over Europe (Bērziņš, 1978); Fish ponds near Warsaw,

Poland (Hillbricht-Ilkowska, 1964); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Japanese inland waters (Yamamoto, 1960a); Kalken, Belgium (De Ridder, 1986); River Grabia basin, Poland (Pawlowski, 1960, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); High mt. lakes & ponds of Sierra Nevada, Spain (Morales-Baquero *et al.*, 1988); Temporary waters in the Bucegi mts., Romania (Godeanu *et al.*, 1960); Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Prov. of Drente; Lake Muy on Texel; Lake Oerd on Ameland, NL (Dresscher, 1976); Luga district of Leningrad area, R.F. (Kutikova, 1962b); Karelian inland waters, R.F. (Kutikova, 1965); Ponds with dense vegetation in Fontainebleau, Ile-de-France, France (Pourriot, 1970); Pool in Fontainebleau Forest, Ile-de-France, Fr. (Pourriot, 1976); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Parczew area peat bog, Poland (Radwan, 1974); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Fens in Genk, Belgium (Schepens, 1960); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Spain : Gerona & Granada (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: Pinehurst lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Stoneman Lake, Arizona, USA (Green, 1986); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); 3 lakes in N Carolina, USA (Lemly & Dimmick, 1982); Wisconsin & Illinois, USA (Bērziņš, 1984); Ross Lake, Florida, USA (Bienert, 1986); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: Sri Lanka (Fernando, 1980a); Malaysia & Sri Lanka (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Sri Lanka. Fairly common in lakes & ponds (Chengalath, Fernando & Koste, 1973)

- Australian region: River in Aust. (Bērziņš, 1982); Qld, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Rare in Murray-Darling basin, also Cape Cork, Qld and Kakadu Nat. Park, NT, Aust. (Shiel & Koste, 1992)

- Neotropical region: Prov. San Luis & Chaco, Argentina (José de Paggi, 1990); Panama (Collado *et al.*, 1984); Ecuador : Oriente (Koste & Böttger, 1989 & 1992); Galapagos Islands (De Smet, 1987 & 1989); Surinam (Leentvaar, 1975); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (cosmopolitan?) (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Brazil, Argentina, Venezuela & Panama (Koste & José de Paggi, 1982); Rio Yatapu & Rio Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Negro, Amazonia, Brazil (Schaden, 1977c); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Araucarian ponds & pools, Chile (Thomasson, 1963b)

Trichocerca bicristata (Gosse), f. *mucosa* (Stokes, 1896)

- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989)

- Australian region: Qld, Australia (Shiel & Koste, 1974a)

- Neotropical region: Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Amazonia, Brazil (Hauer, 1965b; Koste, 1972f); Brazil, Panama, Surinam, Venezuela (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Trichocerca bicuspes (Pell, 1890)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Wisconsin, USA (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian

Great Lakes (Stemberger, 1979)

Trichocerca bidens (Lucks, 1912)

- Palaearctic region: River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); All over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982, 1987 & 1988); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Dübener Heide, N Germany (Wulfert, 1961); Lake Nobel, Ukraine (Polishchuk, 1991); Nat. Res. Het Hol, near Kortenhoeft, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Peats in the Caucasus (Tarnogradsky, 1961); Serbian section of river Danube (Zivkovic, 1987)

- Nearctic region: NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980)

- Oriental region: Taiwan (Sudzuki, 1988); Taiwan, Malaysia & Indonesia (Sudzuki, 1989)

- Australian region: Creek, river and lake in Aust. (Bērziņš, 1982); Swamp near Dunedin, S Island, New Zealand (Bērziņš, 1982a); Vic, Aust. (Shiel & Koste, 1985); S Tasmania & Vic, Aust. (Koste, Shiel & Tan, 1988); Cosmopolitan; isolated finds in acid waters, particularly *Sphagnum*. Rare. Tas & Vic (Shiel & Koste, 1992); Westland, New Zealand & Campbell Islands (Russell, 1960)

- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989); Varzea near Santarem, Brazil (Koste, 1974b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Brazil (Koste & José de Paggi, 1982); Ecuador : Oriente & Sierra (Koste & Böttger, 1992)

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984)

Trichocerca birostris (Minkiewicz, 1900)

- Palaearctic region: Lake Zürichsee, CH (Nipkow, 1961); Lago di Giulianello, Latium, Italy (Ferrara & Margaritora, 1972 & 1977); Romania (Rudescu, 1960); Lakes in S Sweden (Arnemo *et al.*, 1968); Impoundment "Eisernes Tor", Danube, Romania (Brezeanu & Petén, 1973); Goggaussee, Karinthia, Austria (Herzig & Moog, 1976); River Ybbarpsån, Sweden (Bērziņš, 1979); Afghanistan (Bērziņš, 1961); Coast of S Finland (Eriksen, 1979); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Buchseen, Bodensee (Einsle, 1966); Mindelsee, Bodensee (Einsle, 1967); Lake Bolsena & L. Bracciano, C Italy (Ferrari, 1972); Lake Biwa, Japan (Yamamoto, 1967 & 1968; Hillbricht-Ilkowska, 1983a); C Sweden (Pejler, 1972); Lakes in C Sweden (Pejler, 1964 & 1965); Lago Maggiore, Italy (Tonolli, 1962); Lake Sempachersee, CH (Zimmermann, 1974); Lake Mälaren, Sweden (Grönberg, 1975); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lake Erken, Sweden (Nauwerck, 1963); (Blomquist & Pejler, 1980); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Monterosi, Latium, Italy (Stella & Margaritora, 1966); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Constance, Germany (Kiefer, 1968; Walz *et al.*, 1987); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Lake Lauerzersee, CH (Odermatt, 1970); Lake Barlosche Kolk; Nat. Res. Oisterwijkse vennen; Nat. Res. Het Hol, near Kortenhoeft, NL (Dresscher, 1976); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lac Léman, Fr./CH (Rougier, 1969); Aegean lakes, Macedonia, ex-Yugoslavia & Greece (Serafimova-Hadzisce, 1974); Periphytic biota in sewages & park waters, Japan (Sudzuki, 1981); A tarn in Värmland, Sweden (Thomasson, 1970); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Northern Michigan inland lakes (Stemberger, 1990); Lac Echo, Québec, Canada (Nogrady, 1976); Carter Lake, N Colorado, USA (Thomasson, 1964b)

- Oriental region: Girikbe-Tank, Sri Lanka (Bērziņš, 1982a)

- Australian region: Creek & 2 reservoirs in Aust. (Bērziņš, 1982); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Qld, Aust. (Shiel & Koste, 1979); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Lake Sorell, Tasmania (Sudzuki, 1967)

- Neotropical region: Chile (Löffler, 1962); Chilean lakes (Schmid-Araya, 1991); Brokopondo Lake, Surinam (Leentvaar, 1979); Chile & Surinam (Koste & José de Paggi, 1982); Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b); Amazonia, Brazil (Thomasson, 1971); Prov. Tierra del Fuego, Chubut, Rio Negro & Neuquen, Argentina (José de Paggi, 1990)

***Trichocerca brachyura* (Gosse, 1851)**

- Palaearctic region: Lakes, N of Bucarest, Romania (Godeanu, 1969b); Romania (Rudescu, 1960); River Loire, France (Lair, 1980); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); N Swedish Lapland (Pejler, 1962a); Darnsee near Epe, NW Germany (Koste, 1962); ? Lake Orog-Nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); ? La Mancha, Castell., Spain (Armengol *et al.*, 1975); Impoundment on Rio Guardinia, C Spain (Armengol, 1982); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Saidenbach, Germany (Althaus, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); River Ybbarpsån, Sweden (Bērziņš, 1979); Afghanistan (Bērziņš, 1961); Pools with fresh & brackish water, S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); All over Europe. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1970); Lake Balaton, Hungary (Zankai, 1968); Camargue, S France (De Ridder, 1960a & 1961); W Iceland (De Ridder, 1972); Japanese inland waters (Yamamoto, 1960a); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Prov. Drente; Nat. Res. Oisterwijkse vennen; Nat. Res. Het Hol, near Kortenhoeft; Maria - and Helenapeel, NL (Dresscher, 1976); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); Samrée, Belgium (De Ridder, 1980 & 1986); Lake Constance, Germany (Walz *et al.*, 1987); Watercourses in the Bucegi mts., Romania (Godeanu, 1963b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1960); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Temporary waters, small permanent ponds & marshy zones in the Bucegi mts., Rom. (Godeanu, 1969a); In periphyton of mosses & *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); Shores of embanked or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960b); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Bog pond near Budapest, Hungary (Nogrady, 1962); Karelian inland waters, R.F. (Kutikova, 1965); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Spain : Ciudad real (?), Madrid, Orense, Pontevedra; Baleares : Menorca; Andorra (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Illinois & Kentucky (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989); Miller's Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Lac Echo, Québec, Canada (Nogrady, 1976); Laurentian Great Lakes (Stemberger, 1979); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965)

- Oriental region: India (Sharma & Michael, 1980); Malaysia, Indonesia & India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Lake Lano, Island of Mindanao, the Philippines (Lewis, 1977); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974)

- Australian region: NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Creek in Aust. (Bērziņš, 1982); SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); NSW & Qld, Aust. (Shiel & Koste, 1979); Cosmopolitan, generally solitary in psammon and littoral of most freshwaters; pH-tolerant. Uncommon; probably pancontinental, but not yet recorded from S Aust. (Shiel & Koste, 1992); Lincoln & Christchurch, New Zealand; Chatham Islands (Russell, 1960)

- Neotropical region: Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Argentina, Brazil, Surinam, Panama, Costa Rica (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Prov. Rio Negro, Tucuman & Santa Fé, Arg. (José de Paggi, 1990); Curaçao (De Ridder, 1977); Curaçao & Panama (Collado *et al.*, 1984); Brokopondo Lake, Surinam (Leentvaar, 1979); Prov. Neuquen & Tierra del Fuego, Argentina (Olivier, 1965); Araucarian Lakes, E of the Andes, Chile (Thomasson, 1963b); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Lago Rotondo, Amazonia, Brazil (Serruya & Pollinger, 1984); Ecuador: Costa (Koste & Böttger, 1992)

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

***Trichocerca brasiliensis* (Murray, 1913)**

- Oriental region: India (Sharma & Michael, 1980); Sri Lanka (Fernando, 1980a); Indonesia, Sri Lanka & India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Sri Lanka. Rare, found only from one pond, near Tobbawa (Chengalath, Fernando & Koste, 1983); W Bengal, NE India (Sharma, 1979b)

- Australian region: S Tasmania (Koste, Shiel & Tan, 1988); Tasmania (Shiel, Koste & Tan, 1989); Single record, Tasmania, from a roadside marsh, Deloraine (Shiel & Koste, 1992)

- Neotropical region: Ecuador : Oriente, Sierra & Costa (Koste & Böttger, 1989); Ecuador : Oriente (Koste & Böttger, 1992); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, NE Brazil & Rio de Janeiro, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); Rio Yatapu & r. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. Tucuman, Santiago del Estero & Santa Fé, Argentina (José de Paggi, 1990); Amazonia, Brazil (Hauer, 1965; Thomasson, 1971)

Trichocerca brevidactyla (Daday, 1890)

- Palaearctic region: Hungarian plain (Bērziņš, 1978)

Trichocerca brevistyla (Lucks, 1912)

- Palaearctic region: Coast of S Finland (Eriksen, 1969)

Trichocerca capucina (Wierzejski & Zacharias, 1893)

- Palaearctic region: Lakes in Estonia (Haberman, 1978); Peat pits in Finland (Selin & Koskinen, 1988); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); Romania (Rudescu, 1960); Slovenia, ex-Yugoslavia (Markic, 1983); Lakes in Estonia (Mäemets, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Buchseen, Bodensee, CH (Einsle, 1966); Mindelsee, Bodensee, CH (Einsle, 1967); C Finland (Eloranta, 1982b); Lake Bolsena & L. Vico, C Italy (Ferrari, 1972); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Lago Maggiore, Italy (Tonolli, 1962; Goldman *et al.*, 1968); Lake Biwa, Japan (Yamamoto, 1967 & 1968; Hillbricht-Ilkowska, 1983a); Lake Stechlinsee & L. Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie & L. Sniardny, *ibid.* (Kosicki, 1960); Lago di Giulianello, Latium, Italy (Stella & Margaritora, 1972; Ferrara & Margaritora, 1977); Lakes in S Sweden (Arnemo *et al.*, 1968); Groszer Müggelsee, Berlin, Germany (Barthelmes, 1960); Small lakes in Estonia (Haberman & Mäemets, 1987); Lake Bielersee, CH (Bernier-Frankhauser, 1986); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Bannsee, near Seon, Bavaria, Germany (Preisler, 1977a & 1977b); Lake Balaton, Hungary (Zankai & Ponyi, 1971a; Zankai, 1968); Grasmere Lake, Lake district, UK (Elliott, 1977); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); Karstic Lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Lakes C Sweden (Pejler, 1964 & 1965); Po river, Italy (Ferrari *et al.*, 1989); Lake Sempachersee, CH (Zimmermann, 1974); C Sweden (Pejler, 1972); Darnsee near Epe, NW Germany (Koste, 1962); Lake Mälaren, Sweden (Grönberg, 1975); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lac Léman, Fr./CH (Martin, 1961; Rougier, 1969; Naef & Martin, 1985; Balvay, 1989; Balvay & Laurent, 1981, 1989, 1990a & 1990b); Rybnik dam reservoir, Poland (Krzyszowski, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Volga river & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Lakes in Soviet Karelia, R.F. (Filimonova, 1976); Dniester Estuary, R.F. (Polishchuk, 1976); In large & medium-size rivers, tributary to Kiev reservoir (Polishchuk, 1987); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Rügener, Hiddenseer & Darszer Boddengewässer, NE Germany (Schwarz, 1963); Etang du Brochet, Rambouillet, France (Pourriot *et al.*, 1969); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Gulf of Finland (Bērziņš, 1960); Lake Kus, Turkey (Ustaglu & Balik, 1990a); Leżna & Wlodawa Lake district, E Poland (Kowalczyk & Radwan, 1982; Radwan, 1984); Japanese inland waters (Yamamoto, 1960a); Lakes Vechtplassen, NL (Leentvaar, 1969); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Lake Constance, Germany (Kiefer, 1968; Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Impoundment Weidatalsperre, E Thüringen, G. (Hoffmann, 1966); Bolshoe Lake, White Sea, R.F. (Ghilarov, 1965); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Lac de Nantua, Ain, France (Balvay, 1985); All over the Netherlands (Dresscher, 1976); Bog pond near Budapest, Hungary (Nogrady, 1962); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lac d'Annecy, France (Balvay & Druart, 1992); Black Sea (Rudescu, 1961); In reed borders of the Danube delta, Romania (Rudescu, 1968); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Gemünderer Maar, Weinfelder Maar & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Hamburg area, Germany (Rühmann, 1961); Hamburg harbour, Germany (Rühmann,

1962); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de la Tour, Ile-de-France, France (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Kakhova reservoir, near Lysaya Gora, R.F. (Pashkova, 1992); Aegean lakes, Macedonia, ex-Yugoslavia & Greece (Serafimova-Hadzisce, 1974); Fens in Genk, Belgium (Schepens, 1960); Pool, S of Trondheim, Norway (Thomasson, 1979); Lake Ohrid, Balkan peninsula (Stankovic, 1960); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Lake Stecchlinsee, Brandenburg, Germany (Ronneberger & Schönborn, 1985); Waters of the Szecezezin Lagoon, Poland (Wiktor, 1960); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1972); Canada (Chengalath, 1977); 3 lakes in N Carolina, USA (Lemly & Demmick, 1982); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Cape Herschel, Ellesmere Island, NWT, Canada (Nogrady & Smol, 1989); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Jenny Lake, W North America (Thomasson, 1962)

- Oriental region: Philippines (Mamaril & Fernando, 1989); Taiwan & Philippines (Sudzuki, 1989); Perennial pond at Chotanagpur, India (Srivastava, 1981)

- Australian region: Reservoir in Australia (Bērziņš, 1982); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); NSW & Qld, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Magela Creek billabongs, NW Aust. (Shiel & Koste, 1983); Tasmania (Koste & Shiel, 1987); Uncommon; NT, Qld, Tas & Vic (Shiel & Koste, 1992)

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil (Hauer, 1965; Thomasson, 1971); Amazonia, Brazil. Cosmopolitan (Koste, 1972f); Brazil, Venezuela & Panama (Koste & José de Paggi, 1982); Rio Yatapu & r. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Lake Hemmen, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Lago Yurucui & Rio Negro, Amazonia, Brazil (Schaden, 1977c); Lake Cocibolca & L. Masaya, Nicaragua (Moreno *et al.*, 1992)

***Trichocerca cavia* (Gosse, 1886)**

- Palearctic region: Romania (Rudescu, 1960); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1989); River Klyas'ma, R.F. (Bogoslawski, 1961); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Sierra Nevada, Spain (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Taltowisko, Mazurian lakeland, Poland (Klimowicz, 1982); N swedish Lapland (Pejler, 1962a); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); All over Europe. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1970); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); SW, W & N Iceland (De Ridder, 1966a, 1967a, 1969b, 1970 & 1972); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Leżna-Włodawa Lake District, E Poland (Radwan, 1984); Pelagic zone of the Leżna-Włodawa lakes, Pol. (Radwan, 1975); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Small permanent ponds & marshy zones, *ibid.* (Godeanu, 1969a); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Anatolia, Turkey (Segers *et al.*, 1992); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Predeltaic area of the Black Sea, Romania (Popescu-Marinescu, 1978); Dübener Heide, Germany (Wulfert, 1960b); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Nat. Res. Meyendel; Nat. Res. Het Hol near Kortenhoeft, NL (Dresscher, 1976); In reed borders of the Danube delta, Romania (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Ponds in Botanical Garden Gent, Belgium (Segers *et al.*, 1991b); Spain : Granada (Velasco, 1990); Baginiec II pond & Lipowy pond, Poland (Lewkowicz, 1972); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Crater Lake, Arizona, USA (Green, 1986); Kingston, Ontario, Canada (Nogrady, 1989); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Illinois, USA (Bērziņš, 1984); Laurel Creek reservoir, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

- Australian region: NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait,

Shiel & Koste, 1984); Creek and river in Aust. (Bērziņš, 1982); Swamp near Dunedin, S Island, New Zealand (Bērziņš, 1982a); Tasmania (Koste & Shiel, 1987); Vic, Aust. (Koste & Shiel, 1980c); Rare, one record each from NT, Tas & Vic (Shiel & Koste, 1992); Wellington, New Zealand (Russell, 1960)

- Neotropical region: Venezuela (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Trichocerca chattoni (de Beauchamp, 1907)

- Palearctic region: Impoundment on Rio Guadiana, C Spain (Armengol, 1982); Spanish reservoirs (Guiset, 1977); 3 reservoirs in Rio Guadiana, C Spain (Armengol *et al.*, 1987); Lake Biwa, Japan (Yamamoto, 1967 & 1968); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); W & C Eur. plains (Bērziņš, 1978); Southwest islands of Japan (Sudzuki *et al.*, 1992); All over Spain (Velasco, 1990)

