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**Checklist of Monogenea parasites of freshwater and marine fishes,
amphibians and reptiles from Mexico, Central America and
Caribbean**

ANNA KOHN, SIMONE C. COHEN & GUILLERMO SALGADO-MALDONADO



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Checklist of Monogenea parasites of freshwater and marine fishes, amphibians and reptiles from Mexico, Central America and Caribbean

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Abstract

Two hundred and ten species from Mexico, 155 from the Caribbean (Bahamas, Bermuda, Cuba, the Dominican Republic, Guadeloupe, Jamaica, Puerto Rico and Trinidad) and 63 from Central America (Costa Rica, El Salvador, Guatemala, Nicaragua and Panama) with hosts and geographical distribution are listed in this contribution, bringing up to date the knowledge of Latin America monogenean fauna. A host parasite list with the monogenean species is presented.

Key words: Monogenea, Mexico, Central America, Caribbean, freshwater and marine fishes, amphibians, reptiles

Introduction

Mexico is bordered by the United States to the north, Belize and Guatemala to the southeast, the Gulf of California to the west and the Gulf of Mexico and the Caribbean Sea to the east. Mexico is positioned in the transition area between the Neotropical and Nearctic biogeographic regions. This explains the diversity and endemism characteristics of its biota. Central America is the region located between the southern border of Mexico and the northwest border of Colombia, in South America. It consists of several countries and Monogenea are recorded in most of them: Costa Rica, El Salvador, Guatemala, Nicaragua and Panama. The Caribbean Sea is a tropical body of water adjacent to the Atlantic Ocean and southeast of the Gulf of Mexico. Monogenean species were studied in the Bahamas, Bermuda, Puerto Rico, the Dominican Republic, Cuba, Guadeloupe, Jamaica, and Trinidad.

The first species of Monogenea from these regions were *Ancyrocotyle bartschii* from Puerto Rico and *Ancyrocephalus atherinae*, the only species from Dominican Republic, described in 1934 by Price, followed by *Capsala poyei* by Perez-Vigueras from Cuba in 1935. From 1938 on, several authors such as Caballero y Caballero, Bravo-Hollis, Meserve and Price increased the study of this group of parasites.

Monogenea species compilations for Tropical America have been done by Lamothe-Argumedo & Jaimes-Cruz (1982) and Thatcher (1991) and for South America more recently, by Kohn & Cohen (1998) and Kohn & Paiva (2000). In order to extend our knowledge to all of Latin America, a checklist of this class of parasites recorded in Mexico, Central America and Caribbean is presented.

We have attempted to include in one paper all published reports based on original records and some published in journals not easily available.

Material and methods

The species of Monogenea are presented in alphabetical order according to taxa followed

by hosts, sites, localities, references and country. The references of the authors are arranged chronologically.

The adopted valid names of parasitized fishes, follow the most recent bibliography and sometimes do not correspond to the names of parasite references. Classes, orders and families of the list of parasitized fishes are presented according Froese & Pauly (2006), followed by the monogenean species and the country. The codes of countries/regions are the following: BA=Bahamas; CB=Caribbean Sea, CB=Cuba; CR=Costa Rica; DR=Dominican Republic; ES=El Salvador; GD=Guadeloupe; GT=Guatemala; JM=Jamaica; ME=Mexico; NI=Nicaragua; PA=Panama; TR=Trinidad.

Mention of the monogenean and host species in this list does not imply that the authors agree with their validity or taxonomy. The species referred to in thesis and scientific meetings do not constitute formal publication and are, consequently, not considered herein.

Results

Subclass Polyonchoinea Bychowsky, 1937

Family Monocotylidae Taschenberg, 1879

Anoplocotylodes papillatus (Doran, 1953) Young, 1967

Syn: *Heterocotyle papillata* Doran, 1953

Host, site and locality:

Rhinobatos glaucostigma Jordan & Gilbert (gills)

Sinaloa (Bravo-Hollis 1969), Mexico

Calicotyle asterii (Szidat, 1970) Suriano, 1977

Syn: *Paracalicotyle asterii* Szidat, 1970

Host, site and locality:

Mustelus norrisi Springer (cloaca)

Gulf of Mexico (Chisholm *et al.* 1997), Mexico

Calicotyle kroyeri Diesing, 1850

Hosts, sites and locality:

Anacanthobatis folirostris (Bigelow & Schroeder) (cloaca, rectum and rectal gland)

Dipturus olseni (Bigelow & Schroeder) [= *Raja olseni* Bigelow & Schroeder] (cloaca, rectum and rectal gland)

Gulf of Mexico (Chisholm *et al.* 1997), Mexico

Calicotyle stossichi Braun, 1899

Host, sites and locality:

Mustelus norrisi (cloaca, rectum and rectal gland)

Gulf of Mexico (Chisholm *et al.* 1997), Mexico

Decacotyle floridana (Pratt, 1910) Chisholm & Whittington, 1998

Syn: *Heterocotyle floridana* Platt, 1910

Host, site and localities:

Aetobatus narinari (Euphrasen) (gills)

Campeche and Quintana Roo (Lamothe-Argumedo *et al.* 1996; Pulido-Flores & Monks, 2005), Mexico

Remarks: Referred to as *Heterocotyle aetobatis* by Lamothe-Argumedo *et al.* 1996

Dendromocotyle cortesi Bravo-Hollis, 1969

Host, site and locality:

non identified “mantarraya gris” (external dorsal surface of body)

Baja California (Bravo-Hollis 1969), Mexico

Dendromocotyle octodiscus Hargis, 1955

Hosts, sites and localities:

Dasyatis americana Hildebrand & Schroeder (skin, dorsal surface)

Bimini (Snelson *et al.* 1990), Bahamas

Quintana Roo, Yucatan (Pulido-Flores & Monks 2005), Mexico

Urobatis jamaicensis (Cuvier) (skin, dorsal surface)

Quintana Roo, Yucatan (Pulido-Flores & Monks 2005), Mexico

Remarks: Referred to as *Dendromocotyle* sp. by Snelson *et al.* 1990

Spinuris mexicana Bravo-Hollis, 1969

Host, site and locality:

Rhinobatos glaucostigma (gills)

Sinaloa (Bravo-Hollis 1969), Mexico

Spinuris zapterygis Gomez del Prado & Euzet, 1999

Host, site and locality:

Zapteryx exasperata (Jordan & Gilbert) (gills)

Baja California Sur (Gomez del Prado & Euzet 1999), Mexico

Family Loimoidae Price, 1936

Loimos parawilsoni Bravo-Hollis, 1970

Host, site and locality:

Sphyrna lewini (Griffith & Smith) (gills)

Sinaloa (Bravo-Hollis 1970), Mexico

Loimos winteri Caballero & Bravo-Hollis, 1961

Host, site and locality:

Carcharinus obscurus (Lesueur) [= *C. lamiella* Jordan & Gilbert] (gills)

Sonora (Caballero & Bravo-Hollis 1961b), Mexico

Loimosina parawilsoni Bravo-Hollis, 1970

Host, site and locality:

Sphyrna lewini (gills)

Sinaloa (Bravo-Hollis 1970), Mexico

Loimosina wilsoni Manter, 1944

Host, site and locality:

Sphyrna zygaena (Linnaeus) (gills)

Jamaica Bay (Manter 1944), Jamaica

Family Capsalidae Baird, 1853

Ancyrocotyle bartschi Price, 1934

Host, site and locality:

Naucrates ductor (Linnaeus) (gills)

Puerto Rico Deep (Price 1934), Puerto Rico

Benedenia anadenea Meserve, 1938

Host, site and locality:

Mycteroperca sp. (gills)

Socorro Island (Meserve 1938), Mexico

Remarks: According to Price (1939a), *B. anadenea* is synonym of *B. adenea* Meserve, 1938

Benedenia jalisciana Bravo-Hollis, 1951

Hosts, site and localities:

Epinephelus analogus Gill (gills)

Guerrero (Bravo-Hollis & Caballero-Deloya 1973), Mexico

Epinephelus labriformis (Jenyns) (gills)

Jalisco (Bravo-Hollis 1951), Mexico

Benedenia convoluta (Yamaguti, 1937) Price, 1939

Host, site and locality:

Epinephelus labriformis (gills)

Jalisco (Bravo-Hollis 1953), Mexico

Benedenia sp.

Host, site and locality:

Oreochromis aureus (Steindachner) [= *Tilapia aurea* (Steindachner)] (external surface)

Unknown (cultivated) (Prieto *et al.* 1986), Cuba

Benedeniella posterocolpa (Hargis, 1955) Yamaguti, 1963

Syn: *Benedenia posterocolpa* Hargis, 1955

Host, sites and locality:

Rhinoptera bonasus (Mitchill) (skin, ventral surface)

Campeche (Pulido-Flores & Monks 2005), Mexico

Caballerocotyla caballeroi (Winter, 1955) Price, 1960

Syn: *Capsala caballeroi* Winter, 1955

Host, site and locality:

Sarda orientalis (Temminck & Schlegel) (gills)

Guerrero (Winter 1955; Price 1963), Mexico

Caballerocotyla gotoi (Yamaguti, 1968) Oliva, 1986

Syn: *Capsala gotoi* Yamaguti, 1968

Host, site and locality:

Thunnus albacares Bonnaterre [= *Neothunnus macropterus* (Temminck & Schlegel, 1842)] (gills)

Havana (Egorova 1989), Cuba

Caballerocotyla manteri (Price, 1951) Price, 1960

Syn: *Capsala manteri* Price, 1951

Host, site and locality:

Acanthocybium solandri (Cuvier) (gills)

Off La Parguera (Williams & Bunkley-Williams 1996), Puerto Rico

Caballerocotyla neothunni (Yamaguti, 1968) Oliva, 1986

Syn: *Capsala neothunni* Yamaguti, 1968

Host, site and locality:

Thunnus albacares (= *Neothunnus macropterus*) (gills)

Havana (Egorova 1989), Cuba

Caballerocotyla nozawae (Goto, 1894) Egorova, 1989

Syn: *Tristomum nozawae* Goto, 1894

Host, site and locality:

Thunnus albacares (= *Neothunnus macropterus*) (gills)

Havana (Egorova 1989), Cuba

Capsala martinieri Bosc, 1811

Host, site and locality:

Mola mola (Linnaeus) (external surface)

Matanzas (Perez-Vigueras 1955), Cuba

Capsala ovalis (Goto, 1894) Price, 1938

Syn: *Tristoma ovale* Goto, 1894

Hosts, site and locality:

Istiophorus platypterus (Shaw) [= *I. orientalis* (Temminck & Schlegel) and = *Istiophorus greyi* Jordan & Evermann] (gills)

Makaira indica (Cuvier) [= *Makaira marlina* Jordan & Hill] [= *Istiompax marlina* (Jordan & Hill) (gills)

Makaira nigricans Lacepède (= *Makaira ampla* (Poey) (gills)

Tetrapturus angustirostris Tanaka (gills)

Tetrapturus audax (Philippi) [= *Makaira mitzukurii* (Jordan & Snyder) and *Makaira audax* (Philippi)] (gills)

Havana (Egorova 1989), Cuba

- Capsala poeyi* (Perez-Vigueras, 1935) Price, 1938
Syn: *Tristomum poeyi* Perez-Vigueras, 1935
Host, site and locality:
Makaira nigricans (= *M. ampla*) (skin)
Havana (Perez-Vigueras 1935; Price 1938a; Perez-Vigueras 1955), Cuba
- Capsaloides cornutus* (Verrill, 1875) Price, 1938
Syn: *Capsala cornutus* Verrill, 1875
Host, site and locality:
Tetrapturus pfluegeri Robins & De Sylva (gills)
Aguadilla (Williams & Bunkley-Williams 1996), Puerto Rico
- Capsaloides cristatus* Yamaguti, 1968
Hosts, site and locality:
Makaira sp. (gills)
Havana (Egorova 1989), Cuba
Tetrapturus angustirostris (gills)
Havana (Egorova 1989), Cuba
- Capsaloides hofmannae* Lamothe-Argumedo, 1996
Host, site and locality:
Tetrapturus audax (gills)
Sinaloa (Lamothe-Argumedo 1996), Mexico
- Capsaloides istiophori* Yamaguti, 1968
Hosts, site and locality:
Istiophorus platypterus (= *I. orientalis*) (gills)
Tetrapturus audax (= *Makaira audax*) (gills)
Havana (Egorova 1989), Cuba
- Capsaloides magnaspinosa* Price, 1939
Host, site and locality:
Tetrapturus pfluegeri (gills)
Aguadilla (Williams and Bunkley-Williams 1996), Puerto Rico
- Capsaloides marielenae* (Lamothe-Argumedo, 1968) Lamothe-Argumedo, 1996
Syn: *Caballerocotyla marielenae* Lamothe-Argumedo, 1968
Host, site and locality:
Istiophorus platypterus (= *Istiophorus greyi*) (gills)
Oaxaca (Lamothe-Argumedo 1968), Mexico
- Capsaloides sinuatus* Yamaguti, 1968
Host, site and locality:
Tetrapturus audax (gills)
Sinaloa (Lamothe-Argumedo & Pulido-Flores 1998), Mexico
- Encotyllabe lintoni* Monticelli, 1909
Host, site and locality:

- Calamus calamus* (Valenciennes) (gills)
Bermuda Biological Station for Research, Flatts (Price 1939 a), Bermuda
- Encotyllabe monticelli* Perez Viguera, 1940
Host, site and locality:
Calamus bajonado (Bloch & Schneider) (post mouth)
Havana (Perez-Viguera 1940; Perez-Viguera 1955), Cuba
- Encotyllabe pagrosomi* Mac Callum, 1917
Host, site and locality:
Pomadasys macracanthus (Günther) (gills)
Sinaloa (Bravo-Hollis 1957), México
- Encotyllabe* sp.
Host, site and locality:
Eugerres plumieri (Cuvier) [= *Diapterus plumieri* (Cuvier)] (gills)
Tabasco (López-Jiménez 2001), Mexico
- Entobdella guberleti* Caballero & Bravo-Hollis, 1962
Host, site and locality:
Urobatis halleri (Cooper) (gills)
Sonora (Caballero & Bravo-Hollis 1962 b), Mexico
- Entobdella squamula* (Heath, 1902) Johnston, 1929
Syn: *Epidella squamula* Heath, 1902
Host, site and locality:
Paralichthys californicus (Ayres) (under surface of body, rarely gill chambers)
Gulf of Mexico (presumably) (Price 1939 a), Mexico
- Nasicola klawei* (Stunkard, 1962) Yamaguti, 1968 (Capsalidae)
Syn: *Caballerototyla klawei* Stunkard, 1962
Hosts, site and localities:
Thunnus albacares (= *Neothunnus macropterus*) (nasal capsule)
Havana (Egorova 1989), Cuba
Mexican Pacific (Stunkard 1962), Mexico
off La Parguera, Desecheo Island, Boqueron (Williams and Bunkley-Williams 1996), Puerto Rico
Thunnus atlanticus (Lesson) (nasal capsule)
off La Parguera, Desecheo Island, Boqueron (Williams and Bunkley-Williams 1996), Puerto Rico
Thunnus obesus (Lowe) [= *Parathunnus sibi* Temminck & Schlegel] (nasal capsule)
Havana (Egorova 1989), Cuba
- Neobenedenia adenea* (Meserve, 1938) Yamaguti, 1963
Syn: *Benedenia adenea* Meserve, 1938
Hosts, site and localities:

Mycteroperca sp. (gills)

Socorro Island (Meserve 1938; Bravo-Hollis, 1957), Mexico

Mycteroperca rosacea (Streets) [= *M. pardalis* Gilbert] (gills)

Scarus perrico Jordan & Gilbert (gills)

Baja California (Bravo-Hollis 1957), Mexico

Neobenedenia isabellae (Meserve, 1938) Yamaguti, 1963

Syn: *Benedenia isabellae* Meserve, 1938

Hosts, site and locality:

Unidentified, grouper-like fish (gills)

Nayarit (Meserve 1938), Mexico

Mycteroperca olfax (Jenyns) (gills)

Nayarit (Lamothe-Argumedo 1963; Bravo-Hollis and Caballero-Deloya 1973), Mexico

Neobenedenia longiprostata Bravo-Hollis, 1971

Host, site and locality:

Epinephelus analogus (gills)

Baja California (Bravo-Hollis 1971), Mexico

Neobenedenia melleni (Mac Callum, 1927) Yamaguti, 1963

Syn: *Epibdella melleni* Mac Callum, 1927

Hosts, sites and localities:

Acanthurus chirurgus (Bloch) (skin, eye)

Unknown (Bunkley—Williams and Williams 1994), Puerto Rico

Acanthurus coeruleus Bloch & Schneider (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Aluterus scriptus (Osbeck) (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Balistes vetula Linnaeus (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Calamus calamus (eyes)

Exuma cays (Mueller *et al.*, 1994), Bahamas

Chaetodon capistratus Linnaeus (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Chaetodon ocellatus Bloch (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Chaetodon striatus Linnaeus (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

Coryphaena hippurus Linnaeus (unknown)

Exuma cays (Mueller *et al.* 1994), Bahamas

Diodon hystrix Linnaeus (unknown)

off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea

- Echeneis neucratoides* Zuiew (unknown)
off Mayaguez (Bullard *et al.* 2000), Puerto Rico
- Epinephelus guttatus* (Linnaeus) (unknown)
Exuma cays (Mueller *et al.* 1994), Bahamas
off La Parguera (Dyer *et al.* 1992b), Puerto Rico
- Epinephelus striatus* (Bloch) (unknown)
Exuma cays (Mueller *et al.* 1994), Bahamas
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Gambusia xanthosoma* Greenfield (skin)
Little Salt Creek, Grand Cayman Island, British West Indies (Bullard *et al.* 2000), Caribbean Sea
- Haemulon album* Cuvier (skin, head and body)
Exuma cays (Mueller *et al.* 1994), Bahamas
- Haemulon plumieri* (Lacepede) (eyes)
Exuma cays (Mueller *et al.* 1994), Bahamas
- Haemulon sciurus* (Shaw) (eyes)
Exuma cays (Mueller *et al.* 1994), Bahamas
- Holacanthus ciliaris* (Linnaeus) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Holacanthus tricolor* (Bloch) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Holocentrus adscensionis* (Osbeck) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Lactophrys bicaudalis* (Linnaeus) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Lutjanus apodus* (Walbaum) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
Exuma cays (Mueller *et al.* 1994), Bahamas
- Lutjanus synagris* (Linnaeus) (unknown)
Exuma cays (Mueller *et al.* 1994), Bahamas
- Melichthys niger* (Bloch) (= *M. bispinosus* Gibert) (unknown)
off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Mycteroperca rosacea* (= *M. pardalis*) (gills)
Baja California (Bravo-Hollis 1957), Mexico
- Ocyurus chrysurus* (Bloch) (skin, head and body)
Exuma cays (Gallet de St Aurin *et al.* 1990 ; Mueller *et al.* 1994), Bahamas
Little Salt Creek, Grand Cayman Island, British West Indies (Bullard *et al.* 2000), Caribbean Sea
- Oreochromis aureus* (= *Tilapia aurea*) (skin, eye)
Unknown (Bunkley – Williams and Williams 1994), Puerto Rico

- Oreochromis hornorum* x *O. mossambicus* hybrid (skin, head and body)
 Exuma Cays (Ernst *et al.* 1989; Gallet de St Aurin *et al.* 1990; Muller *et al.* 1992; Cowell *et al.* 1993; Ellis & Watanabe 1993), Bahamas
- Oreochromis mossambicus* (Peters) [= *Tilapia mossambica* (Peters)] (skin, eye)
 Unknown (Muller *et al.*, 1992), Bahamas
 Unknown (Bunkley – Williams and Williams 1994), Puerto Rico
- Oreochromis mossambicus* (= *T. mossambica*) x *O. urolepis* (Norman) [= *T. urolepis urolepis* Norman] hybrid (skin, eye)
 Unknown (Bunkley – Williams and Williams 1994), Puerto Rico
- Oreochromis* sp. (skin, head)
 Exuma Cays (Cowell *et al.* 1993), Bahamas
- Oreochromis* spp. (red hybrid tilapia) (skin, head)
 Unknown (Robinson *et al.* 1992), Jamaica
- Paracanthurus hepatus* (Linnaeus) (= *Acanthurus hepatus*)
 off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Pomacanthus arcuatus* (Linnaeus) (unknown)
 off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Pomacanthus paru* (Bloch) (unknown)
 off Bimini, British West Indies (Nigrelli 1947), Caribbean Sea
- Scarus perrico* (gills)
 Nayarit (Bravo-Hollis and Caballero-Deloya 1973), Mexico
- Seriola rivoliana* Valenciennes (unknown)
 Bermuda Aquarium (Whittington and Horton 1996), Bermuda
- Sphoeroides annulatus* Jenyns (= *Cheilichthys annulatus* (Jenyns))
 Sinaloa (Flores Crespo and Flores Crespo 2003, Fajer-Avila *et al.* 2004), Mexico
- Trachinotus goodei* Jordan & Evermann (skin)
 Little Salt Creek, Grand Cayman Island, British West Indies; off Bimini, British West Indies (Nigrelli 1947; Bullard *et al.* 2000), Caribbean Sea
- Remarks: Referred to as *Benedenia melleni* by Nigrelli (1947), to as *Neobenedenia girellae* (Hargis, 1955) Yamaguti, 1963 by Bravo-Hollis (1957) and Bravo-Hollis & Caballero-Deloya (1973) and to as *Neobenedenia pargueraensis* by Dyer *et al.* (1992b).
- Neobenedenia pacifica* Bravo-Hollis, 1971
 Hosts, sites and localities:
Mugil cephalus Linnaeus (gills)
 Baja California (Bravo-Hollis 1971), Mexico
Mugil curema Valenciennes (skin)
 Bucaná river (Bunkley-Williams and Williams 1994), Puerto Rico
- Sprostoniella lamothei* Pérez-Ponce de León & Mendoza-Garfias, 2000
 Host, site and locality:

- Chaetodipterus zonatus* (Girard) (gills)
Jalisco (Pérez-Ponce de León and Mendoza-Garfias 2000), Mexico
- Tristoma adcoecineum* Yamaguti, 1968
Host, site and locality:
Xiphias gladius Linnaeus (gills)
Havana (Egorova 1989), Cuba
- Tristoma adintegrum* Yamaguti, 1968
Host, site and locality:
Xiphias gladius (gills)
Havana (Egorova 1989), Cuba
- Tristomella laevis* (Verrill, 1875) Guiart, 1938
Syn: *Capsala laevis* Verrill, 1875
Hosts, site and localities:
Istiophorus albicans (Latreille) (gills)
Makaira nigricans (gills)
Tetrapturus albidus Poey (gills)
Vicinity of La Parguera, coastal waters of southwestern Puerto Rico, Desecheo Islands (northwestern coast), Arecibo, Aguadela (Dyer *et al.* 1992a; Williams and Bunkley-Williams 1996), Puerto Rico
Tetrapturus audax (gills)
Sinaloa (Lamothe-Argumedo and Pulido-Flores 1998), Mexico
Tetrapturus pfluegeri (gills)
Vicinity of La Parguera, coastal waters of southwestern Puerto Rico, Desecheo Islands (northwestern coast), Arecibo, Aguadela (Dyer *et al.* 1992a; Williams and Bunkley-Williams 1996), Puerto Rico
- Tristomella pricei* (Hidalgo, 1958) Price, 1960
Syn: *Capsala pricei* Hidalgo, 1958
Hosts, site and locality:
Makaira indica (= *Makaira marlina*) (skin)
Pacific Ocean, off Caracoles Point (Price 1960), Panama
Tetrapturus audax (= *Makaira mitzukurii*) (skin)
Sinaloa (Hidalgo 1958), Mexico
- Trochophus pseudomarginatus* Bravo-Hollis, 1957
Hosts, site and locality:
Epinephelus analogus (gills)
Epinephelus labriformis (Jenyns) (gills)
Jalisco (Bravo-Hollis 1957), Mexico
Remarks: Bravo-Hollis (1953) considered the Monogenea collected from *E. labriformis* as *Benedenia convoluta* Yamaguti, 1937 and in 1957 the author regarded this material as *T. pseudomarginatus*.

