

## Parasites of coral reef fish: how much do we know? With a bibliography of fish parasites in New Caledonia

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**ABSTRACT.** A compilation of 107 references dealing with fish parasites in New Caledonia permitted the production of a parasite-host list and a host-parasite list. The lists include Turbellaria, Monopisthocotylea, Polyopisthocotylea, Digenea, Cestoda, Nematoda, Copepoda, Isopoda, Acanthocephala and Hirudinea, with 580 host-parasite combinations, corresponding with more than 370 species of parasites. Protozoa are not included. Platyhelminthes are the major group, with 239 species, including 98 monopisthocotylean monogeneans and 105 digeneans. Copepods include 61 records, and nematodes include 41 records. The list of fish recorded with parasites includes 195 species, in which most (ca. 170 species) are coral reef associated, the rest being a few deep-sea, pelagic or freshwater fishes. The serranids, lethrinids and lutjanids are the most commonly represented fish families. Although a list of published records does not provide a reliable estimate of biodiversity because of the important bias in publications being mainly in the domain of interest of the authors, it provides a basis to compare parasite biodiversity with other localities, and especially with other coral reefs. The present list is probably the most complete published account of parasite biodiversity of coral reef fishes. However, it is estimated that the present state of knowledge (370 parasite species) represents only 2% of the possible number of metazoan parasites of fish present in a coral reef environment.

**KEY WORDS:** Check lists, parasite-hostlist, host-parasit list, biodiversity

**RÉSUMÉ:** Une compilation de 107 références traitant de parasites de poissons en Nouvelle-Calédonie a permis de produire une liste parasites-hôtes et une liste hôtes-parasites. Les listes incluent des Turbellaria, Monopisthocotylea, Polyopisthocotylea, Digenea, Cestoda, Nematoda, Copepoda, Isopoda, Acanthocephala et Hirudinea, avec 580 combinaisons hôtes-parasites, correspondant à plus de 370 espèces de parasites. Les Protozoa ne sont pas inclus. Les Plathelminthes sont le groupe le plus important avec 239 espèces, y compris 98 monogènes Monopisthocotylea et 105 digènes. Les copépodes incluent 61 mentions, et les nématodes 41. La liste des poissons mentionnés avec des parasites inclut 195 espèces, parmi lesquels la plupart (environ 170 espèces) sont associées aux récifs coralliens, le reste étant quelques espèces de mer profonde, pélagiques ou d'eau douce. Les Serranidae, Lethrinidae et Lutjanidae sont les familles les plus représentées. Bien qu'une liste de mentions publiées ne fournisse pas une estimation fiable de la biodiversité à cause du biais important des publications, qui sont produites principalement dans les domaines d'intérêt des auteurs, elle forme une base pour comparer la biodiversité parasitaire avec d'autres localités, et surtout avec d'autres récifs coralliens. Cette liste est probablement la plus complète publiée pour la biodiversité parasitaire des poissons des récifs coralliens. Toutefois, on estime que l'état actuel de nos connaissances (370 espèces de parasites) ne représente que 2% du nombre possible de parasites métazoaires de poissons présents dans l'environnement des récifs coralliens.

### INTRODUCTION

Coral reefs are areas of great biodiversity (REAKA-KUDLA, 1997). The lagoon around the mainland of New Caledonia is the largest coral lagoon in the World and its fauna is probably one of the best known, with 8,299 metazoan species recorded and identified, including 1,694 in-shore fishes (FRICKE & KULBICKI, 2007). Thus, New Caledonia is a good example of coral reef biodiversity and results obtained at this location provide a basis for comparison with other coral reef environments.

Parasites generally represent a neglected compartment of diversity, because they are small, hidden on or within their hosts, and need more detailed observation and preparation than

vertebrates and large invertebrates to be identified with precision.

In this study, I attempt to evaluate what is currently known about the fauna of fish parasites in New Caledonia, and to estimate the extent of our current knowledge in comparison to a total, exhaustive (and probably impossible to reach) inventory of the parasite fauna.

### MATERIALS AND METHODS

The present evaluation is based only on published records. Although every effort has been made to compile a complete list, it is still possible that a few references have been overlooked. Among the studies of fish parasites in

New Caledonia, a major work was the study on digeneans by Manter, who came for three weeks in 1963 and then described more than 40 species (DURIO & MANTER, 1968a, b, 1969; MANTER, 1969). Unfortunately, many fishes from which Manter collected digeneans were not identified to the species level. The vernacular New Caledonian names used by Manter have been 'translated' into binomials (JUSTINE, 2007a). A number of papers by various authors on various groups and mainly based on the Australian fauna, include records from New Caledonia. The present author began a detailed study of fish parasites in 2003 and collected specimens from all groups; most recent papers have benefited from these collections. Host names have been updated using FishBase (FROESE & PAULY, 2009). Papers with insufficient levels of taxonomic identification (MORAND et al., 2000; SASSAL et al., 2007) are not included within the lists.

Table 1 includes a parasite-host list, in which all parasites recorded are listed in taxonomical order (and alphabetical order within each group) and their fish host is indicated.