- Oriental region: Asia (Bērziņš, 1978); Lakes Sunda-expedition (Serruya & Pollingher, 1984); Sri Lanka (Fernando, 1980a); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Singapore, Indonesia & Sri Lanka (Sudzuki, 1989); Indonesia (Koste, 1972f); Sri Lanka. Fairly common in lakes & ponds (Chengalath, Fernando & Koste, 1973); Taiwan. Distribution : warm waters (Sudzuki, 1991); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

- Australian region: Sidney reservoirs, NSW, Aust. (Thomasson, 1973); NSW, Aust. (Shiel & Koste, 1979); (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Rare. Confirmed from ca 14 localities (Shiel & Koste, 1992)

- Neotropical region: Araucarian Lakes, E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Rio Tocantins, Lago do Rei & Rio Negro, Amazonia, Brazil (Schaden, 1977c); Lago Taruma-Mirim, Amazonia, C Brazil (Hardy, 1980); Lago Castanho, L. Cristalino & L. Taruma-Mirim, Amazonia, Brazil (Serruya & Pollingher, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Prov. Rio Negro, Catamarca, Chaco & Santa Fé, Argentina (José de Paggi, 1990); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Provinces in NW Argentina (José de Paggi, 1989); Lago Açu, Maranhao, Brazil (Reid & Turner, 1988); Brazil, Panama & Venezuela (Koste & José de Paggi, 1982); Rio Yatapu & R. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971;; Koste, 1972f)

Trichocerca collaris (Rousselet, 1896)

- Palearctic region: Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pejler, 1987 & 1989d); N Swedish Lapland (Pejler, 1962a); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Europe, Japan, China, R.F. (Koste, 1972f); In peat bogs of the Massif Central, France (Batut, 1965); All over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); N & W Iceland (De Ridder, 1969b & 1972); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bog Chambedaze, Massif Central, France (Francez, 1982, 1987 & 1988); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Japanese inland waters (Yamamoto, 1960a); Predeltaic area of Black Sea, Romania (Popescu-Marinescu, 1974); River Maas, Rijn, Waal & Yssel; L. Gerritsfles, near Kootwijk, NL (Dresscher, 1976); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Peat bogs in the Paris suburb, France (Pourriot, 1965); Tarn in Värmland, Sweden (Thomasson, 1970)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); N America (Koste, 1972f); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: Sumatra (Koste, 1972f); Indonesia (Sudzuki, 1989)

- Australian region: ? Tasmania (Koste & Shiel, 1987); NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); New Zealand (Koste, 1972f); Cosmopolitan in acid waters with sphagnum; rare; several records from Tasmania, only one from mainland : Magela Creek, NT (Shiel & Koste, 1992); Takahe valley, New Zealand (Russell, 1960)

- Neotropical region: Argentina, Brazil & Venezuela (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Prov. Corrientes, Argentina (José de Paggi, 1990); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Ecuador : Oriente & Costa (Koste & Böttger, 1992)

Trichocerca cryptopus Hauer, 1938

- Oriental region: Singapore & Indonesia (Sudzuki, 1989); Singapore & Java (Sudzuki, 1991)

Trichocerca cylindrica (Imhof, 1891)

- Palaearctic region: Lake Biwa-ko, Japan (Yamamoto, 1960b); Romania (Rudescu, 1960); Delta of river Danube, Romania (Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990); Nat. Res. Neeruti Lakes, Estonia (Mäemets A & A., *s.d.*); Lakes in C Sweden (Pejler, 1964 & 1965); Lago Maggiore, Italy (Tonolli, 1962); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Eutrophic waters in E Poland (Radwan & Popiolek, 1989); Carp ponds in S Poland (Zurek, 1980); Lake Mälaren, Sweden (Grönberg, 1975); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lac Léman, Fr./CH (Balvay, 1989); (Balvay & Laurent, 1981, 1989 & 1990a); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990; Lair, 1991); Volga river & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Lakes in Soviet Karelia, R.F. (Filimonova, 1976); Lake Groszer Müggelsee, Berlin, Germany (Barthelmes, 1960); Heiluntian province, China (Bogoslowski, 1962); 2 lakes in N Sweden (Axelson, 1961); Lakes in Estonia (Haberman, 1978; Mäemets, 1983); Coast of S Finland (Eriksen, 1969); Lake Ormijärvi, S Finland (Cajander, 1983); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); District Ostrava, CSR (Dvorakova, 1960b); Lapland State Preserve, R.F. (Ghilarov, 1972); Oligotrophic neutral to alkaline lakes in the NW R.F. (Salazkin, 1971); All over Europe (Bērziņš, 1978); Experimental fishponds near Warsaw, Poland (Spodniewska *et al.*, 1966); Lake Balaton, Hungary (Zankai, 1968); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Etang du Brochet, Rambouillet, France (Pourriot *et al.*, 1969); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); Leżna-Włodawa Lake District, E Poland (Radwan, 1984); Japanese inland waters (Yamamoto, 1960a); Serbian section of river Danube (Zivkovic, 1987); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); River Danube (Enaceanu & Brezeanu, 1970); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Artificial lakes near Köln, Germany (Trahms, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Lac d'Aydat, Massif Central, France (Lair, 1990); Pond in Enschede; surroundings of Nijmegen; de Gerritsfles near Kootwijk; Kil van Hurwenen; area between Linge & Rhene; Susteren (Lb); pool Vechten near Utrecht; Loosdrecht Lakes, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Lakes Aydat, Chambon & Bourdouze, Puy-de-Dôme, France (Persoone *et al.*, 1968); Leżna-Włodawa Lake District, E Poland (Kowalczyk & Radwan, 1982); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Lakes in the Leżna-Włodawa area of E Poland (Radwan, 1976); Hamburg area, Germany (Rühmann, 1961); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds in the Paris suburb, France (Pourriot, 1965); Tarn in Värmland, Sweden (Thomasson, 1970); Spain : Barcelona, Valencia & Zamora; Portugal : Beja & Portalegre (Velasco, 1990); Experimental ponds at Golysz, Poland (Lewkowicz, 1971; Zurek, 1974)
- Nearctic region: 2 lakes in Idaho, USA (Buscerni, 1964); Acid lakes in Maine, USA (Brett, 1989); 18 arctic & subarctic lakes, Canada (Moore, 1978); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); NE Canada (Chengalath & Koste, 1983); 3 lakes in N Carolina, USA (Lemly & Dimmick, 1982); Wisconsin, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Illinois river, USA (Brown *et al.*, 1989); Lakes Adirondack, NY State, USA (Siegfried *et al.*, 1984 & 1989); Northern Michigan inland lakes (Stemberger, 1990); Clearwater L. & Swan L., near Sudbury, Ontario (Yan & Geiling, 1985); Columbia Lakes, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Lake 122 & L. 132, NW Ontario, Canada (Schindler & Novén, 1971); Silver Lake, Adirondack mts., NY State, USA (Siegfried, 1991); Crecy Lake, New Brunswick, Canada (Smith, 1969); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Greens Lake, Beaver Island, Michigan, USA (Foran & King, 1982); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Lake Oglethorpe, NE Georgia, USA (Orcutt & Pace, 1984); Laurentian Great Lakes (Stemberger, 1979); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); James Bay area, Canada (Pinel-Alloul *et al.*, 1979); R. Opinaca & Small Opinaca, James Bay area, N Québec, Canada (Armengol *et al.*, 1983); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965); Long Lake, N Carolina, USA (Moore, 1980); Lake Ontario, Canada (Nauwerck, 1978); Bay of Quinte, Lake Ontario, Canada (Roff & Kwiatkowski, 1977); Lakes in the Churchill Falls area of Labrador (Duthie & Ostrowsky, 1974)
- Oriental region: Dal Lake, Kashmir Himalayan lake, India (Vass & Zutshi, 1983); Fishpond in Burdwan, W Bengal, India (Mandal, 1976); India (Sharma, 1980); Sri Lanka (Fernando, 1980a); Taiwan, Sri Lanka & India (Sudzuki, 1989); Phewa Tal, Pokhara valley, Nepal (Daems & Dumont, 1974); Sri Lanka. Rare; found in lakes (Chengalath & Koste, 1973); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985); Lakes of the Sunda Expedition (Serruya & Pollinger, 1984)
- Australian region: Lake Sorrell, Tasmania (Sudzuki, 1967); Lake Sorrell in Tasmania (after Sudzuki, 1967); L. Encumbene, Snowy mts. & L. Darthmouth (Shiel & Koste, 1992)
- Neotropical region: Ecuador : Sierra (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez,

1984a); Argentina & Panama (Koste & José de Paggi, 1982); Prov. Rio Negro, Chaco & Corrientes, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Trichocerca dixonnutalli (Jennings, 1903)

- Palaeartic region: Romania (Rudescu, 1960); Afghanistan (Bērziņš, 1961); Seat Ness, Shetland (De Smet, 1988); Koyama Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Lac Léman, Fr./CH (Balvay *et al.*, 1985; Balvay & Laurent, 1989, 1990a & 1990b); C Eur. mountains, Carpathes, Pontic province, C & E Eur. plains, Baltic prov., UK, Caucasus (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lac de Nantua, Ain, France (Balvay, 1985); Province Zuid-Limburg, NL (Dresscher, 1976); Lac d'Annecy, France (Balvay & Druart, 1992); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Pelagic zone of the Leżna-Włodawa lakes, P. (Radwan, 1975); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of river Danube (Zivkovic, 1987)

- Nearctic region: Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Altiplanicio Central, Mexico (Vilaclara & Sladecsek, 1989); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

- Oriental region: Sri Lanka (Fernando, 1980a); Kalimantan (Borneo), Indonesia (Koste, 1988a); Taiwan, Indonesia, Malaysia, Singapore & Sri Lanka (Sudzuki, 1989); Sri Lanka. Only in ricefields, but in fairly large numbers (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Lake Pakis & L. Singkarak (Serruya & Pollingher, 1984)

- Australian region: Lake Barracoota, Aust. (Bērziņš, 1982); Qld, Aust. (Shiel & Koste, 1979); S Tasmania & Qld, Aust. (Koste, Shiel & Tan, 1988; Shiel & Koste, 1992)

- Neotropical region: Lago Açu, Maranhao, Brazil (Reid & Turner, 1988); Amazonia, Brazil (Koste, 1972f); Brazil, Panama & Venezuela (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1988b); Chilean lakes (Schmid-Araya, 1991); Costa Rica & Panama (Collado *et al.*, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Lago do Passarinho & L. Buiçu, Amazonia, Brazil (Schaden, 1977c)

Trichocerca elongata elongata (Gosse, 1886)

- Palaeartic region: Peat bogs Chambedaze, Puy-de-Dome, France (Francez, 1982 & 1987); River Danube (Enaceanu & Brezeanu, 1970); Romania (Rudescu, 1960); Asiatic Turkey (Dumont & De Ridder, 1987); District Ostrava, CSR (Dvorakova, 1960b); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Po river, Italy (Ferrari *et al.*, 1989); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); Lake Myvatn, Iceland (Adalsteinsson, 1979); Heiluntian province, China (Bogoslawski, 1962); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1979); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lac Léman, Fr./CH (Balvay *et al.*, 1985; Balvay & Laurent, 1989 & 1990a); Kiev reservoir, R.F. (Polishchuk, 1987); Soviet section of river Danube, R.F. (Parchuk, 1985); All over Europe (Bērziņš, 1978); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1981 & 1982); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Japanese inland waters (Yamamoto, 1960a); River Grabia basin, Poland (Pawlowski, 1970); Lake Balaton, Hungary (Zankai, 1968); Mt. Fuji, Japan (as *Paratrachocerca elongata*) (Sudzuki, 1971); Lake Donk, Overmere, Belgium (Dumont, 1968b); N & W Iceland (De Ridder, 1969b, 1970 & 1972); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Samrée, Belgium (De Ridder, 1980 & 1986); Pools with sphagnum in Fontainebleau forest & in the Sologne, Ile-de-France, France (Pourriot, 1970); Middle course of river Loire, France (Lair & Sargos, 1981); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Pool, S of Trondheim, Norway (Thomasson, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Lake Biwa-ko, Japan (Yamamoto, 1960b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Small water bodies in the Mikolajski area, Poland (Klimowicz, 1967); Dübener Heide, N Germany (Wulfert, 1961); Lake Aydat, Massif Central, France (Lair & Ayadi, 1989); Peat bog Chambedaze, Massif Central, France (Francez, 1988); River Rijn, Waal & Yssel; Maria- & Helenapeel; Nat. Res. de Gerritsfles near Kootwijk; R. Maas; Broekhuizen &

- Susteren, Limburg, NL (Dresscher, 1976); Bog pond near Budapest, Hungary (Nogrady, 1962); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Parczew area peat bogs, Poland (Radwan, 1974); Peat bogs Poiana Stampei, Bukowina, Poland (Rudescu, 1966); Mountain Fuji area, Japan (Sudzuki, 1978a); Lakes around mountain Fuji, Japan (Sudzuki, 1971); Lake Biwa, Japan (Yamamoto, 1967)
- Nearctic region: Walker Lake, Arizona, USA (Green, 1986); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Gregg's Lake & Parvin Lake, Colorado, USA (Pennak, 1966); Kentucky, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Colorado, USA (Turner, 1988); Acid lakes in Maine, USA (Brett, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979); Pinehurst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Bearverskin Lake, Kejumkujik Nat. Park, Nova Scotia, Canada (Blouin *et al.*, 1984); Adirondack lakes, NY State, USA (Siegfried *et al.*, 1984)
 - Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Malaysia, Singapore & Indonesia (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Ricefields in NE Thailand (Heckman, 1979); Sri Lanka (Mendis & Fernando 1962); (Fernando, 1969)
 - Australian region: SW Aust. (Koste, Shiel & Brock, 1983); NSW & Qld, Aust. (Shiel & Koste, 1979); River in Australia (Bērziņš, 1982); River Murray, Aust. (Koste, 1979b); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Pancontinental, common in billabongs (Shiel & Koste, 1992); South Canterbury, New Zealand (Russell, 1960)
 - Neotropical region: Ecuador : Oriente (Koste & Böttger, 1989 & 1992); Lake Cocibolca, Nicaragua (Moreno *et al.*, 1992); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989); Lago Paroni, Brazil (Koste, 1974a); Argentina, Brazil & Paraguay (Koste & José de Paggi, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Chilean lakes (Schmid-Araya, 1991); Prov. Santa Cruz, Chubut, Corriente, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Prov. Buenos Aires & Santa Cruz, Argentina; Paraguay (Olivier, 1965); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Lago Tefé, Amazonia, Brazil (Schaden, 1977c)
- Trichocerca elongata braziliensis*** (Murray, 1913)
- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981)
- Trichocerca euodonta*** Hauer, 1938
- Oriental region: Malaysia & Indonesia (Sudzuki, 1989)
 - Australian region: River in Aust. (Sudzuki, 1989); Vic, Aust. Is a synonym of *Tr. myersi* Hauer, 1931. Known only from North Sumatra and one unconfirmed Australian record from the Moorabool river at Ballan, Vic (Bērziņš, 1982) (Shiel & Koste, 1992)
- Trichocerca falx*** Edmondson, 1936
- Nearctic region: Canada (Chengalath, 1977)
- Trichocerca flagellata*** Hauer, 1937
- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
 - Oriental region: Malaysia (Brandorff, Koste & Smirnov, 1982); Malaysia & India (Sudzuki, 1989); India (Sharma & Michael, 1980); W & E Malaysia & Singapore (Fernando & Zankai, 1981)
 - Australian region: NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Lake Purrumbete, freshwater Aust. crater lake (Green, 1981); 3 localities known : Magela Creek, NT; Cape Cork, Qld & Lake Purrumbete, Vic (Shiel & Koste, 1992)
 - Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Brazil & Venezuela (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)
- Trichocerca flava*** (Voronkov, 1907)
- Palaearctic region: NW Russian taiga (Bērziņš, 1978)
- Trichocerca fusiformis*** (Gosse, 1886)
- Palaearctic region: Peat bog Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); In reed borders of the Danube delta, Rom. (Rudescu, 1968)
- Trichocerca gracilis*** (Tessin, 1890)
- Palaearctic region: Area between rivers Linge & Waal, NL (Dresscher, 1976); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Romania (Rudescu, 1960); Mt. Hoverla,

Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Europe, R.F., Tibet (Koste, 1972f); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Ponds in Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Pelagic zone of the Leżna-Włodawa lakes, P. (Radwan, 1975); Hamburg area, Germany (Rühmann, 1961); Lago Trasimeno, Italy (Taticchi, 1968); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964)

- Nearctic region: Little Swede n° 1 Lake, Colorado (Pennak, 1966); Illinois & Missouri, USA (Bērziņš, 1984); Colorado, USA (Turner, 1988); N America (Koste, 1972f); Laurentian Great Lakes (Stemberger, 1979); San Francisco, USA (Nogrady, 1983)

- Oriental region: Java (Koste, 1972f); Singapore (Sudzuki, 1989)

- Australian region: Qld, Aust. (Shiel & Koste, 1985); Europe, N & S America. Rare in Aust. Single record, Salomon Dam, Palm Island, N Qld (Shiel & Koste, 1992)

- Neotropical region: Rio Tocantins, Lago Moratu, L. do Castanho & L. Tefé, Amazonia, Brazil (Schaden, 1977c); Lago do Castanho, Amazonia, C Brazil (Schaden, 1977b); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Amazonia, Brazil (Koste, 1972f); Brazil, Argentina, Venezuela & Panama (Koste & José de Paggi, 1982); Prov. Corrientes, Argentina (José de Paggi, 1990); Costa Rica (Collado *et al.*, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Trichocerca harveyensis Myers, 1942

- Palaearctic region: In peat bogs in the Ile-de-France, France (Pourriot, 1965 & 1970); In peat bogs in the Ile-de-France et en Sologne, France (Pourriot, 1966); W Eur. plain (Bērziņš, 1978)

Trichocerca helminthoides (Gosse, 1886)

- Palaearctic region: Almost all over Europe (Bērziņš, 1978)

- Australian region: Campbell Island (Russell, 1960)

Trichocerca heterodactyla (Tschugunoff, 1921)

- Palaearctic region: N Part of Caspian Sea & L. Aral (Mordukhai-Boltovskoi, 1979); NW Russian taiga (Bērziņš, 1978); Southwest islands of Japan (Sudzuki *et al.*, 1992)

Trichocerca iernis (Gosse, 1887)

- Palaearctic region: Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Romania (Rudescu, 1960); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogosłowski, 1961); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Delta of river Danube, Romania (Prunescu-Arion, 1989); N Swedish Lapland (Pejler, 1962a); Italy, Alps, all over Europe. Caspian area. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1970 & 1973); Lake Balaton, Hungary (Zankai, 1968); N & W Iceland (De Ridder, 1969b & 1972); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Dübener Heide, N Germany (Wulfert, 1961); Nat. Res. "Het Hol", near Kortenhoef, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Parczew area peat bogs, Poland (Radwan, 1974); Pelagic zone of the Leżna-Włodawa lakes, Poland (Radwan, 1975); Fens in Genk, Belgium (Schepens, 1960); Serbian section of river Danube (Zivkovic, 1987); Spain: Lerida & Orense (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964); Lipowy pond, Baginice pond & pond Chylinski Maly II, Poland (Lewkowicz, 1972); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Canada (Chengalath, 1977); Illinois & Kentucky, USA (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989); Lakes in Santee, California, USA (Nogrady, 1982); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Calabogie Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975)