Family Dionchidae Johnston & Tiegs, 1922*Dionchus remorae* (MacCallum, 1916) Price, 1938

Host, site and locality:

Caranx hippos (Linnaeus) (gills)

Mar de Las Antillas (Price 1938b), Caribbean Sea

Family Gyrodactylidae Van Beneden & Hesse, 1863*Anacanthocotyle anacanthocotyle* Kritsky & Fritts, 1970

Hosts, sites and localities:

Astyanax aeneus (Günther) (fins)Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico*Astyanax fasciatus* (Cuvier) (external surface and fins)

Puntarenas (Kritsky and Fritts 1970), Costa Rica

Yucatán (Mendoza-Franco *et al.* 1999), Mexico*Gyrodactylus bullatarudis* Turnbull, 1956

Hosts, sites and localities:

Poecilia reticulata Peters (caudal fin, peduncle, head, opercula, pectoral fins)

Upper Guanapo River, Naranjo, Yarra, Paria, Quare, El Cedro, Arima at Tripps

Trace (Harris and Lyles 1992), Trinidad

Poecilia sphenops Valenciennes (external surface)

Puntarenas (Kritsky and Fritts 1970), Costa Rica

Gyrodactylus cichlidarum Paperna, 1968

Hosts, sites and locality:

Oreochromis aureus (= *Tilapia aurea*) (skin and fins)*Oreochromis mossambicus* (= *Tilapia mossambica*) (skin and fins)

Lajas Agricultural Experiment Station, Lucchetti (Bunkley-Williams and Williams 1994), Puerto Rico

Gyrodactylus costaricensis Kritsky & Fritts, 1970

Host, site and locality:

Poecilia sphenops (external surface)

Puntarenas (Kritsky & Fritts 1970), Costa Rica

Gyrodactylus neotropicalis Kritsky & Fritts, 1970

Hosts, sites and localities:

Astyanax fasciatus (external surface and fins)Puntarenas (Rodriguez-Ortíz *et al.* 2004), Costa RicaYucatán (Mendoza-Franco *et al.* 1999), Mexico*Poecilia sphenops* (external surface)

Puntarenas (Kritsky & Fritts 1970), Costa Rica

Gyrodactylus niloticus Cone, Arthur & Bondad-Reantaso, 1995

Hosts, sites and localities:

Oreochromis aureus (skin, surface)

Oreochromis mossambicus (skin, surface)

Oreochromis niloticus (Linnaeus) [= *Tilapia nilotica* (Linnaeus)] (skin)

Tabasco (López-Jiménez 2001; Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico

Gyrodactylus turnbulli Harris, 1986

Host, sites and localities:

Poecilia reticulata (caudal fin, peduncle, head, opercula, pectoral fins)

Upper Guanapo River, Naranjo, Yarra, Lower Guanapo River, Ceniza (Harris & Lyles 1992), Trinidad

Gyrodactylus sp.

Hosts, site and localities:

Astyanax aeneus (fins)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Astyanax mexicanum (De Fillipi) (fins)

Querétaro (Salgado-Maldonado, Cabañas-Carranza *et al.* 2004), Mexico

Carassius auratus auratus (Linnaeus) (fins)

Tamaulipas (Flores Crespo and Flores Crespo 2003), Mexico

Cichlasoma geddesi (Regan) [= *Herichthys geddesi*] (fins)

Yucatán, Campeche and Tabasco (Vidal-Martinez *et al.* 2001), Mexico

Cyprinus carpio (fins)

Tamaulipas (Flores Crespo and Flores Crespo 2003), Mexico

Dormitator maculatus (Bloch) (fins)

Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Erimystax xpunctatus (Hubbs & Crowe) [= *Hybopsis punctatus* Hubbs & Crowe] (fins)

Jalisco (Salgado-Maldonado, Cabañas-Carranza, Caspeta-Mandujano *et al.* 2001), Mexico

Gambusia yucatana Regan (fins)

Yucatán (Mendoza-Franco *et al.* 1999), Mexico

Gobiomorus dormitor Lacepède (fins)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Ictalurus punctatus (Rafinesque) (fins)

Oncorhynchus mykiss (Walbaum) (fins)

Tamaulipas (Flores Crespo and Flores Crespo 2003), Mexico

Oreochromis mossambicus (fins)

Sonora (Hernández-Martínez 1992), Mexico

Parachromis managuensis (Günther) [= *Cichlasoma managuense* (Günther)] (fins)

Yucatán, Campeche and Tabasco (Vidal-Martinez *et al.* 2001), Mexico

Poecilia mexicana Steindachner (fins)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Poecilia sphenops (fins)

Nayarit (Salgado-Maldonado, Cabañas-Carranza, Soto-Galera *et al.* 2001), Mexico

Poeciliopsis gracilis (Heckel) (fins)

Jalisco and Oaxaca (Salgado-Maldonado, Cabañas-Carranza, Caspeta-Mandujano *et al.* 2001; Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Poeciliopsis infans (Woolman) (fins)

Jalisco (Salgado-Maldonado, Cabañas-Carranza, Caspeta-Mandujano *et al.* 2001), Mexico

Rhamdia guatemalensis (Gunther) (fins)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Thorichthys aureus (Günther) [= *Cichlasoma aureum* (Gunther)] (fins)

Thorichthys helleri (Steindachner) [= *Cichlasoma helleri* (Steindachner)] (fins)

Thorichthys meeki Brind [= *Cichlasoma meeki* (Brind)] (fins)

Yucatán, Campeche and Tabasco (Vidal-Martinez *et al.* 2001), Mexico

Vieja fenestrata (Günther) (= *Cichlasoma fenestratum* Günther and *C. gadovii* Regan) (fins)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Gyrodactylus spp.

Host, site and localities:

Girardinichthys multiradiatus (Meek) (fins)

Michoacán and “Estado do Mexico” (Salgado-Maldonado, Cabañas-Carranza, Soto-Galera *et al.* 2001 as *Gyrodactylus elegans* Nordmann, 1932; Sánchez-Nava *et al.* 2004), Mexico

Remarks: After one of the authors (S. Maldonado), these records represent two new species, which will be published posteriorly.

Family Calceostomatidae Parona & Perugia, 1890

Acolpenteron ureteroecetes Fischtal & Allison, 1940

Hosts, sites and locality:

Micropterus coosae Hubbs & Bailey (urinary bladder and ureter)

Micropterus salmoides floridanus (urinary bladder and ureter)

Micropterus salmoides floridanus x *M. s. salmoides* hybrid (urinary bladder and ureter)

Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico

Paracalceostoma calceostomoides Caballero & Bravo-Hollis, 1959

Hosts, site and localities:

Haemulon scudderii Gill (gills)

Jalisco (Caballero & Bravo-Hollis 1959), Mexico

Verrunculus polylepis (Steindachner) (gills)
Sonora (Caballero & Bravo-Hollis 1962 b), Mexico

Family Tetraonchidae Monticelli, 1903

Mexicana bychowskyi Caballero & Bravo-Hollis, 1959

Host, site and locality:
non identified fish from the family Sciaenidae (gills)
Jalisco (Caballero & Bravo-Hollis 1959), Mexico

Mexicana littoralis Caballero & Bravo-Hollis, 1961

Hosts, site and localities:
Haemulon scudderi (gills)
Jalisco (Lamothe-Argumedo *et al.* 1996), Mexico
Haemulon sexfasciatum Gill (gills)
Sonora, Gulf of California (Caballero & Bravo-Hollis 1961b), Mexico

Tetraonchus sp.

Hosts, site and locality:
Oreochromis hornorum (Trewavas) (gills)
Oreochromis mossambicus (gills)
Morelos (Flores Crespo and Flores Crespo 2003), Mexico

Family Neotetraonchidae Bravo-Hollis, 1968

Neotetraonchus bychowskyi Bravo-Hollis, 1968

Host, site and locality:
Hexanematichthys seemani (Günther) [= *Galeichthys seemani* (Günther)] (gills)
Oaxaca (Bravo-Hollis 1968), Mexico

Family Dactylogyridae Bychowsky, 1937

Actinocleidus bursatus (Müller, 1936) Müller, 1937

Syn: *Clavunculus bursatus* Müller, 1936

Hosts, site and localities:
Micropterus coosae (gills)
Micropterus salmoides (Lacepede) (gills)
Micropterus salmoides floridanus x *M. s. salmoides* hybrid (gills)
Maricao Hatchery, Guajataca Reservoir; Loco, Toa Vaca, La Plata, Lucchetti
(Pomales and Williams 1980; Bunkley-Williams and Williams 1994), Puerto Rico

Actinocleidus cf. *fergusoni* Meserve, 1938

Host, site and locality:
Micropterus salmoides (gills)
Hidalgo (Aguilar-Aguilar *et al.* 2004), Mexico

Actinocleidus fusiformis (Müller, 1934) Müller, 1937

Syn: *Cleidodiscus fusiformis* Müller, 1934

Hosts, site and localities:

Micropterus salmoides (gills)

Maricao Hatchery, Guajataca Reservoir (Pomales and Williams 1980), Puerto Rico

Micropterus salmoides floridanus x *M. s. salmoides* hybrid (gills)

Maricao Hatchery, Guajataca Reservoir; La Plata; Lucchetti (Bunkley-Williams and Williams 1994), Puerto Rico

Actinocleidus gracilis Mueller, 1937

Hosts, site and locality:

Lepomis auritus (Linnaeus) (gills)

Lepomis macrochirus Rafinesque (gills)

Lepomis microlophus (Günther) (gills)

Maricao Hatchery, Cidra, Guajataca, Lucchetti, La Plata (Bunkley-Williams and Williams 1994), Puerto Rico

Ameloblastella chavarriai (Price, 1938) Kritsky, Mendoza-Franco & Scholz, 2000

Syn: *Cleidodiscus chavarriai* Price, 1938

Hosts, site and localities:

Rhamdia guatemalensis (gills)

Yucatán, Tabasco, Oaxaca and Veracruz (Mendoza-Franco *et al.* 1999; Kritsky *et al.* 2000, López-Jimenez 2001 Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Rhamdia laticauda (Kner) [= *Rhamdia rogersi* (Regan)] (gills)

San Pedro Montes de Oca (Price 1938a), Costa Rica

Rhamdia nicaraguensis (Günther) (gills)

Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Rhamdia quelen (Quoy & Gaimard) [= *Rhamdia sebae* (Cuvier)] (gills)

Cumuto River, near Coryal (Molnar *et al.* 1974), Trinidad

Remarks: Referred to as *Urocleidoides chavarriai* (Price, 1938) Molnar, Hanek & Fernando, 1974 by Molnar *et al.* (1974) and by Mendoza-Franco *et al.* (1999).

Anacanthorus spathulatus Kritsky, Thatcher & Kayton, 1979

Host, site and locality:

Colossoma macropomum (Cuvier) (gills)

Unknown (Prieto 1989), Cuba

Ancyrocephalus atherinae Price, 1934

Host, site and locality:

Hypoatherina harringtonensis (Goode) [= *Atherina araea* Jordan & Gilbert] (gills)

Samaná Bay, near Santa Barbara de Samaná (Price 1934, 1938a), Dominican

Republic

Ancyrocephalus sp.

Host, site and locality:

Agonostomus monticola (Bancroft) (gills)Jalisco (Salgado-Maldonado, Mercado-Silva *et al.* 2004), Mexico*Ancyrocephalus* sp. a

Host, site and locality:

Agonostomus monticola (gills)

Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico

Ancyrocephalus sp. b

Host, site and locality:

Astronotus ocellatus (Agassiz) (gills)

Unknown (Bunkley-Williams and Williams 1994), Puerto Rico

Ancyrocephalinae gen. sp.

Hosts, site and localities

Heterandria bimaculata (Heckel) (gills)Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico*Micropterus salmoides*Michoacan (Pérez-Ponce de León *et al.* 2000), Mexico*Parachromis friedrichstahlii* (Heckel) [= *Cichlasoma friedrichstahlii* (Heckel)] (gills)Quintana Roo (Vidal-Martínez, Aguirre-Macedo *et al.* 2001), Mexico*Trachinotus carolinus* (Linnaeus) (gills)

Campeche (Sánchez-Ramírez and Vidal-Martínez 2002), Mexico

Aphanoblastella travassosi (Price, 1938) Kritsky, Mendoza-Franco & Scholz, 2000Syn: *Cleidodiscus travassosi* Price, 1938

Hosts, site and localities:

Rhamdia guatemalensis (gills)Yucatán, Tabasco and Veracruz (Mendoza-Franco *et al.* 1999; Kritsky *et al.* 2000; López-Jimenez 2001; Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico*Rhamdia laticauda* (= *Rhamdia rogersi*) (gills)

San Pedro Montes de Oca (Price 1938a), Costa Rica

Rhamdia nicaraguensis (gills)Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua*Rhamdia quelen* (= *Rhamdia sebae*) (gills)Cumuto River, near Coryal (Molnar *et al.* 1974), TrinidadRemarks: Referred to as as *Urocleidoides travassosi* (Price, 1938) Molnar, Hanek & Fernando, 1974 by Molnar *et al.* (1974) and by Mendoza-Franco *et al.* (1999)

Atherinicus bychowskyi Zhukov, 1984

Host, site and locality:

Atherinomorus stipes (Müller & Troschel) [= *Atherina stipes* Müller & Troschel] (gills)

Havana (Zhukov 1984), Cuba

Atherinicus cubanus Zhukov, 1984

Host, site and locality:

Atherinomorus stipes (= *Atherina stipes*) (gills)

Havana (Zhukov 1984), Cuba

Atherinicus ophiocephalus Zhukov, 1984

Host, site and locality:

Atherinomorus stipes (= *Atherina stipes*) (gills)

Havana (Zhukov 1984), Cuba

Bychowskyimonogenea sogandaresi Caballero & Bravo-Hollis, 1969

Host, site and locality:

Tylosurus crocodilus crocodilus (Péron & Lesueur) [= *T. raphidoma* (Ranzini)] (gills)

Veracruz (Caballero & Bravo-Hollis 1969), Mexico

Cichlidogyrus dossoui Douellou, 1993

Host, site and localities:

Oreochromis niloticus niloticus * (gills)Yucatan, Tabasco and Campeche (Jiménez-García *et al.* 2001; López-Jiménez 2001; Vidal-Martínez, Aguirre-Macedo *et al.* 2001), Mexico

* african cichlids introduced in Mexico.

Cichlidogyrus haplochromii Paperna & Thurston, 1969

Host, site and locality:

Oreochromis niloticus niloticus * (gills)Yucatan (Jiménez-García *et al.* 2001), Mexico

* african cichlids introduced in Mexico.

Cichlidogyrus longicornis Paperna & Thurston, 1969

Hosts, site and localities:

Oreochromis aureus * (gills)*Oreochromis niloticus* * (gills)*Vieja fenestrata* (= *Cichlasoma fenestratum*)Veracruz, Yucatan (Jiménez-García *et al.* 2001), Mexico

* african cichlids introduced in Mexico.

Cichlidogyrus sclerosus Paperna & Thurston, 1969

Hosts, site and localities:

Cichlasoma urophthalmus (Günther) (gills)Tabasco (Salgado-Maldonado, Pineda-Lopez *et al.* 2005), Mexico

*Oreochromis aureus** (gills)

Unknown (Prieto *et al.* 1985), Cuba

Veracruz and Jalisco (Jimenez-Garcia *et al.* 2001); Salgado-Maldonado, Mercado-Silva *et al.* 2004), Mexico

Oreochromis hornorum (gills)

Unknown (Prieto *et al.* 1985), Cuba

Morelos (Flores Crespo and Flores Crespo 2003), Mexico

Oreochromis hornorum x *O. mossambicus* hybrid (gills)

Unknown (Prieto *et al.* 1985; Prieto & Fajer 1987), Cuba

Oreochromis mossambicus (gills)

Morelos (Flores Crespo and Flores Crespo 2003), Mexico

*Oreochromis niloticus** (gills)

Quintana Roo, Veracruz, Yucatan, Tabasco, Campeche and Morelos (Kritsky *et al.* 1994; Jimenez-Garcia *et al.* 2001; Lopez-Jimenez 2001; Vidal- Martinez *et al.* 2001; Flores Crespo and Flores Crespo (2003), Mexico

Vieja fenestrata (= *Cichlasoma fenestratum*) (gills)

Veracruz (Jimenez-Garcia *et al.* 2001), Mexico

* african cichlids introduced in Mexico.

Cichlidogyrus tilapiae Paperna, 1960

Hosts, site and localities:

*Oreochromis aureus** (= *Tilapia aurea*) (gills)

Unknown (Prieto & Fajer 1987), Cuba

Yucatán and Veracruz (Jiménez-García *et al.* 2001), Mexico

Maricao Hatchery, Guajataca, Lucchetti, Guayabal, Loco, Toa Vaca, Cidra, La Plata (Bunkley-Williams and Williams 1994), Puerto Rico

Oreochromis hornorum (gills)

Unknown (Prieto & Fajer 1987), Cuba

Oreochromis hornorum x *O. mossambicus* hybrid (gills)

Unknown (Prieto & Fajer 1987), Cuba

Oreochromis mossambicus (= *Tilapia mossambica*) (gills)

Maricao Hatchery, Guajataca, Lucchetti, Guayabal, Loco, Toa Vaca, Cidra, La Plata (Bunkley-Williams and Williams 1994), Puerto Rico

Oreochromis mossambicus (= *Tilapia mossambica*) x *O. urolepis* (= *T. urolepis urolepis*) hybrid (gills)

Maricao Hatchery, Guajataca, Lucchetti, Guayabal, Loco, Toa Vaca, Cidra, La Plata (Bunkley-Williams and Williams 1994), Puerto Rico

*Oreochromis niloticus** (= *Tilapia nilotica*) (gills)

Yucatan, Veracruz and Tabasco (Jiménez-García *et al.* 2001; Lopez-Jiménez 2001), Mexico

Maricao Hatchery, Guajataca, Lucchetti, Guayabal, Loco, Toa Vaca, Cidra, La

Plata (Bunkley-Williams and Williams 1994), Puerto Rico

Tilapia rendalli (Boulenger) (gills)

Maricao Hatchery, Guajataca, Lucchetti, Guayabal, Loco, Toa Vaca, Cidra, La

Plata (Bunkley-Williams and Williams 1994), Puerto Rico

Vieja fenestrata (= *Cichlasoma fenestratum*) (gills)

Yucatán and Veracruz (Jiménez-García *et al.* 2001), Mexico

* african cichlids introduced in Mexico.

Cleidodiscus floridanus Mueller, 1936

Hosts, site and locality:

Cyprinus carpio (gills)

Ictalurus punctatus (gills)

Nuevo León (Galaviz-Silva *et al.* 1990), Mexico

Cleidodiscus pricei Mueller, 1936

Hosts, site and locality:

Ameiurus catus (Linnaeus) (gills)

Ameiurus nebulosus (Lesueur) (gills)

Ictalurus punctatus (gills)

Unknown (Bunkley-Williams and Williams 1994), Puerto Rico

Curvianchoratus hexacleidus Hanek, Molnar & Fernando, 1974

Host, site and locality:

Steindachnerina argentea (Gill) [= *Curimata argentea* Gill] (gills)

Arouca River near D'Abadie (Hanek *et al.* 1974), Trinidad

Dactylogyrus anchoratus (Dujardim, 1845) Wagener, 1857

Host, site and locality:

Carassius auratus auratus (gills)

Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico

Dactylogyrus aristichthys Diesing, 1850

Host, site and locality:

Aristichthys nobilis (Richardson) (gills)

Unknown (Prieto *et al.* 1988), Cuba

Dactylogyrus bifurcatus Mizelle, 1937

Host, site and locality:

Pimephales promelas Rafinesque (gills)

Maricao Hatchery and Lajas Agricultural Experiment Station (Bunkley-Williams and Williams 1994), Puerto Rico

Dactylogyrus extensus Müller & Van Cleave, 1932

Hosts, site and locality:

Cyprinus carpio carpio (gills)

Coahuila (Galaviz-Silva *et al.* 1990), Mexico

unidentified carps (gills)

Coahuila (López-Jiménez 1987), Mexico

Dactylogyrus lamellatus Achmerov, 1952

Host, site and locality:

Ctenopharyngodon idella (Valenciennes) (= *C. idellus* (Valenciennes) (gills)

Unknown (Prieto *et al.* 1988), Cuba

Dactylogyrus mizellei Price, 1967

Host, site and locality:

Xiphophorus helleri Heckel (gills)

Unknown (Price 1967), Guatemala

Dactylogyrus nobilis Long & Yu, 1958

Host, site and locality:

Aristichthys nobilis (gills)

Unknown (Prieto *et al.* 1988), Cuba

Dactylogyrus sp.

