

UPDATED CHECKLIST OF THE FREE-LIVING MARINE COPEPODA (CRUSTACEA) OF MEXICO

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RESUMEN

La fauna de copépodos de los mares mexicanos ha sido estudiada desde hace décadas. Sin embargo, el número de especies presentes en México no se ha establecido y sólo existen listas faunísticas restringidas a ciertas zonas. En este trabajo se presenta una lista de las especies de copépodos marinos registradas en las aguas mexicanas del Pacífico y del Atlántico. El número total de especies (479) representa principalmente la riqueza específica de los ambientes de la columna de agua, con los Calanoida como el grupo más diverso. El conocimiento de los Harpacticoida, un grupo muy diverso en el meiobentos, es aún escaso en México, por lo que debe ser incrementado. Se presenta también la literatura taxonómica y de distribución de copépodos marinos para México.

Palabras clave: copépodos, México, lista de especies.

ABSTRACT

The marine copepod fauna of the Mexican seas has been studied for decades. However, the number of species occurring in these waters has not been estimated, the only faunistic checklists being from restricted areas. In this paper, we present an updated and revised checklist of the marine copepods recorded in Mexican territorial waters of the Pacific and the Atlantic. The total number of species (479) represent mainly collections from the water column environments, with the pelagic group Calanoida being the most diverse. Knowledge of the very diverse meiobenthic copepods belonging to the Harpacticoida is still limited in Mexico, and should be improved. A list of references on the taxonomy and distribution of Mexican marine copepods is also presented here.

Key words: copepods, Mexico, checklist.

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INTRODUCTION

The free-living marine copepods of the Mexican seas have been surveyed for decades (Campos & Suárez, 1994; Suárez, 1996); however, only a few of these studies have covered a wide area, either in the Pacific or the Atlantic waters of Mexico. Therefore, previous faunistic checklists of the Mexican copepod fauna refer to restricted areas, such as the Gulf of California (Brinton *et al.*, 1986), the Caribbean Sea (Reid, 1990) or the southern Gulf of Mexico (Suárez, 1992a). There are no current estimations of the diversity of this group in Mexico. In this work, an updated and revised checklist of the marine copepods recorded from Mexico is here presented along with the most relevant literature for the Mexican fauna. The list includes copepods from oceanic, coastal, and estuarine environments. The Mexican seas have been divided into four large areas: Gulf of Mexico and Caribbean Sea in the Atlantic, and Mexican Pacific and Gulf of California, in the Pacific.

Preference was given to the literature with species lists and taxonomic aspects of different taxa. General, comprehensive works or revisions of selected taxa (Nishida, 1985; Walter, 1989; Markhaseva, 1996; Razouls, 1996) were also consulted.

The analysis of published and unpublished (thesis, project reports) information on the free-living marine copepods from Mexican waters of the Atlantic and the Pacific oceans yields a total of 478 species belonging to 5 orders, 54 families, and 135 genera. Out of the total number of species, 325 (ca. 68 %) belong to the order Calanoida, 62 (12.9 %) to the Poecilostomatoida, 20 (4.2 %) to the Cyclopoida, 36 (7.3 %) to the Harpacticoida, 24 (5 %) to the Siphonostomatoida, and the remaining 12 (2.7 %) to the Monstrilloida, a group in which only the adult stage is free-living.

Down to the family and genus level, the order Calanoida is clearly the most diverse group, with 26 families and 78 genera present in Mexican waters, followed by Harpacticoida (17 and 30) and Poecilostomatoida (6 and 12). Within the calanoids, the family Aetideidae is the most speciose, with 43 species. The families Euchaetidae (37 species), Pontellidae (41), and Scolecithricidae (30) are also well represented in Mexico. Within the Poecilostomatoida, the two most species-rich families in Mexico are Corycaeidae (with 27 species) and Sapphirinidae (with 17).

Most of the species included in this checklist (89%) are records from water column environments (epi- and mesopelagic); a relatively low number of epibenthic or benthic forms is also included (58 species). However, according to Marcotte (1986), meiobenthic harpacticoids are quite diverse, even more than calanoids. Surveys in the benthic environments of the Mexican Seas are expected to yield a significant number of new records of harpacticoid copepods. For instance, Reid (1990) listed 211 harpacticoid copepod species from the Caribbean and Central America, and only a few of these have been recorded in Mexico. The checklist is also expected to grow steadily as deeper plankton samplings are carried out, as the knowledge on the copepod fauna below 300-400 m in the Mexican seas is still quite limited.