- Oriental region: Girikbe-Tank, Sri Lanka (Bērziņš, 1982a); India (Sharma & Michael, 1980); Indonesia & India (Sudzuki, 1989); Lake Manguao, Palawan, the Philippines (Davies & Green, 1990)

- Australian region: River Yarra, Australia (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Single unconfirmed record from Yarra river at Warburton, Vic (Shiel & Koste, 1992); West Coast, New Zealand (Russell, 1960)

- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989); Argentina & Venezuela (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. Chaco & Santa Fé, Argentina (José de Paggi, 1990); Santa Cruz, Galapagos Islands (Segers, 1991a)

Trichocerca inermis (Linder, 1904)

- Palaearctic region: Parczew area peat bogs, Poland (Radwan, 1974); Serbian section of river Danube

(Zivkovic, 1987); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); All over Europe (Bērziņš, 1967); Upper part of Volga delta, R.F. (Chuykov, 1981); River Danube (Enaceanu & Brezeanu, 1970); Barlosche Kolk, near Wijlre, Drente, NL (Dresscher, 1976); W Iceland (De Ridder, 1969b & 1972)

- Nearctic region: N America (Bērziņš, 1978); Illinois & Kentucky, USA (Bērziņš, 1984); Northern Michigan inland lakes (Stemberger, 1990)

- Australian region: Vic, Aust. (Shiel & Koste, 1985); Single record : sheepwash billabongs, Yea, Vic (Shiel & Koste, 1992)

- Neotropical region: Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Amazonia, Brazil (Thomasson, 1971); Chilean lakes (Schmid-Araya, 1991); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989)

Trichocerca insignis (Herrick, 1885)

- Palaearctic region: C Eur. mts., Carpathes, W, C & E Eur. plains, Baltic province, NW Russian taiga (Bērziņš, 1978); Coast of S Finland (Eriksen, 1969); N Swedish Lapland (Pejler, 1962a); Germany, CH, R.F., Sweden (Koste, 1972f); Pools with vegetation in the Fontainebleau forest, Ile-de-France, France (Pourriot, 1970); Karelian inland waters, R.F. (Kutikova, 1965); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); River Grabia basin, Poland (Pawlowski, 1970); Japanese inland waters (Yamamoto, 1960a); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Temporary waters & marshy zones in the Bucegi mountains, Romania (Godeanu, 1969a); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Pool in Fontainebleau forest, Ile-de-France, Fr. (Pourriot, 1976); Pelagic zone of the Leżna-Włodawa lakes, P. (Radwan, 1975); Lake Chenbu, Changjiang basin, China (Weu, 1992); Peat bog Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Pool, S of Trondheim, Norway (Thomasson, 1979); Pond Chylinski Maly II & Lipowy pond, Poland (Lewkowicz, 1972)

- Nearctic region: Lake Tahoe, Western N America (Thomasson, 1962); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); N America (Koste, 1972f; Bērziņš, 1978); Ontario, Canada & Wisconsin, USA (Bērziņš, 1984); Pinehurst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Laurentian Great Lakes (Stemberger, 1979)

- Australian region: New Zealand (Koste, 1972f)

- Neotropical region: S America : Argentina, Venezuela, Brazil (Koste, 1972f); Ecuador : Oriente (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lago Paroni, Brazil (Koste, 1974a); Prov. Rio Negro & Corrientes, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Trichocerca insolens Myers, 1936

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

Trichocerca insulana (Hauer, 1938)

- Palaearctic region: C Eur. plains & Asia (Bērziņš, 1978); Small water bodies in Soviet Karelia, R.F. (Filimonova, 1976); Afghanistan (Bērziņš, 1961)

- Nearctic region: Canada (Chengalath, 1977); Cranberry bog, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975)

- Oriental region: Swamp near Menggala, Sumatra (Bērziņš, 1982a); Singapore & Malaysia (Karunakaran & Johnson, 1978); Malaysia, Singapore & Indonesia (Sudzuki, 1989)

- Australian region: River Yarra, Aust. (Bērziņš, 1982); NW Aust.: Magela Creek area (Koste, 1981b); ? Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); Two records : Magela Creek, NT, & Lake Dulverton, Tasmania (Shiel & Koste, 1992)

- Neotropical region: Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Trichocerca intermedia (Stenroos, 1898)

- Palaearctic region: Brook in Lao-Shan mts. & pool in Kaitao, China (Wulfert, 1968); Spain : Ibiza (Balears) (Velasco, 1990); Bog pond near Budapest, Hungary (Nogrady, 1962); Romania (Rudescu, 1960); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Minorca, Spain (de Manuel, 1990); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Coast of S Finland (Eriksen, 1969); All over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c)

- Nearctic region: Colorado, USA (Turner, 1988); N America (Bērziņš, 1978); NW Canada (Chengalath

& Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Canada (Chengalath, 1977); Parvin Lake, Colorado, USA (Pennak, 1966); Illinois, USA (Bērziņš, 1984)

- Australian region: Tasmania (Koste & Shiel, 1987); Bromfield Swamp, Tropical Qld Aust. crater lake (Green, 1981); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Qld, Aust. (Shiel & Koste, 1985); River in Aust. (Bērziņš, 1982); 4 widely separated records, probably more widespread (Shiel & Koste, 1992); Westland, New Zealand (Russell, 1960)

- Neotropical region: Brazil, Surinam, Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984)

Trichocerca intermedia (Stenroos), f. *arenosa* (Wiszniewski, 1953)

- Palaearctic region: E Eur. plain (Bērziņš, 1978)

Trichocerca jenningsi Voigt, 1957

- Palaearctic region: Lipowy pond, Poland (Lewkowicz, 1972); Romania (Rudescu, 1960); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Coast of S Finland (Eriksen, 1969); Almost all over Europe (Bērziņš, 1978); Inundation area of the Danube delta, Romania (Dorobantu, 1964); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); In reed borders of the Danube delta, Romania (Rudescu, 1968)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989)

- Australian region: NT, Aust. (Koste & Shiel, 1980c); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT & Tas. Rare (Shiel & Koste, 1992)

- Neotropical region: Chile (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991)

Trichocerca lata (Jennings, 1894)

- Palaearctic region: Coast of S Finland (Eriksen, 1969); ? NW Russian taiga (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Wisconsin, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Columbia Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975); Adirondack Lakes, NY State, USA (Siegfried *et al.*, 1984)

- Australian region: Westland, New Zealand (Russell, 1960)

Trichocerca longiseta (Schrank, 1802)

- Palaearctic region: Romania (Rudescu, 1960); La Mancha, Cast., Spain (Armengol *et al.*, 1975); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); N Swedish Lapland (Pejler, 1962a); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lago Maggiore, Italy (Tonolli, 1962); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Peat bogs in the Massif Central, France (Batut, 1965); Lac Léman, Fr./CH (Balvay & Laurent, 1981 & 1990a); Volga river, R.F. (V'yushkova & Lakhnova, 1974; Mordukhai-Boltovskoi, 1979); Oligotrophic mesoacid lakes in the NW R.F. (Salazkin, 1971); Afghanistan (Bērziņš, 1961); Moor Skopun, Faröer (De Smet, 1988); Peat pits in Finland (Selin & Koskinen, 1988); Freshwater pools, S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); Lakes in the Pyrenees, Spain (Miracle, 1981); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Slovenia, ex-Yugoslavia (Markic, 1983); S Finland (Eloranta, 1982b); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Oerd, Ameland, & L. Van Hunenplak, Terschelling, NL (Leentvaar, 1967); Hilversumse wasmeer & lake on Leersumse veld, NL (Leentvaar, 1967b); Lake Quackjeswater, Voorne, NL (Leentvaar, 1963); Nat. Res. Neeruti Lakes, Estonia (Mäemets A. & A., *s.d.*); Lake Iacob, Danube delta, Romania (Godeanu, 1976); Lac Luitel, Isère, France (Joly, 1960); Knowsley Park, Liverpool, UK (Galliford, 1964); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakhbayev, 1972); All over Europe; Caspian area. Cosmopolitan (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); Dozmary pool, Bodwin Moor, Cornwall, UK (Galliford, 1967); River Grabia basin, Poland (Pawłowski, 1960, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); N, W & SW Iceland (De Ridder, 1966a, 1970 & 1972); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); Overmere & Welle, Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne,

France (Francez, 1981 & 1984c); Lake Biwa-ko, Japan (Yamamoto, 1960b); Pond Chylinski Maly II, Pod Padurka pond & Lipowy pond, Poland (Lewkowicz, 1972); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Nat. Res. Wellemeersen, Denderleeuw, Belgium (Dumont *et al.*, 1975); Anatolia, Turkey (Segers *et al.*, 1992); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); In the lower Danube in Romania (Enaceanu, 1964); Mouth areas of the Danube branches, Romania (Popescu-Marinescu, 1974); Lakes in NE Norway (Saeter, 1971); Dübener Heide, N Germany (Wulfert, 1961); All over the Netherlands (Dresscher, 1976); Small river on Rhodos Island, Greece (De Ridder, 1967d); Karelian inland waters, R.F. (Kutikova, 1965); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); In pools, ponds & peat bogs in the Ile-de-France, France (Pourriot, 1970); Pool in the Fontainebleau forest, Ile-de-France, Fr. (Pourriot, 1976); Peat bogs in the Paris suburb, France (Pourriot, 1965); In reed borders of the Danube delta, Romania (Rudescu, 1968); Leżna-Włodawa Lake District, E Poland (Kowalczyk & Radwan, 1982); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Hamburg area, Germany (Rühmann, 1961); Middle course of river Loire, France (Lair & Sargos, 1981); Fens in Genk, Belgium (Schepens, 1960); Pool, S of Trondheim, Norway (Thomasson, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); All over Spain (Velasco, 1990)

- Nearctic region: Walker Lake & Stoneman Lake, Arizona, USA (Green, 1986); Lake Jasper, W North America (Thomasson, 1962); Brainard Lake, N Colorado, USA (Thomasson, 1964b); Lake Ontario, Canada (Nauwerck, 1978); Columbia Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Colorado, USA (Turner, 1988); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Kingston, Ontario, Canada (Nogrady, 1989); Hayden's Lake, Colorado, USA (Pennak, 1966); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Greens Lake, Beaver Island, Michigan, USA (Foran & King, 1982); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Long Lake, Washington, USA (Saltero *et al.*, 1975)

- Oriental region: River Yamuna, India (Rai, 1974); India (Sharma & Michael, 1980); Swamp near Menggala, Sumatra (Bērziņš, 1982a); Taiwan, Indonesia & India (Sudzuki, 1989); Dal Lake, Kashmir Himalayan Lake, UP, India (Vass & Zutshi, 1983)

- Australian region: In many localities in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); NSW & Qld, Aust. (Shiel & Koste, 1979); NW Australia : Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Widespread, not yet recorded from S Aust. & W Aust. Common (Shiel & Koste, 1992); Mt. Cook & Westland, New Zealand; Chatham Islands (Russell, 1960); New Zealand (Olivier, 1965)

- Neotropical region: ? River Parana, Argentina (Paggi & José de Paggi, 1974); Chile, Argentina, Paraguay, Venezuela & Panama (Koste & José de Paggi, 1982); Rapel reservoir, C Chile (Soto *et al.*, 1984); Chilean lakes (Schmid-Araya, 1991); Prov. Tierra del Fuego, Santa Cruz, Chubut, Rio Negro, Salta, Chaco & Santa Fé, Argentina (José de Paggi, 1990); Prov. Rio Negro, Santa Cruz & Tierra del Fuego, Argentina; Paraguay (Olivier, 1965); Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Ecuador : Oriente, Sierra & Costa (Koste & Böttger, 1992)

Trichocerca longistyla (Olofsson, 1918)

- Palaearctic region: Lake Donk, Overmere, Belgium (Coussement, 1976); N Swedish Lapland (Pejler, 1962a); N Eur. tundra (Bērziņš, 1978)

Trichocerca lophoessa (Gosse, 1886)

- Palaearctic region: Peat bog Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Serbian section of river Danube (Zivkovic, 1987); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); All over Europe; Caspian area (Bērziņš, 1978); Peat bogs in the Auvergne, France (Francez, 1981); Lac d'Annecy, France (Balvay & Druart, 1992); In reed borders of the Danube delta, Romania (Rudescu, 1968)

- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Lac Echo, Québec, Canada (Nogrady, 1976); Laurentian Great Lakes (Stemberger, 1979); Par pond, S Carolina, USA (Oden, 1979)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989)

- Australian region: Aaieri Beach, New Zealand (Russell, 1960)

- Neotropical region: Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982)

Trichocerca macera (Jennings, 1886)

- Palaearctic region: N Swedish Lapland (Pejler, 1962a); Romania (Rudescu, 1960); Lake Myvatn, Iceland (Adalsteinsson, 1979); Coast of S Finland (Eriksen, 1969); All over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990)

- Australian region: NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); Lake Catani, mountain Buffalo, Aust. (Bērziņš, 1982); Vic & Qld, Aust. (Shiel & Koste, 1985); Rare; NT, Qld & Vic (Shiel & Koste, 1992)

Trichocerca marina (Daday, 1890)

- Palaearctic region: Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Estuary of river Elbe, Germany (Giere, 1968); Lac Léman, Fr./CH (Balvay, 1989); Prov. Drente & Lake Veerse Meer, NL (Dresscher, 1976); Black Sea (Rudescu, 1961); In an inland sea of Japan, around Kasada Island (Sudzuki, 1967a & 1976b); Spain : Pontevedra & Valencia (Velasco, 1990); Romania (Rudescu, 1960); In meso- & polyhaline parts of Lake Veerse Meer, NL (Bakker & De Pauw, 1975); Lake Palaeostomi, Georgia, R.F. (Haberman, 1982; Haberman & Laugaste, 1982); Sea & brackish waters in Norway (Eriksen, 1968); Coast of S Finland (Eriksen, 1969); Lake Cullera, near Valencia, Spain (Miracle & Vicente, 1893); N part of Caspian Sea & Lake Aral (Mordukhai-Boltovskoi, 1979); Almost all over Europe; Caucasus (Bērziņš, 1978); Rügener, Hiddenseer & Darszer Boddengewässer, Germany (Schwarz, 1963); Baltic Sea, Belt Sea, Skagerak, N & S North Sea, English Channel W, Bristol Channel & Irish Sea, S & W Ireland, NE Atlantic, Faroe-Shetland area, Faroe-Iceland area, Barentz Sea; Gulf of Riga, Gulf of Finland; Norwegian Sea (Bērziņš, 1960); North Sea in face of Nieuwpoort, Belgium (De Ridder, 1986); River Elbe estuary, Germany (Schulz, 1961); Akkeshi Bay, E District of Hokkaido, Japan (Hada, 1972)

- Nearctic region: St. Andrews Bay system, Florida, USA (Hopkins, 1966); Chesapeake Bay, Potomac river, USA (Heimbokel *et al.*, 1988); Placentia Bay & Conception Bay, Newfoundland, Canada (Davis, 1986)

- Australian region: Menzies Bay, New Zealand (Russell, 1960)

Trichocerca minuta (Olofsson, 1918)

- Palaearctic region: Prov. Zuid-Limburg, NL (Dresscher, 1976); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1975); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989c & 1989d); C Eur. plain, Iceland, Fennoscandia (Bērziņš, 1978); W & N Iceland (De Ridder, 1969b, 1970 & 1972)

- Nearctic region: Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965)

Trichocerca mollis Edmondson, 1936

- Palaearctic region: Coast of S Finland (Eriksen, 1969); C Eur. plain, NW Russian taiga (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Trichocerca montana Hauer, 1956

- Palaearctic region: Peat bogs in the Puy-de-Dôme, France (Francez & Pourriot, 1984); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Australian region: NT, Australia (Shiel & Koste, 1986)

- Neotropical region: Crescent Lake, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Brokopondo Lake, Surinam (Leentvaar, 1979); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Trichocerca mucosa (Stokes, 1896)

- Australian region: Early record from Qld, not seen in our material (Shiel & Koste, 1992)

- Neotropical region: Brokopondo Lake, Surinam (Leentvaar, 1979); Amazonia, Brazil (Thomasson, 1971); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b & 1977c); Lago Tefé & Lago Buiuçú, Amazonia, Brazil (Schaden, 1977c)

Trichocerca multicrinis (Kellicott, 1897)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Ontario, Canada (Chengalath, Fernando & Koste, 1971; Chengalath & Fernando, 1973); Lake Michigan & Milwaukee Harbor, USA (Stemberger, 1974); Northern Michigan inland lakes, USA (Stemberger, 1990); Ontario, Canada; Wisconsin & Kentucky, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Illinois river, USA (Brown *et al.*, 1989); Adirondack Lakes, NY State, USA (Siegfried *et al.*, 1984 & 1989); Colorado, USA (Turner, 1988); Acid lakes in Maine, USA (Brett, 1989); Lake Weir, Florida, USA (Beaver & Crisman, 1990); Lake O'Woods, Virginia, USA (Havens & Da Costa, 1987); Miller's Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Long Lake, Washington, USA (Soltero *et al.*, 1975); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland

et al., 1983); Triangle Lake, Portage County, Ohio, USA (Havens, 1989 & 1991); Laurentian Great Lakes (Stemberger, 1979); Clearwater Lake & Swan L., near Sudbury, Ontario, Canada (Yan & Geiling, 1985); Lake Ontario, Canada (Nauwerck, 1978); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Northern Ontario Lakes (Roff & Kwiatkowski, 1977); Dynamite Lake, Vermilion Co, Illinois, USA (Vanni, 1986); Silver Lake, Adirondack mts., NY State, USA (Siegfried, 1991)

- Oriental region: Dal Lake, Kashmir Himalayan Lake, India (Vass & Zutshi, 1983)

- Neotropical region: Panama (Koste & José de Paggi, 1982)

Trichocerca mus Hauer, 1938

- Palaearctic region: Leżna-Włodawa Lake District, E Poland. (Radwan, 1978); Southwest islands of Japan (Sudzuki, 1992)

- Nearctic region: ? Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Singapore & Indonesia (Sudzuki, 1989); Lakes of Sunda Expedition (Serruya & Pollinger, 1984)

- Australian region: Vic, Aust. (Koste & Shiel, 1980c); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NW Aust.: Magela Creek area (Koste, 1981b); NT, Tas & Vic. Rare (Shiel & Koste, 1992)

- Neotropical region: Lago do Macaco, Brazil (Koste, 1989a); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983)

Trichocerca musculus (Hauer, 1935)

- Palaearctic region: Baginice II pond, Poland (Lewkowicz, 1972); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Romania (Rudescu, 1960); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Minorca, Spain (de Manuel, 1990); Achmer Grasmoor, NW Germany (Koste, 1968b); C Eur. mts., Carpathes, C & E Eur. plains, Baltic province, NW Russian taiga (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1970); Peat bogs in the Puy-de-Dôme, France (Francez & Pourriot, 1984); Peat bogs in the Auvergne, France (Francez, 1981); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); River Bistritza & its tributaries, Romania (Miron, 1960); Shores of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Peat bog Poiana Stampei, Bukowina, Romania (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); Erbsville pond, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975)