Hosts, site and localities:

Algansea lacustris Steindachner (gills)

Morelos, Michoacan and Hidalgo (Flores-Crespo and Flores-Crespo 2003), Mexico

Algansea tincella (Valenciennes) [= *Algansea affinis* (Regan)] (gills)

Aztecuela sallaei (Günther) (= *Notropis sallaei* (Günther)] (gills)

Unknown (Price and Henderson, 1969), Mexico

Ctenopharyngodon idella (gills)

Morelos, Michoacan and Hidalgo (Flores-Crespo and Flores-Crespo 2003), Mexico

Cyprinella formosa (Girard) [= *Notropis formosus* (Girard)] (gills)

Cyprinella garmani (Jordan) (= *Notropis garmani* Jordan) (gills)

Cyprinella ornata (Girard) [= *Notropis ornatus* (Girard)] (gills)

Unknown (Price and Henderson, 1969), Mexico

Cyprinus carpio carpio (gills)

Morelos, Michoacan and Hidalgo (Flores-Crespo and Flores-Crespo 2003), Mexico

Dionda rasconis (Jordan & Snyder) (gills)

Gila conspersa Garman (gills)

Gila nigrescens (Girard) (gills)

Unknown (Price and Henderson, 1969), Mexico

Ictalurus punctatus (gills)

Morelos, Michoacan and Hidalgo (Flores-Crespo and Flores-Crespo 2003), Mexico

Notropis chihuahua Woolman (gills)

Notropis nazas (Meek) (gills)

- Notropis stramineus* (Cope) (gills)
Unknown (Price and Henderson, 1969), Mexico
- Oreochromis niloticus niloticus* (= *Tilapia nilotica*) (gills)
Morelos, Michoacan and Hidalgo (Flores Crespo *et al.* 1992; Flores-Crespo and Flores-Crespo 2003), Mexico
- Oreochromis* sp. (gills)
Morelos, Michoacan and Hidalgo (Flores Crespo *et al.* 1992; Flores-Crespo and Flores-Crespo 2003), Mexico
- Rhinichthys chrysogaster* (Girard) [= *Agosia chrysogaster* Girard] (gills)
Unknown (Price and Henderson, 1969), Mexico
- Dawestrema cycloancistrum* Price & Nowlin, 1967
Host, site and locality:
Arapaima gigas (Schinz) (gills)
Unknown (Prieto *et al.* 1987), Cuba
- Diversohamulus curvionchus* Zhukov, 1984
Host, site and locality:
Atherinomorus stipes (= *Atherina stipes*) (gills)
Havana (Zhukov 1984), Cuba
- Enterogyrus malmbergi* Bilong-Bilong, 1988
Hosts, site and locality:
*Oreochromis niloticus niloticus** (gills)
Tabasco (López-Jiménez 2001), Mexico
Thorichthys callolepis (Regan) [= *Cichlasoma callolepis* (Regan)] (gills)
Yucatán and Tabasco (Jiménez-García *et al.* 2001; López-Jiménez 2001), Mexico
- * african cichlids introduced in Mexico.
- Enterogyrus niloticus* Eid & Negm, 1987
Host, site and locality:
Oreochromis aureus (gills)
Tabasco (López-Jiménez 2001), Mexico
- Enterogyrus* sp.
Host, site and locality:
Oreochromis mossambicus (gills)
San Luis Potosi (Flores-Crespo and Flores-Crespo 2003), Mexico
- Euryhaliotrema fastigatum* (Zhukov, 1976) Kritsky & Boeger, 2002
Syn: *Haliotrema fastigatum* Zhukov, 1976
Hosts, site and locality:
Lutjanus apodus (gills)
Lutjanus jocu (Bloch & Schneider) (gills)
Havana (Zhukov 1976 a), Cuba

Euryhaliotrema longibaculum (Zhukov, 1976) Kritsky & Boeger, 2002

Syn: *Haliotrema longibaculum* Zhukov, 1976

Hosts, site and locality:

Lutjanus mahogoni (Cuvier) (gills)

Lutjanus synagris (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Euryhaliotrema paracanthi (Zhukov, 1976) Kritsky & Boeger, 2002

Syn: *Haliotrema paracanthi* Zhukov, 1976

Host, site and locality:

Lutjanus apodus (gills)

Havana (Zhukov 1976 a), Cuba

Euryhaliotrema sagmatum Kritsky & Boeger, 2002

Host, site and locality:

Umbrina xantii Gill (= *U. sinaloae* Scofield) (gills)

Jalisco (Kritsky & Boeger 2002), Mexico

Euryhaliotrema torquescirrus (Zhukov, 1976) Kritsky & Boeger, 2002

Syn: *Haliotrema torquescirrus* Zhukov, 1976

Hosts, site and locality:

Lutjanus synagris (gills)

Ocyurus chrysurus (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Euryhaliotrema tubocirrus (Zhukov, 1976) Kritsky & Boeger, 2002

Syn: *Haliotrema tubocirrus* Zhukov, 1976

Hosts, site and locality:

Lutjanus analis (Cuvier) (gills)

Lutjanus apodus (gills)

Lutjanus cyanopterus (Cuvier) (gills)

Lutjanus synagris (gills)

Rhomboplites aurorubens (Cuvier) (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Guavinella tropica Mendoza-Franco, Scholz & Cabañas-Carranza, 2003

Host, site and localities:

Gobiomorus dormitory (gills)

Veracruz, Jalisco and Tabasco (Mendoza-Franco, Scholz *et al.* 2003; Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005; Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico

Gussevia heterotilapiae Vidal-Martinez, Scholz & Aguirre-Macedo, 2001

- Host, site and locality:
Heterotilapia multispinosa (Günther) (gills)
Mahogany River (Vidal-Martinez, Scholz *et al.* 2001), Nicaragua
- Haliotrema amplimacrohamus* Zhukov, 1980
Host, site and locality:
Acanthurus chirurgus (gills)
Havana (Zhukov 1980 b), Cuba
- Haliotrema auribaculum* Zhukov, 1980
Host, site and locality:
Holocentrus adscensionis (gills)
Havana (Zhukov 1980 b), Cuba
- Haliotrema brevicirrus* Zhukov, 1980
Hosts, site and locality:
Chaetodon capistratus (gills)
Chaetodon ocellatus (gills)
Chaetodon striatus (gills)
Havana (Zhukov 1980a), Cuba
- Haliotrema brevicornigerum* Zhukov, 1981
Host, site and locality:
Pseudupeneus maculatus (Bloch) (gills)
Havana (Zhukov 1981), Cuba
- Haliotrema brevispirocirrus* Zhukov, 1981
Host, site and locality:
Haemulon striatum (Linnaeus) (gills)
Havana (Zhukov 1981), Cuba
- Haliotrema caballeroi* Euzet & Vala, 1976
Host, site and localities:
Pseudupeneus maculatus (gills)
Sainte Anne (Euzet & Vala 1976), Guadeloupe
- Haliotrema caraibensis* Euzet & Vala, 1976
Host, site and locality:
Pseudupeneus maculatus (gills)
Sainte Anne (Euzet & Vala 1976), Guadeloupe
- Haliotrema conspecta* Zhukov, 1980
Host, site and locality:
Sparisoma chrysopterum (Bloch & Schneider) (gills)
Havana (Zhukov 1980 a), Cuba
- Haliotrema cornigerum* Zhukov, 1976
Hosts, site and localities:
Lutjanus mahogoni (gills)

Lutjanus synagris (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Haliotrema curvicirrus Zhukov, 1980

Host, site and locality:

Holocentrus adscensionis (gills)

Havana (Zhukov 1980 b), Cuba

Haliotrema golvani Euzet & Vala, 1976

Host, site and locality:

Pseudupeneus maculatus (gills)

Sainte Anne (Euzet & Vala 1976), Guadeloupe

Haliotrema glandulosum Vala, Maillard & Overstreet, 1982

Hosts, site and localities:

Lactophrys bicaudalis (gills)

Lactophrys triqueter (Linnaeus) (gills)

Sainte Anne, Sainte Rose (Vala *et al.* 1982), Guadeloupe

Haliotrema gracilihamus Zhukov, 1976

Hosts, site and localities:

Lutjanus apodus (gills)

Lutjanus jocu (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Haliotrema guadeloupensis Vala, Maillard & Overstreet, 1982

Hosts, site and localities:

Lactophrys bicaudalis (gills)

Lactophrys triqueter (gills)

Sainte Anne, Bananier (Vala *et al.* 1982), Guadeloupe

Haliotrema heteracantha Zhukov, 1976

Hosts, site and localities:

Lutjanus apodus (gills)

Lutjanus mahogoni (gills)

Lutjanus synagris (gills)

Ocyurus chrysurus (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Haliotrema kritskyi Vala, Maillard & Overstreet, 1982

Host, site and locality:

Acanthostracion polygonius Poey (gills)

Sainte Anne (Vala *et al.* 1982), Guadeloupe

Remarks: *H. kritskyi* is a replacement name for *Parahaliotrema brevis* Mizelle

& Kritsky, 1969, which became a junior homonym.

Haliotrema lactophrys (Mac Callum, 1915) Vala, Maillard & Overstreet, 1982

Syn: *Diplectanum lactophrys* Mac Callum, 1915

Hosts, site and localities:

Acanthostracion polygonius (gills)

Acanthostracion quadricornis (Linnaeus) (= *Lactophrys quadricornis*) (gills)

Sainte Anne (Vala *et al.* 1982), Guadeloupe

Campeche (Vala *et al.* 1982), Mexico

Haliotrema longiangusticirrus Zhukov, 1981

Host, site and locality:

Haemulon striatum (gills)

Havana (Zhukov 1981), Cuba

Haliotrema longicornigerum Zhukov, 1981

Host, site and locality:

Pseudupeneus maculatus (gills)

Havana (Zhukov 1981), Cuba

Haliotrema longihamus Zhukov, 1976

Hosts, site and localities:

Lutjanus analis (gills)

Lutjanus synagris (gills)

Havana (Zhukov 1976 a), Cuba

Campeche (Zhukov 1976 a), Mexico

Haliotrema longirectocirrus Zhukov, 1980

Host, site and locality:

Holocentrus adscensionis (gills)

Havana (Zhukov 1980 b), Cuba

Haliotrema macrobaculum Zhukov, 1983

Hosts, site and localities:

Epinephelus morio (Valenciennes) (gills)

Mycteroperca microlepis (Goode & Bean) (gills)

Mycteroperca venenosa (Linnaeus) (gills)

Havana (Zhukov 1983), Cuba

Campeche (Zhukov 1983), Mexico

Haliotrema magnigastrohamus Zhukov, 1976

Hosts, site and localities:

Lutjanus analis (gills)

Lutjanus mahogoni (gills)

Lutjanus synagris (gills)

Ocyurus chrysurus (gills)

Havana (Zhukov 1976 a), Cuba

- Campeche (Zhukov 1976 a), Mexico
Haliotrema mediohamus Zhukov, 1983
Hosts, site and locality:
Calamus bajonado (gills)
Calamus calamus (gills)
Campeche (Zhukov 1983), Mexico
- Haliotrema minutum* Vala, Maillard & Overstreet, 1982
Host, site and locality:
Acanthostracion polygonius (gills)
Sainte Anne (Vala *et al.* 1982), Guadeloupe
- Haliotrema myripritsi* Zhukov, 1980
Host, site and locality:
Myripristis jacobus Cuvier (gills)
Havana (Zhukov 1980 b), Cuba
- Haliotrema papillibaculum* Zhukov, 1980
Host, site and locality:
Myripristis jacobus (gills)
Havana (Zhukov 1980 b), Cuba
- Haliotrema parvicirrus* Zhukov, 1983
Hosts, site and locality:
Calamus bajonado (gills)
Calamus calamus (gills)
Campeche (Zhukov 1983), Mexico
- Haliotrema pseudupenei* Zhukov, 1981
Host, site and locality:
Pseudupeneus maculates (gills)
Havana (Zhukov 1981), Cuba
- Haliotrema striatohamus* Zhukov, 1981
Hosts, site and localities:
Haemulon aurolineatum Cuvier [= *Bathystoma aurolineatum* (Cuvier)] (gills)
Haemulon carbonarium Poey (gills)
Haemulon flavolineatum (Desmarest) (gills)
Haemulon melanurum (Linnaeus) (gills)
Haemulon plumieri (gills)
Haemulon sciurus (gills)
off coast (Zhukov 1981), Cuba
Campeche (Zhukov 1981), Mexico
- Haliotrema tenuihamus* Zhukov, 1980
Host, site and locality:
Myripristis jacobus (gills)

- Havana (Zhukov 1980 b), Cuba
Haliotrema teuthis (Mac Callum, 1915)
Hosts, site and locality:
Acanthurus chirurgus (gills)
Acanthurus coeruleus (gills)
Havana (Zhukov 1980 b), Cuba
- Haliotrema torridum* Vala, Maillard & Overstreet, 1982
Hosts, site and locality:
Acanthostracion polygonius (gills)
Lactophrys triqueter (gills)
Sainte Anne and Sainte Rose (Vala *et al.* 1982), Guadeloupe
- Haliotrema tuberobaculum* Zhukov, 1980
Host, site and locality:
Scarus iseri (Bloch) [= *Scarus croicensis* Bloch] (gills)
Havana (Zhukov 1980 a), Cuba
- Haploleidus furcatus* Mueller, 1937
Hosts, site and locality:
Lepomis auritus (gills)
Lepomis macrochirus (gills)
Lepomis microlophus (gills)
Micropterus coosae (gills)
Micropterus salmoides floridanus (gills)
Micropterus salmoides floridanus x *M. s. salmoides* hybrid (gills)
Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico
- Jainus hexops* Kritsky & Leiby, 1972
Host, site and locality:
Astyanax fasciatus (gills)
Puntarenas (Kritsky & Leiby 1972), Costa Rica
- Ligictaluridus mirabilis* (Müeller, 1937)
Host, site and locality:
Ictalurus furcatus (Valenciennes) [= *I. meridionalis* (Günther)] (gills)
Tabasco (López-Jiménez 2001), Mexico
- Linguadactyloides brinkmanni* Thatcher & Kritsky, 1983
Host, site and locality:
Colossoma macropomum (gills)
Unknown (Prieto 1989), Cuba
- Mexicotrema bychowskyi* Lamothe-Argumedo, 1969
Host, site and locality:
Centropomus nigriscens Günther (gills)
Oaxaca (Lamothe-Argumedo 1969), Mexico

- Neohaliootrema abudehdufi* Zhukov, 1976
Host, site and locality:
Abudehduf saxatilis (Linnaeus) (gills)
Havana (Zhukov 1976 b), Cuba
- Neohaliootrema bychowskii* Zhukov, 1976
Host, site and locality:
Abudehduf saxatilis (gills)
Havana (Zhukov 1976 b), Cuba
- Neohaliootrema gracilis* Zhukov, 1976
Hosts, site and locality:
Abudehduf saxatilis (gills)
Abudehduf taurus (Müeller & Troschell) (gills)
Microspathodon chrysurus (Cuvier) (gills)
Havana (Zhukov 1976 b), Cuba
- Neohaliootrema macracanthum* Zhukov, 1976
Hosts, site and locality:
Abudehduf saxatilis (gills)
Abudehduf taurus (gills)
Havana (Zhukov 1976 b), Cuba
- Neohaliootrema nagibinae* Zhukov, 1976
Host, site and locality:
Microspathodon chrysurus (gills)
Havana (Zhukov 1976 b), Cuba
- Neohaliootrema problematicum* Zhukov, 1976
Host, site and locality:
Microspathodon chrysurus (gills)
Havana (Zhukov 1976 b), Cuba
- Onchocleidus ferox* (Mueller, 1934) Mueller, 1936
Syn: *Urocleidus ferox* Mueller, 1934
Host, site and locality:
Lepomis auritus (gills)
Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico
- Onchocleidus principalis* Mizelle, 1936
Hosts, site and locality:
Lepomis auritus (gills)
Micropterus salmoides floridanus (gills)
Micropterus salmoides floridanus x *M. s. salmoides* hybrid (gills)
Maricao Hatchery (Bunkley-Williams and Williams 1994), Puerto Rico
- Parahaliootrema cornutus* Mizelle & Kritsky, 1969
Host, site and localities:

- Bodianus pulchellus* Poey (gills)
Caribbean Sea (near Cuba) (Mizelle & Kritsky 1969), Cuba
- Parahaliotrema pacificus* Mizelle & Kritsky, 1969
Host, site and locality:
Johnrandallia nigrorostris (Gill) [= *Chaethodon nigrorostris* (Gill)] (gills)
Baja California (Mizelle & Kritsky 1969), Mexico
- Parahaliotrematoides chaetodipteri* (Caballero & Bravo-Hollis, 1960) Yamaguti, 1963
Syn: *Parancylodiscoides chaetodipteri* Caballero & Bravo-Hollis, 1960
Host, site and locality:
Chaetodipterus zonatus (gills)
Oaxaca (Caballero & Bravo-Hollis 1960), Mexico
- Paraneohaliotrema microspathodoni* Zhukov, 1976
Host, site and locality:
Microspathodon chrysurus (gills)
Havana (Zhukov 1976 b), Cuba
- Pavanelliella scaphiocotylus* Kritsky & Mendoza-Franco, 2003
Host, site and locality:
Rhamdia guatemalensis (nasal cavities)
Yucatán (Kritsky & Mendoza-Franco 2003), Mexico
- Pseudempleurosoma caranxi* (Gerasev, Gaevskaya & Kovaleva, 1987) Santos, Mourão & Cardenas, 2001
Syn: *Metadiplectanotrema caranxi* Gerasev, Gaevskaya & Kovaleva, 1987
Host, site and locality:
Carangoides ruber (Bloch) [= *Caranx ruber* (Bloch)] (gills)
Unknown (Gerasev *et al.* 1987), Cuba
- Pseudempleurosoma myripristi* (Gerasev, Gaevskaya & Kovaleva, 1987) Santos, Mourão & Cardenas, 2001
Syn: *Metadiplectanotrema myripristi* Gerasev, Gaevskaya & Kovaleva, 1987
Host, site and locality:
Myripristis jacobus (gills)
Unknown (Gerasev *et al.* 1987), Cuba
- Pseudohaliotrema mugilinus* (Hargis, 1955)
Syn: *Haliotrema mugilinus* Hargis, 1955
Host, site and locality:
Mugil curema (gills)
Unknown (Garcia and Williams 1985; Bunkley-Williams and Williams 1994), Puerto Rico
- Pseudohaliotrematoides* sp.
Host, site and locality:

- Eugerres plumieri* (gills)
 Tabasco (López-Jiménez 2001), Mexico
- Pseudotetrascistrum skrjabini* Caballero & Bravo-Hollis, 1961
 Host, site and locality:
Microlepidotus inornatus Gill (gills)
 Sonora (Caballero & Bravo-Hollis 1961a), Mexico
- Salsuginus bahamianus* (Hanek & Fernando, 1972) Murith & Beverley-Burton, 1985
 Syn: *Urocleidus bahamianus* Hanek & Fernando, 1972
 Host, site and locality:
Cyprinodon variegatus variegatus Lacépède (gills)
 New Providence Islands (Hanek & Fernando 1972), Bahamas
- Salsuginus bermudae* Rand & Wiles, 1987
 Hosts, site and localities:
Fundulus bermudae Gunther (gills)
Gambusia affinis (Baird and Girard) (gills)
 Mangrove Lake, Lover's Lake (Rand & Wiles 1987), Bermuda
- Salsuginus neotropicalis* Mendoza-Franco & Vidal-Martínez, 2001
 Host, site and localities:
Belonesox belizanus (Kner) (gills)
 Campeche, Quintana Roo, Yucatán (Mendoza-Franco & Vidal-Martínez 2001),
 Mexico
 Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua
- Salsuginus seculus* (Mizelle & Arcadi, 1945) Fleurish & Beverley-Burton, 1985
 Syn: *Urocleidus seculus* Mizelle & Arcadi, 1945
 Hosts, site and localities:
Gambusia affinis (gills)
 New Providence Islands (Hanek & Fernando 1972), Bahamas
Gambusia yucatana (gills)
 Tabasco (Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico
- Salsuginus* sp.
 Host, site and locality:
Chapalichthys encaustus (Jordan & Snyder) (gills)
 Jalisco (Martínez-Aquino *et al.* 2004), Mexico
- Sciadicleithrum bicuense* Vidal-Martínez, Scholz & Aguirre-Macedo, 2001
 Host, site and locality:
Archocentrus nigrofasciatus (Günther) (gills)
 Loonku Creek (Vidal-Martínez, Scholz *et al.* 2001), Nicaragua
- Sciadicleithrum bravohollisae* Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994
 Hosts, site and localities:
Amphilophus citrinellus (Günther) (gills)

- Tabasco (Vidal-Martinez, Aguirre-Macedo *et al.* 2001), Mexico
Cichlasoma geddesi (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Cichlasoma octofasciatum (Regan) (gills)
 Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico
Cichlasoma salvini (Günther) (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Cichlasoma urophthalmus (gills)
 Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico
Cichlasoma sp. (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Herichthys labridens (Pellegrin) [= *Cichlasoma labridens* (Pellegrin)] (gills)
 San Luis Potosi (Aguilar-Aguilar *et al.* 2004), Mexico
Herichthys pearsei (Hubbs) [= *Cichlasoma pearsei* (Hubbs)] (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Kritsky *et al.* 1994; Mendoza-Franco *et al.* 2000), Mexico
*Oreochromis aureus** (gills)
 Veracruz (Jiménez-García *et al.* 2001), Mexico
Parachromis managuensis (= *Cichlasoma managuense*) (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Petenia splendida Gunther (gills)
 Campeche, Veracruz, Tabasco (Kritsky *et al.* 1994); Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005; Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico
Theraps lentiginosum (Steindachner) [= *Cichlasoma lentiginosum* (Steindachner)] (gills)
 Campeche, Tabasco, Chiapas, Yucatán and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Thorichthys helleri (= *Cichlasoma helleri*) (gills)
 Tabasco (López-Jiménez 2001), Mexico
Vieja fenestrata (= *C. fenestratum*) (gills)
 Veracruz (Jiménez-García *et al.* 2001; Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico
Vieja maculicauda (Regan) (= *Cichlasoma maculicauda* Regan) (gills)
 Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua
Vieja synspila (Hubbs) (= *Cichlasoma synspilum* Hubbs) (gills)

Campeche, Tabasco, Chiapas, Yucatán, Quintana Roo (Kritsky *et al.* 1994; Salgado-Maldonado *et al.* 1997; Mendoza-Franco *et al.* 2000), Mexico

*african cichlids introduced in México.