Regarding the different areas analysed, 269 copepod species have been recorded in the Gulf of Mexico, 201 in the Mexican Caribbean, 154 in the Gulf of California and 236 in the Mexican Tropical Pacific area. Of the total number of species, 82 have been recorded only in the Gulf of Mexico, 31 in the Mexican Caribbean area, 30 in the Gulf of California, and 93 in the Tropical Pacific; the reason for this figure in the tropical Pacific is the addition of the rich copepod fauna associated to hydrothermal vents.

Reid (1990) listed a total of 430 species of free-living marine copepods for Central America, Mexico and the entire Caribbean Sea. However, only 167 of these were recorded in Mexico at that time. Hernández-Trujillo (1996) estimated as 150 the number of species dwelling in the Gulf of Mexico and Caribbean Sea, and as 293 the number of species reported from the Pacific area, with 89 species common to both areas. The total number of marine copepod species estimated by Hernández-Trujillo for Mexico (354) is ca. 26 % lower than the figure presented in this report. Most differences may result in our inclusion of recent works on harpacticoids, monstrilloids, and on deep-water copepods.

List of the marine free-living and semiparasitic copepods collected in Mexican waters, using Huys & Boxshall's (1991) taxonomic scheme

I: Gulf of Mexico; II: Caribbean Sea; III: Tropical Pacific and Californian coast; IV: Gulf of California.

- Subclass Copepoda** Milne-Edwards, 1840
Infraclass Neocopepoda Huys & Boxshall, 1991
Superorder Gymnoplea Giesbrecht, 1882
Order Calanoida G.O. Sars, 1903
- Family Acartiidae** Sars, 1900
Acartia bacorehuisensis Zamora-Sánchez & Gómez-Aguirre, 1985. IV
A. californiensis Trinast, 1976. III
A. clausi Giesbrecht, 1892. III
A. danae Giesbrecht, 1889 I, II, III, IV
A. lilljeborgii Giesbrecht, 1889. I, II, III, IV
A. longiremis (Lilljeborg, 1853). IV
A. negligens Dana, 1852. II, III, IV
A. spinata Esterly, 1911. I, II
A. tonsa Dana, 1849. I, II, III, IV
- Family Aetideidae** Giesbrecht, 1892
Aetideopsis multiserrata (Wolfenden, 1904) III, IV
Aetideus acutus Farran, 1929. I, II, III, IV
- A. armatus* Boeck, 1872. I, III, IV
A. bradyi A. Scott, 1909. III, IV
A. giesbrechti (Cleve, 1904). I, II, III
A. mexicanus Park, 1974. I
A. truncatus Bradford, 1971. III, IV
Bradyidius arnoldi Fleminger, 1957. I
Chiridiella bispinosa Park, 1970. I
Ch. chainae Grice, 1969. II
Ch. macrodactyla Sars, 1907. II
Chiridius gracilis Farran, 1908. I
Ch. mexicanus Park, 1975. I
Ch. molestus Tanaka, 1957. I
Ch. poppei Giesbrecht, 1892. I
Chirundina streetsii Giesbrecht, 1895 I, III
Euchirella amoena Giesbrecht, 1888. I, II, III
E. bella Giesbrecht, 1888. III
E. bitumida With, 1915. I
E. curticauda Giesbrecht, 1888. I, II, III
E. maxima Wolfenden, 1905. I
E. messinensis (Claus, 1863). I, II
E. pseudotruncata Park, 1975. I
E. pulchra Lubbock, 1856. I, II

E. rostrata (Claus, 1866). I
E. splendens Vervoort, 1963. I
E. truncata Esterly, 1911. I
E. venusta Giesbrecht, 1888. I, II, III, IV
Gaetanus armiger Giesbrecht, 1888. III
G. brachyurus Sars, 1907. I
G. brevicornis Esterly, 1906. III
G. kruppii Giesbrecht, 1888. I
G. latifrons Sars, 1925. I, II
G. miles Giesbrecht, 1888. I, II, III
G. minor Farran, 1905. I, II
G. minutus Sars, 1907. I, II
G. pileatus Farran, 1903. I, II
G. pungens (Giesbrecht, 1895). III
G. robustus (Sars, 1905). III
G. tenuispinus (Sars, 1900). I, II
Undeuchaeta intermedia Scott, 1909. III
U. major Giesbrecht, 1888. I, II
U. plumosa (Lubbock, 1856). I, II