- Australian region: ? SW Australia (Koste, Shiel & Brock, 1983); NSW & Southwest W Australia (Shiel & Koste, 1985); 2 records : mt. Koxinsko, NSW & Southwest W Australia (Shiel & Koste, 1992)

Trichocerca myersi (Hauer, 1931)

- Palaearctic region: Peat bog Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Etang de Coupe-Gorge, near Rambouillet, Yvelines, France (Pourriot, 1965); Pool, S of Trondheim, Norway (Thomasson, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1987, 1989a & 1989d); Alps, C Eur. mts., Carpathes, C & E Eur. plains (Bērziņš, 1978); Romania (Rudescu, 1960); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Canals in Hran area, CSR (Terek, 1990a); Pelagic zone of Leżna-Włodawa lakes, Poland (Radwan, 1975)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cape Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Acid lakes in Maine, USA (Brett, 1989); Pinehurst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975)

- Oriental region: India (Sharma & Michael, 1980); Malaysia, Indonesia & India (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966)

- Australian region: Tasmania (Koste & Shiel, 1987); NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Jabiluka, N.T.; Lake St. Clair Nat. Park, Tas; Moorabool river, Vic. Rare (Shiel & Koste, 1992); Westland, New Zealand (Russell, 1960)

- Neotropical region: Ecuador : Oriente (Koste & Böttger, 1992); Venezuela (Koste & José de Paggi, 1982); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Amazonia, Brazil (Thomasson, 1971)

Trichocerca nitida Harring, 1914

- Palaearctic region: Leżna & Włodawa lake district, E Poland. (Radwan, 1971)

- Oriental region: ? Nimeta water works, near Baroda, India (Wulfert, 1966); ? Impoundment Kinda, C Burma (Koste & Tobias, 1990); India (Sharma & Michael, 1980; Sudzuki, 1989)

- Neotropical region: Panama (Koste & José de Paggi, 1982); (Collado *et al.*, 1984)

Trichocerca obtusidens (Olofsson, 1918)

- Palaearctic region: C & E Eur. plain (Bērziņš, 1978)

- Neotropical region: Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Trichocerca orca (Murray, 1913)

- Australian region: Müller Glacier, New Zealand (Russell, 1960)

Trichocerca ornata Myers, 1934

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

- Oriental region: Singapore (Sudzuki, 1989)

Trichocerca parva (Manfredi, 1927)

- Palaearctic region: Italy (Bērziņš, 1978)

Trichocerca parvula Carlin, 1939

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); ? Coast of S Finland (Eriksen, 1969); C Eur. mts., Carpathes, C & E Eur. plains, Baltic province, NW Russian taiga (Bērziņš, 1978); Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Achmer Grasmoor, NW Germany (Koste, 1968b); Lapland State Preserve, R.F. (Ghilarov, 1972); Upper part of river Volga delta, R.F. (Chuykov, 1981); Canals in the Hran area, CSR (Terek, 1990c); Peat bogs in the Massif Central, C France (Francez & Pourriot, 1984); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bogs Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Fens (acid water bodies) in the Netherlands (Dresscher, 1976); Lac Léman, Fr./CH (Martin, 1961; Balvay, 1989; Balvay & Laurent, 1981); Lake Constance, Germany (Kiefer, 1968); Thingvellir area, W Iceland (De Ridder, 1967a); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Peat bog Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Pool, S of Trondheim, Norway (Thomasson, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

Trichocerca pediculus Remane, 1949

- Palaearctic region: C Eur. plain & Baltic province (Bērziņš, 1978)

Trichocerca plaka Myers, 1938

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

- Australian region: Lake Mc Gregor, New Zealand (Russell, 1960)

Trichocerca platessa Myers, 1938

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); Acid lakes in Maine, USA (Brett, 1989); Cranberry bog, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Northern Ontario Lakes, Canada (Roff & Kwiatkowski, 1977)

Trichocerca porcellus (Gosse, 1886)

- Palaearctic region: Lake Erken, Sweden (Nauwerck, 1963); Romania (Rudescu, 1960); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lago di Giulianello, Latium, Italy (Bazzanti & Stella, 1977); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundments Saidenbach & Neunzehnhain, G. (Althaus, 1976); Lakes in S Sweden (Arnemo *et al.*, 1968); Lake Bielersee, CH (Baugerter *et al.*, 1980; Berner-Fankhauser, 1986); River Klyas'ma, R.F. (Bogoslawski, 1961); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Lakes in Estonia (Haberman, 1978); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lakes in C Sweden (Pejler, 1964); River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Lago Trasimeno, Italy (Taticchi, 1968); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Peat pits in Finland (Selin & Koskinen, 1988); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1983, 1986 & 1991); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Buchseen, Bodensee (Einsle, 1966); Mindelsee, Bodensee (Einsle, 1967); C Finland (Eloranta, 1982b); Lake Mikolajskie & L. Sniardy, Mazurian lakeland, Poland (Kosicki, 1960); Lac Léman, Fr./CH (Naef & Martin, 1985; Balvay, 1989; Balvay & Laurent, 1989, 1990a & 1990b; Rougier, 1969); Lac de Nantua, Ain, France (Balvay, 1985); Bog pond near Budapest, Hungary (Nogrady, 1962); Lake Zürichsee, CH (Nipkow, 1961); N Swedish Lapland (Pejler, 1962a); Lakes C Sweden (Pejler, 1965); Lago Maggiore, Italy (Tonolli, 1962); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962);

Achmer Grasmoor, NW Germany (Koste, 1968b); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); Lake Mälaren, Sweden (Grönberg, 1975); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); All over Europe, Caucasus, Caspian area, Asia Minor. Cosmopolitan (Bērziņš, 1978); Jordan reservoir, Bohemia, CSR (Mitiska *et al.*, 1962); Lower Silesia, Poland (Pawlowski, 1968, 1970 & 1973); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); W Iceland (De Ridder, 1969b & 1972); Peat bogs in the Puy-de-Dôme, C France (Francez & Pourriot, 1984); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Leżna-Włodawa Lake District, E Poland (Kowalszyk & Radwan, 1982; Radwan, 1984); Japanese inland waters (Yamamoto, 1960a); Lake Constance, Germany (Walz *et al.*, 1987); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Lac Luitel, Isère, France (Joly, 1960); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Anatolia, Turkey (Segers *et al.*, 1992); Nat. Res. Meyendel; Zuid-Limburg; Nat. Res. Oisterwijkse vennen; Nat. Res. Het Hol; Nat. Res. De Gerritsflesch in Kootwijk; Zuid-Willemsvaart near Den Bosch, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Lac d'Annecy (Balvay & Druart, 1992); In reed borders of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Tarn in Värmland, Sweden (Thomasson, 1970); Pool, S of Trondheim, Sweden (Thomasson, 1979); Serbian section of river Danube (Zivkovic, 1987); River Salzach & its tributaries, Austria (Donner, 1970); Dübener Heide, Germany (Wulfert, 1961); Waters in the Szecezecin lagoon, Poland (Wiktor, 1960); Spain : Alicante (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); Impoundment Twistetalsperre, Nordhessen, G. (Meinel *et al.*, 1983)

- Nearctic region: Lake Fernan, Idaho, USA (Buscerni, 1964); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Bay of Quinte, Ontario, Canada (Nogrady, 1988); Lake Michigan & Milwaukee Harbor, USA (Stemberger, 1974); Wisconsin, USA (Bērziņš, 1984); Ross Lake, Florida, USA (Bienert, 1986); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); NE Canada (Chengalath & Koste, 1983); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Pinehurst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Adirondack Lakes, NY State, USA (Siegfried *et al.*, 1984); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Crater L. & Walker L., Arizona, USA (Green, 1986); Silver Lake, Adirondack mts., NY State, USA (Siegfried, 1991)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974)

- Australian region: NW Aust.; Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NSW & Qld, Aust. (Shiel & Koste, 1979); Creek & river in Aust. (Bērziņš, 1982); Swamp near Lake Hayes, S Island, New Zealand (Bērziņš, 1982a); Tasmania (Koste & Shiel, 1987); Lake Elingamite, freshwater Aust. crater lake (Green, 1981); Cosmopolitan. May be pancontinental, not yet known from S & W Australia. Common (Shiel & Koste, 1992); Sidney reservoirs, NSW, Aust. (Thomasson, 1973); Mt. Cook, Canterbury & Westland, New Zeal. (Russell, 1960)

- Neotropical region: Lake Llanquihuc, Chile (Campos *et al.*, 1988); Ecuador : Costa (Koste & Böttger, 1989); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Brazil & Panama (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Chilean lakes (Schmid-Araya, 1991); Lake Todos los Santos, Chile (Campos *et al.*, 1990); Prov. Chubut, Rio Negro & Santa Fé, Argentina (José de Paggi, 1990); Amazonia, Brazil (Thomasson, 1971); Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Trichocerca porcellus (Gosse), f. *major* Hauer, 1935

- Palaearctic region: Lakes in Estonia (Haberman, 1978); Pool, S of Trondheim (Thomasson, 1979)

Trichocerca pusilla (Lauterborn, 1898)

- Palaearctic region: River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Romania (Rudescu, 1960); Loch Leven, Scotland (May, 1983, 1986 & 1987); Lake Nuwasawa, Japan (Sudzuki *et al.*, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990); Slovenia, ex-Yugoslavia (Markic, 1983); Lakes in Estonia (Mäemets, 1983);

C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Priest Pot, Lake District, UK (Hewitt & George, 1987); C Finland (Eloranta, 1982b); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968; Zankai & Ponyi, 1970, 1971a & 1973; Zankai, 1984 & 1989); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a); Lake Taltowisko, Mazurian lakeland, Poland (Klimowicz, 1972); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Mikolajskie & L. Sniardny, Mazurian lakeland, Poland (Kosicki, 1960); Lakes in C Sweden (Pejler, 1965); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Saidenbach, Germany (Althaus, 1976); Oligotrophic Lake Trummen, S Sweden (Andersson *et al.*, 1975); Groszer Müggelsee, Berlin, Germany (Barthelmes, 1960); ? Lake Bielersee, CH (Baugerter *et al.*, 1980); River Klyas'ma, R.F. (Bogoslowski, 1961); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Petén, 1973); Lake Bielersee, CH (Bernier-Fankhauser, 1986); Middle course river Po, Italy (Ferrari *et al.*, 1986); Po river, Italy (Ferrari *et al.*, 1989); Etang de Virelles, Belgium (Moureau *et al.*, 1988); Grasmere Lake, Lake District, UK (Elliott, 1977); Spanish reservoirs (Guiset, 1977); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); Moerdijk-Hollands Diep, NL (Leentvaar, 1980); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lac Léman, Fr./CH (Balvay & Laurent, 1981, 1989, 1990a & 1990b); Canal of river Odra, Poland (Klimowicz, 1979); River Loire, France (Lair *et al.*, 1978; Lair, 1980); Koyame-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Minorca, Spain (de Manuel, 1990); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Mälaren, Sweden (Grönberg, 1975; Blomquist & Pejler, 1980); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); River Elbe near Hamburg, Germany (Caspers & Schulz, 1964); "Grote vijver", fort 8, Hoboken (Antwerp), B. (De Smet *et al.*, 1986); Moat of fort Merkssem, Antwerp, Belgium (De Smet *et al.*, 1987); All over Europe, Caspian area, Asia Minor. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960 & 1970); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Yugoslavian section of the Danube river (Zivkovic, 1968); Lake Balaton, Hungary (Zankai & Ponyi, 1972); Leżna-Włodawa Lake District, E Poland (Radwan, 1984); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area; lower Austria (Naidenow & Wawrik, 1984); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lake Gjersjoen, SE Norway (Hessen & Nilssen, 1985); Anatolia, Turkey (Segers *et al.*, 1992); All over the Netherlands (Dresscher, 1976); Lakes in the Leżna-Włodawa area, E Poland (Radwan, 1976); Hamburg area, Germany (Rühmann, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Middle course of river Po, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds in the Paris suburb, France (Pourriot, 1965); Aegean lakes, Macedonia, ex-Yugoslavia-Greece (Serafimova-Hadzisce, 1974); Tarn in Värmland, Sweden (Thomasson, 1970); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Lake Biwa, Japan (Yamamoto, 1967); Spain : Barcelona, Huesca (?), Valencia, Vizcaya (Velasco, 1990); Gravel pits along river Meuse, NL (Wibaut-Isebree Moens, 1964); Rybnik dam reservoir, Poland (Krzanowski, 1979); Lake Lauerzersee, CH (Odermatt, 1970); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); In the lower Danube in Romania (Enaceanu, 1964); Mouth areas of the Danube branches, Rom. & predeltaic area of the Black Sea (Popescu-Marinescu, 1974); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lakes in C Sweden (Pejler, 1964); In reed borders of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Ponds in Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Parczew area peat bogs, Poland (Radwan, 1974)

- Nearctic region: San Francisco, USA (Nogrady, 1983); Lake Ontario, Canada (Nauwerck, 1978); Arctic N America (Chengalath & Koste, 1989); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Canada (Chengalath, 1977); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Lakes Adirondack, NY State, USA (Siegfried *et al.*, 1984 & 1989); Northern Michigan inland lakes (Stemberger, 1990); Lakes in Santée, California, USA (Nogrady, 1982); Laurentian Great Lakes (Stemberger, 1979); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965)

- Oriental region: Bangkok, Thailand (De Ridder, 1971); Thailand, Malaysia & Singapore (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Delhi, India (Sarma, 1988); Singapore. Cosmopolitan (Sudzuki, 1991); Thailand (Boonsom, 1984b); Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: SW Australia (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); River

Yarra, Aust. (Bērziņš, 1982); W Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); E Aust. (Koste & Shiel, 1980b); Pancontinental, common in billabongs (Shiel & Koste, 1992)

- Neotropical region: Brokopondo Lake, Surinam (Leentvaar, 1979); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Brazil, Chile, Antilles, Venezuela, Surinam & Panama (Koste & José de Paggi, 1982); Ecuador : Oriente & Costa (Koste & Böttger, 1989); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Chilean lakes (Schmid-Araya, 1991); Prov. Neuquen, Argentina (José de Paggi, 1990); Caribbean Islands (Collado *et al.*, 1984); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992); Lago de Valencia, Venezuela (De Infante, 1980 & 1982; Saunders & Lewis, 1988); Antilles françaises (Pourriot, 1975); Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Rio Tocantins, Lago Jurucui & Lago Moratu, Amazonia, Brazil (Schaden, 1977c); Lake Cocibolca, L. Masaya & L. Tiscapa, Nicaragua (Moreno *et al.*, 1992)

Trichocerca pusilla (Lauterborn), f. *grandis* Koste, 1989

- Neotropical region: Lago de Macaco, Brazil (Koste, 1989a)

Trichocerca pygocera (Wiszniewski, 1932)

- Palaearctic region: Italy, C & E Eur. plains (Bērziņš, 1978)

Trichocerca rattus (O.F. Müller, 1776)

- Palaearctic region: Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Alpine lakes Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lago di Giulianello, Latium, Italy (Bazzanti & Stella, 1977); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogoslawski, 1961); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968; Zankai & Ponyi, 1971a); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1971); Lakes in Estonia (Haberman, 1978); Sea, brackish & freshwater pools in S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); Lake Vörtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Slovenia, ex-Yugoslavia (Markic, 1983); Sierra Nevada, Spain (Morales-Baquero, 1987); District Ostrava, CSR (Dvorakova, 1960b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Man-made Lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Near Asperg, Württemberg, Germany (Klement, 1960); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Alkal. Péteri-See, Hungary (Kertesz, 1960); Broads & Peat pits in NW Overijssel, NL (Schroevers, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); All over Europe, Caucasus, Caspian area, Asia Minor. Cosmopolitan (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); Inundation area of Danube delta, Romania (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Camargue, S France (De Ridder, 1960a & 1961); N, W & C Iceland (De Ridder, 1966a, 1969b, 1970 & 1972); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Lake Neusiedlersee, Austria (Donner, 1979); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); Brugge & Welle, Belgium (De Ridder, 1986); Lake Constance, Germany (Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); Peat bogs in the Auvergne, France (Francez, 1981); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Lakes N of Bucarest, Romania (Godeanu, 1969b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Temporary waters, small permanent ponds & marshy zones in the Bucegi mts., Romania (Godeanu, 1969a); Nat. Res. Wellemeersen, Belgium (Dumont *et al.*, 1975); Near water works at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Pond in the "Forêt de Sénart", near Paris, France (Chément, 1975); Anatolia, Turkey (Segers *et al.*, 1992); All over the Netherlands (Dresscher, 1976); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Lake Victoria, Oltena area, Romania (Marx *et al.*, 1967); Luga district of the

Leningrad area, R.F. (Kutikova, 1962b); In many acid & alkaline waters of the Ile-de-France, France (Pourriot, 1970); Black Sea (Rudescu, 1961); In reed borders of the Danube delta, Romania (Rudescu, 1968); ? Shores of dammed and free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Ponds in Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Lake Chenhu, Changjiang basin, China (Wu, 1992); Hamburg area, Germany (Rühmann, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in the Paris suburb, France (Pourriot, 1965); Ponds in the Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Periphytic biota in sewages & park waters, Japan (Sudzuki, 1981); Spain : Granada, Madrid, Orense, Oviedo & Valencia (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Colorado, USA (Turner, 1988); Bay of Quinte, Ontario, Canada (Nogrady, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Parvin Lake, Colorado (Pennak, 1966); Kentucky, USA (Bērziņš, 1984); Laurel Creek reservoir, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969 & 1980a); Kalimantan (Borneo), Indonesia (Koste, 1988a); India (Sharma & Michael, 1980); Philippines (Mamaril & Fernando, 1978); Malaysia, Sri Lanka, India & Philippines (Sudzuki, 1989); Sri Lanka. Common in lakes & ponds (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985); W Bengal, NE India (Sharma, 1979b); Lake Manguao, Palawan, the Philippines (Davies & Green, 1990); Nimeta water works, near Baroda, India (Wulfert, 1966)

- Australian region: River & Creek in Australia (Bērziņš, 1982); NSW, Qld & Vic, Aust. (Shiel & Koste, 1979); Tasmania (Koste & Shiel, 1987); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Common, widespread in Australia & Tasmania (Shiel & Koste, 1992); Pukeran & Christchurch, New Zealand (Russell, 1960)

- Neotropical region: Ecuador : Oriente & Costa (Koste & Böttger, 1989 & 1992); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b); Antilles françaises (Pourriot, 1975); Venezuela, Brazil, Argentina, Antilles, Panama (Koste & José de Paggi, 1982); Varzea near Santarem, Brazil (Koste, 1974b); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Galapagos Islands (De Smet, 1987 & 1989); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1985 & 1987a); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); ? River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Provinces in NW Argentina (José de Paggi, 1989); Prov. Rio Negro, Tucuman, Santiago del Estero, Chaco, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Caribbean Islands (Collado *et al.*, 1984); ? Brokopondo Lake, Surinam (Leentvaar, 1979); Lower course of river Uruguay, Argentina (Di Persia & Neiff, 1986); River Parana, Brazil (Bonetto, 1986); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Trichocerca rattus (O.F. Müller), f. *carinata* (Ehrenberg, 1830)