Monogeneans have been separated as Monopisthocotylea and Polyopisthocotylea, because these two groups are generally very different in size and are easily distinguished at the time of collection, and also because doubts about the monophyly of monogeneans (JUSTINE, 1998; PARK et al., 2007) suggest that these two groups should be treated independently. Monogenean genera (*Haliotrema*, etc.) sometimes included in the Dactylogyridae are here considered as members of the Ancyrocephalidae. Cestodes have been separated as three subgroups, or orders (Tetraphyllidea, Bothriocephalidea and Trypanorhyncha) because these classes represent very different forms and are not collected using the same methods (larval trypanorhynchs are generally encysted and require special manipulation); pseudophyllideans are classified as Bothriocephalidea (KUCHTA et al., 2008).

Species counts generally include unidentified species, but these are counted only once. This certainly minimizes the number of species, since it is likely, for example, that most *Haliotrema* spp. or *Euryhaliotrema* spp. (monogeneans) represent different species.

Table 2 is a host-parasite list, in which each fish has its parasites listed. Elasmobranch and teleost fish are separated, and fish families are listed in alphabetical order, as are species within each family. When a parasite species has been recorded under several different names, it is designated "as other name" in the lists, to avoid its record being counted twice. Absence of known hosts in the case of certain isopods comes from the fact that some of these parasites were collected in dredges.

## RESULTS

A total of 109 references include records of fish parasites in New Caledonia. These represent more than 1,500 published pages (excluding books).

Table 1 (the parasite-host list) includes 371 species of parasites (unidentified species have been counted as one species, thus minimizing the count). The total number of host-parasite combinations is 580. Table 3 summarizes the

numerical importance of each parasitic group. Platyhelminthes is the major group with 240 species, representing 65% of the total number of species, followed by copepods (61 records, 16%) and nematodes (41 records, 11%). Monopisthocotylean monogeneans, with 98 species, include only 4 families (Ancyrocephalidae, Capsalidae, Diplectanidae and Monocotylidae) but diplectanids alone include 58 species. Digeneans include 20 families and 105 species; the most speciose families are the Opecoelidae (18 species) and Hemiuiridae (17). Nematodes include 9 families; the most speciose families are the Camallanidae (10 species) and Philometridae (9).

Table 2 (the host-parasite list) includes 195 fish species with parasites recorded. This includes 14 elasmobranch and 181 teleost species. The families with the most species mentioned with parasites are the serranids (30), lethrinids (16), lutjanids (15) and chaetodontids (15). The fish species with the highest numbers of published parasite species are the balistid *Pseudobalistes fuscus* (12 species), the lethrinid *Lethrinus nebulosus* (13), and the serranids *Epinephelus fasciatus* (15), *E. maculatus* (16), and *E. cyanopodus* (31). Exhaustive counts of parasite species have been attempted previously for a few species of serranids (Table 4). Although impressive in the number of species listed, these lists are not complete; it has been suggested that about 100 species of parasites might be present in the large species of groupers (serranids) (JUSTINE & SIGURA, 2007). However, these estimates are of interest in showing that the present list of published records includes only a small proportion of the actual parasite biodiversity.

Most fish recorded here are from inside the lagoon and thus should be considered as coral reef-associated species. A few fish (4) mentioned in the list have been collected in freshwater and are indicated as such. However, most freshwater species on Pacific islands have at least a part of their life-cycle in sea and thus it is not aberrant to include them in the list. A few species (16) are deep-sea fishes and are indicated as such; they harbour less than 40 parasite species. The serranid *Epinephelus chlorostigma* is mentioned as a deep-sea fish because the specimen was actually caught on the outer slope of the barrier reef, but may be encountered in shallow waters (FRICKE & KULBICKI, 2007). In contrast, there is no doubt that the deep-sea sharks, the lutjanids *Etelis* spp. and *Pristipomoides* spp. and the hoplichthyid *Hoplichthys citrinus* are strictly confined to deep-sea environments. A few species (2-4) are pelagic fish, such as the large scombrids (tunas and swordfish). Finally, of the 195 fish species recorded with parasites, more than 170 can be considered as coral-associated lagoon fish; parasite species recorded from coral reef fish are about 350.

## DISCUSSION

A faunal list based on published references certainly does not show the actual importance of biodiversity. A main reason is that authors publish on the groups that are of interest to them, for personal or scientific reasons. As an example, the high numbers of diplectanid monogeneans or trichoso-

moidid nematodes recorded are simply an indication of the interest of the present author in these groups, and does not indicate that the parasite fauna of New Caledonia is specially rich in these families. Another reason is that trivial groups, which are known ‘everywhere’ and considered as of little interest, are often simply not mentioned; this is probably the case for anisakid nematode larvae, which are present in nearly all fish examined, but rarely mentioned. Tetraphylleidean cestode larvae or gnathiid isopod larvae are also good example of widespread biodiversity, generally neglected in publications. For certain groups, we already know that biodiversity (the actual number of species) is much higher than the one already described (e.g. see Table 2 in KRITSKY et al., 2009) but taxonomical work is still in progress and unpublished.