Family Arietellidae Sars, 1903

Arietellus armatus Wolfenden, 1911. I, II
A. giesbrechti Sars, 1905. I, II
A. pacificus Esterly, 1913. III
A. plumifer Sars, 1905. I, II
A. setosus Giesbrecht, 1892. II, III
Paraugaptilus buchani Wolfenden, 1904. I, III
Phyllopus bidentatus Brady, 1883. I, II, IV

Family Augaptilidae Sars, 1905

Augaptilus californicus Esterly, 1913. III
A. depressus Esterly, 1913. III
A. megalurus Giesbrecht, 1889. I
A. romanus Esterly, 1913. III
A. longicaudatus (Claus, 1863). I, II, IV
Euauaptilus filigerus (Claus, 1863). I, II
E. gracilis (Sars, 1905). I
E. hecticus (Giesbrecht, 1889). I, II
E. laticeps (Sars, 1905). I
E. nodifrons (Sars, 1905). I
Centraugaptilus rattrayi (Scott, 1894). I
Haloptilus acutifrons (Giesbrecht, 1892). I, II, III, IV
H. chierchiae (Giesbrecht, 1889). IV
H. fertilis (Giesbrecht, 1892). I, II, III
H. furcatus Sars, 1920. I

H. longicornis (Claus, 1863). I, II, III, IV
H. mucronatus (Claus, 1863). I, II
H. ornatus (Giesbrecht, 1892). I, II, III, IV
H. oxycephalus (Giesbrecht, 1889). I, II, III
H. spiniceps (Giesbrecht, 1892). I, II
Heteroptilus attenuatus (Sars, 1905). II
Pachyptilus eurygnathus Sars, 1920. I

Family Calanidae Dana, 1849

Calanus minor (Claus, 1863). I, II, III, IV
C. pacificus Brodsky, 1948. III, IV
Canthocalanus pauper Giesbrecht, 1888. III
Cosmocalanus darwini (Lubbock, 1860). I, III, IV
Mesocalanus tenuicornis (Dana, 1849). I, II, III, IV
M. lighti (Bowman, 1955). III
Neocalanus gracilis (Dana, 1849). I, II, III, IV
N. cristatus (Mori, 1937). III
N. robustior (Giesbrecht, 1888). I, II, III, IV
Undinula vulgaris (Dana, 1852). I, II, III, IV

Family Calocalanidae Bernard, 1958

Calocalanus contractus Farran, 1926. I, II, III, IV
C. gracilis Tanaka, 1956. I
C. pavo (Dana, 1852). I, II, III, IV
C. pavoninus Farran, 1936. I, IV
C. plumulosus (Claus, 1863). I, II, III, IV
C. styliremis Giesbrecht, 1888. I, II, III, IV
Mecynocera clausi Thompson, 1888. I, II, III

Family Candaciidae Giesbrecht, 1892

Candacia aethiopica Dana, 1849. I, III, IV
C. bipinnata (Giesbrecht, 1889). I, III, IV
C. bradyi Scott, 1902. III
C. catula (Giesbrecht, 1889). III, IV
C. columbiae Campbell, 1929. III
C. curta (Dana, 1849). I, III, IV
C. discaudata Scott, 1909. III
C. longimana (Claus, 1863). I, II
C. pachydactyla (Dana, 1852). I, II, III, IV
C. paenelongimana Fleminger & Bowman, 1956. I

C. pectinata Giesbrecht, 1892. III
C. pofi Grice & Jones, 1960. III, IV
C. truncata (Dana, 1849). III, IV
C. varicans (Giesbrecht, 1892). I, II, III, IV
Paracandacia bispinosa (Claus, 1863). I, II
P. simplex (Giesbrecht, 1889). I, II

Family Centropagidae Giesbrecht, 1892

Centropages abdominalis Sato, 1913. III
C. bradyi Wheeler, 1901. III
C. calaninus (Dana, 1849). III
C. caribbeanensis Park, 1970. I, II
C. elongatus Giesbrecht, 1896. III
C. furcatus (Dana, 1849). III, IV
C. gracilis (Dana, 1849). III, IV
C. hamatus (Lilljeborg, 1853). I, II
C. longicornis Dana, 1849. III, IV
C. typicus Krøyer, 1849. I
C. velificatus (Oliveira, 1947) I, II
C. violaceus (Claus, 1863). I, II