- Palaearctic region: 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lago Trasimeno, Italy (Taticchi, 1968); Spain : Menorca (Balears) (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Romania (Rudescu, 1960); River Klyas'ma, R.F. (Bogoslowski, 1961); Coast of S Finland (Eriksen, 1969); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Near Asperg, Württemberg, Germany (Klement, 1960); Lake Palaeostomi, Georgia, R.F. (Haberland & Laugaste, 1982); N Swedish Lapland (Pejler, 1962a); Minorca, Spain (de Manuel, 1990); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); All over Europe, Caucasus, Caspian area (Bērziņš, 1978); Moat of fort Merksem, Antwerp, Belgium (De Smet *et al.*, 1987); Impoundments in E Bohemia, CSR (Sladeczkowa & Sladeczek, 1960); Lake Donk, Overmere, Belgium (Dumont, 1968b); Canal Leeds-Liverpool, UK (Galliford, 1960b); Knowsley Park, Liverpool, UK (Galliford, 1964); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Anatolia, Turkey (Segers *et al.*, 1992); River Bistritza & its tributaries, Romania (Miron, 1960); S Vecht lakes & Old branch cut off r. Waal; lakes W & E of Amsterdam; peat holes in NW Overijssel; dune lakes on Island of Vorne, NL (Dresscher, 1976); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the

Leningrad area, R.F. (Kutikova, 1962b); Pool in Fontainebleau Forest, Ile-de-France, France (Pourriot, 1976); Parczew area peat bogs, Poland (Radwan, 1974); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990)

- Nearctic region: Kingston, Ontario, Canada (Nogrady, 1989); NE Canada (Chengalath & Koste, 1983); Stoneman Lake, Arizona, USA (Green, 1986)

- Oriental region: Singapore (Sudzuki, 1989); Sri Lanka (Mendis & Fernando, 1962); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974)

- Australian region: Lake Euramo, tropical Queensland crater lake (Green, 1981); 2 Creeks in Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1979 & 1985); Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Lake Ellesmere, New Zealand (Russell, 1960)

- Neotropical region: Paraguay (Koste & José de Paggi, 1982); Lake Coca-Cola, near Rio de Janeiro, Brazil (Turner, 1990); Chilean lakes (Schmid-Araya, 1991)

Trichocerca rattus (O.F. Müller), f. *globosa* Dartnall & Hollowday, 1985

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

Trichocerca rattus (O.F. Müller), f. *minor* Fadeev, 1925

- Palaearctic region: Carpathes, C & E Eur. plains (Bērziņš, 1978); Anatolia, Turkey (Segers *et al.*, 1992); In reed borders of the Danube delta, Romania (Rudescu, 1968); Serbian section of river Danube (Zivkovic, 1987)

Trichocerca relicta Donner, 1950

- Palaearctic region: Romania (Rudescu, 1960); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Sierra Nevada, Spain (Morales-Baquero, 1987); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); ? Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Alps, C Eur. mts., Pontic province, C Eur. plain & Baltic province (Bērziņš, 1978); Anatolia, Turkey (Segers *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1961); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Spain : Granada (Velasco, 1990)

- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Northern Michigan inland lakes (Stemberger, 1990); Cranberry bog, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975)

- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989); Santa Cruz, Galapagos Islands (Segers, 1991a)

Trichocerca ripli Bērziņš, 1973

- Australian region: New Zealand (Bērziņš, 1973)

Trichocerca rosea (Stenroos, 1898)

- Palaearctic region: Small lakes in Estonia (Haberman & Mäemets, 1987); Romania (Rudescu, 1960); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets, A. & A., *s.d.*); Small water bodies in Soviet Karelia, R.F. (Filimonova, 1976); C Eur. mts., Carpathes, C & E Eur. plains, Baltic province, N Sweden, NW Russian taiga (Bērziņš, 1978); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); *Ibid.* + Maria-Helenapeel, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Pelagic zone of the Leżna-Włodawa lakes, P. (Radwan, 1975); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Little Swede n° 1 lake, Colorado, USA (Pennak, 1966); Colorado, USA (Turner, 1988); N America (Bērziņš, 1978); Northern Michigan inland lakes (Stemberger, 1990); ? Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

- Australian region: S Tasmania (Koste, Shiel & Tan, 1988); Single record from Tas. (Shiel & Koste, 1992); Westland, New Zealand (Russell, 1960)

- Neotropical region: Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Ecuador : Oriente (Koste & Böttger, 1992)

Trichocerca rotundata Myers, 1937

- Palaearctic region: ? Afghanistan (Bērziņš, 1961)

- Nearctic region: Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

Trichocerca rousseleti (Voigt, 1902)

- Palaearctic region: River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Lakes in C Sweden (Pejler, 1964); Pelagic zone of the Leżna-Włodawa lakes, P. (Radwan, 1975); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Spain : Lerida (Velasco, 1990); Romania (Rudescu, 1960); Lake Vico, C Italy (Ferrari, 1972); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Lake Balaton, Hungary (Zankai & Ponyi, 1970 & 1971a; Zankai, 1989); Lago Maggiore, Italy (Tonolli, 1962; Goldman *et al.*,

1968); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Stechlinsee & L. Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); Impoundment Kninicki, CSR (Kubicek, 1964); Lakes in C Sweden (Pejler, 1965); Lake Sempachersee, CH (Zimmermann, 1974); Darnsee near Epe, NW Germany (Koste, 1962); Lake Mälaren, Sweden (Grönberg, 1975); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lac Léman, Fr./CH (Martin, 1961; Naef & Martin, 1985; Balvay, 1989; Balvay & Laurent, 1981, 1989, 1990a & 1990b); Karelian inland waters, R.F. (Kutikova, 1965); Lac de Nantua, Ain, France (Balvay, 1985); Lake Kinselmeer, Amsterdam; Lake Barlosche Kolk near Wijlre, Drente; Lake Ysselmeer, NL (Dresscher, 1978); Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); Lake Zürichsee, CH (Nipkov, 1961); All over Europe (Bērziņš, 1978); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Saidenbach, Erzgebirge, Germany (Beuschold, 1961; Rudolf, 1966); Lakes in S Sweden (Arnemo *et al.*, 1968); Small lakes in Estonia (Haberman & Mäemets, 1987); Lake Bielersee, CH (Bernier-Fankhauser, 1986 & 1987); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Lake Krasnoye, Karelian isthmus, R.F. (Alexandrov & Kutikova, 1985); Near Lappeenranta, Finland (Järnefelt, 1961); Leżna-Włodawa Lakes district, Poland (Radwan, 1984); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Vlimmeren, Belgium (De Ridder, 1986); Lake Constance, Germany (Kiefer, 1968; Walz *et al.*, 1987); Lake Lauerzersee, CH (Odermatt, 1970)

- Nearctic region: N America (Bērziņš, 1978); Lake 382, exper. lake area, NW Ontario, Canada (Malley & Chang, 1991); Canada (Chengalath, 1977); Lake Michigan & Milwaukee Harbor, USA (Stemberger, 1974); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Wisconsin, Kentucky & Illinois, USA (Bērziņš, 1984); Arctic N America (Chengalath & Koste, 1989); Lake Oglethorpe, NE Georgia, USA (Pace & Orcutt, 1981; Orcutt & Pace, 1984); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Singletary Lake, N Carolina, USA (Thomasson, 1963a); ? Lake 122, NW Ontario, Canada (Schindler & Novén, 1971)

- Oriental region: Indonesia (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a)

- Australian region: S Australia (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); Creek & river in Aust. (Bērziņš, 1982); Rare, in our collections invariably associated with flowing waters - Darling (NSW), Goulburn (Vic), Murray (SA) - with *Melosira* - blooms (Shiel & Koste, 1992); Rio Negro, Amazonia, Brazil (Schaden, 1977c)

Trichocerca rutneri (Donner, 1953)

- Palaearctic region: Serbian section of river Danube (Zivkovic, 1987); ? Impoundment in Spain (Velasco, 1990); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C Eur. mts. & Hungarian plain (Bērziņš, 1978); Austria (Koste, 1972f); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Lake Neusiedlersee, Austria (Donner, 1979); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

- Nearctic region: Canada (Chengalath, 1977); Pinehurst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975)

- Oriental region: Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966); Punjab State, NW India (Sharma, 1976); India (Koste, 1972f; Sharma & Michael, 1980); Taiwan (Sudzuki, 1988); Taiwan & India (Sudzuki, 1989); Sumatra (Koste, 1972f); Ajwa reservoir, near Baroda, Gujarat, India (Jayangaudar, 1980); Lake Manguao, Palawan, the Philippines (Davies & Green, 1990)

- Australian region: Qld, Aust. (Shiel & Koste, 1985); Known only from dams near Chillagoe, Qld (Shiel & Koste, 1992)

- Neotropical region: Chile (Löffler, 1962); Lago Jurucui, Amazonia, Brazil (Schaden, 1977c); Lago Rondon, Amazonia, Brazil (Serruya & Pollinger, 1984); Araucarian lakes, W of the Andes (Thomasson, 1963b); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Brazil (Koste, 1972f); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Brazil, Chile & Honduras, Venezuela (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Lake Escondido, prov. Rio Negro, Argentina (Balseiro & Modenutti, 1990); Prov. Chubut, Argentina (José de Paggi, 1990); Lago de Valencia, Venezuela (De Infante, 1980)

Trichocerca scipio Gosse, 1886

- Palaearctic region: Coast of S Finland (Eriksen, 1969); Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); N Swedish Lapland (Pejler, 1962a); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Almost all over Europe (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Karelian inland waters, R.F. (Kutikova, 1965); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Lipowy pond, Poland (Lewkowicz, 1972)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969)
- Australian region: S Tasmania (Koste, Shiel & Tan, 1988); Recorded from 3 localities in Tasmania (Shiel & Koste, 1992); Mt. Cook, New Zealand & Campbell Island (Russell, 1960)
- Neotropical region: Ecuador : Oriente (Koste & Böttger, 1989); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990)

***Trichocerca sejunctipes* (Gosse, 1886)**

- Palaearctic region: Coast of S Finland (Eriksen, 1969); Peat bogs in the Massif Central, France (Batut, 1965); Romania (Rudescu, 1960); All over Europe (Bērziņš, 1978); River Bistritza & its tributaries, Romania (Miron, 1960); Prov. Zuid-Limburg, NL (Dresscher, 1976); Sinaia, S Carpathes, Romania (Rodewald-Rudescu & Godeanu, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

***Trichocerca similis* (Wiersejski, 1893)**

- Palaearctic region: Romania (Rudescu, 1960); Impoundment on river Guadiana, C Spain (Armengol, 1982); Small lakes in Estonia (Haberman & Mäemets, 1987); Lake Bielersee, CH (Berner-Fankhauser, 1986); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Po river, Italy (Ferrari *et al.*, 1989); River Ybbarpsån, Sweden (Bērziņš, 1979); Grasmere Lake, Lake District, UK (Elliott, 1977); Banyoles Lake, NE Spain (Miracle & Vicente, 1983; Miracle, 1974 & 1977); Lakes in Estonia (Haberman, 1978; Mäemets, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pjeler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie & L. Taltowisko, Poland (Klimowicz, 1972); Nat. Res. Neeruti Lakes, Estonia (Mäemets A. & A., *s.d.*); Lakes in C Sweden (Pejler, 1964 & 1965); Lac Léman, Fr./CH (Balvay, 1989; Balvay & Laurent, 1981,; 1989, 1990a & 1990b); Loch Rusky, Scotland (Romo, 1990); Volga river, R.F. (V'yushkova & Lakhnova, 1974; Mordukhai-Boltovskoi, 1979); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); ? Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Etang du Brochet, Rambouillet, France (Pourriot *et al.*, 1969); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Quéntar reservoir, Sierra Nevada, near Granada, Spain (Leighton, 1981); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Lacuisine, Belgium (De Maeseneer, 1979; De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Knowsley Park, Liverpool, UK (Galliford, 1964); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Oisterwijkse vennen, NL (De Graaf, 1960); New impoundments in the CSR (Kubicek, 1968); Side-arm of river Danube near Bratislava, CSR (Lichardova, 1964); Anatolia, Turkey (Segers *et al.*, 1992); Shores of dammed or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Lake Barlosche Kolk, near Wylre, Drente; Nat. Res. de Oisterwijkse vennen; Lake de Venematen; Maria- & Helenapeel; pool "Vechten" near Utrecht, NL (Dresscher, 1976); Lac d'Annecy, France (Balvay & Druart, 1992); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Gemünderer Maar, Weinfelder Maar & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); ? Lago Trasimeno, Italy (Taticchi, 1968); Ponds in the Paris suburb, France (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Serbian section of river Danube (Zivkovic, 1987); Spain : Badajos, Cuenca, Gerona, Huelva, León & Sevilla (Velasco, 1990); C Eur. mts. Carpathes, C & E Eur. plains, Baltic prov., Ireland, UK, N Sweden, NW Russian taiga (Bērziņš, 1978); "Grote vijver", fort 8, Hoboken (Antwerp), B. (De Smet *et al.*, 1986); "Kleine vijver", fort 8, Hoboken (Antwerp), B. (De Smet *et al.*, 1989); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); Leżna & Wlodawa Lake district, E Poland (Kowalczyk & Radwan, 1982); (Radwan, 1984); Lake Aydat & L. Bourdouze, Puy-de-Dôme, Fr. (Persoone *et al.*, 1968)
- Nearctic region: Crater Lake, Arizona, USA (Green, 1986); Singleton Lake, N Carolina, USA (Thomasson, 1963a); Massey Lake, 16 km of Beaumont, Texas, USA (Marsh *et al.*, 1978); Acid lakes in Maine, USA (Brett, 1989); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Everglades Nat Park, Florida, USA (Nogrady, 1983); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Star Lake, Norwich, Vermont, USA (Gilbert, 1989b); Colorado, USA (Turner, 1988); Lake Brooker, Florida, USA (Scheda & Cowell, 1988); Illinois river, USA (Brown *et al.*, 1989); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Changalath, 1977); Acton Lake, SW Ohio, USA (Chimney *et al.*, 1981); Standley Lake, Colorado, USA

(Pennak, 1966); Ross Lake, Florida, USA (Bienert, 1986); Northern Michigan inland lakes (Stemberger, 1990); Desaulniers reservoir, Québec, Canada (Pinel-Alloul, 1982); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida, USA (Dawes *et al.*, 1987); Cottonwood pond, Colorado, USA (Herrmann, 1977); Adirondack Lakes, NY State, USA (Siegfried *et al.*, 1984); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983)

- Oriental region: Kashmir valley & high mountains of Kashmir Himalaya (Zutshi *et al.*, 1980); India (Sharma & Michael, 1980); Parakrama Samudra reservoir, Sri Lanka (Duncan & Gulati, 1983); Lake Parakrama, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1980a); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Singapore (Karunakaran & Johnson, 1978); Rajasthan, India (Nayar, 1968); Kalimantan (Borneo), Indonesia (Koste, 1988a); Taiwan, Malaysia, Singapore, Indonesia, Sri Lanka & India (Sudzuki, 1989); Punjab State, India (Sharma, 1976; Sharma & Sharma, 1984); Phewa Tal, Pokhara valley, Nepal (Daems & Dumont, 1974); Sri Lanka. Common in ponds & lakes. The commonest species of *Trichocerca* in Sri Lanka (Chengalath, Fernando & Koste, 1973); Singapore & Taiwan. Cosmopolitan (Sudzuki, 1991); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981; Duncan, 1983a; Fernando & Rajapaksa, 1983); Reservoir Samudra, Sri Lanka (Duncan, 1984); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Ajwa reservoir, near Baroda, Gujarat, India (Jayangaudar, 1980); Impoundment Kinda, C Burma (Koste & Tobias, 1990); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985); Jammu (J & K), India (Jyoti & Sehgal, 1980); Lake Surinsar, Jammu (J & K), India (Jyoti & Sehgal, 1979); West Bengal, NE India (Sharma, 1979b); ? Storage reservoir Ajwa & Nimeta water works, Baroda, India (Wulfert, 1966)

- Australian region: River Murray, Aust. (Koste, 1979b); Billabongs Magela Creek, NW Aust. (Shiel & Koste, 1983); SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); Lake Barrine & L. Euramo, tropical Queensland crater lakes (Green, 1981); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Qld, Vic & NSW, Aust. (Shiel & Koste, 1979); Sheepwash billabongs, near Molesworth, Vic, Aust. (Shiel, 1983); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); River Murray at Mannum, S Aust. (Koste, 1980); S Tasmania (Koste, Shiel & Tan, 1988); Rivers, billabongs & reservoirs of the Murray-Darling system, Aust. (Shiel, 1986); E Australia (Koste & Shiel, 1980b); Tasmania (Shiel, Koste & Tan, 1989); NW Aust.: Magela Creek area (Koste, 1981b); Billabongs of r.Murray floodplain, NSW, Aust. Particular common in humic acid waters in W Tasmania. Most common *Trichocerca* in Australian waters (Hillman & Shiel, 1991); Lake Alexandrina, New Zealand (Russell, 1960)

- Neotropical region: Embalse Rio Tercero Fish Culture Station, Cordoba province, Argentina (Marinone & Zagarese, 1991); Lago Tefé & L. Castanho, Amazonia, Brazil (Schaden, 1977c); Lago Castanho, L. Redondo, L. Jacaretinga, L. Cristalino & L. Taruma-Mirrim, Brazil (Serruya & Pollinger, 1984); Lake Redondo, L. Jacaretinga & L. Cristalino, Amazonia Central, Brazil (Hardy, 1980); Ecuador : Costa & Sierra (Koste & Böttger, 1989); Ecuador : Oriente, Sierra & Costa (Koste & Böttger, 1992); Lake Rio Claro, a floodplain lake of the lower Orinoco, Venezuela (Vasquez & Medina, 1991); Lago do Macaco, Brazil (Koste, 1989a); Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Koste, 1972f); Antilles, Argentina, Brazil, Panama, Paraguay, Surinam & Venezuela (Koste & José de Paggi, 1982); Rio Yatapu & Rio Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Galapagos Islands (De Smet, 1987 & 1989); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Surinam (Leentvaar, 1975); Lake Llanquihuc, Chile (Campos *et al.*, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Lake Hemmen, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); ? Argentine Patagonia (Kuczynski, 1987b); Lake Escondido, prov. Rio Negro, Argentina (Balseiro & Modenutti, 1990); All over Argentina (José de Paggi, 1990); Curaçao, Caribbean Islands & Costa Rica (Collado *et al.*, 1984); Aruba (Caribbean part of the Neotropis) (De Ridder, 1977); Lago Orsinera, Orinoco floodplain lake, Venezuela (Vasquez & Rey, 1992); River Parana, Brazil (Bonetto, 1986); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Antilles françaises (Pourriot, 1975); Araucarian lakes, W & E of the Andes, + ponds & pools in the same region, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b)

Trichocerca similis (Wierzejski), f. *binocolata* Hauer, 1965

- Neotropical region: Amazonia, Brazil (Hauer, 1965b); Brazil (Koste & José de Paggi, 1982)