However, a list based on references shows the extent of knowledge which is actually available to the scientific community, and allows comparisons with other geographical localities, i.e. we can compare parasite biodiversity in New Caledonia with other localities only on the basis of published works. Table 5 summarizes available references on fish parasites in the Indo-Pacific. Most studies listed here do not allow comparison of the relative parasite biodiversity in coral reefs, because they include fishes from freshwater or from noncoral associated environments. The only list which was specifically limited to a coral-reef environment, Heron Island on the Great Barrier Reef (LESTER & SEWELL, 1989), was the result of both a one-week meeting and field work by a group of parasitologists in 1986 and a compilation of the available literature at that period. This list included only 122 fish species (compared to about 170 coral-reef fishes in the present compilation); the number of records (i.e. host-parasite combinations) is the same in both studies (580) but this includes all parasites, including Protozoa, on Heron Island, compared with only Metazoa in New Caledonia. The number of parasite species on Heron Island was not indicated, and many identifications were at the family level only; it can be estimated to be about 300, in comparison to 370 in New Caledonia. Therefore, the present study is likely to be the most complete compilation of metazoan parasites of coral reef fishes in the literature.

#### **An evaluation of global parasite biodiversity in coral reef fishes**

##### orders

Evaluations of numbers of parasites per fish species have been proposed by various authors (Table 5). The early global estimate of Rohde of 20,000 parasite species (including Protozoa) for 1,000 fish species on Heron Island is generally considered reasonable by most authors. A prediction of 100,000–200,000 helminth species for the 20,000 species of fish worldwide has also been made (BOUCHET, 2006).

The number of fish species in New Caledonia is about 2,200. Precise counts include 1,694 “in-shore fishes”, i.e. fishes encountered at less than 100 m depth (FRICKE & KULBICKI, 2007), which we may generally consider as “coral reef associated” and 414 bathyal fishes (RICHER DE FORGES & JUSTINE, 2006); and pelagic species should be added to these par-

tial totals. The fish species recorded with at least one parasite represent about 9% (195: 2,200) of the total number of fish.

The author’s present work in New Caledonia (about 1,800 host-parasite combinations, largely unpublished) suggests that an average of 10 species of parasites per fish species is a reasonable estimate (only Metazoa, excluding Protozoa). Large species might harbour as many as 100 species of parasites (JUSTINE & SIGURA, 2007). This allows a prediction of about 17,000 parasite species to be made for the 1,700 reef fishes of New Caledonia. With 350 species recorded, the present bibliographical list highlights the paucity of our knowledge: just 2% of the parasites have been recorded.

Finding 2% of the total number of parasites on 9% of the total number of fish does not suggest that the fish investigated had specially few parasites; this rather shows that most published records were incidental and not the product of an exhaustive survey.

In addition to fish parasite, coral reef include a high number of other parasites or symbionts, such as copepods associated with echinoderms or corals (BOXSHALL & HUYS, 2007), or parasitic molluscs (BOUCHET, 2006; BOUCHET et al., 2002); the present compilation probably represent a small part of parasite biodiversity in coral reefs.

Many comments have been done about the ‘taxonomic impediment’ i.e. the difficulty to describe biodiversity. I will just add yet another estimate: given that these 2% needed 1,500 published pages, the publication of parasite biodiversity of New Caledonia would need about 75,000 pages. Taxonomists, who know what amount of work is sometimes hidden behind a single figure or a sentence in a diagnosis, will understand.

#### **ACKNOWLEDGEMENTS**

Many authors cited here provided literature. Geoff Boxshall and Jean-Paul Trilles edited the copepods and isopods, respectively. Although the journal recommends that all authors of taxa should be cited, the Editor agreed that the reference list does not include the authors of fish taxa (which are cited without year as it is usual in the parasitological literature), and that authors of parasite taxa are cited only after 1950; in spite of this, authors of taxa represent more than 80 references. Ian Beveridge edited the English.

This compilation includes all publications known to the author (including in press) in November 2009.