Sciadicleithrum maculicauda Vidal-Martinez, Scholz & Aguirre-Macedo, 2001

Host, site and locality:

Vieja maculicauda (gills)

Caño Marañón Stream (Vidal-Martinez, Scholz *et al.* 2001), Nicaragua

Sciadicleithrum meekii Mendoza-Franco, Scholz & Vidal-Martínez, 1997

Hosts, site and locality:

Archocentrus nigrofasciatus (gills)

Loonku Creek and Caribbean coast (Vidal-Martinez, Scholz *et al.* 2001; Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Parachromis managuensis (= *Cichlasoma managuense*) (gills)

Thorichthys callolepis (= *Cichlasoma callolepis*) (gills)

Yucatán, Chiapas, Tabasco, Quintana Roo and Campeche (Mendoza-Franco *et al.* 2000), Mexico

Thorichthys helleri (= *Cichlasoma helleri*) (gills)

Yucatán, Chiapas, Tabasco, Quintana Roo and Campeche (Mendoza-Franco *et al.* 2000), Mexico (Mendoza-Franco *et al.* 2000; Vidal-Martínez, Aguirre-Macedo *et al.* 2001; Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico

Thorichthys meeki (= *Cichlasoma meeki*) (gills)

Yucatán, Quintana Roo and Campeche (Mendoza-Franco *et al.* 1997; 1999), Mexico

Sciadicleithrum mexicanum Kritsky, Vidal-Martínez & Rodríguez-Canul, 1994

Hosts, site and localities:

Cichlasoma octofasciatum (gills)

Yucatán, Chiapas and Quintana Roo (Mendoza-Franco *et al.* 1999; 2000), Mexico

Cichlasoma trimaculatum (Gunther) (gills)

Champerico river, Department of Retalhuleu, near the border with El Salvador (Mendoza-Franco *et al.* 2000), Guatemala

Cichlasoma urophtalmus (gills)

Yucatán, Campeche, Chiapas, Tabasco and Quintana Roo (Kritsky *et al.* 1994; Mendoza-Franco *et al.*; Salgado-Maldonado *et al.*; Vidal-Martinez *et al.*; Mendoza-Franco *et al.* 1999; 2000; López-Jimenez 2001), Mexico

Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Parachromis dovii (Günther) (gills)

Caño Negro, Puente Chino, Mahogany River, Torsuani, Caño Marañon (Vidal-Martinez, Scholz *et al.* 2001), Nicaragua

Parachromis friedrichstahlII (= *Cichlasoma friedrichstahlII*) (gills)

- Yucatán, Chiapas and Quintana Roo (Mendoza-Franco *et al.* 1999; 2000), Mexico
Parachromis managuensis (= *Cichlasoma managuense*) (gills)
 Caño Negro, Puente Chino, Mahogany River, Torsuani, Caño Maránon and Caribbean coast (Vidal-Martinez, Scholz *et al.* 2001; Mendoza-Franco, Posel *et al.* 2003), Nicaragua
Petenia splendida (gills)
Thorichthys aureus (= *Cichlasoma aureum*) (gills)
 Yucatán, Campeche, Chiapas and Quintana Roo (Mendoza-Franco *et al.* 2000), Mexico
Tomocichla tuba (Meek) (gills)
 Caño Negro, Puente Chino, Mahogany River, Torsuani, Caño Maránon (Vidal-Martinez, Scholz *et al.* 2001), Nicaragua
Vieja maculicauda (gills)
 Caño Negro, Puente Chino, Mahogany River, Torsuani, Caño Maránon and Caribbean coast (Vidal-Martinez, Scholz *et al.* 2001; Mendoza-Franco, Posel *et al.* 2003), Nicaragua
Vieja synspila (= *Cichlasoma synspilum*) (gills)
 Yucatán and Quintana Roo (Mendoza-Franco *et al.* 1999), Mexico
Sciadicleithrum nicaraguense Vidal-Martinez, Scholz & Aguirre-Macedo, 2001
 Host, site and localities:
Amphilophus alfari (Meek) (gills)
 Loonku Creek and Caribbean coast (Vidal-Martinez, Scholz *et al.* 2001; Mendoza-Franco, Posel *et al.* 2003), Nicaragua
Sciadicleithrum splendidae Kritsky, Vidal-Martinez & Rodriguez-Canul, 1994
 Hosts, site and localities:
Cichlasoma (*Parapetenia*) sp. (gills)
 Tabasco (Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico
Parachromis friedrichstahlii (= *Cichlasoma friedrichstahlii*) (gills)
 Campeche, Yucatán, Quintana Roo, Chiapas and Tabasco (Mendoza-Franco *et al.* 2000; Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico
Parachromis managuensis (= *Cichlasoma managuense*) (gills)
 Campeche, Yucatán. Quintana Roo, Chiapas and Tabasco (Mendoza-Franco *et al.* 2000; López-Jimenez 2001), Mexico
Petenia splendida (gills)
 Campeche (Kritsky *et al.* 1994; Salgado-Maldonado *et al.* 1997), Mexico
Vieja synspila (= *Cichlasoma synspilum*) (gills)
 Campeche (Salgado-Maldonado *et al.* 1997), Mexico
Sciadicleithrum sp.
 Hosts, site and localities:

- Cichlasoma beani* (Jordan) (gills)
Nayarit (Salgado-Maldonado, Cabañas-Carranza, Soto-Galera *et al.* 2001),
Mexico
- Cichlasoma geddesi* (gills)
Tabasco (Pineda-López *et al.* 1985), Mexico
- Cichlasoma urophthalmus* (gills)
Tabasco (Salgado-Maldonado *et al.* 1997), Mexico
- Herichthys labridens* (gills)
Hidalgo (Salgado-Maldonado, Cabañas-Carranza *et al.* 2004; Salgado-
Maldonado, Mercado-Silva *et al.* 2004), Mexico
- Herichthys pearsei* (gills)
Tabasco (Pineda-López *et al.* 1985), Mexico
- Vieja synspila* (gills)
Tabasco (Pineda-López *et al.* 1985; Salgado-Maldonado *et al.* 1997), Mexico
- Scutogyrus longicornis* (Paperna & Thurston, 1969)
Host, site and locality:
Oreochromis aureus (gills)
Tabasco (López-Jiménez 2001), Mexico
- Tetrancistrum obesum* Caballero, Bravo-Hollis & Grocott, 1955
Host, site and locality:
Arothron hispidus (Linnaeus) (= *Tetraodon hispidus* Linnaeus) (gills)
Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.*
1955), Panama
- Trinidactylus cichlasomatis* Hanek, Molnar & Fernando, 1974
Host, site and locality:
Cichlasoma bimaculatum (Linnaeus) (gills)
Talparo River (Hanek *et al.* 1974), Trinidad
- Trinigyrus hypostomatis* Hanek, Molnar & Fernando, 1974
Host, site and locality:
Hypostomus robinii (Valenciennes) (gills)
Talparo River (Hanek *et al.* 1974), Trinidad
- Unilatus unilatus* Mizelle & Kritsky, 1967
Host, site and locality:
Hypostomus robinii (gills)
Talparo River, near Talparo (Molnar *et al.* 1974), Trinidad
- Urocleidoides alii* Molnar, Hanek & Fernando, 1974
Host, site and locality:
Cichlasoma bimaculatum (gills)
Nariva Swamp and Talparo River (Molnar *et al.* 1974), Trinidad
- Urocleidoides anops* Kritsky & Thatcher, 1974

Host, site and locality:

Astyanax fasciatus (gills)

Yucatán Peninsula (Mendoza-Franco *et al.* 1999), Mexico

Urocleidoides cichlasomatis Molnar, Hanek & Fernando, 1974

Host, site and locality:

Cichlasoma bimaculatum (gills)

Nariva Swamp (Molnar *et al.* 1974), Trinidad

Urocleidoides corydori Molnar, Hanek & Fernando, 1974

Host, site and locality:

Corydoras aeneus (Gill) (gills)

Talparo River (Molnar *et al.* 1974), Trinidad

Remarks: considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides costaricensis (Price and Bussing, 1967) Kritsky & Leiby, 1972

Syn: *Cleidodiscus costaricensis* Price and Bussing, 1967

Hosts, site and localities:

Astyanax aeneus (gills)

Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Astyanax bimaculatus (Linnaeus) (gills)

Cumuto River, near Cumuto, Arouca River, near D'Abadie (Molnar *et al.* 1974), Trinidad

Astyanax fasciatus (gills)

Guanacaste and Puntarenas (Price and Bussing 1967; Kritsky and Leiby 1972), Costa Rica

Yucatán, Quintana Roo, Tabasco, Guerrero and Morelos (Mendoza-Franco *et al.* 1999; López-Jiménez 2001; Salgado-Maldonado, Cabañas-Carranza, Caspeta-Mandujano *et al.* 2001), Mexico

Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Steindachnerina argentea (= *Curimata argentea*) (gills)

Cumuto River, near Cumuto and Arouca River, near D'Abadie (Molnar *et al.* 1974), Trinidad

Remarks: referred to as *Urocleidoides cf. costaricensis* by Salgado-Maldonado, Cabañas-Carranza, Caspeta-Mandujano *et al.* (2001). considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides curimatae Molnar, Hanek & Fernando, 1974

Host, site and locality:

Steindachnerina argentea (= *Curimata argentea*) (gills)

Arouca River, near D'Abadie (Molnar *et al.* 1974), Trinidad

Urocleidoides doboosi Molnar, Hanek & Fernando, 1974

Host, site and locality:

Cichlasoma bimaculatum (gills)

Nariva Swamp (Molnar *et al.* 1974), Trinidad

Urocleidoides heteroancistrum (Price & Bussing, 1968) Kritsky & Leiby, 1972

Syn: *Palombitrema heteroancistrum* Price & Bussing, 1968

Hosts, site and localities:

Astyanax aeneus (gills)

Tabasco (López-Jiménez 2001; Salgado-Maldonado, Piñeda-López *et al.* 2005), Mexico

Astyanax fasciatus (gills)

Guanacaste and Puntarenas (Price and Bussing 1968; Kritsky and Leiby 1972; Rodríguez-Ortíz *et al.* 2004), Costa Rica

Yucatán (Mendoza-Franco *et al.* 1999), Mexico

Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Cichlasoma urophthalmus (gills)

Tabasco (Salgado-Maldonado, Piñeda-López *et al.* 2005), Mexico

Remarks: considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides kabatai Molnar, Hanek & Fernando, 1974

Host, site and locality:

Astyanax bimaculatus (gills)

Cumuto River, near Cumuto (Molnar *et al.* 1974), Trinidad

Remarks: considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides margolisi Molnar, Hanek & Fernando, 1974

Host, site and locality:

Corydoras aeneus (gills)

Talparo River (Molnar *et al.* 1974), Trinidad

Remarks: considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides reticulatus Mizelle & Price, 1964

Hosts, site and locality:

Belonesox belizanus (gills)

Tabasco (López-Jiménez 2001), Mexico

Poecilia mexicana (gills)

Poecilia petenensis Günther (gills)

Tabasco (Salgado-Maldonado, Pineda-López *et al.* 2005), Mexico

Urocleidoides strombicirrus (Price & Bussing, 1967) Kritsky & Thatcher, 1974

Syn: *Cleidodiscus strombicirrus* Price & Bussing, 1967

Hosts, site and localities:

Astyanax fasciatus (gills)

Guanacaste (Price and Bussing 1967), Costa Rica

Tabasco (López-Jiménez 2001), Mexico

Caribbean coast (Mendoza-Franco, Posel *et al.* 2003), Nicaragua

Astyanax mexicanus (gills)

Hidalgo, Querétaro and San Luis Potosi (Salgado-Maldonado, Cabañas-Carranza *et al.* 2004), Mexico

Urocleidoides trinidadensis Molnar, Hanek & Fernando, 1974

Host, site and locality:

Astyanax bimaculatus (gills)

Cumuto River, near Cumuto (Molnar *et al.* 1974), Trinidad

Remarks: considered *incertae sedis* by Kritsky *et al.* (1986) and according to Kritsky *et al.* (2000) remain to be reassigned to generic level.

Urocleidoides sp.

Hosts, site and locality:

Astyanax aeneus (gills)

Oaxaca (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Gobiomorus dormitor (gills)

Tabasco (López-Jiménez 2001), Mexico

Urocleidus furcatus Müller, 1937

Host, site and localities:

Micropterus salmoides (gills)

Maricao Hatchery and Guajataca Reservoir (Pomales and Williams 1980), Puerto Rico

Urocleidus helicis (Müller, 1936)

Syn: *Oncocleidus helicis* Müller, 1936

Host, site and localities:

Micropterus salmoides (gills)

Maricao Hatchery and Guajataca Reservoir (Pomales and Williams 1980), Puerto Rico

Urocleidus sp.

Hosts, site and locality:

Micropterus salmoides (gills)

Tesoro Lake (Vinjoy & Prieto 1979), Cuba

Dormitator maculatus (gills)

Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Family Diplectanidae Monticelli, 1903

Diplectanocotyla megalopsis Rakotofiringa & Oliver, 1987

Host, site and localities:

Megalops atlanticus Valenciennes (gills)

Quintana Roo (Mendoza-Franco *et al.* 2004), Mexico

Loonku Creek, Bluefields (Mendoza-Franco *et al.* 2004), Nicaragua

Santa Teresa lagoon (Bunkley-Williams and Williams 1994), Puerto Rico

Remarks: Referred to as *D. gracilis* by Bunkley-Williams and Williams (1994)

Diplectanocotyla sp.

Host, site and locality:

Megalops atlanticus (gills)

Tabasco (López-Jiménez 2001), Mexico

Diplectanidae gen. sp.

Host, site and locality:

Agonostomus monticola (gills)

Veracruz (Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Diplectanum collinsi (Müller, 1936) Price, 1937

Syn: *Lepidotes collinsi* Müller, 1936

Hosts, site and locality:

Eugerres plumieri (= *Diapterus plumieri*) (gills)

Gerres cinereus (Walbaum)

Unknown (Bunkley-Williams and Williams 1994), Puerto Rico

Diplectanum sp.

Host, site and locality:

Eugerres mexicanus (Steindachner) [= *Diapterus mexicanus* (Steindachner)]
(gills)

Tabasco (López-Jiménez 2001), Mexico

Remarks: Referred to as *Neodiplectanum* sp.

Heteroplectanum kyphosi (Yamaguti, 1968) Oliver, 1987

Syn: *Acleotrema kyphosi* Yamaguti, 1968

Host, site and locality:

Kyphosus elegans (Peters) (gills)

Jalisco (León-Regagnon *et al.* 1997), Mexico

Heteroplectanum nenu (Yamaguti, 1968) Rakotofiringa, Oliver & Lambert, 1987

Syn: *Diplectanum nenu* Yamaguti, 1968

Host, site and locality:

Kyphosus elegans (gills)

Jalisco (Leon-Regagnon *et al.* 1997), Mexico

Heteroplectanum oliveri Leon-Regagnon, Pérez-Ponce de León & Garcia-Prieto, 1997

Host, site and locality:

Kyphosus elegans (gills)

Jalisco (Leon-Regagnon *et al.* 1997), Mexico

Murraytrematoides pricei (Caballero, Bravo-Hollis & Grocott, 1955) Yamaguti, 1963

Syn: *Murraytrema pricei* Caballero, Bravo-Hollis & Grocott, 1955

Host, site and locality:

Cynoponticus coniceps (Jordan & Gilbert) [= *Muraenesox coniceps* Jordan & Gilbert] (gills)

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* (1955), Panama

Murraytrematoides sp.

Host, site and locality:

Strongylura timucu (Walbaum) (gills)

Unknown (Bunkley-Williams and Williams 1994), Puerto Rico

Pseudorhabdosynochus amplidiscatum (Bravo-Hollis, 1954) Kritsky & Beverley-Burton, 1986

Syn: *Diplectanum amplidiscatum* Bravo-Hollis, 1954

Hosts, site and localities:

Epinephelus labriformis (gills)

Paralabrax maculofasciatus (Steindachner) (gills)

Jalisco and Colima (Bravo-Hollis 1953; Bravo-Hollis 1954), Mexico

Remarks: Referred to as *Diplectanum* sp. by Bravo-Hollis (1953)

Pseudorhabdosynochus caballeroi (Oliver, 1984) Kritsky & Beverley-Burton, 1986

Syn: *Cycloplectanum caballeroi* Oliver, 1984

Host, site and locality:

Stereolepis gigas Ayres (gills)

Oaxaca (Caballero & Bravo-Hollis 1961b), Mexico

Remarks: Oliver (1984) described the new species *Cycloplectanum caballeroi* to nominate the parasite described from *Stereolepis gigas* as *Diplectanum americanum* by Caballero & Bravo-Hollis (1961b)

Pseudorhabdosynochus capurroi Vidal-Martinez & Mendoza-Franco, 1998

Host, site and locality:

Mycteroperca bonaci (Poey) (gills)

Yucatán Peninsula (Vidal-Martinez & Mendoza-Franco 1998), Mexico

Pseudorhabdosynochus monaensis Dyer, Williams & Bunkley-Williams, 1994

Host, site and locality:

Epinephelus adscensionis (Osbeck) (gills)

Mona Island, Puerto Rico (Dyer *et al.* 1994), Puerto Rico

Pseudorhabdosynochus yucatanensis Vidal-Martinez, Aguirre-Macedo & Mendoza-Franco, 1997

Host, site and locality:

Epinephelus morio (gills)

Yucatan Peninsula (Vidal-Martinez *et al.* 1997; Moravec *et al.* 1997), Mexico

Rhabdosynochus hargisi Kritsky, Boeger & Robaldo, 2001

Host, site and locality:

Centropomus undecimalis (Bloch) (gills)

Añasco River (Kritsky *et al.* 2001), Puerto Rico

Rhabdosynochus sp.

Syn: *Rhabdosynochys rhabdosynochus* of Bunkley-Williams & Williams (1994, 1995)

Hosts, site and localities:

Centropomus ensiferus (Poey) (gills)

Centropomus undecimalis (gills)

Mayaguez, mouth of the Guanajibo river, Caria Coya zones (Bunkley-Williams and Williams 1994; 1995; Kritsky *et al.* 2001), Puerto Rico

Subclass Polystomatoinea Lebedev, 1986

Family Polystomatidae Gamble, 1896

Neodiplorchis scaphiopi (Rodgers, 1941) Yamaguti, 1963

Host, site and locality:

Scaphiopus hammondii multiplicatus Cope (urinary bladder)

Estado de Mexico (Lamothe-Argumedo 1973), Mexico

Neopolystoma cyclovitellum Caballero, Zerecero & Grocott, 1956

Host, site and locality:

Geomyda melanosterna Grey (urinary bladder)

Panama City (Caballero, Zerecero *et al.* 1956), Panama

Neopolystoma domitilae (Caballero, 1938) Price, 1939

Syn: *Polystoma (Polystomoides) domitilae* Caballero, 1938

Hosts, site and localities:

Chelydra serpentina (Linnaeus) (urinary bladder)

Tabasco (Lamothe-Argumedo 1972), Mexico

Terrapene ornata (Agassiz) (= *Chrysemis ornata*) (urinary bladder)

Veracruz (Caballero 1938), Mexico

Neopolystoma fentoni Platt, 2000

Hosts, site and locality:

Kinosternon leucostomum (Dumeril, Bibron & Dumeril) (conjunctival sac)

Rhinoclemmys pulcherrima (Gray) (conjunctival sac)

Guanacaste conservation area (Platt 2000), Costa Rica

Neopolystoma orbiculare (Stunkard, 1916) Price, 1939

Syn: *Polystoma orbiculare* Stunkard, 1916

Hosts, site and localities:

Chrysemys scripta cataspila (urinary bladder)

Tamaulipas (Lamothe-Argumedo 1972), Mexico

Kinosternon leucostomum (urinary bladder)

Oaxaca (Zerecero 1948), Mexico

Pseudemys decussata Gray (urinary bladder)

Zapata Peninsula, Las Villas (Barus & Moravec 1967), Cuba

Polystoma naevius Caballero & Cerecero, 1941

Hosts, site and localities:

Bufo marinus (Linnaeus) (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Eleutherodactylus rhodopsis (Coppe) (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Hyla baudinii (Duméril & Bibron) (urinary bladder)

Veracruz (Caballero & Cerecero 1941), Mexico

Hyla microcephala Cope (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Kinosternon hirtipes Wagler (urinary bladder)

México D. F., Durango, Michoacán and Nayarit (Lamothe-Argumedo *et al.* 1996), Mexico

Leptodactylus melanonotus (Hallowell) (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Rana vaillanti Brocchi (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Smilisca baudinii (Duméril & Bibron) (urinary bladder)

Veracruz (Lamothe-Argumedo 1976), Mexico

Smilisca cyanosticta Schmidt (urinary bladder)

Veracruz (Goldberg *et al.* 2002), Mexico

Polystoma stellai Peres Viguera, 1955

Host, site and locality:

Hyla septentrionalis (Duméril & Bibron) (urinary bladder)

Havana (Peres Viguera 1955), Cuba

Polystomoidella oblongum (Wright, 1879) Price, 1939

Syn: *Polystoma oblongum* Wright, 1879

Hosts, site and localities:

Kinosternon hirtipes (urinary bladder)

Hidalgo Morelos, Estado de Mexico and Michoacan (Caballero 1938; Caballero and Herrera-Rosales 1947; Lamothe-Argumedo 1972; Pérez-Ponce de León *et al.* 2001), Mexico

Kinosternon integrum Le Conte (urinary bladder)

Guerrero (Caballero 1940), Mexico

Remarks: Price (1939b) considered *P. (P.) oblongum* of Caballero, 1938 as synonym of *P. whartoni*.

Polystomoidella whartoni Price, 1939

Host, site and localities:

Kinosternon hirtipes (urinary bladder)

Guanajuato and Morelos (Caballero 1940; Caballero & Herrera-Rosales 1947;

Lamothe-Argumedo 1972), Mexico

Pseudodiplorchis americanus (Rodgers & Kuntz, 1940) Yamaguti, 1963

Syn: *Diplorchis americanus* Rodgers & Kuntz, 1940

Host, site and locality:

Scaphiopus couchii (Baird) (urinary bladder)

Baja California Sur (Lamothe-Argumedo 1986), Mexico

Riojatrema bravoae Lamothe-Argumedo, 1963

Hosts, site and locality:

Bufo simus Schmidt (urinary bladder)

Tomodactylus amulae Gunther (urinary bladder)

Morelos (Lamothe-Argumedo 1963), Mexico

Subclase Oligonchoinea Bychowsky, 1937

Family Hexabothriidae Price, 1942

Erpocotyle carcharhini Watson & Thorson, 1976

Host, site and locality:

Carcharhinus leucas (Müller & Henle) (gills)

Colorado River (Watson & Thorson 1976), Costa Rica

Unknown (Watson & Thorson 1976), Nicaragua

Erpocotyle caribbensis Watson & Thorson, 1976

Host, site and locality:

Pristis perotteti Muller & Henle (gills)

Unknown (Watson & Thorson 1976), Nicaragua

Erpocotyle microstoma (Brooks, 1934) Yamaguti, 1963

Syn: *Squaloncocotyle microstoma* Brooks, 1934

Host, site and locality:

Sphyrna mokarran (Rüppell) (gills)

La Boca, Zona del Canal, Oceano Pacifico del Norte (Caballero, Hidalgo *et al.*

1956), Panama

Erpocotyle tiburonis (Brooks, 1934) Yamaguti, 1963

Syn: *Squaloncocotyle tiburonis* Brooks, 1934

Host, site and locality:

Sphyrna tiburo (Linnaeus) (gills)

St. Joe Bay, east Panamá city (Bullard *et al.* 2001), Panama

Heteroncocotyle leucas Hargis, 1955

Host, site and locality:

Carcharhinus leucas (Müller & Henle) (gills)

Colorado River (Watson & Thorson 1976), Costa Rica

Pristionchotyle intermedia Watson & Thorson, 1976

Host, site and locality:

Pristis perotteti (gills)

Unknown (Watson & Thorson 1976), Nicaragua

Family Mazocraeidae Price, 1936

Grubea sp.