Trichocerca similis (Wierzejski), f. *grandis* Hauer, 1965

- Australian region: Vic, Australia (Koste & Shiel, 1980c); S Tasmania; NSW, S Aust. & Vic, Aust. (Koste, Shiel & Tan, 1988); This large form is presently regarded as a ssp., *Tr. similis grandis* Hauer, 1965. It is

distinguished by larger, more elongated body and rel. shorter toes than the typical form. Common in Murray-Darling reservoirs (Shiel & Koste, 1992)

- Neotropical region: Rio Yatapu & Rio Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Prov. Corrientes, Argentina (José de Paggi, 1990); Pond in tropical rain forest, Peru (Schlüter, 1984); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Lago do Passarinho, L. Jurucui, L. Moratu, L. Tefé, Rio Negro, Lago do Castanho, L. Buiucu, Amazonia, Brazil (Schaden, 1977c)

***Trichocerca simonei* De Smet**

- Neotropical region: Santa Cruz, Galapagos Islands (Segers, 1991a); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

***Trichocerca stenroosi* Haberman, 1978**

- Palaearctic region: Lakes in Estonia (Haberman, 1978)

***Trichocerca stylata* (Gosse, 1851)**

- Palaearctic region: Karstic Lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Romania (Rudescu, 1960); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968; Zankai & Ponyi, 1970 & 1971a); All over Europe; Caucasus, Caspian area. Cosmopolitan (Bērziņš, 1978); River Klyas'ma, R.F. (Bogoslawski, 1961); Lake Kinneret, Israel (Serruya & Pollingher, 1984); (Landau *et al.*, 1988); Impoundment "Eisernes Tor", Danube, Romania (Brezeanu & Petén, 1973); Coast of S Finland (Eriksen, 1969); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Lakes in Estonia (Mäemets, 1983); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Inundation area of Danube delta, Romania (Dorobantu, 1964); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Lac Aydat, Massif Central, France (Persoone *et al.*, 1968; Lair, 1978); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); In 5 localities in Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of river Odra, Poland (Klimowicz, 1979); Small water bodies in the Mikolajski area, P. (Klimowicz, 1967); Rhine waters near Wiesbaden, Germany (Noll, 1972); Lac Léman, Fr./CH (Martin, 1961); Forêt de Sénard, near Paris, France (Ansellem & Clément, 1988); Lake Tüzer See, Neubrandenburg, Germany (Doll, 1964); Lake at Wijk-bij-Duurstede; Zuidelijke Vechtplassen; Kil van Hurwenen; area between Linge & Rhine, id. between Linge & Waal; Loosdrecht Lakes, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Lac d'Annecy, France (Balvay & Druart, 1992); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Hamburg area, Germany (Rühmann, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Middle course river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in the Paris suburb, France (Pourriot, 1965); Aegean lakes, Macedonia, ex-Yugoslavia-Greece (Serafimova-Hadzisce, 1974); Serbian section of river Danube (Zivkovic, 1987); Spain : Barcelona (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Colorado, USA (Turner, 1988); Laurentian Great Lakes (Stemberger, 1979); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965)

- Oriental region: Tjigombong (Serruya & Pollingher, 1984); Rajasthan, India (Nayar, 1968); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Indonesia, Sri Lanka, India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); India (Sharma & Michael, 1980); Lake Parakrama, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1980a); Sri Lanka. Fairly common. Found in lakes & ponds (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983)

- Australian region: Vic, Australia (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Rivers, billabongs & reservoirs of the Murray-Darling system, Aust. (Shiel, 1986); Rare; Qld, Tas & Vic (Shiel & Koste, 1992); Lake Alexandrina, New Zealand (Russell, 1960)

- Neotropical region: Chile (Löffler, 1962); Lago Buiucu, Amazonia, Brazil (Schaden, 1977c); Mato Grosso, C Brazil (Turner & Da Silva, 1992); Prov. Buenos Aires & Tierra del Fuego, Arg.; Brazil (Olivier, 1965);

Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b); Chilean lakes (Schmid-Araya, 1991); River Parana, Argentina (Paggi & José de Paggi, 1974); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Amazonia, Brazil (Hauer, 1965a; Thomasson, 1971; Koste, 1972f); Brazil, Argentina, Chile, Venezuela & Panama (Koste & José de Paggi, 1982); Rio Yatapu, Amazonia, Brazil (Koste & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Tierra del Fuego, Chubut, Rio Negro, Neuquen, Corrientes, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Panama (Collado *et al.*, 1984); Lago de Valencia, Venezuela (De Infante, 1980; Saunders & Lewis, 1988)

Trichocerca sulcata (Jennings, 1894)

- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Brook in Lao-Shan mountains, China (Wulfert, 1968); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lakes in S Sweden (Arnemo *et al.*, 1968); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Almost all over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1960 & 1970); Lake Balaton, Hungary (Zankai, 1968); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); In reed border of the Danube delta, Romania (Rudescu, 1968)

- Nearctic region: Canada (Chengalath, 1977); Ross Lake, Florida, USA (Bienert, 1986); Laurentian Great Lakes (Stemberger, 1979)

- Australian region: Avoca river, Vic, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Recorded by Bērziņš, 1982. No ecological information. Not seen in our collections (Shiel & Koste, 1992); Chatham Islands, New Zealand (Russell, 1960)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990)

Trichocerca sulcata (Jennings), f. *minuscula* Rodewald, 1940

- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Carpathes (Bērziņš, 1978)

Trichocerca taurocephala (Hauer, 1931)

- Palaearctic region: Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Lake Ohrid, Balkan peninsula (Stankovic, 1960); River Loire, in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); Shores of embanked and free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Dübener Heide, N Germany (Wulfert, 1961); Lake Bodensee near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Romania (Rudescu, 1960); Sea & brackish waters in S Finland (Björklund, 1972a); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Asiatic Turkey (Dumont & De Ridder, 1987); River Hase, NW Germany (Koste, 1976b); Courland Spit, R.F. (Zhadin *et al.*, 1972); Alps, W Balkan, C Eur. mts., Pontic prov., C & E Eur. plains, NW Russian taiga (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1960, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Anatolia, Turkey (Segers *et al.*, 1992)

- Nearctic region: In Florida saltwater psammon, USA (Turner, 1990b)

Trichocerca tenuidens (Hauer, 1931)

- Palaearctic region: Lake Balaton, Hungary (Zankai & Ponyi, 1970); C Eur. mountains (Bērziņš, 1978)

- Nearctic region: Canada (Chengalath, 1977); Kentucky, USA (Bērziņš, 1984); Pinehirst Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975)

Trichocerca tenuior (Gosse, 1886)

- Palaearctic region: Serbian section of river Danube (Zivkovic, 1987); Spain: Granada & Valencia (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Lake Balaton, Hungary (Zankai, 1968); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Small permanent ponds in the Bucegi mts., Rom. (Godeanu, 1969a); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Obretin embanked basin, Danube delta, Romania (Godeanu *et al.*, 1973); Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); Shores of embanked or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Lac Léman, Fr./CH (Martin, 1961); (Balvay & Laurent, 1981 & 1990a); Dübener Heide, N Germany (Wulfert,

1961); Peat bog Chambedaze, Massif Central, France (Persoone *et al.*, 1968; Francez, 1988); Lake Watergraafsmeer; ditches in Amsterdam; Nat. Res. Meyendel; Prov. Zuid-Limburg; De Venematen, NL (Dresscher, 19796); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); In reed border of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Hamburg area, Germany (Rühmann, 1961); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979; V'yushkova & Lakhnova, 1974); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Lakes around mountain Fuji, Japan (Sudzuki, 1971); Mountain Fuji, Japan (Sudzuki, 1978a); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Saidenbach, Germany (Althaus, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); Small lakes in Estonia (Haberman & Mäemets, 1987); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); Romania (Rudescu, 1960); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Asiatic Turkey (Dumont & De Ridder, 1987); Sierra Nevada, Spain (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie, Mazurian lakeland, Poland (Klimowicz, 1972); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Darnsee near Epe, NW Germany (Koste, 1962); Lake Orog-Nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Sphagnum bogs in the Massif Central, France (Batut, 1965); All over Europe; Caucasus, Caspian area. Cosmopolitan (Bērziņš, 1978); Inundation area of the Danube delta, Romania (Dorobantu, 1964); Lower Silesia & river Grabia basin, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1968, 1970 & 1973); Overmere, Belgium (De Ridder, 1986); Near water works at Okocim, Poland (Klimowicz, 1975)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Colorado, USA (Turner, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Wisconsin, Illinois & Kentucky (Bērziņš, 1984); Miller's Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975)

- Oriental region: Ricefields in NE Thailand (Heckman, 1979); Malaysia & Indonesia (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Sri Lanka (Mendis & Fernando, 1962); (Fernando, 1969)

- Australian region: In many localities in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Bromfield Swamp, tropical Queensland crater lake (Green, 1981); NSW & Qld, Australia (Shiel & Koste, 1979); River Murray, Aust. (Koste, 1979b); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Rare in mainland samples (Vic), more common in Tasmania (Shiel & Koste, 1992); Lincoln, Christchurch & Takahey valley, New Zealand (Russell, 1960)

- Neotropical region: Ecuador : Oriente (Koste & Böttger, 1989); Ecuador : Oriente & Costa (Koste & Böttger, 1992); Chile (Löffler, 1962); Amazonia, Brazil (Hauer, 1965b; Koste, 1972f); Araucarian lakes, E of the Andes (Thomasson, 1963b); Varzea near Santarem, Brazil (Koste, 1974b); Antilles, Brazil, Chile, Panama, Paraguay & Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Chilean lakes (Schmid-Araya, 1991); Orinoco river basin, Venezuela (Vasquez, 1984a); ? Provinces in NW Argentina (José de Paggi, 1989); ? Prov. Chubut, Argentina (José de Paggi, 1990); Panama (Collado *et al.*, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Antilles françaises (Pourriot, 1975); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

Trichocerca tigris (O.F. Müller, 1786)

- Palaearctic region: Slovenia, ex-Yugoslavia (Markic, 1983); Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie, Mazurian lakeland, Poland (Klimowicz, 1972); N Swedish Lapland (Pejler, 1962a); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Lake Balaton, Hungary (Zankai & Ponyi, 1970 & 1971a); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Fishponds near Warsaw, Poland

(Hillbricht-Ilkowska, 1964); Sphagnum bogs in the Massif Central, France (Batut, 1965); Volga river, R.F. (V'yushkova & Lakhnova, 1976); All over Europe; Caucasus, Caspian area. Cosmopolitan (Bērziņš, 1978); Peat bog Laptici, Bucegi mts. Romania (Godeanu, 1970a); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lake Bodensee, near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); N & W Iceland (De Ridder, 1969b, 1970 & 1972); Peat bogs Chambédaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); River Danube (Enaceanu & Brezeanu, 1970); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Anatolia, Turkey (Segers *et al.*, 1992); In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); ? Shores of dammed or free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); In the lower Danube, Romania (Enaceanu, 1964); Lac Léman, Fr./CH (Balvay & Laurent, 1981); Dübener Heide, N Germany (Wulfert, 1961); R. Rijn, Waal & Yssel; Nat. Res. Het Hol; R. Maas, NL (Dresscher, 1976); River & valley in the Tatra mountains, Poland (Madalinski, 1981); Bog pond near Budapest, Hungary (Nogrady, 1962); In reed border of river Danube delta, Romania (Rudescu, 1968); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Peat bogs Poiana Stampei, Bukowina, Poland (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds & pools in the Paris suburb, France (Pourriot, 1965 & 1979); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Peats in the Caucasus (Tarnogradsky, 1961); Lago Trasimeno, Italy (Taticchi, 1968); Spain : Zamora (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Miller's Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Laurentian Great Lakes (Stemberger, 1979); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988)

- Oriental region: India (Sharma & Michael, 1980); Taiwan, Malaysia & India (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); West Bengal, NE India (Sharma, 1979b); Sri Lanka (Mendis & Fernando, 1962); (Fernando, 1969)

- Australian region: Tasmania (Koste & Shiel, 1987); NSW, Qld & Vic, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); In many localities in Australia (Bērziņš, 1982); Common in billabongs, Vic, Tas (Shiel & Koste, 1992); Lincoln, New Zealand (Russell, 1960)

- Neotropical region: Ecuador : Oriente, Costa & Sierra (Koste & Böttger, 1989); Ecuador : Oriente & Sierra (Koste & Böttger, 1992); Galapagos Islands (De Smet, 1987 & 1989); Argentina (Modenutti & Claps, 1988); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil (Hauer, 1965b; Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Argentina, Brazil, Jamaica, Panama, Paraguay & Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Harduy, 1984); Rio Nhamunda, Amazonia, Brazil (Btandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Chilean lakes (Schmid-Araya, 1991); Prov. Tierra del Fuego, Chubut & R. Negro, Arg. (José de Paggi, 1990); Caribbean Islands & Panama (Collado *et al.*, 1984); Caribbean section of Neotropical region (De Ridder, 1977); Prov. Rio Negro & Tierra del Fuego, Argentina (Olivier, 1965); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, C Brazil (Turner & Da Silva, 1992)

- Antarctic region: Antarctica (Dartnall, 1983); (Dartnall & Hollowday, 1985); Antarctica & Subantarctica (José de Paggi & Koste, 1984)

Trichocerca tigris (O.F. Müller), f. *monostyla* Russell, 1951

- Australian region: Westland, New Zealand (Russell, 1960)

Trichocerca tortuosa (Myers, 1936)

- Nearctic region: Canada (Chengalath, 1977); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

- Australian region: Westland, New Zealand (Russell, 1960)

Trichocerca tropis Hauer, 1938

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

Trichocerca uncinata (Voigt, 1902)

- Palaearctic region: In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks,

Austria (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970); Lake Bodensee near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Romania (Rudescu, 1960); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); N Swedish Lapland (Pejler, 1962a); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Darnsee near Epe, NW Germany (Koste, 1962); All over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); N & W Iceland (De Ridder, 1967a, 1970 & 1972); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); Arctic N America (Chengalath & Koste, 1989)

- Australian region: NSW, Aust. (Shiel & Koste, 1985); Unconfirmed record from Tabrabucca Creek, Barrington, NSW (Bērziņš, 1982). No ecological information. Not seen in our collections (Shiel & Koste, 1992)

- Neotropical region: Amazonia, Brazil (Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Brazil (Koste & José de Paggi, 1982)

Trichocerca vargai Wulfert, 1961

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1961); C Eur. plain (Bērziņš, 1978)

Trichocerca vargai Wulfert var.

- Palaearctic region: L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Trichocerca vernalis (Hauer, 1936)

- Palaearctic region: Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Anatolia, Turkey (Segers *et al.*, 1992); Romania (Rudescu, 1960); "Altes Land", near Hamburg, Germany (Caspers & Heckman, 1981 & 1982); Near Asperg, Württemberg, Germany (Klement, 1960); C Eur. mts., Hungarian plain, Pontic prov., C Eur. plains (Bērziņš, 1978); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989); Cranberry bog, near Waterloo, Ontario, Canada (Chengalath & Mulamootil, 1975)

- Oriental region: Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974)

- Australian region: Creek in Australia (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Rivers, billabongs & ephemeral pools. River Murray & Mitta Mitta river, Vic (Shiel & Koste, 1992)

Trichocerca voluta Murray, 1913

- Neotropical region: Brazil & Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Varzea near Santarem, Brazil (Koste, 1974b); Near Concepcion, Paraguay (Koste, 1986b); Panama (Collado *et al.*, 1984)

Trichocerca weberi (Jennings, 1903)

- Palaearctic region: Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Lake Palaeostomi, Georgia, R.F. (Haberman, 1982; Haberman & Laugaste, 1982); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Pools of upper Elbe, CSR (Dvorakova, 1961); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Nat. Res. Neeeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Fish ponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); All over Europe, Caucasus (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960 & 1970); Southwest islands of Japan (Sudzuki *et al.*, 1992); Lake Balaton, Hungary (Zankai, 1968); N & W Iceland (De Ridder, 1967a, 1969b, 1970 & 1972); Lake Neusiedlersee, Austria (Donner, 1979); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Salzach & its tributaries, Austria (Donner, 1970); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Anatolia, Turkey (Segers *et al.*, 1992); Etang de Pommereau, Loir-et-Cher, France (Tassigny *et al.*, 1970); Nat. Res. "Het Hol", Kortenhoef, NL (Dresscher, 1976); Pond in the Paris suburb, France (Pourriot, 1965); Periphytic in ponds in the Ile-de-France (Pourriot, 1970); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); In reed border of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Parczew area peat bogs, Poland (Radwan, 1974); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pool, S of Trondheim, Norway (Thomasson, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Spain : Barcelona, Orense, Pontevedra; Canaries : Gran Canaria (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Stoneman Lake, Arizona, USA (Green, 1986); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Canada (Chengalath, 1977); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada

(Nogrady, 1989); Wisconsin, USA (Bērziņš, 1984); Miller's Lake, near Waterloo, Ontario, Canada (Chengalath & Mulamoottil, 1975); Experimental ponds, C Florida, USA (Fry & Osborne, 1980)

- Oriental region: Singapore, Indonesia & India (Sudzuki, 1989); India (Sharma & Michael, 1980); Singapore. Distribution : warm waters (Sudzuki, 1991); Punjab State, NW India (Sharma, 1976; Sharma & Michael, 1984); West Bengal, NE India (Sharma, 1979b)

- Australian region: In many localities in Australia (Bērziņš, 1982); Lake Barrine, tropical Queensland crater lake, Australia (Green, 1981); Qld, Aust. (Shiel & Koste, 1979); Alligator rivers area, NT? Aust. (Tait, Shiel & Koste, 1984); Lake Garcia, Tasmania. Also in Qld & Vic, Aust. (Koste, Shiel & Tan, 1988); Rare : Qld, Tas & Vic (Shiel & Koste, 1992); Lincoln, New Zealand (Russell, 1960)

- Neotropical region: Antilles françaises (Pourriot, 1975); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Antilles, Argentina, Brazil, Panama & Venezuela (Koste & José de Paggi, 1982); Amazonia, Brazil (Hauer, 1965b; Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Near Concepcion, Paraguay (Koste, 1986b); Chilean lakes (Schmid-Araya, 1991); Galapagos Islands (De Smet, 1987 & 1989); Argentina (Modenutti & Claps, 1988); Prov. Rio Negro & Santa Fé, Argentina (José de Paggi, 1990); Caribbean Islands & Panama (Collado *et al.*, 1984)

Trichocerca spec.