TABLE 1.  
Parasite-Host list

<b>TURBELLARIA</b>			
1 family recorded; 1 species recorded + unidentified species			
<b>GENOSTOMATIDAE</b>			
<b><i>Piscinquilinus</i> sp.</b>			
<i>Naso unicornis</i>		JUSTINE et al., 2009b	
<b>UNKNOWN FAMILY</b>			
<i>Acanthurus xanthopterus</i>		JUSTINE et al., 2009b	
<i>Chaetodon ephippium</i>		JUSTINE et al., 2009b	
<i>Cheilinus chlorourus</i>		JUSTINE et al., 2009b	
<i>Chromis viridis</i>		JUSTINE et al., 2009b	
<i>Epinephelus fasciatus</i>		JUSTINE et al., 2009b	
<i>Nemipterus furcosus</i>		JUSTINE et al., 2009b	
<i>Thalassoma lutescens</i>		JUSTINE et al., 2009b	
<b>MONOGENEA MONOPISTHOCOTYLEA</b>			
alphabetical order of families and species;			
4 families recorded; 98 species recorded + unidentified species			
<b>ANCYROCEPHALIDAE</b>			
<b><i>Aliatrema cribbi</i> Plaisance &amp; Kritsky, 2004</b>			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<i>Heniochus chrysostomus</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Euryhaliotrematoides annulicirrus</i> (Yamaguti, 1968) Plaisance &amp; Kritsky, 2004</b>			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Euryhaliotrematoides aspitis</i> Plaisance &amp; Kritsky, 2004</b>			
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Euryhaliotrematoides grandis</i> (Mizelle &amp; Kritsky, 1969) Plaisance &amp; Kritsky, 2004</b>			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Euryhaliotrematoides microphallus</i> (Yamaguti, 1968) Plaisance &amp; Kritsky, 2004</b>			
<i>Heniochus chrysostomus</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Euryhaliotrematoides pirulum</i> Plaisance &amp; Kritsky, 2004</b>			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<b><i>Haliotrema aurigae</i> (Yamaguti, 1968) Plaisance, Bouamer &amp; Morand, 2004</b>			
<i>Chaetodon auriga</i>		PLAISANCE et al., 2004	
<i>Chaetodon citrinellus</i>		PLAISANCE et al., 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE et al., 2004	
<i>Heniochus chrysostomus</i>		PLAISANCE et al., 2004	
<b><i>Haliotrema banana</i> Lim &amp; Justine, 2007</b>			
<i>Bodianus perditio</i>		LIM & JUSTINE, 2007	
<b><i>Haliotrema epinepheli</i> Young, 1968</b>			
<i>Epinephelus maculatus</i>		JUSTINE, 2007c	
<i>Variola albimarginata</i>		JUSTINE, 2005c	
<i>Variola louti</i>		JUSTINE, 2005c	
<b><i>Haliotrema</i> spp.</b>			
<i>Cephalopholis sonnerati</i>			JUSTINE, 2007d
<i>Epinephelus cyanopodus</i>			SIGURA & JUSTINE, 2008
<i>Epinephelus maculatus</i>			JUSTINE, 2007c
<i>Epinephelus morrhua</i>			JUSTINE, 2008c
<i>Lethrinus harak</i>			JUSTINE, 2007e;
			RASCALOU & JUSTINE, 2007
<i>Lethrinus lentjan</i>			JUSTINE, 2007e
<i>Lethrinus nebulosus</i>			JUSTINE, 2007e;
			RASCALOU & JUSTINE, 2007
<i>Lethrinus ravus</i>			JUSTINE, 2007e
<i>Lethrinus rubrioperculatus</i>			JUSTINE, 2007e
<i>Lethrinus xanthochilus</i>			JUSTINE, 2007e
<b><i>Euryhaliotrema</i> spp.</b>			
<i>Lutjanus argentimaculatus</i>			KRITSKY et al., 2009
<i>Lutjanus fulviflamma</i>			KRITSKY et al., 2009
<i>Lutjanus fulvus</i>			KRITSKY et al., 2009
<i>Lutjanus quinquelineatus</i>			KRITSKY et al., 2009
<i>Lutjanus russellii</i>			KRITSKY et al., 2009
<i>Lutjanus vitta</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides longitubocirrus</i> (Bychowsky &amp; Nagibina, 1971) Kritsky, Yang &amp; Sun, 2009</b>			
<i>Lutjanus fulvus</i>			KRITSKY et al., 2009
<i>Lutjanus quinquelineatus</i>			KRITSKY et al., 2009
<i>Lutjanus russellii</i>			KRITSKY et al., 2009
<i>Lutjanus vitta</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides patellacirrus</i> (Bychowsky &amp; Nagibina, 1971) Kritsky, Yang &amp; Sun, 2009</b>			
<i>Lutjanus fulviflamma</i>			KRITSKY et al., 2009
<i>Lutjanus fulvus</i>			KRITSKY et al., 2009
<i>Lutjanus quinquelineatus</i>			KRITSKY et al., 2009
<i>Lutjanus russellii</i>			KRITSKY et al., 2009
<i>Lutjanus vitta</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides tainophallus</i> Kritsky &amp; Justine, 2009 in Kritsky, Yang &amp; Sun</b>			
<i>Lutjanus fulviflamma</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides potens</i> Kritsky &amp; Justine, 2009 in Kritsky, Yang &amp; Sun</b>			
<i>Lutjanus argentimaculatus</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides novaecaledoniae</i> Kritsky &amp; Justine, 2009 in Kritsky, Yang &amp; Sun</b>			
<i>Lutjanus argentimaculatus</i>			KRITSKY et al., 2009
<b><i>Haliotrematoides lanx</i> Kritsky &amp; Justine, 2009 in Kritsky, Yang &amp; Sun</b>			
<i>Lutjanus quinquelineatus</i>			KRITSKY et al., 2009
<b><i>Pennulituba cymansis</i> Řehulková, Justine &amp; Gelnar, 2009</b>			
<i>Mulloidichthys vanicolensis</i>			ŘEHULKOVÁ et al., 2009
<b><i>Pennulituba piratifaix</i> Řehulková, Justine &amp; Gelnar, 2009</b>			
<i>Mulloidichthys vanicolensis</i>			ŘEHULKOVÁ et al., 2009