Host, site and locality:

Sarda chiliensis chiliensis (Cuvier) (gills)

Baja California (Wagner 1975), Mexico

Kuhnia sp.

Host, site and locality:

Opisthonema libertate (gills)

Jalisco (Pérez-Ponce de León *et al.* 2000), Mexico

Mazocraeoides bychowskyi Caballero & Caballero, 1976

Host, site and locality:

Dorosoma cepedianum (Le Sueur) (gills)

Tamaulipas (Caballero & Caballero 1976), Mexico

Mazocraeoides sp.

Hosts, site and locality:

Astyanax fasciatus (gills)

Brycon guatemalensis Regan (gills)

Tabasco (Fucugauchi–Suárez *et al.* 1988), Mexico

Dorosoma anale Meek (gills)

Tabasco (López-Jiménez 2001), Mexico

Oaxocotyle oaxacensis (Caballero & Bravo-Hollis, 1963) Lebedev, 1984

Syn: *Pseudomazocraes oaxacensis* Caballero & Bravo-Hollis, 1963

Hosts, site and localities:

Peprilus medius (Peters) [= *Palometa media* (Peters)] (gills)

Oaxaca (Caballero & Bravo-Hollis 1963), Mexico

Peprilus simillimus (Ayres) (gills)

Baja California Sur (Lamothe-Argumedo *et al.* 1996), Mexico

Pseudanthocotyloides dossae Caballero & Bravo-Hollis, 1965

Host, site and locality:

Anchoa hepsetus (Linnaeus) [= *Anchoviella hepsetus* (Linnaeus)] (gills)

Veracruz (Caballero & Bravo-Hollis 1965 a), Mexico

Pseudomazocraeoides megalocotyle Price, 1961

Host, site and locality:

Dorosoma cepedianum (gills)

Nuevo León (De Witt & Galaviz 1992), Mexico

Pseudomazocraes monsvaeisae Caballero y Caballero & Bravo-Hollis, 1955

Hosts, site and localities:

Balistes polylepis Steindachner (gills)

Carangoides otrynter (Jordan & Gilbert) [= *Citula dorsalis* (Gill)] (gills)

Caranx hippos (gills)

Selar crumenophthalmus (Bloch) [= *Trachurops crumenophthalmus* (Bloch)] (gills)

Oaxaca (Lamothe-Argumedo 1970), Mexico

Selene brevoorti (Gill) [= *Argyriosus brevoorti* Gill] (gills)

Jalisco and Sinaloa (Caballero & Bravo-Hollis 1955), Mexico

Selene peruvina (Guichenot) (= *Vomer declivifrons* Meek & Hildebrand) (gills)

Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Trachurops surametricus (gills)

Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico

Pseudomazocraes riojai (Caballero & Bravo-Hollis, 1963) Lebedev, 1970

Syn: *Vallisia riojai* Caballero & Bravo-Hollis, 1963

Host, site and locality:

Caranx hippos (gills)

Oaxaca (Caballero & Bravo-Hollis 1963), Mexico

Pseudomazocraes selene Hargis, 1957

Hosts, site and locality:

Caranx crysos (Mitchel) (gills)

Caranx hippos (gills)

Veracruz (Bravo-Hollis 1989), Mexico

Caranx latus Agassiz [= *Xurel lata* Agassiz] (gills)

Veracruz (Caballero & Bravo-Hollis 1965 b), Mexico

Selene vomer (Linnaeus) [= *Argyreiosus vomer* (Linnaeus)] (gills)

Veracruz (Caballero & Bravo-Hollis 1965 b; Bravo-Hollis 1989), Mexico

Family Protomicrocotylidae Johnston & Tiegs, 1922

Neomicrocotyle carangis Yamaguti, 1968

Host, site and locality:

Caranx sp. (gills)

Jalisco (Lamothe-Argumedo *et al.* 1996), Mexico

Neomicrocotyle pacifica (Meserve, 1938) Yamaguti, 1968

Syn: *Protomicrocotyla pacifica* Meserve, 1938

Hosts, site and locality:

Caranx caballus Gunther (gills)

Caranx crysos (gills)

Baja California (Lamothe-Argumedo *et al.* 1996), Mexico

Caranx hippos (gills)

Port Culebra (Meserve 1938; Bravo-Hollis and Salgado-Maldonado 1986),
Costa Rica

Oaxaca, Baja California (Bravo-Hollis and Salgado-Maldonado 1986; Lamothe-Argumedo *et al.* 1996), Mexico

Xurel marginatus (gills)

Port Culebra (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Protomicrocotyle manteri Bravo-Hollis, 1966

Hosts, site and localities:

Caranx hippos (gills)

Oaxaca, Veracruz and Quintana Roo (Lamothe-Argumedo 1970 ; Bravo-Hollis 1989), Mexico

Caranx latus (gills)

Caranx sp. (gills)

Veracruz and Quintana Roo (Bravo-Hollis 1989), Mexico

Opisthonema libertate Günther (gills)

Jalisco (Pérez-Ponce de León, García-Prieto & Rosas-Villa 2000), Mexico

Trachinotus paitensis Cuvier (= *Trachinotus paloma* Jordan & Starks) (gills)

Baja California (Bravo-Hollis 1966), Mexico

Protomicrocotyle mirabilis (Mac Callum, 1918) Johnston & Tiegs, 1922

Syn: *Acanthodiscus mirabilis* Mac Callum, 1918

Hosts, site and localities:

Carangoides ruber (= *Caranx ruber*) (gills)

Unknown (Williams and Bunkley-Williams 1996), Puerto Rico

Caranx crysos (gills)

Veracruz and Quintana Roo (Bravo-Hollis 1989), Mexico

Caranx hippos (gills)

Veracruz, Campeche and Quintana Roo (Caballero and Bravo-Hollis 1967; Bravo-Hollis 1989), Mexico

Unknown (Bunkley-Williams and Williams 1994; Williams and Bunkley-Williams 1996), Puerto Rico

Caranx latus (gills)

Veracruz and Quintana Roo (Caballero and Bravo-Hollis 1965b; Bravo-Hollis 1989), Mexico

Unknown (Bunkley-Williams and Williams 1994; Williams and Bunkley-Williams 1996), Puerto Rico

Caranx sp. (gills)

Trachinotus carolinus (gills)

Veracruz and Quintana Roo (Bravo-Hollis 1989), Mexico

Protomicrocotyle nayaritensis Bravo-Hollis, 1979

Host, site and locality:
Caranx hippos caninus Günther (gills)
 Nayarit (Bravo-Hollis 1979 b), Mexico

Family Allodiscocotylidae Tripathi, 1959

Hargicola oligoplites (Hargis, 1957) Lebedev, 1970 (Allodiscocotylidae)

Host, site and locality:
Oligoplites altus (Günther) (gills)
 Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Hargicola oligoplites (Hargis, 1957) Lebedev, 1970 (Allodiscocotylidae)

Syn: *Vallisia oligoplites* Hargis, 1957
 Host, site and locality:
Oligoplites saurus (Bloch & Schneider) (gills)
 Veracruz (Bravo-Hollis 1989), Mexico

Salinacotyle mexicana (Caballero & Bravo-Hollis, 1963) Lebedev, 1984

Syn: *Allodiscocotyla mexicana* Caballero & Bravo-Hollis, 1963

Hosts, site and locality:
Caranx hippos (gills)
 Oaxaca (Caballero & Bravo-Hollis 1963), Mexico
Hemicaranx atrina (gills)
 Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico

Family Chauhaneidae Euzet & Trilles, 1960

Ahpua piscicola Caballero & Bravo-Hollis, 1973

Hosts, site and locality:
Caranx caballus (gills)
 Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica
 Oaxaca, Campeche and Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico
Caranx hippos (gills)
Caranx latus (gills)
Decapterus muroadsi (Temminck & Schlegel) (= *Decapterus hypodus* Gill)
 (gills)
 Oaxaca, Campeche and Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico
Oligoplites altus (gills)
 Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica
Polydactylus octonemus (Girard) (gills)
 Tamaulipas (Caballero & Bravo-Hollis 1973), Mexico
Selene peruvina (= *Vomer declivifrons*) (gills)
 Oaxaca, Campeche and Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico

Cotyloatlantica pretiosa Bravo-Hollis, 1984

Hosts, site and localities:

Sphyraena barracuda (Walbaum) (gills)

Sphyraena gauchanco Valenciennes (gills)

Veracruz and Quintana Roo (Bravo-Hollis 1984 c), Mexico

Pseudochauhanea elongata Kritsky, Bilquees and Leiby, 1972

Host, site and locality:

Sphyraena ensis Jordan & Gilbert (gills)

Nayarit (Lamothe-Argumedo *et al.* 1996), Mexico

Pseudochauhanea mexicana Lamothe-Argumedo, 1966

Hosts, site and localities:

Calamus brachysomus (Lockington) (gills)

Baja California Sur (Lamothe-Argumedo *et al.* 1996), Mexico

Sphyraena barracuda (gills)

Quintana Roo and Puerto Morelos (Bravo-Hollis and Lamothe-Argumedo 1988), Mexico

Sphyraena ensis (gills)

Guerrero (Lamothe-Argumedo 1966), Mexico

Pseudochauhanea sphyraenae (Chauhaneidae)

Host, site and locality:

Sphyraena barracuda (gills)

Mona Island (Williams and Bunkley-Williams 1996), Puerto Rico

Family Gastrocotylidae Price, 1943

Amphipolycotyle chloroscombrus Hargis, 1957

Hosts, site and locality:

Chloroscombrus chrysurus (Linnaeus) (gills)

Veracruz (Bravo-Hollis 1984 b), Mexico

Chloroscombrus orqueta Jordan & Gilbert (gills)

Sonora (Lamothe-Argumedo *et al.* 1996), Mexico

Family Gotocotylidae Yamaguti, 1963

Gotocotyla acanthura (Parona & Perugia, 1896) Meserve, 1938

Syn: *Lithidiocotyle acanthura* Parona & Perugia, 1896

Hosts, site and localities:

Scomberomorus cavalla (Cuvier) (gills)

Veracruz (Lamothe-Argumedo *et al.* 1996), Mexico

La Parguera (Williams and Bunkley-Williams 1996), Puerto Rico

Scomberomorus maculatus (Mitchill) (gills)

Veracruz (Lamothe-Argumedo *et al.* 1996), Mexico

Scomberomorus regalis (Bloch) (gills)

La Parguera (Williams and Bunkley-Williams 1996), Puerto Rico

Scomberomorus sierra Jordan & Starks (gills)

Campeche (Lamothe-Argumedo *et al.* 1996), Mexico

Remarks: Referred to as *Gotocotyla acanthophallus* (MacCallum and MacCallum, 1913) Yamaguti, 1963

Gotocotyla elagatis Meserve, 1938

Host, site and locality:

Elagatis bipinnulata (Quoy & Gaimard) (gills)

Bahia Honda (Meserve 1938), Panama

Gotocotyla jicacali Bravo-Hollis, 1990

Host, site and locality:

Oligoplites saurus (gills)

Veracruz (Lamothe-Argumedo *et al.* 1996), Mexico

Family Discocotylidae Price, 1936

Bicotylophora trachinoti (Mac Callum, 1921) Price, 1936

Syn: *Dactylocotyle trachinoti* Mac Callum, 1921

Hosts, site and localities:

Trachinotus carolinus (gills)

Veracruz and Quintana Roo (Caballero & Bravo-Hollis 1965b; Bravo-Hollis 1984b), Mexico

Trachinotus falcatus (Linnaeus) (gills)

Quintana Roo (Bravo-Hollis 1984b), Mexico

Trachinotus kennedyi Steindachner (gills)

Trachinotus rhodopus (Gill) (gills)

Sinaloa and Nayarit (Bravo-Hollis 1986), Mexico

Remarks: Amato (1994) considered these specimens as *Pseudobicotylophora atlantica* Amato, 1994.

Octomacrum mexicanum Lamothe-Argumedo, 1980

Host, site and localities:

Algansea lacustris (gills)

Michoacán (Lamothe-Argumedo 1980; Mendoza-Garfias *et al.* 1996; Pérez-Ponce de León, García-Prieto *et al.* 2000), Mexico

Pseudobicotylophora atlantica Amato, 1994

Host, site and localities:

Trachinotus carolinus (gills)

Campeche, Yucatan, Quintana Roo (Sánchez-Ramírez and Vidal-Martínez 2002), Mexico

Pseudobicotylophora lopez-ochoterenai Lamothe-Argumedo & Pulido, 1997

Host, site and locality:

Trachinotus rodophus (gills)

Jalisco (Lamothe-Argumedo & Pulido-Flores 1997), Mexico

Family Hexostomatidae Price, 1936

Neohexostoma euthynni (Meserve, 1938) Price, 1961

Syn: *Hexostoma euthynni* Meserve, 1938

Hosts, site and localities:

Euthynnus alleteratus (Rafinesque) (gills)

La Parguera (Williams and Bunkley-Williams 1996), Puerto Rico

Euthynnus lineatus Koshinouye (gills)

Jalisco (Castello-Sánchez *et al.* 1997), Mexico

Family Axinidae Monticelli, 1903

Allopseudaxine katsuwonis (Ishii, 1936) Yamaguti, 1943 (Axinidae)

Syn: *Pseudaxine katsuwonis* Ishii, 1936

Host, site and locality:

Katsuwonus pelamis (Linnaeus) (gills)

Arecibo (Williams and Bunkley-Williams 1996), Puerto Rico

Axine yamagutii (Meserve, 1938) Sproston, 1946

Syn: *Cestrocolpa yamagutii* Meserve, 1938

Host, site and locality:

Unknown

Colima, open sea off coast (Meserve 1938), Mexico

Axinoides jimenezzi Caballero & Bravo-Hollis, 1969 (Axinidae)

Host, site and locality:

Tylosurus crocodilus crocodilus (= *T. raphidoma*) (gills)

Veracruz (Caballero and Bravo-Hollis 1969), Mexico

Axinoides oceanicum (Caballero, Bravo-Hollis & Grocott, 1953) Price, 1962

Syn: *Microcotyle oceanicum* Caballero, Bravo-Hollis & Grocott, 1953

Host, site and locality:

Tylosurus crocodilus fodiator Jordan & Gilbert [= *T. fodiator* Jordan & Gilbert] (gills)

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* 1953), Panama

Axinoides raphidoma Hargis, 1956

Host, site and locality:

Tylosurus crocodilus crocodilus (= *T. raphidoma*) (gills)

Veracruz (Caballero and Bravo-Hollis 1969), Mexico

Chlamydxine resplendens (Caballero, Bravo-Hollis & Grocott, 1954) Price, 1962

Syn: *Axine resplendens* Caballero, Bravo-Hollis & Grocott, 1954

Host, site and locality:

Tylosurus crocodilus fodiator (= *T. fodiator*) (gills)

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* 1954), Panama

Oligapta kruidenieri Crane, Kritsky & Kayton, 1979 (Axinidae)

Host, site and locality:

Thyrinops pachylepis (Gunther) (gills)

Peninsula de San Juan del Gozo (Crane *et al.* 1979), El Salvador

Family Heteraxinidae Unnitham 1957

Cemocotyle borinquensis Price, 1962

Host, site and locality:

Caranx caballus (= *Paratractus caballus*) (gills)

Playa de Fajardo (Price 1962), Puerto Rico

Cemocotyle carangis (Mac Callum, 1913) Sproston, 1946

Syn: *Microcotyle carangis* Mac Callum, 1913

Host, site and locality:

Caranx crysos (gills)

Veracruz (Bravo-Hollis and Salgado-Maldonado 1983), Mexico

Unknown (Williams and Bunkley-Williams 1996), Puerto Rico

Caranx hippos (gills)

Caranx latus (gills)

Unknown (Williams and Bunkley-Williams 1996), Puerto Rico

Cemocotyle noveboracensis (Mac Callum, 1919) Price, 1962

Syn: *Axine noveboracensis* Mac Callum, 1919

Host, site and locality:

Caranx hippos (gills)

Campeche (Caballero and Bravo-Hollis 1967; Bravo-Hollis and Salgado-Maldonado 1983), Mexico

South Gulf of Mexico (Bunkley-Williams and Williams 1994; Williams and Bunkley-Williams 1996), Puerto Rico

Caranx latus (gills)

South Gulf of Mexico (Bunkley-Williams and Williams 1994; Williams and Bunkley-Williams 1996), Puerto Rico

Cemocotylella elongata (Meserve, 1938) Price, 1962

Host, site and locality:

Caranx caballus (gills)

Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Caranx hippos (gills)

Jalisco (Bravo-Hollis 1986), Mexico

Caranx latus (gills)

Quintana Roo (Bravo-Hollis & Salgado-Maldonado (1983), Mexico

Mulloidichthys martinicus (Cuvier) (gills)

Sainte Anne (Euzet & Vala 1976), Guadeloupe

Xurel malampygus (Cuvier & Valenciennes) (gills)

Secas Islands (Meserve 1938), Panama

Remarks: Price (1962) redescribed the type material, giving new figures of the holotype.

Heteraxinoides zhukovi Caballero & Bravo-Hollis, 1963

Host, site and locality:

Oligoplites altus (gills)

Colima (Caballero & Bravo-Hollis 1963), Mexico

Nudaciraxine gracilis (Linton, 1940) Price, 1962

Syn: *Axinoides gracilis* Linton, 1940

Host, site and locality:

Tylosurus acus acus (Lacépède) (gills)

Veracruz (Bravo-Hollis 1984 b), Mexico

Paramonaxine yamagutii Bravo-Hollis, 1978

Hosts, site and localities:

Sphyraena argentea Girard (gills)

Sonora (Bravo-Hollis 1982 a), Mexico

Sphyraena ensis (gills)

Baja California (Bravo-Hollis 1978a; Bravo-Hollis 1978b), Mexico

Probursata veraecrucis Bravo-Hollis, 1984

Host, site and locality:

Oligoplites saurus (gills)

Veracruz (Bravo-Hollis 1984a), Mexico

Zeuxapta seriolae (Meserve, 1938) Price, 1962

Syn: *Axine seriolae* Meserve, 1938

Hosts, site and localities:

Caranx hippos (gills)

Guerrero (Lamothe-Argumedo 1970), Mexico

Seriola lalandi Valenciennes [= *Seriola dorsalis* (Gill)] (gills)

Baja California (Bravo-Hollis 1978b), Mexico

Family Microcotylidae Taschenberg, 1879

Anchoromicrocotyle guaymensis Bravo-Hollis, 1981

Host, site and locality:

Atractoscion nobilis (Ayres) [= *Cynoscion nobilis* (Ayres)] (gills)

Sonora (Bravo-Hollis 1981c), Mexico

Cynoscionicola pseudoheteracantha Hargis, 1962

Host, site and locality:

Cynoscion nothus (Holbrook) (gills)

Veracruz (Bravo-Hollis 1984b), Mexico

Cynoscionicola sciaenae Tantaléan, 1974

Host, site and locality:

Umbrina xanti (gills)

Oaxaca and Sonora (Bravo-Hollis 1982c), Mexico

Cynoscionicola srivastavai Bravo-Hollis & Caballero, 1970

Hosts, site and localities:

Anisotremus dovii (Günther) (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Bairdiella icistia (Jordan & Gilbert) (gills)

Sonora, Nayarit and Jalisco (Bravo-Hollis 1982b), Mexico

Cynoscion xanthulus Jordan & Gilbert (gills)

Sonora, Nayarit, Jalisco and Sinaloa (Bravo-Hollis 1982b; Bravo-Hollis 1986), Mexico

Isopisthus remifer Jordan & Gilbert [= *Isopisthus altipinnis* (Steindachner)] (gills)

Sonora and Sinaloa (Bravo-Hollis 1986), Mexico

Umbrina roncadorensis Jordan & Gilbert (gills)

Unknown (Lamothe-Argumedo *et al.* 1996), Mexico

Umbrina xanti (= *U. sinaloae*) (gills)

Baja California, Sonora, Nayarit and Jalisco (Bravo-Hollis and Caballero 1970; Bravo-Hollis 1982b), Mexico

Jaliscia caballeroi (Bravo-Hollis, 1960) Mamaev & Egorova, 1977

Hosts, site and localities:

Caulolatilus affinis Gill (gills)

Sinaloa (Lamothe-Argumedo *et al.* 1996), Mexico

Caulolatilus princeps (Jenyns) (gills)

Sonora (Bravo-Hollis 1982c), Mexico

Selar crumenophthalmus (= *Trachurops crumenophthalmus*) (gills)

Jalisco (Bravo-Hollis 1960), Mexico

“Tunna” (gills)

Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Magniexcipula lamothei Bravo-Hollis, 1981

Hosts, site and localities:

Anisotremus dovii (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Calamus brachysomus (gills)

Baja California, Sonora and Sinaloa (Bravo-Hollis 1981a; Bravo-Hollis 1986)

Metamicrocotyla chamelense Bravo-Hollis, 1983

Hosts, site and locality:

Mugil cephalus (gills)

Jalisco (Bravo-Hollis 1983), Mexico

Mugil curema (gills)

- Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico
Metamicrocotyla macracantha (Alexander, 1954) Koratha, 1955
Syn: *Microcotyle macracantha* Alexander, 1954
Hosts, site and localities:
Mugil cephalus (gills)
Baja California, Sonora, Sinaloa and Jalisco (Alexander 1954 ; Bravo-Hollis 1966; Bravo-Hollis 1982c ; Juarez-Arroyo & Salgado-Maldonado 1989 ; Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico
Mugil curema (gills)
Unknown (Garcia and Williams 1985; Bunkley-Williams and Williams 1994), Puerto Rico
- Metamicrocotyla mugilis* Yamaguti, 1968
Host, site and locality:
Mugil cephalus (gills)
Sonora (Bravo-Hollis 1986), Mexico
- Metamicrocotyla pacifica* Bravo-Hollis, 1982
Host, site and locality:
Mugil curema (gills)
Jalisco (Bravo-Hollis 1982b; Mendoza-Garfias and Pérez-Ponce de León 1999), Mexico
- Microcotyle atriobursata* (Caballero & Bravo-Hollis, 1972) Mamaev, 1986
Syn: *Paramicrocotyle atriobursata* Caballero & Bravo-Hollis, 1972
Host, site and locality:
Diapterus auratus Ranzani [= *Diapterus olisthostomus* (Goode & Bean)] (gills)
Tamaulipas (Caballero and Bravo-Hollis 1972), Mexico
- Microcotyle neozelanicus* (Dillon & Hargis, 1965) Mamaev, 1986
Syn: *Paramicrocotyle neozelanicus* (Dillon & Hargis, 1965) Caballero & Bravo-Hollis, 1972
Host, site and locality:
Gerres cinereus (gills)
Quintana Roo (Lamothe-Argumedo *et al.* 1996), Mexico
- Microcotyle pseudomugilis* Hargis, 1957
Host, site and locality:
Mugil cephalus (gills)
Guerrero (Lamothe-Argumedo *et al.* 1996), Mexico
- Microcotyle sebastes* Goto, 1894
Hosts, site and locality:
Sebastes chlorostictus (Jordan & Gilbert) (gills)
Sebastes constellatus (Jordan & Gilbert) (gills)
Sebastes elongatus Ayres (gills)

Baja California (De los Remedios Alvarado-Villamar and Ruiz-Campos 1992), Mexico

Microcotyle spinicirrus Mac Callum, 1918

Host, site and locality:

Aplodinotus grunniens Rafinesque (gills)

Coahuila (Bravo-Hollis & Jiménez 1983), Mexico

Microcotyle tampicensis (Caballero & Bravo-Hollis, 1972) Mamaev, 1986

Syn: *Paramicrocotyle tampicensis* Caballero & Bravo-Hollis, 1972

Hosts, site and localities:

Archosargus romboidalis (Linnaeus) (gills)

Campeche (Lamothe-Argumedeo *et al.* 1996), Mexico

Diapterus auratus (= *Diapterus olisthostomus*) (gills)

Tamaulipas (Caballero & Bravo-Hollis 1972), Mexico

Microcotyle sp.