- Palaearctic region: Lac de Pétichet, Isère, France (Gay, 1979); Lake Meeuwenven, near Nijmegen, NL (Geelen, 1969); Lake Bodensee (Walz, 1986); Lago Scuro Parmense, N Italy (Antonietti *et al.*, 1988); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Lake Glubokoje, near Moscow, R.F. (Ghilarov, 1976); Lake Mikolajskie, Masuria, Poland (Karabin, 1978); Lake Biwa, Japan (Narita & Mori, *s.d.*); Lake Banyoles, NE Spain (Miracle, 1977); River Loire, France (Lair, 1980); Lake Suwa in Japan (Hanazoto *et al.*, 1989; Hanazoto & Yasumo, 1988); Lake Bielersee, CH (Bernier-Fankhauser, 1983 & 1986); Lakes in Estonia (Mäemets, 1983); Lake Königssee, Bavaria, Germany (Laxhuber, 1987); Loch Leven, Scotland (May, 1987); Impoundment Kninicki, near Brünn, CSR (Kubicek, 1964); Lake Quackjeswater & L. Breedewater, Voorne & Lake Vogelmeer, Ymuiden, NL (Leentvaar, 1963b); Lake Laarder Wasmeer, Veluwe, NL (Leentvaar, 1963c); Broads & peat pits in NW Overijssel, NL (Leentvaar, 1965); Lake Zwanewater in Callantsoog & L. Oerd on Ameland, NL (Leentvaar, 1967); Po river, Italy (Ferrari *et al.*, 1989); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Minorca, Spain (de Manuel, 1990); Norfolk Broads, UK (Irvine *et al.*, 1990); Loch Rusky, Scotland (Romo, 1990); Fish-fattening ponds in the Ukraina (Krazhan *et al.*, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester estuary, R.F. (Polishchuk, 1976); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakhbayev, 1972); "Kleine vijver", fort 8, Hoboken (Antwerp), B. (De Smet *et al.*, 1989); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); Lake Monterosi, Latium, Italy (Stella & Margaritora, 1966); Luka nad Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Pool, S of Trondheim, Norway (Thomasson, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Saltmarshes of Cadiz, Spain (Yufero *et al.*, 1984); Lake Mikolajskie, Poland (Ejsmont-Karabin, 1974); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Impoundment Weidatalsperre, E Thüringen, G. (Hoffmann, 1966); New impoundments in the CSR (Kubicek, 1968); Lake in the Leersumse Veld, NL (Leentvaar, 1967b); In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); ? Shores of dammed and free flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); In the lower Danube, Romania (Enaceanu, 1964); Lake Kummerower See, Mecklenburg, Gem. (Kalbe *et al.*, 1965); River Danube & its tributaries (Bothar, 1982); Pond near Besse-en-Chandesse, France (Omaly & Dévaux, 1971); Lake Nimetön, S Finland (Arvola *et al.*, 1986); All over the Netherlands (Dresscher, 1976); Etang de Soustons & Et. de Hardy, SW France (De Ridder, 1967b); Lake Chambon, Puy-de-Dôme, France (Persoone *et al.*, 1968); Pool in Fontainebleau Forest, Ile-de-France, Fr. (Pourriot, 1976); Hamburg area, Germany (Rühmann, 1961 & 1965a); Middle course of river Loire, France (Lair & Sargos, 1981); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); River Elbe estuary, Germany (Schulz, 1961); Canals in the Hran area, CSR (Terek, 1990c); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Akgöl, Selçuk-Izmir, Turkey (Ustaoglu & Balik, 1987); Lake Marmara, Turkey (Ustaoglu, in press); Lake Mikolajskie & L. Taltowisko, Poland (Gliwicz *et al.*, 1978); Lake Onega, R.F. (Nikolayev, 1972); Lake Giulianello, Latium, Italy (Stella & Margaritora, 1972); Lake Poletskoye, 73 km of Moscow, R.F. (Smirnov, 1961); Darss-Zingst estuary, S Baltic Sea (Heerkloss *et al.*, 1991); Lough Erne system, NW Ireland (Gibson *et al.*, 1980); Southwest islands of Japan (Sudzuki *et al.*, 1992); Highly eutrophic lake Czarna Kuta, Poland (Brinska *et al.*, 1976); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Clay pits in Stuivekenskerke, Belgium (Espeel, 1979); Lake Neujahrsloch, Hessen, Germany (Menzel, 1968)

- Nearctic region: Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); L. Whitney, Cumberland Island Nat. Seashore, USA (Stoneburger & Schmock, 1980); Lakes in Florida (Dawes *et al.*, 1987); Hogans pond, Newfoundland, Canada (Davis, 1972); Mirror Lake, New Hampshire, USA (Strayer, 1985); Lake Erie, Canada (Davis, 1969); Bauline Long pond, Newfoundland, Canada (Davis, 1973); Lakes at Santee, California, USA (Nogrady, 1982); Lake 122 & 132, NW Ontario, Canada (Schindler & Novén, 1971); Rhode river estuary, Maryland, USA (Dolan & Gallagos, 1992); Long Pond, St. John's, Newfoundland, Canada (O'Connell & Andrews, 1977); Severson Lake, Minnesota, USA (Comita, 1972); Lake Oglethorpe, Georgia, USA (Sanders *et al.*, 1989); Colorado, USA (Turner, 1988); Lake Michigan, USA (Sandgren & Lehman, 1990); Lake St. George, King Township, Ontario, Can. (Malone & Mc Queen, 1983); Degg's Lake, Colorado, USA (Pennak, 1966); Lakes in NE Pennsylvania, USA (Havens & Da Costa, 1988); Lake Brooker, Florida, USA (Scheda & Cowell, 1988); Northern Michigan inland lakes (Stemberger, 1990); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Vinton County, Ohio, USA (Evans, 1984); Experimental ponds, C Florida, USA (Fry & Osborne, 1980)
- Oriental region: Lake Sat Tal, Utar Pradesh, India (Pant *et al.*, 1985); Montane lakes of Bali (Green *et al.*, 1978); Lake Surinsar, Yammu (Y & K), India (Jyoti & Sehgal, 1979); Malacca peninsula (Dunn, 1970); Parakrama Samudra reservoir, Sri Lanka (Duncan, 1983a & 1984); (Duncan & Gulati, 1983); Victoria reservoir, Sri Lanka (Piyasiri & Jayakodi, 1991); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981); Roshamara tank; Naini Lake; Stocking tank, Delhi, India (George, 1966); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Saline crater lake Batur, Bali (Green, 1986); Lake Manguao, Palawan, the Philippines (Davies & Green, 1990); Great Lake & Malayan lakes (Serruya & Pollinger, 1984)
- Australian region: Creek in Australia (Bērziņš, 1982); Billabongs river Murray, SE Aust. (Shiel & Koste, 1983); Lake Bullenmerri (slightly alkaline), Aust. (Timms, 1981); Lake Okaro, New Zealand (Forsyth & James, 1991)
- Neotropical region: Rapel reservoir, C Chile (Soto *et al.*, 1984); Galapagos Islands (De Smet, 1987 & 1989); Surinam (Leentvaar, 1975); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); River Parana, Argentina (José de Paggi, 1985); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Broa reservoir, Sao Carlos, Sao Paulo State, Brazil (Matsumara-Tundisi & Tundisi, 1976); Arroyo Rodriguez, prov. de Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Near Panguana, Peru (Koste, 1988b); Lake Rio Claro, a floodplain lake of the lower Orinoco, Venezuela (Vasquez & Medina, 1991); Billings reservoir, Sao Paulo, Brazil (Sendacz, 1984); Apure river, W Venezuela (Saunders & Lewis, 1988); Amazonia, Brazil (Hauer, 1965b; Gillard, 1967;; Thomasson, 1971); Araucarian lakes, W & E of the Andes & Araucarian ponds & pools, Chile (Thomasson, 1963b); Chile (Löffler, 1962)

Trichotria Bory de Saint Vincent, 1827

Trichotria buchneri Koste, Shiel & Tan, 1988

- Australian region: Strahan, S Tasmania (Koste, Shiel & Tan, 1988); Tasmania (Shiel, Koste & Tan, 1989); W Coast of Tasmania (Koste & Shiel, 1989a)

Trichotria caudata (Lucks, 1912)

- Neotropical region: Ecuador : Sierra (Koste & Böttger, 1992)

Trichotria curta (Skorikov, 1914)

- Palaearctic region: Heiluntian province, China (Bogoslawski, 1962); Romania (Rudescu, 1960); Asiatic Turkey (Dumont & De Ridder, 1987); Volga river, R.F. (V'yushkova & Lakhnova, 1974; Mordukhai-Boltovskoi, 1979); Pontic province, E Eur. plain, N Sweden, Caspian area (Bērziņš, 1978); Serbian section of river Danube (Zivkovic, 1987)

- Australian region: Not yet recorded from Australia (Koste & Shiel, 1989a)

Trichotria eucosmeta Myers, 1934

- Nearctic region: Labrador (Koste, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

- Australian region: Not yet recorded from Australia (Koste & Shiel, 1989a)

Trichotria pocillum (O.F. Müller, 1776)

- Palaearctic region: Romania (Rudescu, 1960); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Po river, Italy (Ferrari *et al.*, 1989); Minorca, Spain (de Manuel, 1990); River Hase, NW Germany (Koste, 1962); Lake Dümmer, NW Germany (Koste, 1984; Koste & Poltz, 1984); Fish ponds near Warsaw, Poland

(Hillbricht-Ilkowska, 1964); Lac Léman, Fr./CH (Balvay *et al.*, 1985; Balvay & Laurent, 1988 & 1990a); Lake Derwart, near Tournay, Belgium (Bogaert, 1988; Bogaert & Dumont, 1989); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Rivers in Soviet Karelia, R.F. (Filimonova, 1976); Lapland State Preserve, R.F. (Ghilarov, 1972); Lower Volga river, R.F. (Chuykov & Merkulov, 1986); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Lake Quackjeswater & Breedewater (Voorne), & Lake Vogelmeer, Ymuiden, NL (Leentvaar, 1963); Lake Muy (Texel), L. oerd (Ameland) & L. Van Hunenplak (Terschelling), NL (Leentvaar, 1967); Nat. Res. Neeruti lakes, NE Estonia (Mäemets, A. & A., *s.d.*); N Swedish Lapland (Pejler, 1962a); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); 2 lakes in N Sweden (Axelson, 1961); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Skopun (Heimara Halsavatn), Faroer (De Smet *et al.*, 1988); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); Sea and brackish waters in S Finland (Björklund, 1972a); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Popescu-Marinescu & Zinevici, 1967); Slovenia, ex-Yugoslavia (Markic, 1983); Croatia, ex-Yugoslavia (Erben, 1987); Asiatic Turkey (Dumont & De Ridder, 1987); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Leżna-Włodawa Lake district, E Poland (Kowalczyk & Radwan, 1982); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Hamburg area, Germany (Rühmann, 1961); Hamburg harbour, Germany (Rühmann, 1962); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de Vaugien, Gif s/ Yvette, Essonne, France (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Scandinavian coastal waters (Thane-Fenchel, 1968); Serbian section of river Danube (Zivkovic, 1987); All over Spain (Velasco, 1990); Rybnik dam reservoir, Poland (Krzanowski, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Impoundment Twistetalsperre, Nordhessen, G. (Meinel *et al.*, 1983); Clay pits in Stuivekenskerke, Belgium (Espeel, 1979); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Lake Iacob, river Danube delta, Romania (Godeanu, 1976); Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Ellesmere district, UK (Galliford, 1960a); Knowsley park, Liverpool, UK (Galliford, 1964); District Hoge Venen, Belgium (Gijssels *et al.*, 1976); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Marshy zones in the Bucegi mts., Romania (Godeanu, 1969a); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of river Odra, Poland (Klimowicz, 1979); Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Side-arm of river Danube near Bratislava, CSR (Lichardova, 1964); Anatolia, Turkey (Segers *et al.*, 1992); Hilversumse wasmeer & lake in Leersumse veld, NL (Leentvaar, 1967b); Artificial lakes near Köln, Germany (Trahms, 1972); Near Debrecen, Hungary (Dévai, 1972); In periphyton of mosses and *Myriophyllum* in the Danube, and in some Alpine brooks, Austria (Donner, 1964); Shores of dammed or free flowing stretches in the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Mouth areas of the Danube branches & predeltaic area of the Black Sea, Romania (Popescu-Marinescu, 1974); Lakes in NE Norway (Saeter, 1971); Dübener Heide, N Germany (Wulfert, 1960b & 1961); All over the Netherlands (Dresscher, 1976); All over Iceland (De Ridder, 1967a, 1969b, 1970 & 1972); Lake Biwa-ko, Japan (Yamamoto, 1960b); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); 4 localities in Belgium (De Ridder, 1986); District Ostrava, CSR (Dvorakova, 1960b); C Finland (Eloranta, 1982b); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie, Mazurian lakeland, Poland (Klimowicz, 1972); Lake Myvatn, Iceland (Adalsteinsson, 1979); Lago di Giulianello, Latium, Italy (Bazzanti & Stella, 1977); La Mancha, Castill., Spain (Armengol *et al.*, 1975); Lake Bodensee near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundments Saidenbach & Neunzehnhain, G. (Althaus, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1981 & 1982); Lake Bielersee, CH (Bernier-Fankhauser, 1986); Middle course of Po river, Italy (Ferrari *et al.*, 1986); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Monterosi, Latium, Italy (Stella & Margaritora, 1966); Beysehir Lake, Turkey (Emir, 1991); Peat bogs Chambedaze & la Godivelle, Massif Central, France (Francez & Dévaux, 1985); Japanese inland waters (Yamamoto, 1960a); River Grabia basin, Poland (Pawlowski, 1968, 1970 & 1973); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Canals in Hran area, CSR (Terek, 1990a); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Meuse Liégeoise, Belgium (Baiverlin, 1984); Akgöl, Selçuk-Izmir, Turkey (Ustaoglu & Balik, 1987); Lake Marmara (Ustaoglu, in press); Camargue, S France (De Ridder, 1960a & 1961)

- Nearctic region: Stoneman Lake, Arizona, USA (Green, 1986); Canada (Chengalath, 1977); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Lakes in Santee, California, USA (Nogrady, 1982); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990)
 - Oriental region: Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969 & 1980a); Malaysia, Sri Lanka & India (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Sri Lanka; found in ponds (Chengalath, Fernando & Koste, 1973); Two Kumaun Himalayan Lakes, UP, India (Sharma & Pant, 1984 & 1985)
 - Australian region: River Yarra, Aust. (Bērziņš, 1982); Australia (Koste & Shiel, 1989a); NSW & Qld, Aust. (Shiel & Koste, 1979)
 - Neotropical region: Paraguay, Argentina & Surinam (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Ecuador : Sierra (Koste & Böttger, 1989 & 1992); Argentina (Modenutti & Claps, 1988); Argentine Patagonia (Kuczynsky, 1987b); Prov. Tierra del Fuego, Chubut, Rio Negro & Neuquen, Argentina (José de Paggi, 1990); Prov. Tierra del Fuego, Argentina (Olivier, 1965)
- Trichotria pocillum bergi*** (Meiszner, 1908)
- Palaearctic region: C & E Eur. plains, Baltic province (Bērziņš, 1978); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Serbian section of river Danube (Zivkovic, 1987)
- Trichotria pocillum hudsoni*** Varga, 1930
- Palaearctic region: Alkal. lake Péteri-See, Hungary (Kertesz, 1960); Lake Balaton, Hungary (Zankai, 1968); Hungarian plain (Bērziņš, 1978)
- Trichotria pocillum majus*** Varga, 1930
- Palaearctic region: Hungarian plain (Bērziņš, 1978)
- Trichotria pseudocurta*** Koste, Shiel & Tan, 1988
- Australian region: Lake Pedder, W of Strathgordon, S Tasmania (Koste, Shiel & Tan, 1988); Tasmania (Shiel, Koste & Tan, 1989; Koste & Shiel, 1989a)
- Trichotria tetractis*** (Ehrenberg, 1830)
- Palaearctic region: Romania (Rudescu, 1960); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Lakes in Estonia (Haberman, 1978); Coast of S Finland (Eriksen, 1969); River Loire, France (Lair, 1980); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); Slovenia, ex-Yugoslavia (Markic, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Sierra Nevada, Spain (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b.; 1989c & 1989d); Korea (Turner, 1986); Lake Bodensee near Konstanz, Germany (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhain, Germany (Althaus, 1976); Lake Bielersee, CH (Baugerter *et al.*, 1980; Berner-Fankhauser, 1986); River Klyas'ma, R.F. (Bogoslawski, 1961); Heiluntsian province, China (Bogoslawski, 1962); Lago Scuro Parmense, N Italy (Antonietti *et al.*, 1988); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Quackjeswater, Voorne, NL (Leentvaar, 1963); N Swedish Lapland (Pejler, 1962a); Lake Lunzer Obersee, Austria (Mikschi, 1989); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); River Hase, NW Germany (Koste, 1969b); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Sphagnum bogs in the Massif Central, France (Batut, 1965); Lac Léman, Fr./CH (Balvay *et al.*, 1985; Balvay & Laurent, 1989 & 1990a); Volga river & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Rivers in Soviet Karelia, R.F. (Filimonova, 1976); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakbayev, 1972); Lower Volga, R.F. (Chuykov & Merkulov, 1986); All over Europe; Caucasus, Caspian area, Asia Minor. Cosmopolitan (Bērziņš, 1978); Tingwall Loch, Mainland, Shetland (Bērziņš, 1982a); Lake Balaton, Hungary (Zankai, 1968 & 1989); District Ostrava, CSR (Dvorakova, 1960b); Karatos Lake & Gelendost, Turkey (Emir, 1991); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Japanese inland waters (Yamamoto, 1960a); ? Garden ponds, Tokyo, Japan (Sudzuki, 1975); Anatolia, Turkey (Segers *et al.*, 1992); In periphyton of mosses & *Myriophyllum*, in the Danube, and in some Alpine brooks, Austria (Donner, 1964); Shores of embanked and free flowing stretches in the Danube, at the German-Austrian border (Donner, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960a & 1961); Peat bog La Godivelle, Massif Central, France (Francez, 1988); All over the Netherlands (Dresscher, 1976); N & W Iceland (De Ridder, 1966a, 1967a, 1969b, 1970 & 1972); Bolshoe Lake, White Sea (Ghilarov, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Karelian inland waters, R.F. (Kutikova, 1965);

Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); Lake Montcineyre, Puy-de-Dôme, France (Persoone *et al.*, 1968); River Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); River Grabia basin, Poland (Pawlowski, 1960, 1968, 1970 & 1973); Canals in Hran area, CSR (Terek, 1990c); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Marismas, Spain (De Ridder, 1962b); Pond Stifterteich, near Karlstift, lower Austria (Wawrik, 1969); In acid ponds of lower Austria (Wawrik, 1972); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Fagne de la Mochette, Samrée, Belgium (De Ridder, 1980); In 3 localities in Belgium (De Ridder, 1986); Interstitial fauna of the Elbe estuary, Germany (Riemann, 1966); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970a); Knowsley Park, Liverpool, UK (Galliford, 1964); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lac Luitel, Isère, France (Joly, 1960); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); New impoundments in the CSR (Kubicek, 1968); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Small water bodies in the Mikolajki area, Poland (Klimowicz, 1967); Side-arm of river Danube near Bratislava, CSR (Lichardova, 1964); Pool in Fontainebleau forest, Ile-de-France, Fr. (Pourriot, 1976); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Duszatynskie Lakes, Poland (Kowalczyk & Radwan, 1962); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Lake Agigea, Romania (Rodewald-Rudescu & Godeanu, 1961); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Hamburg harbour, Germany (Rühmann, 1962); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond and peat bogs in the Paris suburb, France (Pourriot, 1965); Peats in the Caucasus (Tarnogradsky, 1961); Pool, S of Trondheim, Norway (Thomasson, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Ditch near Ichun, China (Wulfert, 1968); Forest pond, Lembeek, Belgium (Van Elslande, 1975); Spain : Barcelona, Granada, Huelva, Oviedo, Orense, Santander; Mallorca (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: Great Dismal Swamp, border Virginia - N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Ontario, Canada (Chengalath, Fernando & George, 1971; Chengalath & Fernando, 1973); NE Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); 9 mountain lakes in W Canada (Anderson & De Henau, 1980); Degg's Lake, Colorado, Canada (Pennak, 1966); Ross Lake, Florida, USA (Bienert, 1986); Cape Herschel, Ellesmere Island, NWT, Canada (Nogrady & Smol, 1989); Illinois river, USA (Brown *et al.*, 1989); Colorado, USA (Turner, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Mud pond, S Grafton County, New Hampshire, USA (Wallace & Starkweather, 1983); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Vinton County, Ohio, USA (Evans, 1984); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Triangle Lake, Portage County, Ohio, USA (Havens, 1991); James bay area, Canada (Pinel-Alloul *et al.*, 1979); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Walker Lake, Arizona, USA (Green, 1986); Papoose Lake, L. Jenny & Grizzly L., W North America (Thomasson, 1962); Brainard Lake & Redrock L., N Colorado, USA (Thomasson, 1964b); ? Lake 132, NW Ontario, Canada (Schindler & Novén, 1971)

- Oriental region: 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Prata-pura reservoir & Nimeta water works, near Baroda, India (Wulfert, 1966); Taiwan. Cosmopolitan (Sudzuki, 1991); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Indonesia, Sri Lanka, India & Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); West Bengal, NE India (Sharma, 1979a); Philippines (Mamaril & Fernando, 1978); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Sri Lanka (Fernando, 1980a); Singapore & Malaysia (Karunakaran & Johnson, 1978); Near Nagpur, India (Arora, 1966a, 1966c & 1966d); Punjab State, India (Sharma, 1976; Sharma & Sharma, 1984); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974); Sri Lanka : occurs in ponds (Chengalath, Fernando & Koste, 1973); Andhra Pradesh, India (Dhanapathi, 1974b); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Orissa, E India (Sharma, 1980b)

- Australian region: In many localities in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Lake Euramoo & Bromfield Swamp, tropical Queensland crater lakes (Green, 1981); Australia (Koste & Shiel, 1989a); NSW, Qld & Vic, Aust. (Shiel & Koste, 1979); Billabongs of the Murray-Darling system, Aust.