- Tetrancistrum sigani** Goto & Kikuchi, 1917  
as **Tetrancistrum nebulosi** YOUNG, 1967  
(synonymy: Kritsky et al., 2007)  
*Siganus canaliculatus* YOUNG, 1967a  
*Siganus fuscescens* YOUNG, 1967a  
*Siganus* sp. YOUNG, 1967a
- Volsellituba elephantina** Řehulková, Justine & Gelnar, 2009  
*Mulloidichthys vanicolensis* ŘEHULKOVÁ et al., 2009
- Volsellituba nabla** Řehulková, Justine & Gelnar, 2009  
*Mulloidichthys vanicolensis* ŘEHULKOVÁ et al., 2009
- Volsellituba orchidea** Řehulková, Justine & Gelnar, 2009  
*Mulloidichthys vanicolensis* ŘEHULKOVÁ et al., 2009
- Unidentified species**  
*Lutjanus fulvus* KRITSKY et al., 2009  
*Lutjanus kasmira* KRITSKY et al., 2009  
*Lutjanus quinque-lineatus* KRITSKY et al., 2009  
*Lutjanus vitta* KRITSKY et al., 2009
- CAPSALIDAE**  
**Allobenedenia** sp.  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008
- Benedenia** cf. **epinepheli** (Yamaguti, 1937)  
*Epinephelus fasciatus* JUSTINE, 2005b
- Benedenia** sp.  
*Epinephelus merra* HINSINGER & JUSTINE, 2006a  
*Nemipterus furcosus* JUSTINE & BRENA, 2009
- Encotyllabe** sp.  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007  
*Lethrinus rubrioperculatus* JUSTINE, 2007e  
*Lethrinus xanthochilus* JUSTINE, 2007e
- Dioncopsudobenedenia kala** Yamaguti, 1965  
*Naso unicornis* PERKINS et al., 2009
- Pseudonitzschia uku** Yamaguti, 1965  
*Aprion virescens* PERKINS et al., 2009
- Trochopodinae Gen. sp. 1**  
*Pseudobalistes fuscus* PERKINS et al., 2009
- Trochopodinae Gen. sp.**  
*Plectropomus leopardus* JUSTINE & EUZET, 2006  
**as Trochopodinae Gen. sp. 2**  
*Plectropomus leopardus* PERKINS et al., 2009
- Trochopodinae Gen. sp. 4**  
*Epinephelus fuscoguttatus* PERKINS et al., 2009
- Capsalidae, unidentified immature**  
*Sphyræna* sp. (recruiting larva) CRIBB et al., 2000
- Capsalidae sp. 1**  
*Plectorhinchus chaetodonoides* PERKINS et al., 2009
- DIPLECTANIDAE**  
**Calydiscoides australis** Young, 1969  
*Lethrinus miniatus* JUSTINE, 2007e
- Calydiscoides difficilis** (Yamaguti, 1953) Young, 1969  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus lentjan* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007  
*Lethrinus obsoletus* RASCALOU & JUSTINE, 2007  
*Lethrinus ravus* RASCALOU & JUSTINE, 2007
- Calydiscoides duplicostatus** (Yamaguti, 1953) Young, 1969  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus lentjan* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007
- Calydiscoides gussevi** Oliver, 1984  
*Lethrinus miniatus* JUSTINE, 2007e
- Calydiscoides euzeti** Justine, 2007  
*Lethrinus rubrioperculatus* JUSTINE, 2007e  
*Lethrinus xanthochilus* JUSTINE, 2007e
- Calydiscoides limae** Justine & Brena, 2009  
*Pentapodus aureofasciatus* JUSTINE & BRENA, 2009
- Calydiscoides rohdei** Oliver, 1984  
*Lethrinus atkinsoni* JUSTINE 2007e
- Calydiscoides tersichore** Rascalou & Justine, 2007  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007
- Diplectanum uitoe** Justine, 2007  
*Epinephelus maculatus* JUSTINE, 2007c
- Diplectanum maa** Justine & Sigura, 2007  
*Epinephelus malabaricus* JUSTINE & SIGURA, 2007
- Diplectanum nanus** Justine, 2007  
*Cephalopholis sonnerati* JUSTINE, 2007d
- Diplectanum parvus** Justine, 2008  
*Cephalopholis urodeta* JUSTINE, 2008a
- Echinoplectanum chauvetorum** Justine & Euzet, 2006  
*Plectropomus laevis* JUSTINE & EUZET, 2006
- Echinoplectanum laeve** Justine & Euzet, 2006  
*Plectropomus laevis* JUSTINE & EUZET, 2006
- Echinoplectanum leopardi** Justine & Euzet, 2006  
*Plectropomus leopardus* JUSTINE & EUZET, 2006
- Echinoplectanum pudicum** Justine & Euzet, 2006  
*Plectropomus leopardus* JUSTINE & EUZET, 2006
- Echinoplectanum rarum** Justine & Euzet, 2006  
*Plectropomus leopardus* JUSTINE & EUZET, 2006
- Lamellodiscus** sp.  
*Gnathodentex aureolineatus* JUSTINE, 2007e;  
JUSTINE & BRIAND, 2009

**Lamellodiscus magnicornis Justine & Briand, 2009**

- Gymnocranius euanus* JUSTINE & BRIAND, 2009  
*Gymnocranius grandoculis* JUSTINE & BRIAND, 2009  
*Gymnocranius* sp. A JUSTINE & BRIAND, 2009  
*Gymnocranius* sp. B JUSTINE & BRIAND, 2009  
**as *Lamellodiscus* sp.**  
*Gymnocranius euanus* JUSTINE, 2007e  
*Gymnocranius grandoculis* JUSTINE, 2007e

**Lamellodiscus parvicornis Justine & Briand, 2009**

- Gymnocranius euanus* JUSTINE & BRIAND, 2009  
*Gymnocranius grandoculis* JUSTINE & BRIAND, 2009  
*Gymnocranius* sp. B JUSTINE & BRIAND, 2009  
**as *Lamellodiscus* sp.**  
*Gymnocranius euanus* JUSTINE, 2007e  
*Gymnocranius grandoculis* JUSTINE, 2007e