Hosts, site and localities:

Ictalurus furcatus (= *I. meridionalis*) (gills)

Tabasco (López-Jiménez 2001), Mexico

Sebastes helvomaculatus Ayres (gills)

Sebastes rosaceus Girard (gills)

Sebastes umbrosus (Jordan & Gilbert) (gills)

Baja California (De los Remedios Alvarado-Villamar and Ruiz-Campos 1992), Mexico

Microcotylidae gen.sp.

Host, site and localities:

Agonostomus monticola (gills)

Jalisco and Veracruz (Salgado-Maldonado, Mercado-Silva *et al.* 2004; Salgado-Maldonado, Aguilar-Aguilar *et al.* 2005), Mexico

Microcotylodes impudicus Caballero, Bravo-Hollis & Grocott, 1954

Hosts, site and localities:

Chanos chanos (Forsk.) (gills)

Sinaloa, Nayarit, Oaxaca (Bravo-Hollis 1982a)

Polydactylus approximans (Lay & Bennett) [= *Polynemus approximans* Lay & Bennett] (gills)

Sinaloa, Nayarit, Oaxaca and Jalisco (Bravo-Hollis 1982a; Mendoza-Garfias and Pérez-Ponce de León 1999), Mexico

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* 1955), Panama

Polydactylus octonemus (gills)

Sinaloa, Nayarit, Oaxaca (Bravo-Hollis 1982a)

Microcotylodes incisa (Linton, 1910) Fujii, 1944

Syn: *Microcotyle incisa* Linton, 1910

Hosts, site and localities:

Cirrhitus rivulatus Valenciennes (gills)

Baja California Sur and Nayarit (Bravo-Hollis 1978b), Mexico

Lutjanus argentiventris (Peters) (gills)

Guerrero and Baja California (Bravo-Hollis 1982a), Mexico

Lutjanus colorado Jordan & Gilbert (gills)

Baja California Sur and Nayarit (Bravo-Hollis 1978b), Mexico

Lutjanus cyanopterus (gills)

Quintana Roo (Bravo-Hollis and Salgado-Maldonado 1983), Mexico

Lutjanus guttatus Steindachner (gills)

Guerrero and Baja California (Bravo-Hollis 1982a), Mexico

Lutjanus jordani (Gilbert) (gills)

Umbrina xanti (gills)

Jalisco (Mendoza-Garfias and Pérez-Ponce de León 1999), Mexico

Polymicrocotyle manteri Lamothe-Argumedo, 1967

Hosts, site and localities:

Lutjanus colorado (gills)

Puntarenas (Rodríguez-Ortíz *et al.* 2004), Costa Rica

Oaxaca and Nayarit (Lamothe-Argumedo 1967a; Bravo-Hollis 1978b), Mexico

Lutjanus guttatus (gills)

Lutjanus jordani (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Non-identified “pargo” (gills)

Baja California (Bravo-Hollis (1982 a), Mexico

Opisthonema libertate (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Polynemicola californica Bravo-Hollis, 1986

Host, site and locality:

Xenistius californiensis (Steindachner) (gills)

Baja California Sur (Bravo-Hollis 1986), Mexico

Pseudobivagina aniversaria (Bravo-Hollis, 1979) Mamaev, 1986

Syn: *Neobivagina aniversaria* Bravo-Hollis, 1979

Hosts, site and localities:

Kyphosus sp. (gills)

Jalisco (Bravo-Hollis 1979a), Mexico

Kyphosus elegans (gills)

Jalisco (Leon-Regagnon *et al.* 1997), Mexico

Lutjanus guttatus (gills)

Prionotus punctatus (Bloch) (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Sectator ocyurus (Jordan & Gilbert) (gills)

Jalisco (Bravo-Hollis 1982a), Mexico

Solostamenides pseudomugilis (Hargis, 1956) Unnitham, 1971

Syn: *Microcotyle pseudomugilis* Hargis, 1956

Host, site and locality:

Mugil curema (gills)

Jalisco (Mendoza-Garfias & Pérez-Ponce de León 1999), Mexico

Family Allopyraptoridae Yamaguti, 1963

Allopyraptorus caballeroi (Zerecero, 1960) Yamaguti, 1963

Syn: *Pyraptorus caballeroi* Zerecero, 1960

Hosts, site and localities:

Caranx caballus (gills)

Jalisco (Bravo-Hollis 1982a), Mexico

Caranx hippos (gills)

Colima and Oaxaca (Zerecero 1960; Bravo-Hollis 1982a; Bravo-Hollis 1986), Mexico

Allopyraptorus hippos (Hargis, 1956) Yamaguti, 1963

Syn: *Pyraptorus hippos* Hargis, 1956

Hosts, site and locality:

Caranx hippos (gills)

Caranx latus (gills)

Unknown (Bunkley-Williams and Williams 1994), Puerto Rico

Allopyraptorus incomparabilis (Mac Callum, 1917) Yamaguti, 1963

Syn: *Microcotyle incomparabilis* Mac Callum, 1917

Host, site and locality:

Carangoides ruber (= *Caranx ruber*) (gills)

Desecheo Island, Mona Island, La Parguera, Aguadila (Williams and Bunkley-Williams 1996), Puerto Rico

Caranx crysos (gills)

Quintana Roo (Bravo-Hollis and Salgado-Maldonado 1983), Mexico

Desecheo Island, Mona Island, La Parguera, Aguadila (Williams and Bunkley-Williams 1996), Puerto Rico

Caranx hippos (gills)

Caranx latus (gills)

Desecheo Island, Mona Island, La Parguera, Aguadila (Williams and Bunkley-Williams 1996), Puerto Rico

Allopyraptorus winteri (Caballero & Bravo-Hollis, 1965) Bravo-Hollis & Salgado-Maldonado, 1983

Syn: *Helixaxine winteri* Caballero & Bravo-Hollis, 1965

Hosts, site and localities:

Caranx hippos (gills)

Veracruz and Campeche (Caballero & Bravo-Hollis 1967; Bravo-Hollis & Salgado-Maldonado 1983), Mexico

Caranx latus (gills)

Veracruz (Caballero & Bravo-Hollis 1965a), Mexico

Family Diclidophoridae Cerfontaine, 1805

Alloposeudodiclidophora opelu Yamaguti, 1965

Host, site and locality:

Decapterus muroadsi (= *Decapterus hypodus*) (gills)

Oaxaca (Lamothe-Argumedo *et al.* 1996), Mexico

Bravocotyle sanblasensis Lamothe-Argumedo, 1967

Host, site and locality:

Cynoscion xanthulus (gills)

Nayarit (Lamothe-Argumedo 1967b), Mexico

Campechia synodi Zhukov & Mamaev, 1985 (Diclidophoridae)

Host, site and locality:

Synodus foetens (Linnaeus) (gills)

Campeche (Zhukov & Mamaev 1985), Mexico

Choricotyle caulolati (Meserve, 1938) Sproston, 1946

Syn: *Diclidophora caulolati* Meserve, 1938

Hosts, site and localities:

Caulolatilus princeps (gills)

Baja California (Payne 1987), Mexico

Selar crumenophthalmus (= *Trachurops crumenophthalmus*) (gills)

Jalisco (Bravo-Hollis 1953), Mexico

Choricotyle leonilavazquezae Lamothe-Argumedo, Aranda-Cruz & Pérez-Ponce de León, 1998

Host, site and locality:

Microlepidotus brevipinnis (Steindachner) (gills)

Jalisco (Lamothe-Argumedo *et al.* 1998), Mexico

Choricotyle oregonensis Mc Cauley & Smoker, 1969

Host, site and locality:

Antimora microlepis Bean (gills)

Baja California (Payne 1987), Mexico

Choricotyle sonorensis Caballero & Bravo-Hollis, 1962

Host, site and locality:

Microlepidotus inornatus (gills)

Sonora (Caballero & Bravo-Hollis 1962b), Mexico

Cyclocotyloides pinguis (Linton, 1940) Price, 1943

- Host, site and locality:
Coryphaenoides sp. (gills)
Baja California (Payne 1987), Mexico
- Hargicotyle louisianensis* (Hargis, 1955) Mamaev, 1972
Syn: *Choricotyle louisianensis* Hargis, 1955
Host, site and locality:
Menticirrhus sp. (gills)
Puntarenas (Bravo-Hollis & Arroyo 1962), Costa Rica
- Hargicotyle pacifica* (Bravo-Hollis, 1966) Mamaev, 1976
Syn: *Choricotyle pacifica* Bravo-Hollis, 1966
Host, site and locality:
Umbrina xanti (= *U. sinaloae*) (gills)
Baja California (Bravo-Hollis 1966), Mexico
- Mamaevicotyle villalobosi* Lamothe-Argumedo, 1984
Host, site and locality:
Paralabrax maculofasciatus (gills)
Sonora (Lamothe-Argumedo 1984), Mexico
- Neoheterobothrium mcdonaldi* Payne, 1987
Host, site and locality:
Synodus lucioiceps (Ayres) (gills)
Baja California Sur (Payne 1987), Mexico
- Neoheterobothrium syacii* Mamaev, 1987
Host, site and locality:
Syacium sp. (gills)
Jalisco (Mamaev 1987), Mexico
- Orbocotyle elmernoblei* Payne, 1987
Host, site and locality:
Prionotus stephanophrys Lockington (gills)
Baja California (Payne 1987), Mexico
- Pseudodichlidophora decapteri* Yamaguti, 1965
Host, site and locality:
Decapterus muroadsi (= *Decapterus hypodus*) (gills)
Oaxaca (Lamothe-Argumedo *et al.* 1996), Mexico
- Pseudoeurysorchis travassosi* Caballero & Bravo-Hollis, 1962
Host, site and locality:
Microlepidotus inornatus (gills)
Sonora (Caballero & Bravo-Hollis 1962a), Mexico
- Tagia ecuadori* (Meserve, 1938) Sproston, 1946
Syn: *Heterobothrium ecuadori* Meserve, 1938
Host, site and localities:

Sphoeroides annulatus (= *Cheilichthys annulatus*) (gills)

Oaxaca and Sinaloa (Lamothe-Argumedo 1967c; Flores Crespo and Flores Crespo; Fajer-Avila *et al.* 2004), Mexico

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* 1953), Panama

Sphoeroides sp. (gills)

Puntarenas (Caballero & Brennes 1958; Rodríguez-Ortíz *et al.* 2004), Costa Rica

Family Pterinotrematidae Caballero & Bravo-Hollis, 1955

Pterinotrema hoffmannae Pérez-Ponce de León & Mendoza-Garfias, 1996

Host, site and locality:

Albula nemoptera (Fowler) (gills)

Jalisco (Pérez-Ponce de León & Mendoza-Garfias 1996), Mexico

Pterinotrema macrostomon Caballero, Bravo-Hollis & Grocott, 1954

Host, site and locality:

Albula vulpes (Linnaeus) (gills)

Quintana Roo (Bravo-Hollis & Salgado-Maldonado 1983), Mexico

Fuerte Amador, Zona del canal, Oceano Pacifico del Norte (Caballero *et al.* 1954), Panama

Pterinotrematoides mexicanum Caballero & Bravo-Hollis, 1955

Hosts, site and localities:

Lutjanus argentiventris (gills)

Sonora and Baja California (Bravo-Hollis 1982c), Mexico

Micropogonias extenes (Jordan & Gilbert) [= *Micropogon ectenes* Jordan & Gilbert]

Sinaloa (Caballero & Bravo-Hollis 1955), Mexico

Micropogonias megalops (Gilbert) [= *Micropogon megalops* Gilbert] (gills)

Ophioscion sciurus (Jordan & Gilbert) (gills)

Umbrina roncadorensis (gills)

Sonora and Baja California (Bravo-Hollis 1982c), Mexico

Macrovalvitrema sinaloense Caballero & Bravo-Hollis, 1955

Hosts, site and localities:

Lutjanus argentiventris (gills)

Sonora and Baja California (Bravo-Hollis 1982b), Mexico

Micropogonias extenes (= *Micropogon ectenes*) (gills)

Sinaloa (Caballero & Bravo-Hollis 1955), Mexico

Micropogonias megalops (= *Micropogon megalops*) (gills)

Ophioscion sciurus (gills)

Umbrina roncadorensis (gills)

Sonora and Baja California (Bravo-Hollis 1982b), Mexico

Xenistius californiensis (gills)
Baja California (Bravo-Hollis, 1986), Mexico

Family Rhinecotylidae Lebedev, 1979

Rhinecotyle deloyai Bravo-Hollis, 1981 (Rhinecotylidae)

Host, site and locality:

Sphyraena barracuda (gills)

Quintana Roo (Bravo-Hollis 1981b), Mexico

Family Pyragraphoridae Yamaguti, 1963

Pyragraphorus pyragraphorus (Mac Callum & Mac Callum, 1913) Sproston, 1946

Syn: *Microcotyle pyragraphorus* Mac Callum & Mac Callum, 1913

Hosts, site and localities:

Trachinotus carolinus (gills)

Quintana Roo, Campeche and Yucatan (Sánchez-Ramírez & Vidal-Martínez (2002), Mexico

Trachinotus falcatus (gills)

Quintana Roo (Bravo-Hollis 1984b), Mexico

Trachinotus rhodopus (gills)

Baja California Sur (Bravo-Hollis 1978b), Mexico

Family Microbothriidae Price, 1936 (taxa incertae sedis)

Dermophthirius maccallumi Watson & Thorson, 1976

Host, site and localities:

Carcharhinus leucas (skin)

Colorado River (Watson & Thorson 1976), Costa Rica

San Juan River, off San Carlos (Watson and Thorson 1976), Nicaragua

Family Thoracocotylidae Price, 1936

Mexicotyle mexicana (Meserve, 1938) Lebedev, 1984

Syn: *Pseudaxine mexicana* Meserve, 1938

Hosts, site and localities:

Scomberomorus brasiliensis Collete, Russo & Zavalla-Camim (gills)

Veracruz, Sonora, Guerrero and Nayarit (Bravo-Hollis 1953; Rohde & Hayward 1999), Mexico

Scomberomorus cavalla (gills)

Tongue of the ocean (Rohde and Hayward 1999), Bahamas

off Jamaica (Rohde and Hayward 1999), Jamaica

Veracruz, Sonora, Guerrero and Nayarit (Bravo-Hollis 1953; Rohde and Hayward 1999), Mexico

La Parguera (Williams and Bunkley-Williams 1996), Puerto Rico

- off Jamac (Rohde and Hayward 1999), Trinidad
Scomberomorus concolor (Lockington) (gills)
Veracruz, Sonora, Guerrero and Nayarit (Rohde & Hayward 1999), Mexico
Scomberomorus maculatus (gills)
Oaxaca and Veracruz (Meserve 1938; Bravo-Hollis 1953; Bravo-Hollis 1989),
Mexico
Scomberomorus regalis (gills)
Veracruz, Sonora, Guerrero and Nayarit (Rohde and Hayward 1999), Mexico
La Parguera (Williams and Bunkley-Williams 1996), Puerto Rico
Scomberomorus sierra (gills)
Scomberomorus tritor (Cuvier) (gills)
Veracruz, Sonora, Guerrero and Nayarit (Rohde and Hayward 1999), Mexico
Remarks: Rohde & Hayward (1999) stated that “the type host of this species
must be *Scomberomorus sierra* rather than *S. maculatus*, as the former is the
only one which occur in this area.
- Neothoracocotyla acanthocybii* (Meserve, 1938) Hargis, 1956
Syn: *Gotocotyla acanthocybii* Meserve, 1938
Host, site and localities:
Acanthocybium solandri (gills)
off North Pacific Island (Hayward and Rohde 1999b), Panama
Unknown (Williams and Bunkley-Williams 1996), Puerto Rico
- Scomberocotyle scomberomori* (Koratha, 1955) Hargis, 1956
Syn: *Microcotyle scomberomori* Koratha, 1955
Hosts, site and localities:
Scomberomorus cavalla (gills)
Unknown (Williams and Bunkley-Williams 1996), Puerto Rico
Scomberomorus concolor (gills)
Sonora (Hayward and Rohde 1999b), Mexico
Scomberomorus maculatus (gills)
Campeche and Veracruz (Bravo-Hollis 1984b), Mexico
Scomberomorus sierra (gills)
off El Protero, Jiquilisco (Hayward and Rohde 1999b), El Salvador
Sonora (Hayward and Rohde 1999b), Mexico
off Chame Point (Hayward and Rohde 1999b), Panama
- Thoracocotyle crocea* Mac Callum, 1913
Hosts, site and localities:
Scomberomorus brasiliensis (gills)
Caribbean Sea, off Chame Point, Fox Bay, Colon (Hayward and Rohde 1999a),
Panama
Scomberomorus concolor (gills)

Veracruz (Lamothe-Argumedo *et al.* 1996), Mexico

Scomberomorus maculatus (gills)

Oaxaca, Sonora, Nayarit, Jalisco and Guerrero (Meserve 1938; Hayward and Rohde 1999a), Mexico

Scomberomorus regalis (gills)

Off Dominica, British West Indies (Hayward and Rohde 1999a), Caribbean Sea
Caribbean Sea, off Chame Point, Fox Bay, Colon (Hayward and Rohde 1999a),
Panama

Unknown (Williams and Bunkley-Williams 1996), Puerto Rico

Scomberomorus sierra (gills)

Oaxaca, Sonora, Veracruz, Nayarit, Jalisco and Guerrero (Bravo-Hollis and Lamothe-Argumedo 1976; Lamothe-Argumendo *et al.* 1996; Hayward and Rohde 1999a), Mexico

off El Protero, Jiquilisco, off Saite (Hayward and Rohde 1999a), El Salvador
Caribbean Sea, off Chame Point, Fox Bay, Colon (Hayward and Rohde 1999a),
Panama

Scomberomorus sp. (gills)

Nayarit (Bravo-Hollis, 1953), Mexico

Remarks: Referred to as *Thoracocotyle paradoxica* by Meserve (1938) and by Bravo-Hollis (1953) and as *Paradawesia bychowskyi* by Bravo-Hollis and Lamothe-Argumendo (1976)

Family Udonellidae Taschenberg, 1879

Udonella caligorum Johnston, 1835

Host, site and locality:

Centropomus pectinatus Poey (gills)

Fuerte Amador, Zona del Canal, Oceano Pacifico del Norte (Caballero, Hidalgo *et al.* 1956), Panama

Host parasite list

Pisces

Class Elasmobranchii

Order Carcharhiniformes

Family Carcharhinidae

Carcharhinus leucas

Dermophthirius maccallumi (CR, NI)

Erpocotyle carcharhini (CR, NI)
Heteroncocotyle leucas (CR)
Carcharinus obscurus (= *C. lamiella*)
Loimos winteri (ME)

Family Sphyrnidae

Sphyrna lewini
Loimos parawilsoni (ME)
Loimosina parawilsoni (ME)
Sphyrna mokarran
Erpocotyle microstoma (PA)
Sphyrna tiburo
Erpocotyle tiburonis (PA)
Sphyrna zygaena
Loimosina wilsoni (JM)

Family Triakidae

Mustelus norrisi
Calicotyle asterii (ME)
Calicotyle stossichi (ME)

Ordem Rajiformes

Family Anacanthobatidae

Anacanthobatis folirostris
Calicotyle kroyeri (ME)

Family Dasyatidae

Dasyatis americana
Dendromocotyle octodiscus (BA, ME)

Family Myliobatidae

Aetobatus narinari
Decacotyle floridana (ME)
Rhinoptera bonasus
Benedeniella posterocolpa (ME)

Family Rajidae

Dipturus olseni (= *Raja olseni*)
Calicotyle kroyeri (ME)

Family Rhinobatidae

*Rhinobatos glaucostigma**Anoplocotyloides papillatus* (ME)*Spinuris mexicana* (ME)*Zapteryx exasperata**Spinuris zapterygis* (ME)

Family Urolophidae

*Urobatis halleri**Entobdella guberleti* (ME)*Urobatis jamaicensis**Dendromonocotyle octodiscus* (ME)**Class Actinopterygii****Order Albuliformes**

Family Albulidae

*Albula nemoptera**Pterinotrema hoffmannae* (ME)*Albula vulpes**Pterinotrema macrostomon* (ME, PA)**Order Anguiliformes**

Family Muraenesocidae

Cynoponticus coniceps (= *Muraenesox coniceps*)*Murraytrematoides pricei* (PA)**Order Atheriniformes**

Family Atherinidae

Atherinomorus stipes (= *Atherina stipes*)*Atherinicus bychowskyi* (CB)*Atherinicus cubanus* (CB)*Atherinicus ophiocephalus* (CB)*Diversohamulus curvionchus* (CB)*Hypoatherina harringtonensis* (= *Atherina araea*)*Ancyrocephalus atherinae* (DR)*Thyrinops pachylepis*

Oligapta kruidenieri (ES)

Order Aulopiformes

Family Synodontidae

Synodus foetens

Campechia synodi (ME)

Synodus lucioceps

Neoheterobothrium mcdonaldi (ME)

Order Beloniformes

Family Belonidae

Strongylura timucu

Murraytrematoides sp. (PR)

Tylosurus acus acus

Nudaciraxine gracilis (ME)

Tylosurus crocodilus crocodilus (= *T. raphidoma*)

Axinoides jimenezi (ME)

Axinoides raphidoma (ME)

Bychowskymonogenea sogandaresi (ME)

Tylosurus crocodilus fodiator (= *T. fodiator*)

Axinoides oceanicum (PA)

Chlamydaxine resplendens (PA)

Order Beryciformes

Family Holocentridae

Holocentrus adscensionis

Haliotrema auribaculum (CB)

Haliotrema curvicirrus (CB)

Haliotrema longirectocirrus (CB)

Neobenedenia melleni (CS)

Myripristis jacobus

Haliotrema myripritsi (CB)