Family Clausocalanidae Giesbrecht, 1892

Clausocalanus arcuicornis (Dana, 1849). I, II, III
C. farrani Sewell, 1929. III, IV
C. furcatus (Brady, 1883). I, II, III, IV
C. jobei Frost & Fleminger, 1968. III, IV
C. mastigophorus (Claus, 1866). IV
C. parapergens Frost & Fleminger, 1968. IV
C. paululus Farran, 1926. I
Ctenocalanus longicornis Mori, 1937. III
C. vanus Giesbrecht, 1888. I, III, IV

Family Eucalanidae Giesbrecht, 1892

Eucalanus californicus Johnson, 1938. III
E. elongatus (Dana, 1849). I, II, III, IV
E. hyalinus (Claus, 1866). III
Pareucalanus sewelli (Fleminger, 1973). I, II, III, IV
Rhincalanus cornutus (Dana, 1849). I, II, III, IV
R. nasutus Giesbrecht, 1888. I, II, III, IV
Subeucalanus crassus (Giesbrecht, 1888). I, II, III
S. inermis (Giesbrecht, 1892). III, IV
S. monachus (Giesbrecht, 1888). I, II
S. mucronatus (Giesbrecht, 1888). I, II

S. pileatus (Giesbrecht, 1888). I, II, III
S. subcrassus (Giesbrecht, 1888). I, II, III, IV
S. subtenuis (Giesbrecht, 1888). I, II, III, IV

Family Euchaetidae Giesbrecht, 1892

Euchaeta acuta Giesbrecht, 1892. I, II, III, IV
E. indica Wolfenden, 1905. IV
E. longicornis (Giesbrecht, 1888). III, IV
E. marina (Prestandrea, 1833). I, II, III
E. marinella Bradford, 1974. III
E. media Giesbrecht, 1888. I, II, III, IV
E. paraconcinna Fleminger, 1957. I
E. plana Mori, 1937. III?
E. pseudotonsa Fontaine, 1967. I
E. pubera Sars, 1907. I
E. rimana Bradford, 1974. IV
E. spinosa Giesbrecht, 1892. I, II, IV
Paraeuchaeta aequatorialis (Tanaka, 1958).

III

P. alaminae (Park, 1975). I
P. barbata (Brady, 1883). I, II
P. bisinuata Sars, 1907 I, III
P. calva (Tanaka, 1958). I, II
P. californica (Esterly, 1906). III, IV
P. confusa (Tanaka, 1958). II
P. copleyae Park, 1994. III, IV
P. cosmosa (Tanaka, 1958). I, II
P. gracilicauda (Scott, 1909)
P. gracilis (Sars, 1905). I, II
P. grandiremis (Giesbrecht, 1888). III, IV
P. hansenii (With, 1915). I, II
P. incisa (Sars, 1905). I, II
P. malayensis Sewell, 1929. III
P. mexicana Park, 1994. IV
P. sarsi (Farran, 1908). I, II
P. scopaeorhina Park, 1994. III, IV
P. scotti (Farran, 1908). I, II
P. sesquipedalis Park, 1994. III, IV
P. tonsa (Giesbrecht, 1895). III
P. triloba Park, 1994. IV
P. vorax (Grice & Hulsemann, 1968). I, II
Valdiviella brevicornis Sars, 1905. II, III
V. oligarthra Steuer, 1904. I

Family Heterorhabdidae Sars, 1903

Hemirhabdus latus Sars, 1905. I
Heterorhabdus clausi (Giesbrecht, 1888). IV

H. papilliger (Claus, 1863). I, II, III, IV
H. spinifrons (Claus, 1863). I, II
H. tanneri (Giesbrecht, 1895). III
Heterostylites longicornis (Giesbrecht, 1889). I,
 II, IV