**Lamellodiscus tubulicornis Justine & Briand, 2009**

- Gymnocranius grandoculis* JUSTINE & BRIAND, 2009  
*Gymnocranius* sp. B JUSTINE & BRIAND, 2009  
**as *Lamellodiscus* sp.**  
*Gymnocranius grandoculis* JUSTINE, 2007e

**Laticola cyanus Sigura & Justine, 2008**

- Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Laticola dae Journo & Justine, 2006**

- Epinephelus maculatus* JOURNO & JUSTINE, 2006

**Pseudorhabdosynochus auitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus argus Justine, 2007**

- Cephalopholis argus* JUSTINE, 2007d

**Pseudorhabdosynochus bacchus Sigura, Chauvet & Justine, 2007**

- Epinephelus coeruleopunctatus* SIGURA et al., 2007

**Pseudorhabdosynochus buitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus calathus Hinsinger & Justine, 2006**

- Epinephelus rivulatus* HINSINGER & JUSTINE, 2006a

**Pseudorhabdosynochus caledonicus Justine, 2005**

- Epinephelus fasciatus* HINSINGER & JUSTINE, 2006a;  
JUSTINE, 2005b

**Pseudorhabdosynochus chauveti Sigura & Justine, 2008**

- Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Pseudorhabdosynochus cuitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus cyanopodus Sigura & Justine, 2008**

- Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Pseudorhabdosynochus cyathus Hinsinger & Justine, 2006**

- Epinephelus howlandi* HINSINGER & JUSTINE, 2006a

**Pseudorhabdosynochus duitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Pseudorhabdosynochus epinepheli (Yamaguti, 1938) Kritsky & Beverley-Burton, 1986**

- Epinephelus chlorostigma* JUSTINE, 2009b

**Pseudorhabdosynochus euitoe Justine, 2006**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus exoticus Sigura & Justine, 2008**

- Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Pseudorhabdosynochus fuitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus guitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c

**Pseudorhabdosynochus hirundineus Justine, 2005**

- Variola louti* JUSTINE, 2005c

**Pseudorhabdosynochus inversus Justine, 2008**

- Epinephelus rivulatus* JUSTINE, 2008b

**Pseudorhabdosynochus huitoe Justine, 2007**

- Epinephelus maculatus* JUSTINE, 2007c  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

**Pseudorhabdosynochus manifestus Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus malabaricus Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus maternus Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus manipulus Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus marcellus Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus maaensis Justine & Sigura, 2007**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Pseudorhabdosynochus melanesiensis (Laird, 1958) Kritsky & Beverley-Burton, 1986**