Haliotrema papillibaculum (CB)

Haliotrema tenuihamus (CB)

Pseudempleurosoma myripristi (CB)

Order Characiformes

Family Characidae

*Astyanax aeneus**Anacanthocotyle anacanthocotyle* (ME)*Gyrodactylus* sp. (ME)*Urocleidoides costaricensis* (ME)*Urocleidoides heteroancistrum* (ME)*Urocleidoides* sp. (ME)*Astyanax bimaculatus**Urocleidoides costaricensis* (TR)*Urocleidoides kabatai* (TR)*Urocleidoides trinidadensis* (TR)*Astyanax fasciatus**Anacanthocotyle anacanthocotyle* (CR, ME)*Gyrodactylus neotropicalis* (CR, ME)*Jainus hexops* (CR)*Mazocraeoides* sp. (ME)*Urocleidoides anops* (ME)*Urocleidoides costaricensis* (CR, ME, NI)*Urocleidoides heteroancistrum* (CR, ME, NI)*Urocleidoides strombicirrus* (CR, ME, NI)*Astyanax mexicanum**Gyrodactylus* sp. (ME)*Urocleidoides strombicirrus* (ME)*Brycon guatemalensis**Mazocraeoides* sp. (ME)*Colossoma macropomum**Anacanthorus spatulatus* (CB)*Linguadactyloides brinkmanni* (CB)

Family Curimatidae

Steindachnerina argentea (= *Curimata argentea*)*Curvianchoratus hexacleidus* (TR)*Urocleidoides costaricensis* (TR)*Urocleidoides curimatae* (TR)**Order Clupeiformes**

Family Clupeidae

*Dorosoma anale**Mazocraeoides* sp. (ME)*Dorosoma cepedianum*

- Mazocraeoides bychowskyi* (ME)
Pseudomazocraeoides megalocotyle (ME)
Opisthonema libertate
Kuhnia sp. (ME)
Polymicrocotyle manteri (ME)
Protomicrocotyle manteri (ME)

Family Engraulidae

- Anchoa hepsetus* (= *Anchoviella hepsetus*)
Pseudanthocotyloides dossae (ME)

Order Cypriniformes

Family Cyprinidae

- Algansea lacustris*
Dactylogyrus sp. (ME)
Octomacrum mexicanum (ME)
Algansea tincella (= *Algansea affinis*)
Dactylogyrus sp. (ME)
Aristichthys nobilis
Dactylogyrus aristichthys (CB)
Dactylogyrus nobilis (CB)
Aztecula sallaei (= *Notropis sallaei*)
Dactylogyrus sp. (ME)
Carassius auratus auratus
Dactylogyrus anchoratus (PR)
Gyrodactylus sp. (ME)
Ctenopharyngodon idella (= *C. idellus*)
Dactylogyrus lamellatus (CB)
Dactylogyrus sp. (ME)
Cyprinella formosa (= *Notropis formosus*)
Dactylogyrus sp. (ME)
Cyprinella garmani (= *Notropis garmani*)
Dactylogyrus sp. (ME)
Cyprinella ornata (= *Notropis ornatus*)
Dactylogyrus sp. (ME)
Cyprinus carpio carpio
Cleidodiscus floridanus (ME)
Dactylogyrus extensus (ME)
Dactylogyrus sp. (ME)
Gyrodactylus sp. (ME)

- Dionda rasconis*
 Dactylogyrus sp. (ME)
Erimystax xpunctatus (= *Hybopsis punctatus*)
 Gyrodactylus sp. (ME)
Gila conspersa
 Dactylogyrus sp. (ME)
Gila nigrescens
 Dactylogyrus sp. (ME)
Notropis chihuahua
 Dactylogyrus sp. (ME)
Notropis nazas
 Dactylogyrus sp. (ME)
Notropis stramineus
 Dactylogyrus sp. (ME)
Pimephales promelas
 Dactylogyrus bifurcatus (PR)
Rhinichthys chrysogaster (= *Agosia chrysogaster*)
 Dactylogyrus sp. (ME)

Order Cyprinodontiformes

Family Cyprinodontidae

- Cyprinodon variegatus variegatus*
 Salsuginus bahamianus (BA)

Family Fundulidae

- Fundulus bermudae*
 Salsuginus bermudae (BE)

Family Goodeidae

- Chapalichthys encaustus*
 Salsuginus sp. (ME)
Girardinichthys multiradiatus
 Gyrodactylus spp. (ME)

Family Poeciliidae

- Belonesox belizanus*
 Salsuginus neotropicalis (ME, NI)
 Urocleidoides reticulatus (ME)
Gambusia affinis
 Salsuginus bermudae (BE)

- Salsuginus seculus* (BA)
Gambusia xanthosoma Greenfield
Neobenedenia melleni (CS)
Gambusia yucatana
Gyrodactylus sp. (ME)
Salsuginus seculus (ME)
Heterandria bimaculata
Ancyrocephalinae gen. sp. (ME)
Poecilia mexicana
Gyrodactylus sp. (ME)
Urocleidoides reticulatus (ME)
Poecilia petenensis
Urocleidoides reticulatus (ME)
Poecilia reticulata
Gyrodactylus bullatarudis (TR)
Gyrodactylus turnbulli (TR)
Poecilia sphenops
Gyrodactylus bullatarudis (CR)
Gyrodactylus costaricensis (CR)
Gyrodactylus neotropicalis (CR)
Gyrodactylus sp. (ME)
Poeciliopsis gracilis
Gyrodactylus sp. (ME)
Poeciliopsis infans
Gyrodactylus sp. (ME)
Xiphophorus hellerii
Dactylogyrus mizellei (GT)

Order Elopiformes

Family Elopidae

- Megalops atlanticus*
Diplectanocotyla megalopis (ME, NI, PR)
Diplectanocotyla sp. (ME)

Order Gadiformes

Family Macrouridae

- Coryphaenoides* sp.
Cyclocotyloides pinguis (ME)

Family Moridae

*Antimora microlepis**Choricotyle oregonensis* (ME)**Order Osteoglossiformes**

Family Arapaimidae

*Arapaima gigas**Dawestrema cycloancistrum* (CB)**Order Perciformes**

Family Acanthuridae

*Acanthurus chirurgus**Haliotrema amplimacrohamus* (CB)*Haliotrema teuthis* (CB)*Neobenedenia melleni* (PR)*Acanthurus coeruleus**Haliotrema teuthis* (CB)*Neobenedenia melleni* (CS)*Paracanthurus hepatus**Neobenedenia melleni* (CS)

Family Carangidae

Carangoides otrynter (= *Citula dorsalis*)*Pseudomazocraes monsvaisae* (ME)*Carangoides ruber* (= *Caranx ruber*)*Allopyrgraphorus incomparabilis* (PR)*Protomicrocotyle mirabilis* (PR)*Pseudempleurosoma caranxi* (CB)*Caranx caballus* (= *Paratractus caballus*)*Ahpua piscicola* (CR,ME)*Allopyrgraphorus caballeri* (ME)*Cemocotyle borinquensis* (PR)*Cemocotylella elongata* (CR)*Neomicrocotyla pacifica* (ME)*Caranx caninus**Protomicrocotyle nayaritensis* (ME)

Remarks: According to fish base, *Caranx hippos caninus* is synonymized with *Caranx hippos* and with *C. caninus*

Caranx crysos

- Allopyragraphorus incomparabilis* (ME, PR)
Cemocotyle carangis (ME, PR)
Neomicrocotyla pacifica (ME)
Protomicrocotyle mirabilis (ME)
Pseudomazocraes selene (ME)
- Caranx hippos*
Ahpua piscicola (ME)
Allopyragraphorus caballeroi (ME)
Allopyragraphorus hippos (PR)
Allopyragraphorus incomparabilis (PR)
Allopyragraphorus winteri (ME)
Cemocotyle carangis (PR)
Cemocotyle noveboracensis (ME, PR)
Cemocotylella elongata (ME)
Dionchus remorae (CS)
Neomicrocotyla pacifica (CR, ME)
Protomicrocotyle manteri (ME)
Protomicrocotyle mirabilis (ME, PR)
Pseudomazocraes monsvivaisae (ME)
Pseudomazocraes riojai (ME)
Pseudomazocraes selene (ME)
Salinacotyle mexicana (ME)
Zeuxapta seriolae (ME)
- Caranx latus* (= *Xurel lata*)
Ahpua piscicola (ME)
Allopyragraphorus hippos (PR)
Allopyragraphorus incomparabilis (PR)
Allopyragraphorus winteri (ME)
Cemocotyle carangis (PR)
Cemocotyle noveboracensis (PR)
Cemocotylella elongata (ME)
Protomicrocotyle manteri (ME)
Protomicrocotyle mirabilis (ME, PR)
Pseudomazocraes selene (ME)
- Caranx* sp.
Neomicrocotyle carangis (ME)
Protomicrocotyle manteri (ME)
Protomicrocotyle mirabilis (ME)
- Chloroscombrus chrysurus*
Amphipolycotyle chloroscombrus (ME)

- Chloroscombrus orqueta*
 Ampipolycotyle chloroscombrus (ME)
- Decapterus muroadsi* (= *Decapterus hypodus*)
 Ahpua piscicola (ME)
 Allopseudodichlidophora opelu (ME)
 Pseudodichlidophora decapteri (ME)
- Elagatis bipinnulata*
 Gotocotyla elagatis (PA)
- Hemicaranx atrina*
 Salinacotyle mexicana (ME)
- Naucrates ductor*
 Ancyrocotyle bartschi (PR)
- Oligoplites altus*
 Ahpua piscicola (CR)
 Hargicola oligoplites (CR)
 Heteraxinoides zhukovi (ME)
- Oligoplites saurus*
 Gotocotyla jicacali (ME)
 Hargicola oligoplites (ME)
 Probursata veraecrucis (ME)
- Selar crumenophthalmus* (= *Trachurops crumenophthalmus*)
 Choricotyle caulolatali (ME)
 Jaliscia caballeroi (ME)
 Pseudomazocraes monsvaisae (ME)
- Selene brevoorti* (= *Argyriosus brevoorti*)
 Pseudomazocraes monsvaisae (ME)
- Selene peruvina* (= *Vomer declivifrons*)
 Ahpua piscicola (ME)
 Pseudomazocraes monsvaeisae (CR)
- Selene vomer* (= *Argyreiosus vomer*)
 Pseudomazocraes selene (ME)
- Seriola lalandi* (= *Seriola dorsalis*)
 Zeuxapta seriola (ME)
- Seriola rivoliana*
 Neobenedenia melleni (BE)
- Trachinotus carolinus*
 Ancyrocephalinae gen.sp. (ME)
 Bicotylophora trachinoti (ME)
 Protomicrocotyle mirabilis (ME)
 Pseudobicotylophora atlantica (ME)

- Pyragraphorus pyragraphorus* (ME)
Trachinotus falcatus
Bicotylophora trachinoti (ME)
Pyragraphorus pyragraphorus (ME)
Trachinotus goodei
Neobenedenia melleni (CS)
Trachinotus kennedyi
Bicotylophora trachinoti (ME)
Trachinotus paitensis (= *Trachinotus paloma*)
Protomicrocotyle manteri (ME)
Trachinotus rhodopus
Bicotylophora trachinoti (ME)
Pseudobicotylophora lopez-ochoterenai (ME)
Pyragraphorus pyragraphorus (ME)
Trachurops surametricus
Pseudomazocraes monsvaisae (ME)
Xurel malampygus
Cemocotylella elongata (PA)
Xurel marginatus
Neomicrocotyla pacifica (ME)

Family Centrarchidae

- Lepomis auritus*
Actinocleidus gracilis (PR)
Haploleidus furcatus (PR)
Onchocleidus ferox (PR)
Onchocleidus principalis (PR)
Lepomis macrochirus
Actinocleidus gracilis (PR)
Haploleidus furcatus (PR)
Lepomis microlophus
Actinocleidus gracilis (PR)
Haploleidus furcatus (PR)
Micropterus coosae
Acolpenteron ureteroecetes (PR)
Actinocleidus bursatus (PR)
Haploleidus furcatus (PR)
Micropterus salmoides
Actinocleidus bursatus (PR)
Actinocleidus cf. *fergusoni* (ME)

- Actinocleidus fusiformis* (PR)
Ancyrocephalinae gen. sp. (ME)
Urocleidus sp. (CB)
Urocleidus furcatus (PR)
Urocleidus helicus (PR)
Micropterus salmoides floridanus
Acolpenteron ureteroecetes (PR)
Haploleidus furcatus (PR)
Onchocleidus principalis (PR)
Micropterus salmoides floridanus x *M. s. salmoides* hybrid
Acolpenteron ureteroecetes (PR)
Actinocleidus bursatus (PR)
Actinocleidus fusiformis (PR)
Haploleidus furcatus (PR)
Onchocleidus principalis (PR)

Family Centropomidae

- Centropomus ensiferus*
Rhabdosynochus sp. (PR)
Centropomus nigriscens
Mexicotrema bychowskyi (ME)
Centropomus pectinatus
Udonella calogorum (PA)
Centropomus undecimalis
Rhabdosynochus sp. (PR)
Rhabdosynochus hargisi (PR)

Family Chaetodontidae

- Chaetodon capistratus*
Haliotrema brevicirrus (CB)
Neobenedenia melleni (CS)
Chaetodon ocellatus
Haliotrema brevicirrus (CB)
Neobenedenia melleni (CS)
Chaetodon striatus
Haliotrema brevicirrus (CB)
Neobenedenia melleni (CS)
Johnrandallia nigrorostris (= *Chaetodon nigrorostris*)
Parahaliotrema pacificus (ME)

Family Chanidae

*Chanos chanos**Microcotyloides impudicus* (ME)

Family Cichlidae

*Amphilophus alfari**Sciadicleithrum nicaraguense* (NI)*Amphilophus citrinellus**Sciadicleithrum bravohollisae* (ME)*Archocentrus nigrofasciatus**Sciadicleithrum bicuense* (NI)*Sciadicleithrum meeki* (NI)*Astronotus ocellatus**Ancyrocephalus* sp. b (PR)*Cichlasoma beani**Sciadicleithrum* sp. (ME)*Cichlasoma bimaculatum**Trinidactylus cichlasomatis* (TR)*Urocleidoides alii* (TR)*Urocleidoides cichlasomatis* (TR)*Urocleidoides doboisi* (TR)*Cichlasoma geddesi* (= *Herichthys geddesi*)*Gyrodactylus* sp. (ME)*Sciadicleithrum bravohollisae* (ME)*Sciadicleithrum* sp. (ME)*Cichlasoma octofasciatum**Sciadicleithrum bravohollisae* (ME)*Sciadicleithrum mexicanum* (ME)*Cichlasoma salvini**Sciadicleithrum bravohollisae* (ME)*Cichlasoma trimaculatum**Sciadicleithrum mexicanum* (GT)*Cichlasoma urophthalmus**Cichlidogyrus sclerosus* (ME)*Sciadicleithrum bravohollisae* (ME)*Sciadicleithrum mexicanum* (ME, NI)*Sciadicleithrum* sp. (ME)*Urocleidoides heteroancistrum* (ME)*Cichlasoma* sp.*Sciadicleithrum bravohollisae* (ME)

- Cichlasoma (Parapetenia)* sp.
 Sciadicleithrum splendidae (ME)
- Herichthys labridens* (= *Cichlasoma labridens*)
 Sciadicleithrum bravohollisae (ME)
 Sciadicleithrum sp. (ME)
- Herichthys pearsei* (= *Cichlasoma pearsei*)
 Sciadicleithrum bravohollisae (ME)
 Sciadicleithrum sp. (ME)
- Heterotilapia multispinosa*
 Gussevia heterotilapiae (NI)
- Oreochromis aureus* (= *Tilapia aurea*)
 Benedenia sp. (CB)
 Cichlidogyrus longicornis (ME)
 Cichlidogyrus sclerosus (CB, ME)
 Cichlidogyrus tilapie (CB, ME, PR)
 Enterogyrus niloticus (ME)
 Gyrodactylus cichlidarum (PR)
 Gyrodactylus niloticus (ME)
 Neobenedenia melleni (PR)
 Sciadicleithrum bravohollisae (ME)
 Scutogyrus longicornis (ME)
- Oreochromis hornorum*
 Cichlidogyrus sclerosus (CB, ME)
 Cichlidogyrus tilapie (CB)
 Tetraonchus sp. (ME)
- Oreochromis mossambicus* (= *Tilapia mossambica*)
 Cichlidogyrus sclerosus (ME)
 Cichlidogyrus tilapiae (PR)
 Enterogyrus sp. (ME)
 Gyrodactylus cichlidarum (PR)
 Gyrodactylus niloticus (ME)
 Gyrodactylus sp. (ME)
 Neobenedenia melleni (BA, PR)
 Tetraonchus sp. (ME)
- Oreochromis hornorum* x *O. mossambicus*
 Neobenedenia melleni (BA)
 Cichlidogyrus sclerosus (CB)
 Cichlidogyrus tilapie (CB)
- Oreochromis mossambicus* x *O. urolepis* (= *T. urolepis urolepis*)
 Cichlidogyrus tilapiae (PR)

- Neobenedenia melleni* (PR)
Oreochromis niloticus niloticus (= *Tilapia nilotica*)
Cichlidogyrus dossoui (ME)
Cichlidogyrus haplochromii (ME)
Cichlidogyrus longicornis (ME)
Cichlidogyrus sclerosus (ME)
Cichlidogyrus tilapiae (ME,PR)
Dactylogyrus sp. (ME)
Enterogyrus malmbergi (ME)
Gyrodactylus niloticus (ME)
Oreochromis sp.
Dactylogyrus sp. (ME)
Neobenedenia melleni (BA)
Oreochromis spp. (red hybrid tilapia)
Neobenedenia melleni (JM)
Parachromis dovii
Sciadicleithrum mexicanum (NI)
Parachromis friedrichstahlII (= *Cichlasoma friedrichstahlII*)
Ancyrocephalinae gen. sp. (ME)
Sciadicleithrum mexicanum (ME)
Sciadicleithrum splendidae (ME)
Parachromis managuensis (= *Cichlasoma managuense*)
Gyrodactylus sp. (ME)
Sciadicleithrum bravohollisae (ME)
Sciadicleithrum meekii (ME)
Sciadicleithrum mexicanum (NI)
Sciadicleithrum splendidae (ME)
Petenia splendida
Sciadicleithrum bravohollisae (ME)
Sciadicleithrum mexicanum (ME)
Sciadicleithrum splendidae (ME)
Thorichthys aureus (= *Cichlasoma aureum*)
Gyrodactylus sp. (ME)
Sciadicleithrum mexicanum (ME)
Thorichthys callolepis (= *Cichlasoma callolepis*)
Enterogyrus malmbergi (ME)
Sciadicleithrum meekii (ME)
Thorichthys helleri (= *Cichlasoma helleri*)
Gyrodactylus sp. (ME)
Sciadicleithrum bravohollisae (ME)

- Sciadicleithrum meekii* (ME)
Thorichthys meeki (= *Cichlasoma meeki*)
Gyrodactylus sp. (ME)
Sciadicleithrum meekii (ME)
Theraps lentiginosum (= *Cichlasoma lentiginosum*)
Sciadicleithrum bravohollisae (ME)
Tilapia rendalli
Cichlidogyrus tilapiae (PR)
Tomocichla tuba
Sciadicleithrum mexicanum (NI)
Vieja fenestrata (= *Cichlasoma fenestratum* and *C. gadovii*)
Cichlidogyrus longicornis longicornis (ME)
Cichlidogyrus sclerosus (ME)
Cichlidogyrus tilapiae (ME)
Gyrodactylus sp. (ME)
Sciadicleithrum bravohollisae (ME)
Vieja maculicauda (= *Cichlasoma maculicauda*)
Sciadicleithrum bravohollisae (NI)
Sciadicleithrum maculicaudae (NI)
Sciadicleithrum mexicanum (NI)
Vieja synspila (= *Cichlasoma synspilum*)
Sciadicleithrum bravohollisae (ME)
Sciadicleithrum mexicanum (ME)
Sciadicleithrum splendidae (ME)
Sciadicleithrum sp. (ME)

Family Cirrhitidae

- Cirrhitus rivulatus*
Microcotyloides incisa (ME)

Family Coryphaenidae

- Coryphaena hippurus*
Neobenedenia melleni (BA)

Family Echeneidae

- Echeneis neucratoides*
Neobenedenia melleni (PR)

Family Eleotridae

- Dormitator maculatus*

Gyrodactylus sp. (ME)

Urocleidus sp. (ME)

Gobiomorus dormitor

Guavinella tropica (ME)

Gyrodactylus sp. (ME)

Urocleidoides sp. (ME)

Family Ehippidae

Chaetodipterus zonatus

Parahaliotrematoides chaetodipteri (ME)

Sprostoniella lamothei (ME)

Family Gerreidae

Diapterus auratus (= *Diapterus olisthostomus*)

Microcotyle atriobursata (ME)

Microcotyle tampicensis (ME)

Eugerres mexicanus (= *Diapterus mexicanus*)

Diplectanum sp. (ME)

Eugerres plumieri (= *Diapterus plumieri*)

Diplectanum collinsi (PR)

Encotyllabe sp. (ME)

Pseudohaliotrematoides sp. (ME)

Gerres cinereus

Diplectanum collinsi (PR)

Microcotyle neozelanicus (ME)

Family Haemulidae

Anisotremus dovii

Cynoscionicola srivastavai (ME)

Magniexcipula lamothei (ME)

Haemulon album

Neobenedenia melleni (BA)

Haemulon aurolineatum (= *Bathystoma aurolineatum*)

Haliotrema striatohamatus (CB, ME)

Haemulon carbonarium

Haliotrema striatohamus (CB, ME)

Haemulon flavolineatum

Haliotrema striatohamatus (CB, ME)

Haemulon melanurum

Haliotrema striatohamatus (CB, ME)

*Haemulon plumierii**Haliotrema striatohamatus* (CB, ME)*Neobenedenia melleni* (BA)*Haemulon sciurus**Haliotrema striatohamus* (CB, ME)*Neobenedenia melleni* (BA)*Haemulon scudderii**Mexicana littoralis* (ME)*Paracalceostoma calceostomoides* (ME)*Haemulon sexfasciatum**Mexicana littoralis* (ME)*Haemulon striatum**Haliotrema brevispirocirrus* (CB)*Haliotrema longiangusticirrus* (CB)*Microlepidotus brevipinnis**Choricotyle leonilavazquezae* (ME)*Microlepidotus inornatus**Choricotyle sonorensis* (ME)*Pseudoeurysorchis travassosi* (ME)*Pseudotetrascistrum skrjabini* (ME)*Pomadasy macracanthus**Encotyllabe pagrosomi* (ME)*Xenistius californiensis**Macrovalvitrema sinaloense* (ME)*Polynemicola californica* (ME)