Family Lucicutiidae Sars, 1903

Lucicutia atlantica Wolfenden, 1904. I
L. clausi (Giesbrecht, 1889). I, II
L. flavicornis (Claus, 1863). I, II, III
L. formosa Hulsemann, 1966. I
L. gaussae Grice, 1963. I
L. gemina (Farran, 1926). III
L. grandis (Giesbrecht, 1895). III
L. magna Wolfenden, 1904. I
L. maxima Steuer, 1904. I
L. ovalis (Giesbrecht, 1895). I
L. pacifica Brodsky, 1950. III

Family Megacalanidae Wolfenden, 1904

Megacalanus princeps Wolfenden, 1904. I, II

Family Metridinidae Sars, 1902

Gausssia princeps (Scott, 1894). III
Metridia brevicauda Giesbrecht, 1889. I, II,
 III
M. curticauda Giesbrecht, 1889. III, IV
M. pacifica Brodsky, 1950. III
M. princeps Giesbrecht, 1889. I, III
Pleuromamma abdominalis Lubbock, 1856. I,
 II, III, IV
P. borealis (Dahl, 1893). III
P. gracilis (Claus, 1863). I, II, III, IV
P. piseki Farran, 1929. I, II
P. quadrungulata (Dahl, 1893). III
P. xiphias (Giesbrecht, 1889). I, II

Family Paracalanidae Giesbrecht, 1892

Acrocalanus andersoni Bowman, 1958. I, IV
A. gracilis Giesbrecht, 1888. IV
A. inermis Sewell, 1912. III, IV
A. longicornis Giesbrecht, 1888. I, II, III
A. monachus Giesbrecht, 1888. III, IV
Paracalanus aculeatus Giesbrecht, 1888. I, II,
 III, IV
P. denudatus Sewell, 1929. I, IV
P. indicus Wolfenden, 1904. II

P. nanus Sars, 1907. I
P. parvus s.l. (Claus, 1863). III, IV
P. quasimodo Bowman, 1971. I, II
Parvocalanus crassirostris (Dahl, 1894). II

Family Phaennidae Sars, 1903

Cephalophanes tectus (Esterly, 1911). I, II,
 III
Cornucalanus indicus Sewell, 1929. I
Phaenna spinifera Claus, 1863. I, II, III
Xanthocalanus agilis Giesbrecht, 1892. I, II
X. paululus Park, 1970. I, II

Family Pontellidae Dana, 1852

Anomalocera ornata Sutcliffe, 1949. I
Calanopia americana Dahl, 1894. I, II
Labidocera acuta (Dana, 1849). III, IV
L. acutifrons (Dana, 1852). I, II, III, IV
L. aestiva Wheeler, 1901. I, II
L. detruncata (Dana, 1849). III, IV
L. diandra Fleminger, 1967. III, IV
L. euchaeta Giesbrecht, 1888. III
L. johnsoni Fleminger, 1964. III, IV
L. jollae Esterly, 1906. III, IV
L. kolpos Fleminger, 1967. IV
L. lubbocki Giesbrecht, 1889. IV
L. minuta Giesbrecht, 1889. III, IV
L. mirabilis Fleminger, 1957. I, II
L. nerii (Krøyer, 1849). I, II, III
L. scotti Giesbrecht, 1897. I, II
L. trispinosa Esterly, 1905. III, IV
L. wilsoni Fleminger & Engchow, 1966. II
Pontella agassizi Giesbrecht, 1895. III, IV
P. armata Dana, 1849. III
P. atlantica (Milne-Edwards, 1840). I, II
P. fera Dana, 1849. III
P. lobiancoi (Canu, 1888). I
P. meadi Wheeler, 1901. I, II
P. mimocerami Fleminger, 1956. I, II
P. polydactyla Fleminger, 1956. I
P. securifer Brady, 1883. I, III
P. spinicauda Mori, 1937. III
P. spinipes Giesbrecht, 1889. III, IV
Pontellina plumata (Dana, 1849). I, II, III,
 IV

- P. platychela* Fleminger & Hulsemann, 1974. I
P. sobrina Fleminger & Hulsemann, 1974. III, IV
Pontellopsis sp. Brady, 1883. IV
P. brevis (Giesbrecht, 1889). I, II
P. lubbocki Giesbrecht, 1889. III, IV
P. occidentalis Esterly, 1906. III, IV
P. perspicax Dana, 1852. I, II
P. regalis Dana, 1852. I, III, IV
P. tenuicauda Giesbrecht, 1892. III
P. villosa Brady, 1883. III
P. yamadae Mori, 1937. III