- Epinephelus merra* HINSINGER & JUSTINE, 2006a;  
JUSTINE, 2005b

**Pseudorhabdosynochus minutus Justine, 2007**

- Cephalopholis sonnerati* JUSTINE, 2007d

**Pseudorhabdosynochus morrhua Justine, 2008**

- Epinephelus morrhua* JUSTINE, 2008c

**Pseudorhabdosynochus podocyanus Sigura & Justine, 2008**

- Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

- Pseudorhabdosynochus cf. shenzhenensis* Yang, Zeng & Gibson, 2005**  
*Epinephelus malabaricus* JUSTINE & SIGURA, 2007
- Pseudorhabdosynochus variabilis* Justine, 2008**  
*Epinephelus morrhua* JUSTINE, 2008c
- Pseudorhabdosynochus venus* Hinsinger & Justine, 2006**  
*Epinephelus howlandi* HINSINGER & JUSTINE, 2006b
- Pseudorhabdosynochus youngi* Justine, Dupoux & Cribb, 2009**  
*Epinephelus fasciatus* JUSTINE et al., 2009a  
**as *Ps. cupatus* (Young, 1969) Kritsky & Beverley-Burton, 1986**  
*Epinephelus fasciatus* HINSINGER & JUSTINE, 2006a; JUSTINE, 2005b
- Pseudorhabdosynochus cf. coioidesis* Bu, Leong, Wong, Woo & Foo, 1999**  
*Epinephelus merra* HINSINGER & JUSTINE, 2006a
- Pseudorhabdosynochus* spp.**  
*Epinephelus coeruleopunctatus* SIGURA et al., 2007
- MONOCOTYLIDAE**  
***Decacotyle octona* (Young, 1967) Chisholm & Whittington, 1998**  
*Aetobatus cf. narinari* MARIE & JUSTINE, 2005
- Decacotyle elpora* Marie & Justine, 2005**  
*Aetobatus cf. narinari* MARIE & JUSTINE, 2005
- Clemacotyle australis* Young, 1967**  
*Aetobatus cf. narinari* MARIE & JUSTINE, 2005
- Thaumatocotyle pseudodasybatis* Hargis, 1955**  
*Aetobatus cf. narinari* MARIE & JUSTINE, 2005, 2006
- Triloculotrema chisholmae* Justine, 2009**  
*Squalus melanurus* JUSTINE, 2009a
- MONOGENEA POLYOPISTHOCOTYLEA**  
 (alphabetical order of families and species;  
 5 families recorded; 8 species recorded + unidentified species)
- AXINIDAE**  
***Alloposeudaxine* sp.**  
*Katsuwonus pelamis* ROHDE et al., 1980
- Alloposeudaxinoides vagans* (Ishii, 1936) Yamaguti, 1968**  
*Katsuwonus pelamis* ROHDE et al., 1980
- GASTROCOTYLIDAE**  
***Neothoracocotyle acanthocybii* (Meserve, 1938) Hargis, 1956**  
*Acanthocybium solandri* ROHDE et al., 1980
- HETEROMICROCOTYLIDAE**  
***Heteromicrocotyla australiensis* Rohde, 1977**  
*Carangoides fulvoguttatus* BARTON et al., 2009
- Heteromicrocotyloides megaspinosus* Barton, Beaufrère, Justine & Whittington, 2009**  
*Carangoides fulvoguttatus* BARTON et al., 2009
- HEXABOTHRIDAE**  
**Hexabothriidae, unidentified**  
*Squalus melanurus* JUSTINE, 2009a
- MICROCOTYLIDAE**  
***Polylabris sillaginae* (Woolcock, 1936) Dillon, Hargis & Hargises, 1983**  
*Sillago sihama* HAYWARD, 1996
- Microcotylidae, unidentified species**  
*Gymnocranius euanus* JUSTINE, 2007e  
*Gymnocranius grandoculis* JUSTINE, 2007e  
*Lethrinus nebulosus* JUSTINE, 2007e  
*Nemipterus furcosus* JUSTINE & BRENA, 2009  
*Pentapodus aureofasciatus* JUSTINE & BRENA, 2009
- DIGENEA**  
 (alphabetical order of families and species;  
 20 families recorded; 105 species recorded + unidentified species)
- UNIDENTIFIED FAMILY, DIGENEA**  
*Diagramma pictum* BAILLON, 1991  
*Epinephelus morrhua* JUSTINE, 2008c
- ACANTHOCOLPIDAE**  
***Stephanostomum japonocasum* Durio & Manter, 1969**  
*Epinephelus* sp. "Red Cod" DURIO & MANTER, 1969  
 Serranidae "unidentified serranid" DURIO & MANTER, 1969
- Stephanostomum casum* (Linton, 1910) McFarlane, 1934**  
*Lutjanus argentimaculatus* DURIO & MANTER, 1969
- Stephanostomum* sp.**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2007b
- Acanthocolpidae, unidentified**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2007b
- APOCREADIIDAE**  
***Sphincteristomum acollum* Oshmarin, Mamaev & Parukhin, 1961**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2007b
- Homalometron moravecii* Bray, Justine & Cribb, 2007**  
*Mulloidichthys vanicolensis* BRAY et al., 2007
- BIVESICULIDAE**  
***Bivesiculoides posterotestis* Durio & Manter, 1968**  
 Myctophidae "pretre" (? *Atherinomorus lacunosus* ?)  
 DURIO & MANTER, 1968a
- BUCEPHALIDAE**  
***Myorhynchus pritchardae* Durio & Manter, 1968**  
 Serranidae ("leche"/loche) DURIO & MANTER, 1968a
- Neidhartia coronata* Durio & Manter, 1968**  
*Epinephelus* sp. DURIO & MANTER, 1968a
- Prosorhynchus freitasi* Nagaty, 1937**  
*Epinephelus* sp. DURIO & MANTER, 1968a