Family Istiophoridae

*Istiophorus albicans**Tristomella laevis* (PR)*Istiophorus platypterus* (= *I. orientalis* and *I. greyi*)*Capsala ovalis* (CB)*Capsaloides istiophori* (CB)*Capsaloides marielenae* (ME)*Makaira indica* (= *M. marlina* and *Istiompax marlina*)*Capsala ovalis* (CB)*Tristomella pricei* (PA)*Makaira nigricans* (= *M. ampla*)*Capsala ovalis* (CB)*Capsala poeyi* (CB)*Tristomella laevis* (PR)

Makaira sp.*Capsaloides cristatus* (CB)*Tetrapturus albidus**Tristomella laevis* (PR)*Tetrapturus angustirostris**Capsala ovalis* (CB)*Capsaloides cristatus* (CB)*Tetrapturus audax* (= *Makaira mitzukurii* and *M. audax*)*Capsala ovalis* (CB)*Capsaloides hofmannae* (ME)*Capsaloides istiophori* (CB)*Capsaloides sinuatus* (ME)*Tristomella laevis* (ME)*Tristomella pricei* (ME)*Tetrapturus pfluegeri**Capsaloides cornutus* (PR)*Capsaloides magnaspinosus* (PR)*Tristomella laevis* (PR)

Family Kyphosidae

*Kyphosus elegans**Heteroplectanum kyphosi* (ME)*Heteroplectanum nenu* (ME)*Heteroplectanum oliveri* (ME)*Pseudobivagina aniversaria* (ME)*Kyphosus* sp.*Pseudobivagina aniversaria* (ME)*Sectator ocyurus**Pseudobivagina aniversaria* (ME)

Family Labridae

*Bodianus pulchellus**Parahaliotrema cornutus* (CB)

Family Lutjanidae

*Lutjanus analis**Euryhaliotrema tubocirrus* (CB, ME)*Haliotrema longihamus* (CB, ME)*Haliotrema magnigastrohamus* (CB, ME)*Lutjanus apodus*

- Euryhaliotrema fastigatum* (CB)
Euryhaliotrema paracanthi (CB)
Euryhaliotrema tubocirrus (CB, ME)
Haliotrema gracilihamus (CB, ME)
Haliotrema heteracantha (CB, ME)
Neobenedenia melleni (CS)
- Lutjanus argentiventris*
Macrovalvitrema sinaloense (ME)
Microcotyloides incisa (ME)
Pterinotrematoides mexicanum (ME)
- Lutjanus colorado*
Microcotyloides incisa (ME)
Polymicrocotyle manteri (CR, ME)
- Lutjanus cyanopterus*
Euryhaliotrema tubocirrus (CB, ME)
Microcotyloides incisa (ME)
- Lutjanus guttatus*
Microcotyloides incisa (ME)
Polymicrocotyle manteri (ME)
Pseudobivagina aniversaria (ME)
- Lutjanus jocu*
Euryhaliotrema fastigatum (CB)
Haliotrema gracilihamus (CB, ME)
- Lutjanus jordani*
Microcotyloides incisa (ME)
Polymicrocotyle manteri (ME)
- Lutjanus mahogoni*
Euryhaliotrema longibaculum (CB, ME)
Haliotrema cornigerum (CB, ME)
Haliotrema heteracantha (CB, ME)
Haliotrema magnigastrohamus (CB, ME)
- Lutjanus synagris*
Euryhaliotrema longibaculum (CB, ME)
Euryhaliotrema torquecirrus (CB, ME)
Euryhaliotrema tubocirrus (CB, ME)
Haliotrema cornigerum (CB, ME)
Haliotrema heteracantha (CB, ME)
Haliotrema longihamus (CB, ME)
Haliotrema magnigastrohamus (CB, ME)
Neobenedenia melleni (BA)

*Ocyurus chrysurus**Euryhaliotrema torquecirrus* (CB, ME)*Haliotrema heteracantha* (CB, ME)*Haliotrema magnigastrohamus* (CB, ME)*Neobenedenia melleni* (BA, CS)*Rhomboplites aurorubens**Euryhaliotrema tubocirrus* (CB, ME)

Family Malacanthidae

*Caulolatilus affinis**Jaliscia caballeroi* (ME)*Caulolatilus princeps**Choricotyle caulolati* (ME)*Jaliscia caballeroi* (ME)

Family Mugilidae

*Agonostomus monticola**Ancyrocephalus* sp. (ME, PR)

Diplectanidae gen. sp. (ME)

Microcotylidae gen. sp. (ME)

*Mugil cephalus**Metamicrocotyla chamelense* (ME)*Metamicrocotyla macracantha* (ME)*Metamicrocotyla mugilis* (ME)*Microcotyle pseudomugilis* (ME)*Neobenedenia pacifica* (ME)*Mugil curema**Metamicrocotyla chamelense* (ME)*Metamicrocotyla macracantha* (PR)*Metamicrocotyla pacifica* (ME)*Neobenedenia pacifica* (PR)*Pseudohaliotrema mugilinus* (PR)*Solostamenides pseudomugilis* (ME)

Family Mullidae

*Mulloidichthys martinicus**Cemocotylella elongata* (GD)*Pseudupeneus maculatus**Haliotrema brevicornigerum* (CB)*Haliotrema caballeroi* (GD)

Haliotrema caraibensis (GD)
Haliotrema golvani (GD)
Haliotrema longicornigerum (CB)
Haliotrema pseudupenei (CB)

Family Polynemidae

Polydactylus approximans (= *Polynemus approximans*)
Microcotyloides impudicus (ME,PA)
Polydactylus octonemus
Ahpua piscicola (ME)
Microcotyloides impudicus (ME)

Family Polyprionidae

Stereolepis gigas
Pseudorhabdosynochus caballeroi (ME)

Family Pomacanthidae

Holacanthus ciliaris
Neobenedenia melleni (CS)
Holacanthus tricolor
Neobenedenia melleni (CS)
Pomacanthus arcuatus
Neobenedenia melleni (CS)
Pomacanthus paru
Neobenedenia melleni (CS)

Family Pomacentridae

Abudefduf saxatilis
Neohaliotrema abudefdufi (CB)
Neohaliotrema bychowski (CB)
Neohaliotrema gracilis (CB)
Neohaliotrema macracanthum (CB)
Abudefduf taurus
Neohaliotrema gracilis (CB)
Neohaliotrema macracanthum (CB)
Microspathodon chrysurus
Neohaliotrema gracilis (CB)
Neohaliotrema nagibinae (CB)
Neohaliotrema problematicum (CB)
Paraneohaliotrema microspathodoni (CB)

Family Salmonidae

*Oncorhynchus mykiss**Gyrodactylus* sp. (ME)

Family Scaridae

Scarus iseri (= *S. croicensis*)*Haliotrema tuberobaculum* (CB)*Scarus perrico**Neobenedenia adenea* (ME)*Neobenedenia melleni* (ME)*Sparisoma chrysopterum**Haliotrema conspecta* (CB)

Family Sciaenidae

*Aplodinotus grunniens**Microcotyle spinicirrus* (ME)*Atractoscion nobilis* (= *Cynoscion nobilis*)*Anchoromicrocotyle guaymensis* (ME)*Bairdiella icistia**Cynoscionicola srivastavai* (ME)*Cynoscion nothus**Cynoscionicola pseudoheteracantha* (ME)*Cynoscion xanthulus**Bravocotyle sanblasensis* (ME)*Cynoscionicola srivastavai* (ME)*Isopisthus remifer* (= *I. altipinnis*)*Cynoscionicola srivastavai* (ME)*Menticirrhus* sp.*Hargicotyle lousianensis* (CR)*Micropogonias extenes* (= *Micropogon ectenes*)*Macrovalvitrema sinaloense* (ME)*Pterinotrematoides mexicanum* (ME)*Micropogonias megalops* (= *Micropogon megalops*)*Macrovalvitrema sinaloense* (ME)*Pterinotrematoides mexicanum* (ME)*Ophioscion sciurus**Macrovalvitrema sinaloense* (ME)*Pterinotrematoides mexicanum* (ME)*Umbrina roncadior*

- Cynoscionicola srivastavai* (ME)
Macrovalvitrema sinaloense (ME)
Pterinotrematoides mexicanum (ME)
Umbrina xanti (= *U. sinaloae*)
Cynoscionicola sciaenae (ME)
Cynoscionicola srivastavai (ME)
Euryhaliotrema sagmatum (ME)
Hargicotyle pacifica (ME)
Microcotyloides incisa (ME)
- Family Scombridae
- Acanthocybium solandri*
Caballerocotyla manteri (PR)
Neothoracocotyla acanthocybii (PA, PR)
- Euthynnus alleteratus*
Neohexostoma euthynni (PR)
- Euthynnus lineatus*
Neohexostoma euthynni (ME)
- Katsuwonus pelamis*
Allopseudaxine katsuwonis (PR)
- Sarda chiliensis chiliensis*
Grubea sp. (ME)
- Sarda orientalis*
Caballerocotyla caballeroi (ME)
- Scomberomorus brasiliensis*
Mexicotyle mexicana (ME)
Thoracocotyla crocea (PA)
- Scomberomorus cavalla*
Gotocotyla acanthophallus (ME, PR)
Mexicotyle mexicana (BA, JM, ME, PR, TR)
Scomberocotyle scomberomori (PR)
- Scomberomorus concolor*
Mexicotyle mexicana (ME)
Scomberocotyle scomberomori (ME)
Thoracocotyle crocea (ME)
- Scomberomorus maculatus*
Gotocotyla acanthophallus (ME)
Mexicotyle mexicana (ME)
Scomberocotyle scomberomori (ME)
Thoracocotyle crocea (ME)

*Scomberomorus regalis**Gotocotyla acanthophallus* (PR)*Mexicotyle mexicana* (ME, PR)*Thoracocotyle crocea* (CS,PA, PR)*Scomberomorus sierra**Gotocotyla acanthophallus* (ME)*Mexicotyle mexicana* (ME)*Scomberocotyle scomberomori* (ES, ME, PA)*Thoracocotyle crocea* (ES, ME, PA)*Scomberomorus* sp.*Thoracocotyle crocea* (ME)*Scomberomorus tritor**Mexicotyle mexicana* (ME)*Thunnus albacares* (= *Neothunnus macropterus*)*Caballerocotyla gotoi* (CB)*Caballerocotyla neothunni* (CB)*Caballerocotyla nozawae* (CB)*Nasicola klawei* (CB, ME, PR)*Thunnus atlanticus**Nasicola klawei* (PR)*Thunnus obesus* (= *Parathunnus sibi*)*Nasicola klawei* (CB)

Tunna

Jaliscia caballeroi (CR)

Family Serranidae

*Epinephelus adscensionis**Pseudorhabdosynochus monaensis* (PR)*Epinephelus analogus**Benedenia jalisciana* (ME)*Neobenedenia longiprostata* (ME)*Trocophus pseudomarginatus* (ME)*Epinephelus guttatus**Neobenedenia melleni* (PR)*Epinephelus labriformis**Benedenia jalisciana* (ME)*Benedenia convoluta* (ME)*Pseudorhabdosynochus amplidiscatum* (ME)*Trocophus pseudomarginatus* (ME)*Epinephelus morio*

- Haliotrema macrobaculum* (CB, ME)
Pseudorhabdosynochus yucatanensis (ME)
Epinephelus striatus
Neobenedenia melleni (BA, CS)
Mycteroperca bonaci
Pseudorhabdosynochus capurroi (ME)
Mycteroperca microlepis
Haliotrema macrobaculum (CB, ME)
Mycteroperca olfax
Neobenedenia isabellae (ME)
Mycteroperca rosacea (= *M. pardalis*)
Neobenedenia adenea (ME)
Neobenedenia melleni (ME)
Mycteroperca venenosa
Haliotrema macrobaculum (CB, ME)
Mycteroperca sp.
Benedenia anadenea (ME)
Neobenedenia adenea (ME)
Paralabrax maculatofasciatus
Mamaevicotyle villalobosi (ME)
Pseudorhabdosynochus amplidiscatum (ME)

Family Sparidae

- Archosargus rhomboidalis*
Microcotyle tampicensis (ME)
Calamus bajonado
Encotyllabe monticelli (CB)
Haliotrema mediohamus (ME)
Haliotrema parvicirrus (ME)
Calamus brachysomus
Magniexcipula lamothei (ME)
Pseudochaunea mexicana (ME)
Calamus calamus
Encotyllabe lintoni (BE)
Neobenedenia melleni (BA)
Haliotrema mediohamus (ME)
Haliotrema parvicirrus (ME)

Family Sphyraenidae

- Sphyraena argentea*

- Paramonaxine yamagutii* (ME)
Sphyraena barracuda
Cotyloatlantica pretiosa (ME)
Pseudochauhanea mexicana (ME)
Pseudochauhanea sphyraenae (PR)
Rhinecotyle deloyai (ME)
Sphyraena ensis
Paramonaxine yamagutii (ME)
Pseudochauhanea elongata (ME)
Pseudochauhanea mexicana (ME)
Sphyraena guachancho
Cotyloatlantica pretiosa (ME)

Family Stromateidae

- Peprilus medius* (= *Palometa media*)
Oaxocotyle oaxacensis (ME)
Peprilus simillimus
Oaxocotyle oaxacensis (ME)

Family Xiphiidae

- Xiphias gladius*
Tristoma adcooccineum (CB)
Tristoma adintegrum (CB)

Order Pleuronectiformes

Family Paralichthyidae

- Paralichthys californicus*
Entobdella squamula (ME)
Syacium sp.
Neoheterobothrium syacii (ME)

Order Pristiformes

Family Pristidae

- Pristis perotteti*
Erpocotyle caribbensis (NI)
Pristonchotyle intermedia (NI)

Order Scorpaeniformis

Family Sebastidae

*Sebastes chlorostictus**Microcotyle sebastes* (ME)*Sebastes constellatus**Microcotyle sebastes* (ME)*Sebastes elongatus**Microcotyle sebastes* (ME)*Sebastes helvomaculatus**Microcotyle* sp. (ME)*Sebastes rosaceus**Microcotyle* sp. (ME)*Sebastes umbrosus**Microcotyle* sp. (ME)

Family Triglidae

*Prionotus punctatus**Pseudobivagina aniversaria* (ME)*Prionotus stephanophrys**Orbocotyle elmeroblei* (ME)**Order Siluriformes**

Family Ariidae

Hexanematichthys seemani (= *Galeichthys seemani*)*Neotetraonchus bychowskyi* (ME)

Family Callichthyidae

*Corydoras aeneus**Urocleidoides corydori* (TR)*Urocleidoides margolisi* (TR)

Family Heptapteridae

*Rhamdia guatemalensis**Ameloblastella chavarriai* (ME)*Aphanoblastella travassosi* (ME)*Gyrodactylus* sp. (ME)*Pavanelliella scaphiocotylus* (ME)*Rhamdia laticauda* (= *R. rogersi*)*Ameloblastella chavarriai* (CR)*Aphanoblastella travassosi* (CR)*Rhamdia nicaraguensis*

- Ameloblastella chavarriai* (NI)
Aphanoblastella travas (NI)
Rhambdia quelen (= *R. sebae*)
Ameloblastella chavarriai (TR)
Aphanoblastella travassosi (TR)

Family Ictaluridae

- Ameiurus catus*
Cleidodiscus pricei (PR)
Ameiurus nebulosus
Cleidodiscus pricei (PR)
Ictalurus furcatus (= *I. Meridionales*)
Ligictaluridus mirabilis (ME)
Microcotyle sp. (ME)
Ictalurus punctatus
Cleidodiscus floridanus (ME)
Cleidodiscus pricei (PR)
Dactylogyrus sp. (ME)
Gyrodactylus sp. (ME)

Family Loricariidae

- Hypostomus robini*
Trinigyruis hypostomatis (TR)
Unilatus unilatus (TR)

Order Tetraodontiformes

Family Balistidae

- Balistes polylepis*
Pseudomazocraes monsvaisae (ME)
Balistes vetula
Neobenedenia melleni (CS)
Melichthys niger (= *M. bispinosus*)
Neobenedenia melleni (CS)
Verrunculus polylepis
Paracalceostoma calceostomoides (ME)

Family Diodontidae

- Diodon hystrix* Linnaeus
Neobenedenia melleni

Family Molidae

*Mola mola**Capsala martinieri* (CB)

Family Monacanthidae

*Aluterus scriptus**Neobenedenia melleni* (CS)

Family Ostraciidae

*Acanthostracion polygonius**Haliotrema kritskyi* (GD)*Haliotrema lactophrys* (GD, ME)*Haliotrema minutum* (GD)*Haliotrema torridum* (GD)*Acanthostracion quadricornis* (= *Lactophrys quadricornis*)*Haliotrema lactophrys* (GD, ME)*Lactophrys bicaudalis**Haliotrema glandulosum* (GD)*Haliotrema guadeloupensis* (GD)*Neobenedenia melleni* (CS)*Lactophrys triqueter**Haliotrema glandulosum* (GD)*Haliotrema guadeloupensis* (GD)*Haliotrema torridum* (GD)

Family Tetraodontidae

Arothron hispidus (= *Tetraodon hispidus*)*Tetrancistrum obesum* (PA)*Sphoeroides* sp.*Tagia ecuadori* (CR)*Sphoeroides annulatus* (= *Cheilichthys annulatus*)*Neobenedenia melleni* (ME)*Tagia ecuadori* (ME, PA)**Non identified hosts:**

Non identified "mantarraya gris"

Dendromonocotyle cortesi (ME)

Non identified fish from the family Sciaenidae

Mexicana bychowskyi (ME)

Non-identified

Axine yamagutii (ME)

Non-identified “pargo”

Polymicrocotyle manteri (ME)

Unidentified, grouper-like fish

Neobenedenia isabellae (ME)

Amphibia

Order Anura

Family Bufonidae

Bufo marinus

Polystoma naevius (ME)

Bufo simus

Riojatrema bravoae (ME)

Family Hylidae

Hyla baudinii

Polystoma naevius (ME)

Hyla microcephala

Polystoma naevius (ME)

Hyla septentrionalis

Polystoma stellai (CB)

Smilisca baudinii

Polystoma naevius (ME)

Smilisca cyanosticta

Polystoma naevius (ME)

Family Letodactylidae

Eleutherodactylus rhodopsis

Polystoma naevius (ME)

Leptodactylus melanonotus

Polystoma naevius (ME)

Tomodactylus amulae

Riojatrema bravoae (ME)

Family Pelobatidae

Scaphiopus couchii

Pseudodiplorchis americanus (ME)

Scaphiopus hammondii multiplicatus

Neodiplorchis scaphiopi (ME)

Family Ranidae

Rana vaillanti

Polystoma naevius (ME)

Reptilia

Order Testudines

Family Bataguridae

Geomyda melanosterna

Neopolystoma cyclovitellum (PA)

Rhinoclemmys pulcherrima

Neopolystoma fentoni (CR)

Family Chelydridae

Chelydra serpentina

Neopolystoma domitilae (ME)

Family Emydidae

Chrysemys scripta cataspila

Neopolystoma orbiculare (ME)

Pseudemys decussata

Neopolystoma orbiculare (CB)

Terrapene ornata (= *Chrysemys ornata*)

Neopolystoma domitilae (ME)

Family Kinosternidae

Kinosternon hirtipes

Polystoma naevius (ME)

Polystomoidella oblongum (ME)

Polystomoidella whartoni (ME)

Kinosternon integrum

Polystomoidella oblongum (ME)

Kinosternon leucostomum

Neopolystoma fentoni (CR)

Neopolystoma orbiculare (ME)

Discussion

In the present checklist, 210 species from Mexico, 155 from the Caribbean (5 from Bahamas, three from Bermuda, three from Caribbean Sea, 66 from Cuba, one from Dominican Republic, 10 from Guadeloupe, three from Jamaica, 46 from Puerto Rico and 18 from Trinidad) and 63 from Central America (23 from Costa Rica, three from El Salvador, two from Guatemala, 18 from Nicaragua and 17 from Panama), with hosts and geographical distribution are listed, bringing up to date the knowledge of Latin American monogenean fauna.

Three hundred and twenty nine identified marine and freshwater fish species and 5 non identified were reported parasitized by Monogenea. The fish species most parasitized were *Caranx hippos* presenting 17 different species of Monogenea. The majority of fish species were parasitized with 1 to 4 species of Monogenea.

Twelve species of amphibians from Mexico and one from Cuba were reported, each parasitized by only one monogenean species.

Nine species of reptilians were reported parasitized by Monogenea, being 5 from Mexico, one from Mexico and Costa Rica, one from Panama, one from Cuba and one from Costa Rica. Most species harbour only one species of monogenean; *Kinosternon hirtipes* 3 and *K. leucostomum* 2.

Neobenedenia melleni was the most reported monogenean species, in 6 different countries, followed by *Mexicotyle mexicana*, present in 5 and *Thoracocotyla crocea*, *Ameloblastella chavarriai*, *Aphanoblastella travassosi*, *Cemocotylella elongata*, *Scomberocotyle scomberomori*, *Urocleidoides costaricensis*, each present in 4 different countries.

In Cuba, Dactylogyridae is the most prevalent family of Monogenea reported (91%), due to many studies in parasites of cultivated fishes. From 18 species reported from Trinidad, 15 belongs to Dactylogyridae and were published in 2 papers in 1974 by Molnar, Hanek and Fernando. In Guadeloupe ten Monogeneans species were reported, from which 9 belong to the dactylogyridean genus *Haliotrema*, published in 2 papers (Euzet & Vala 1976; Vala *et al.* 1982). Only in 1976 the presence of Monogenean species was reported from Nicaragua, in one paper published by Watson and Thorson. Studies on freshwater fishes demonstrated the high prevalence of the dactylogyrideans in this country. The major contributions of fish parasites in Panama were made in marine fishes, rather than in freshwater, leading to the low prevalence of dactylogyrideans in this country.

Mexico is a part of the american continent in which two biogeographical regions converge, the Nearctic and the Neotropical, giving as consequence a great diversity of species and a great number of endemisms, reflecting mainly in species of continental waters. From 1938 on, several authors as Caballero y Caballero, Bravo-Hollis and Lamothe-Argumedo improved the study of this group of parasites, describing and reporting species parasites of marine fishes. The study of the freshwater monogenean species have been increased only in the last decade, explaining the low prevalence of

dactylogyrideans in Mexico (26%).

According to Aguilar-Aguilar *et al.* (2003), recent studies of the helminth parasites of freshwater fishes in several Mexican hydrological basins indicate that the composition of helminth communities in different hosts species includes species with wide geographical distributions and other species with more restricted distribution.

Based on helminth data on parasites of cichlid fishes, Vidal-Martinez & Kennedy (2000) claim a close similarity between Central America and southern Mexico, suggesting this area to be regarded as “Mesoamerican province” of the Neotropics.

The data presented in this checklist undoubtedly reflects the degree of research that have been carried out in each region, more than the diversity of monogenean fauna.

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