Family Pseudocalanidae Boeck, 1872
Pseudocalanus elongatus (Boeck, 1865). IV

Family Pseudodiaptomidae Herrick, 1884

- Pseudodiaptomus acutus* (Dahl, 1894). II
P. cokeri González & Bowman, 1965. II
P. culebrensis Marsh, 1913. III, IV
P. euryhalinus Johnson, 1939. III, IV
P. marshi Wright, 1936. II
P. pelagicus Herrick, 1884. I
P. wrighti Johnson, 1964. IV

Family Scolecithricidae Giesbrecht, 1892

- Amalothrix gracilis* Sars, 1905. I
Lophothrix frontalis Giesbrecht, 1895. I, II
L. latipes Scott, 1894. I, II
Scaphocalanus curtus (Farran, 1926). IV
S. echinatus (Farran, 1905). I, IV
S. magnus (Scott, 1909). III
Scolecithrix bradyi Giesbrecht, 1888. I, II, III, IV
S. danae (Lubbock, 1856). I, II, III, IV
S. elephas Esterly, 1913. III
S. longirostris Esterly, 1913. III
S. mollis Esterly, 1913. III
S. obscura Esterly, 1913. III
S. pacifica Esterly, 1905. III
Scolecithricella abyssalis (Giesbrecht, 1892). III, IV
S. ctenopus (Giesbrecht, 1888). III, IV
S. dentata (Giesbrecht, 1892). I, II
S. emarginata (Farran, 1905). IV
S. lobophora Park, 1970. I
S. marginata (Giesbrecht, 1888). III
S. nicobarica Sewell, 1929. III, IV
S. pseudoarcuata Park, 1970. I

- S. tenuiserrata* Giesbrecht, 1892. I, III
S. vittata (Giesbrecht, 1892). I
Scottocalanus australis Farran, 1936. I
S. packusi Grice, 1969. I
S. corystes Owre & Foyo, 1967. I, II
S. helenae Lubbock, 1856. I, II
S. persekans Giesbrecht, 1895. I, II
S. securifrons (Scott, 1912). I, II
S. thomasi Scott, 1909. I, II

Family Spinocalanidae Vervoort, 1951

- Isaacsicalanus paucisetus* Fleminger, 1983. IV
Mimocalanus crassus Park, 1970. I
M. heronae Damkaer, 1975. III?
Spinocalanus abyssalis (Giesbrecht, 1888). III

Family Stephidae Sars, 1902

- Stephos deichmannae* Fleminger, 1956. I

Family Temoridae Giesbrecht, 1892

- Eurytemora affinis* (Poppe, 1880). I, III, IV
E. hirundooides (Nordquist, 1888). I, IV
Temora discaudata Giesbrecht, 1889. III, IV
T. stylifera (Dana, 1852). I, II
T. turbinata (Dana, 1852). I, II, III, IV
Temoropia mayumbaensis Scott, 1894. I, II, IV

Family Tharybidae Sars, 1902

- Parundinella manricula* Fleminger, 1956. I
P. spinodenticulata Fleminger, 1956. I

Family Tortanidae Sars, 1902

- Tortanus angularis* Ohtsuka, 1992. II
T. setacaudatus Williams, 1906. I

Superorder Podoplea

Order Cyclopoida Burmeister, 1843

Family Oithonidae Dana, 1853

- Oithona alvarezi* Lindberg, 1955. III
O. atlantica Farran, 1908. I, II
O. attenuata Farran, 1913. III
O. brevicornis Giesbrecht, 1891. I
O. decipiens Farran, 1913. III
O. fallax Farran, 1913. III
O. fonsecae Ferrari & Bowman, 1980. I
O. hebes Giesbrecht, 1891. I
O. nana Giesbrecht, 1892. I, II, III, IV

O. oculata Farran, 1913. I, II
O. oswaldocruzi Oliveira, 1945. I, II
O. plumifera Baird, 1843. I, II, III, IV
O. rigida Giesbrecht, 1896. III
O. robusta Giesbrecht, 1891. I, II, III, IV
O. setigera (Dana, 1849). I, II, III, IV
O. similis Claus, 1866. III
O. simplex Farran, 1913. I, II
O. tenuis Rosendorn, 1917. III
Paroithona parvula Farran, 1908. III