(Shiel, 1986); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); River Murray, Aust. (Koste, 1979b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); New Zealand (Olivier, 1965); Taieri Beach, Roturna & mountain Cook, New Zealand; Chatham Islands (Russell, 1960)

- Neotropical region: Crescent Lake, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); River Parana, Argentina (José de Paggi, 1985); Ecuador : Oriente & Costa (Koste & Böttger, 1989 & 1992); Argentina (Modenutti & Claps, 1988); Lower Orinoco river & its delta, Venezuela (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Provinces in NW Argentina (José de Paggi, 1989); Amazonia, Brazil (Hauer, 1965; Thomasson, 1971;); (Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Argentina, Venezuela, Brazil, Chile, Surinam & Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Rio Negro, Buenos Aires & Tierra del Fuego, Argentina; Chile (Olivier, 1965); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Chile (Löffler, 1962); Lake Jacaretinga, Amazonia Central, Brazil (Hardy, 1980); Araucarian lakes, E of the Andes, and pools & ponds in the same region, Chile (Thomasson, 1963b); Brokopondo Lake, Surinam (Leentvaar, 1979); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Chilean lakes (Schmid-Araya, 1991); Argentine Patagonia (Kuczynski, 1987b); Panama (Collado *et al.*, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Trichotria tetractis (Ehrenberg), f. *caudata* (Lucks, 1912)

- Palaearctic region: Peat bog Chambedaze, Massif Central, France (Francez, 1987 & 1988); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Lake Vörtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a & 1989d); Achmer Grasmoor, NW Germany (Koste, 1968b); Engelbergs Moor, Druchhorn, NW Germany (Koste, 1965); Pontic province, C Eur. plain & Baltic province (Bērziņš, 1978); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Nat. Res. Oisterwijkse vennen & Nat. Res. De Gerritsfles, NL (Dresscher, 1976); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Koste, 1984; Chengalath & Koste, 1988)

- Oriental region: Kerala, S India (Nayar & Nair, 1969); Taiwan (Sudzuki, 1989)

- Australian region: Not yet recorded from Australia (Koste & Shiel, 1989a)

Trichotria tetractis (Ehrenberg), f. *paupera* (Ehrenberg, 1830)

- Palaearctic region: C Eur. mts., Carpathes, Pontic province, C & E Eur. plains; Caucasus (Bērziņš, 1978); Romania (Rudescu, 1960); Peat bog Laptici, Bucegi mts., Romania (Godeanu, 1970); Side-arm of river Danube, near Bratislava, CSR (Lichardova, 1964); Pelagic zone of Leżna-Włodawa lakes, Poland (Radwan, 1975); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Serbian section of river Danube (Zivkovic, 1987)

Trichotria tetractis (Ehrenberg), f. *similis* (Stenroos, 1898)

- Palaearctic region: Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); Dübener Heide, N Germany (Wulfert, 1961); W Iceland (De Ridder, 1969b & 1972); In reed border of river Danube delta, Romania (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Pool, S of Trondheim, Norway (Thomasson, 1979); Rybnik dam reservoir, Poland (Krzanowski, 1979); Romania (Rudescu, 1960); Lake Vörtsjärv, Estonia (Kutikova & Haberman, 1986); Croatia, ex-Yugoslavia (Erben, 1987); Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Baltic province, UK, Iceland, NW Russian taiga, C Eur. mountains, Carpathes, Pontic province, C & E Eur. plains (Bērziņš, 1978); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985)

- Nearctic region: NE Canada (Chengalath & Koste, 1983)

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989); Taiwan. Cosmopolitan (Sudzuki, 1991)

- Australian region: NT, Aust.: Magela Creek area (Koste, 1981b); NT, Aust. (Shiel & Koste, 1985); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); S Tasmania (Koste, Shiel & Tan, 198)

- Neotropical region: Ecuador : Oriente & Costa (Koste & Böttger, 1992)

Trichotria tetractis (Ehrenberg), f. *turfacea* Petr, 1890

- Palaearctic region: Romania (Rudescu, 1960); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); C Eur. mts., Carpathes, Pontic province, C Eur. plains, Ireland, UK, Boreal highland (Bērziņš, 1978); Inundation area of Danube delta, Romania (Dorobantu, 1964); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1960 & 1970)

Trichotria truncata (Whitelegge, 1889)

- Palaearctic region: Lakes in NE Norway (Saeter, 1971); Dübener Heide, N Germany (Wulfert, 1960a); Umba river system, White Sea basin, R.F. (Kruglova, 1991); Fens in the Netherlands (Prov. Drente)

(Dresscher, 1976); Luga district in the Leningrad area, R.F. (Kutikova, 1962b); River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Romania (Rudescu, 1960); Heiluntian province, China (Bogoslawski, 1962); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pjeler, 1987); N Swedish Lapland (Pjeler, 1962a); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); In bog ponds, C Europe (Koste, 1984); Small water bodies, Soviet Karelia, R.F. (Filimonova, 1976); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakhbayev, 1972); Kiev reservoir (Polishchuk, 1987); C Eur. mts., Carpathes, Hungarian plain, Pontic prov., W, C & E Eur. plains, Baltic prov., UK, Boreal highland, NW Russian taiga (Bērziņš, 1978); Nat. Res. Neeruti lakes, NE Estonia (Mäemets A. & A., *s.d.*); Pond Stifterteich, near Karlstift, Austria (Wawrik, 1969); In acid ponds in lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Waldwinkel area, lower Austria (Naidenow & Wawrik, 1984); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973)

- Nearctic region: Mesotrophic fen, Newfoundland, Canada (Bateman & Davis, 1980); Canada (Chengalath, 1977); Illinois & Missouri, USA (Chengalath & Koste, 1983); Lac Echo, Québec, Canada (Nogrady, 1976)
- Australian region: Lake Mc Gregor & Chatham Isl., New Zealand (Russell, 1961)

Trichotria truncata (Whitelegge), f. *aspinosa* Rodewald, 1934

- Palaearctic region: Water-courses in the Bucegi mts., Romania (Godeanu, 1963b); Marshy zones in the Bucegi mts., Romania (Godeanu, 1969a); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)
- Australian region: Lake Barracoota, Aust. (Bērziņš, 1982); NSW, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Australia (Koste & Shiel, 1989a)

Trichotria zanclum Bērziņš, 1982

- Australian region: Mt. Paparoa, South Island, New Zealand (Bērziņš, 1982a)

Trichotria spec.

- Palaearctic region: River Loire, France (Lair, 1980); Norfolk Broads, UK (Irvine *et al.*, 1990); Fish fattening ponds in the Ukraina (Krazhan *et al.*, 1976); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Canal de Séclin, Nord, France (Angeli, 1972); Prov. Zuid Limburg; Nat. Res. De Gerritsfles at Kootwijk; Hilversumse Wasmeer, NL (Dresscher, 1976); Periphytic biota in sewages & park waters, Japan (Sudzuki, 1981)

- Nearctic region: Mirror Lake, New Hampshire, USA (Strayer, 1985); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Long Pond, St. John's, Newfoundland, Canada (O'Connell *et al.*, 1977); The Sacramento-San Joaquin delta estuary, USA (Siegfried & Kopache, 1980)

- Oriental region: Lake Surinsar, Jammu (J & K), India (Jyoti & Sehgal, 1979)

- Neotropical region: River Parana, Argentina (Paggi & José de Paggi, 1974); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971)

Tripleuchlanis Myers, 1930

Tripleuchlanis plicata (Levander, 1894)

- Palaearctic region: Gulf of Finland & Gulf of Riga (Bērziņš, 1960); Camargue, S France (De Ridder, 1960a & 1961); Marismas, Spain (De Ridder, 1962); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Anatolia, Turkey (Segers *et al.*, 1992); Brackish polder ditches, NL (Oosten, 1972); River Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); Pelagic zone of the Leczna-Wladawa lakes, P. (Radwan, 1975); Parczew area peat bogs, Poland (Radwan, 1974); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Spain : Valencia & Huelva (Velasco, 1990); Romania (Rudescu, 1960); Lake Palaeostomi, Georgia, R.F. (Haberland & Laugaste, 1982); Sea and brackish water pools in S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); Asiatic Turkey (Dumont & De Ridder, 1987); Volga river, R.F. (V'yushkova & Lakhnova, 1974); All over Europe & Caspian area (Bērziņš, 1978); Rügener, Hiddenseer & Darszer Boddengegewässer, NE Germany (Schwarz, 1963); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968)

- Nearctic region: Illinois, USA (Bērziņš, 1984); Experimental ponds near Bakersfield, Kern County, California (Hurlbert *et al.*, 1972)

- Oriental region: West Bengal, NE India (Sharma, 1979b); Bangkok & pool near river Kwai at Kanchanaburi, Thailand (De Ridder, 1971); Thailand (Boonsom, 1984b); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Taiwan (Sudzuki, 1988); Taiwan, Thailand, Indonesia, Sri Lanka, India, Philippines (Sudzuki, 1989); Sri Lanka, rare. Found in ponds (Chengalath, Fernando & Koste, 1973);

Taiwan. Warm waters (Sudzuki, 1991); Municipal tank, Kaikalur, India (Dhanapathi, 1974b)
 - Australian region: Creek in Australia (Bērziņš, 1982); Australia (Koste & Shiel, 1989a); Qld, Aust. (Shiel & Koste, 1979)

- Neotropical region: Antilles françaises (Pourriot, 1975); Amazonia, Brazil (Thomasson, 1971); Ecuador : Oriente, Costa & Sierra (Koste & Böttger, 1989); Orinoco river basin (Vasquez, 1984a); Venezuela & Antilles (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Caribbean section of the Neotropical region (De Ridder, 1977); Aruba, Bonaire, Curaçao, Caribbean Islands, Cuba, Haiti, Panama (Collado *et al.*, 1984)

Tripleuchlanis plicata (Levander), f. *razelmi* Rodewald, 1940

- Palaearctic region: Pontic province (Bērziņš, 1978); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lake Agigea, Romania (Rodewald-Rudescu & Godeanu, 1961); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

Tripleuchlanis spec.

- Oriental region: Fishponds in Thailand (Boonsom, 1984a)

- Neotropical region: Province San Juan, Argentina (José de Paggi, 1990)

Trochosphaera Semper, 1972

Trochosphaera aequatorialis Semper, 1872

- Palaearctic region: Delta of river Danube, Romania (Zinevici & Teodorescu, 1991)

- Nearctic region: Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975)

- Oriental region: Sri Lanka (Fernando, 1969 & 1980a; Serruya & Pollingher, 1984); Sri Lanka & Philippines (Sudzuki, 1989); Sri Lanka. Only a single record from Senanayake Samudra (Chengalath, Fernando & Koste, 1983); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b)

- Neotropical region: Surinam (Leentvaar, 1975); S America : Surinam & Amazonia (Koste, 1976a); Surinam, Brazil & Argentina (Koste & José de Paggi, 1982); Flood valley of river Parana, Argentina (Paggi, 1978); Prov. Santa Fé, Argentina (José de Paggi, 1990)

Trochosphaera solstitialis Thorpe, 1893

- Palaearctic region: SE Europe (Koste, 1967a); E Balkan & Pontic prov. Tropical & subtropical (Bērziņš, 1978); Lake Iacub, river Danube delta, Romania (Godeanu, 1976)

- Nearctic region: N America (Koste, 1976a); Kingston, Ontario, Canada (Nogrady, 1989); Temporary pond in the Stephen F. Austin experimental forest, 15 km SW of Nacagoloches, Texas, USA (Mc Cullaugh & Lee, 1980)

- Oriental region: E Asia (Koste, 1976a)

Trichosphaera spec.

- Oriental region: In rice-fields of N Kriau, Perak, Malaysia (Ali, 1990)

- Neotropical region: Surinam (Leentvaar, 1975); River Parana, Argentina (José de paggi, 1985); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983)

Tylotrocha Harring & Myers, 1922

Tylotrocha monopus (Jennings, 1894)

- Palaearctic region: Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); Romania (Rudescu, 1960); Lake Balaton, Hungary (Zankai, 1968); Karelian inland waters, R.F. (Kutikova, 1965); Hungarian plain, W Eur. plain, Baltic province, NW Russian taiga (Bērziņš, 1978)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); NE Canada (Chengalath & Koste, 1983); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980)

Wierzejskiella Wiszniewski, 1934**Wierzejskiella elongata** (Wiszniewski, 1932)

- Palaeartic region: River Hase, NW Germany (Koste, 1976b); Courland Spit, R.F. (Zhadin *et al.*, 1972); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Carpathes, C & E Eur. plains, Ireland (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Wierzejskiella marina Remane, 1949

- Palaeartic region: C Eur. plain (Bērziņš, 1978)

Wierzejskiella ricciae (Harring, 1913)

- Palaeartic region: River Hase, NW Germany (Koste, 1976b); S Sweden & C Eur. plain (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Wierzejskiella sabulosa (Wiszniewski, 1932)

- Palaeartic region: Romania (Rudescu, 1960); Shores of Black Sea, C & E Eur. plains (Bērziņš, 1978); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986)

Wierzejskiella subterranea Remane, 1949

- Palaeartic region: C Eur. plain (Bērziņš, 1978)

Wierzejskiella vagneri Koniar, 1935

- Palaeartic region: Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970); Carpathes (Bērziņš, 1978)

Wierzejskiella velox (Wiszniewski, 1932)

- Palaeartic region: Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); River Hase, NW Germany (Koste, 1976b); Peat bogs in the Massif Central, France (Batut, 1965); Italy, W Balkan, Carpathes, C & E Eur. plains (Bērziņš, 1978); Lake Ohrid, Balkan peninsula (Stankovic, 1960)

- Nearctic region: N America (Bērziņš, 1978); Laurentian Great Lakes (Stemberger, 1979); NE Canada (Chengalath & Koste, 1983)

- Australian region: SW Australia (Koste, Shiel & Brock, 1983); W Australia (Shiel & Koste, 1985)

Wierzejskiella spec.

- Palaeartic region: 3 different species in mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mountain Fuji, Japan (Sudzuki, 1971b); Mountain Fuji area, Japan (Sudzuki, 1978a); Iriomote Island, Japan (Sudzuki, 1979); ? Interstitial fauna of the Elbe estuary, Germany (Riemann, 1966)

- Nearctic region: 2 different species in Vinton County, Ohio, USA (Evans, 1984); Mirror Lake, New Hampshire, USA (Strayer, 1985)

- Oriental region: Malaysia (Sudzuki, 1989)

Wigrella Wiszniewski, 1932**Wigrella amphora** (Remane, 1929)

- Palaeartic region: C Eur. plain (Bērziņš, 1978)

Wigrella depressa Wiszniewski, 1932

- Palaeartic region: Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Carpathes, C & E Eur. plains (Bērziņš, 1978)

Wigrella spec.

- Palaeartic region: In an inland sea of Japan, round Kasado Island (Sudzuki, 1976a & 1976b)

- Nearctic region: The Sacramento-San Joaquin delta estuary, USA (Siegfried & Kopache, 1980)

Wolga Skorikov, 1903**Wolga spinifera** (Western, 1894)

- Palaeartic region: Heiluntian province, China (Bogoslowski, 1962); Asiatic Turkey (Dumont & De Ridder, 1987); Volga & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Almost all over Europe (Bērziņš, 1978); Latorica, E Slovakia lowland, CSR (Terek, 1990a & 1990b); Side-arm of river Danube near Bratislava, CSR (Lichardova, 1964); Anatolia, Turkey (Segers *et al.*, 1992); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of river Danube (Zivkovic, 1987); Pond Chylinski Mali II, Poland (Lewkowicz, 1972); Spain : Guadalajara, Huesca, Jaen & Pamplona (Velasco, 1990)

- Nearctic region: Canada (Chengalath, 1977); Illinois & Kentucky, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Laurentian Great Lakes

(Stemberger, 1979); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988)

- Oriental region: Yamuna river, near Wazirabad, Delhi, India (Sarma, 1988)

- Australian region: Tasmania (Koste & Shiel, 1987); NSW, Aust. (Koste & Shiel, 1980c)

- Neotropical region: Argentina (José de Paggi, 1982; Koste & José de Paggi, 1982; Modenutti & Claps, 1988); Provinces in NW Argentina (José de Paggi, 1989); Prov. Chubut, Tucuman, Cordoba, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Argentine Patagonia (Kuczynski, 1987b)

Wulfertia Donner, 1943

Wulfertia kindensis Koste & Tobias, 1990

- Oriental region: Impoundment Kinda, C Burma (Koste & Tobias, 1990)

Wulfertia ornata Donner, 1943

- Palaeartic region: Romania (Rudescu, 1960); C Eur. mountains & plains, Carpathes (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960b)

Wulfertia spec.

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984); Antarctica (Dartnall & Hollowday, 1985)

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