Family Thaumatopsyllidae Sars, 1913

Caribeopsyllus chawayi Suárez-Morales, 1998. II

Order Monstrilloidea Sars, 1901

Family Monstrillidae Dana, 1849

Cymbasoma boumani Suárez-Morales & Gasca, 1997. II
C. boxshalli (Suárez-Morales, 1993c). II
C. quintanarooensis (Suárez-Morales, 1994). II
C. chelemense Suárez-Morales & Escamilla, 1997. I
Monstrilla barbata Suárez-Morales & Gasca, 1992. II
M. bitumida Suárez-Morales & Palomares-García, 1995. IV
M. elongata Suárez-Morales, 1994. II
M. mariaeugeniae Suárez-Morales & Islas-Landeros, 1993. II
M. reidae Suárez-Morales, 1993a. II
M. rebis Suárez-Morales, 1993b. II
M. spinosa Park, 1967. III
Monstrillopsis cigroi Suárez-Morales, 1993b. II

Order Poecilostomatoida

Family Clausidiidae Embleton, 1901

Hyphalion captans Humes, 1987. IV
Sapphireella tropica Wolfenden, 1906. II, III

Family Corycaeidae Dana, 1849

Corycaeus affinis McMurrich, 1916. III
C. amazonicus Dahl, 1894. II
C. anglicus Lubbock, 1857. IV
C. brehmi Steuer, 1910. III, IV
C. catus Dahl, 1894. I, II
C. clausi Dahl, 1894. I, IV
C. crassiusculus Dana, 1849. III, IV

C. dubius Farran, 1911. III, IV
C. flaccus Giesbrecht, 1891. I, II, III, IV
C. furcifer Claus, 1863. I, II
C. japonicus Mori, 1937. III, IV
C. latus Dana, 1849. I, II, III, IV
C. lautus Dana, 1849. I, II, III, IV
C. limbatus Brady, 1883. I, II
C. longistylis Dana, 1849. III
C. obtusus Dana, 1849. IV
C. ovalis Claus, 1863. IV
C. pacificus Dahl, 1894. III
C. robustus Giesbrecht, 1891. III
C. speciosus Dana, 1849. I, II, III, IV
C. subulatus Herrick, 1887. II
C. trukicus Mori, 1937. IV
C. typicus (Krøyer, 1849). I, II
Farranula carinata (Giesbrecht, 1891). I, II
F. gibbula (Giesbrecht, 1891). III
F. gracilis (Dana, 1849). I, II
F. rostrata (Claus, 1863). I, II, IV

Family Erebonasteridae Humes, 1987

Erebonaster protentipes Humes, 1987. IV
Laitmatobius crinitus Humes, 1987. IV

Family Lichomolgidae Kossman, 1877

Macrochiron sargassi Sars, 1916. II

Family Oncaeidae Giesbrecht, 1892

Lubbockia aculeata Giesbrecht, 1891. I, III
L. squillimana Claus, 1863. I, II, III
Oncaea conifera Giesbrecht, 1891. I, II, IV
O. media Giesbrecht, 1891. I, II, IV
O. media f. *major* Sewell, 1947. I
O. mediterranea (Claus, 1863). I, II,
O. minuta Giesbrecht, 1892. IV
O. ornata Giesbrecht, 1891. I, II
O. notopus Giesbrecht, 1891. I, II
O. praeclara Humes, 1988. IV
O. venusta Philippi, 1843. I, II, IV
Pachos punctatum (Claus, 1863). I, II, III
P. dentatum (Mori, 1932). III

Family Sapphirinidae Thorell, 1859

Copilia mirabilis Dana, 1849. I, II, III, IV
C. quadrata Dana, 1849. I, II, III, IV
C. vitrea (Haeckel, 1864). I, II, III

- C. longistylis* Mori, 1932. III
Sapphirina angusta Dana, 1849. I, II, III
S. bicuspidata Giesbrecht, 1891. I
S. auronitens Claus, 1863. I, II
S. darwini Haeckel, 1864. III
S. gastrica Giesbrecht, 1891. III
S. gemma Dana, 1849. IV. I, II
S. intestinata Giesbrecht, 1891. I
S. metallina Dana, 1849. I, II, III
S. nigromaculata Claus, 1863. I, II, III, IV
S. opalina Dana, 1849. I, II, III, IV
S. ovatolanceolata Dana, 1849. I, II
S. scarlata Giesbrecht, 1891. I
S. stellata Giesbrecht, 1891. I, II
- Order Harpacticoida** Sars, 1903 b
Family Aegisthidae Giesbrecht, 1892
Aegisthus mucronatus Giesbrecht, 1891. I
- Family Ameiridae** Monard, 1927
Nitokra laingensis Fiers, 1986. I
- Family Canthocamptidae** Sars, 1911
Mesochra pacifica Gómez-Noguera & Fiers, 1997. III
M. pseudoparva Gómez-Noguera & Fiers, 1997. III
- Family Canuellidae** Lang, 1944
Ellucana secunda Coull, 1971. II
- Family Cletodidae** Sars, 1911
Actinocletodes woutersi Fiers, 1986. I
Enhydrosoma lacunae Jakubisiak, 1932. I
Triathrix goldi Fiers, 1997. I
Schizothrix sp. Fiers, 1997. I
- Family Clytemnestridae** Scott, 1909
Clytemnestra scutellata Dana, 1848. I, II, III
C. rostrata (Brady, 1883). I, III
- Family Ectinosomatidae** Oloffson, 1917
Microsetella rosea (Dana, 1848). I, II, III, IV
M. norvegica (Boeck, 1846). III, IV
- Family Laophontidae** Scott, 1912
Folioquinpes chathamensis (Sars, 1905). I
Laophonte cornuta Philippi, 1840. II
Loureirophonte majahualensis Fiers, 1993. II
Mexicolaophonte arganoi Cottarelli, 1977. II
Onychocamptus mohammed (Blanchard & Richard, 1891). I
Paralaophontodes echinatus (Willey, 1931). I
- Family Longipediidae** Sars, 1911
Longipedia americana Wells, 1980. I
- Family Louriniidae** Sars, 1911
Lourinia armata (Claus, 1866). II
- Family Metidae** Philippi, 1843
Metis holothuriae (Edwards, 1891). II
- Family Miraciidae** Dana, 1846
Macrosetella gracilis (Dana, 1848). I, II, III, IV
Miracia efferata Dana, 1852. I, II
M. minor Scott, 1893. I
Oculosetella gracilis Dana, 1852. I
- Family Tachidiidae** Sars, 1909
Euterpina acutifrons Dana, 1852. I, II, III, IV
Microarthridion vazquezi Gómez-Noguera & Fiers, 1997. III
- Family Tegastidae** Norman, 1911
Tegastes intermedius (Herrick, 1887). I
- Family Tetragonicipitidae** Lang, 1944
Diagoniceps mexicana Fiers, 1995. I
Godianiceps maya Fiers, 1995. II
Odaginiceps clarkae Fiers, 1995. II
O. xamaneki Fiers, 1995. I
Oniscopsis robinsoni Chappuis & Delamare, 1956. I
Phyllopodopsyllus yucatanensis Fiers, 1995. I
- Family Thalestridae** Sars, 1905
Rhynchothalestris rufocincta (Brady, 1880). II
- Order Siphonostomatoida** Thorell, 1859
Family Dirivultidae Humes & Dojiri, 1980
Aphotopontius arcuatus Humes, 1987. III
A. baculigerus Humes, 1987. III

- A. flexispina* Humes, 1987. III
A. limatulus Humes, 1987. III
A. mammillatus Humes, 1987. III, IV
Ceuthocetes aliger Humes & Dojiri, 1980. III
C. acanthothrix Humes, 1987. III
C. cristatus Humes, 1987. III
C. introversus Humes, 1987. III
Ecbathyron prolixicauda Humes, 1987. III
Exrima singula Humes, 1987. III
Nilva torifera Humes, 1987. III
Rhogobius contractus Humes, 1987. III
Stygiopontius appositus Humes, 1989. III
S. cinctiger Humes, 1987. III
S. flexus Humes, 1987. IV
S. hispidulus Humes, 1987. III
S. lumiger Humes, 1989. III
S. mucroniferus Humes, 1987. IV
S. paxillifer Humes, 1989. III
S. sentifer Humes, 1987. III
S. verruculatus Humes, 1987. III
Family Pontoeciellidae Giesbrecht, 1895
Pontoeciella abyssicola Giesbrecht, 1895. I
Family Ratanidae Giesbrecht, 1897
Ratania flava Giesbrecht, 1891. I
 479 species

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