- Prosorhynchus longisaccatus* Durio & Manter, 1968**  
*Epinephelus cyanopodus* BRAY & JUSTINE, 2006b  
 Serranidae (“leche”/ loche) DURIO & MANTER, 1968a
- Prosorhynchus maternus* Bray & Justine, 2006**  
*Epinephelus malabaricus* BRAY & JUSTINE, 2006b
- Prosorhynchus serrani* Durio & Manter, 1968**  
*Variola louti* DURIO & MANTER, 1968a
- Prosorhynchoides lamprelli* Bott & Cribb, 2005**  
*Caranx papuensis* BRAY & JUSTINE, 2006b
- Rhipidocotyle* sp.**  
*Labroides dimidiatus* JONES et al., 2003, 2004
- CRYPTOGONIMIDAE**  
***Adlardia novaecaledoniae* Miller, Bray, Goiran, Justine & Cribb, 2009**  
*Nemipterus furcosus* MILLER et al., 2009  
 as *Siphoderina elongata* (Gu & Shen, 1979)  
*Nemipterus furcosus* QUILICHINI et al., 2009a
- Lobosorchis tibaldiae* Miller & Cribb, 2005**  
*Lutjanus fulviflamma* MILLER & CRIBB, 2005
- Paracryptogonimus saccatus* Manter, 1963**  
*Siganus* sp. DURIO & MANTER, 1969
- Retrovarium* (species not indicated)**  
*Lutjanus fulviflamma* MILLER & CRIBB, 2007
- Siphoderina catalae* (Durio & Manter, 1969) Miller & Cribb, 2008**  
*Lutjanus bohar* ? (“anglais”) DURIO & MANTER, 1969
- Siphoderina longitestis* (Durio & Manter, 1969) Miller & Cribb, 2008**  
*Lutjanus bohar* ? (“anglais”) DURIO & MANTER, 1969
- Siphoderina paracatalae* Durio & Manter, 1969**  
*Lutjanus bohar* ? (“anglais”) DURIO & MANTER, 1969
- Siphoderina provitellosus* (Durio & Manter, 1969) Miller & Cribb, 2008**  
*Lutjanus fulvus* DURIO & MANTER, 1969
- Siphoderina testitactus* (Durio & Manter, 1969) Miller & Cribb, 2008**  
*Lutjanus bohar* ? (“anglais”) DURIO & MANTER, 1969
- DIDYMOZOIDAE**  
**Didymozoidae unidentified spp. (adults)**  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008  
*Epinephelus maculatus* JUSTINE, 2007c  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus rubrioperculatus* JUSTINE, 2007e
- Didymozoidae unidentified spp. (juveniles)**  
*Parupeneus multifasciatus* BRAY & JUSTINE, 2008b
- Didymozoidae Larva sp. A**  
*Apogon coccineus* (recruiting larvae) CRIBB et al., 2000  
 Bleniidae sp (recruiting larvae) CRIBB et al., 2000
- Pseudogramma* sp. (recruiting larvae) CRIBB et al., 2000  
 Scorpaenidae Gen. sp. (recruiting larvae) CRIBB et al., 2000  
 Synodontidae Gen. sp. (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. B**  
*Apogon coccineus* (recruiting larvae) CRIBB et al., 2000  
*Bothus pantherinus* (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. C**  
 Synodontidae Gen. sp. 1 (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. D**  
 Labridae Gen. sp. (recruiting larvae) CRIBB et al., 2000  
*Thalassoma* sp. (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. E**  
*Apogon coccineus* (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. F**  
*Apogon coccineus* (recruiting larvae) CRIBB et al., 2000
- Didymozoidae Larva sp. G**  
 Labridae Gen. sp. (recruiting larvae) CRIBB et al., 2000  
*Thalassoma* sp. (recruiting larvae) CRIBB et al., 2000
- FELLODISTOMATIDAE**  
***Tergestia clonacantha* Manter, 1963**  
*Hemiramphus* sp. DURIO & MANTER, 1968a
- GORGODERIDAE**  
***Phyllodistomum* sp.**  
*Parupeneus multifasciatus* BRAY & JUSTINE, 2008b
- GYLIAUCHENIDAE**  
***Affecauda salacia* Hall & Cribb, 2004**  
*Zebrasoma veliferum* HALL & CRIBB, 2004b
- Gy liauchen papillatus* (Goto & Matsudaira, 1918) Goto, 1919**  
*Siganus* sp. DURIO & MANTER, 1969
- Ptychogy liauchen thistilbardi* Hall & Cribb, 2004**  
*Siganus argenteus* HALL & CRIBB, 2004a  
*Siganus canaliculatus* HALL & CRIBB, 2004a  
*Siganus corallinus* HALL & CRIBB, 2004a  
*Siganus doliatus* HALL & CRIBB, 2004a  
*Siganus spinus* HALL & CRIBB, 2004a
- HAPLOPORIDAE**  
***Atractotrema sigani* Durio & Manter, 1969**  
*Siganus* sp. DURIO & MANTER, 1969
- Hapladena tanyorchis* Manter & Pritchard, 1961**  
*Naso* sp. “unicorn fish” DURIO & MANTER, 1969
- Isorchis parvus* Durio & Manter, 1969**  
*Chanos chanos* DURIO & MANTER, 1969
- HAPLOSPLANCHNIDAE**  
***Hymenocotta mulli* Manter, 1961**  
 “Mullet” Mugilidae DURIO & MANTER, 1968a



## HEMIURIDAE

- Dichadena obesa* (Manter, 1961) Manter, 1969**  
*Strongylura leiura* ? MANTER, 1969
- Erilepturus hamati* (Yamaguti, 1934)**  
 [as *H. tiegsi* Woolcock, 1935 in Manter]  
*Epinephelus cyanopodus* MANTER, 1969;  
 SIGURA & JUSTINE, 2008  
*Epinephelus* sp. MANTER, 1969  
 Serranidae “mottled grouper” MANTER, 1969
- Hemiuridae (immature unidentifiable)**  
 Bleniidae sp. (recruiting larvae) CRIBB et al., 2000
- Ectenurus* sp.**  
*Pseudogramma* sp. (recruiting larvae) CRIBB et al., 2000  
 Synodontidae Gen. sp. 2 (recruiting larvae) CRIBB et al., 2000
- Erilepturus* sp. immature**  
 Synodontidae Gen. sp. 1 (recruiting larvae) CRIBB et al., 2000
- Hysteroleciha sigani* Manter, 1969**  
*Siganus* sp. MANTER, 1969
- Hysterolecihoides frontilatus* (Manter, 1969) Yamaguti, 1971**  
*Siganus doliatus* BRAY & CRIBB, 2000b
- Lecithaster testilobatus* Manter, 1969**  
*Scarus* (= *Callyodon*) sp. MANTER, 1969
- Lecithochirium cirrhiti* (Manter & Pritchard, 1960) Yamaguti, 1970**  
*Neoniphon sammara* MORAVEC & JUSTINE, 2009b  
*Sargocentron ensifer* MORAVEC & JUSTINE, 2009b  
*Sargocentron spiniferum* MORAVEC & JUSTINE, 2009b
- Lecithochirium magnaporum* Manter, 1940**  
*Lethrinus miniatus* MANTER, 1969  
*Epinephelus* sp. MANTER, 1969
- Lecithochirium polynemi* Chauhan, 1945**  
*Lutjanus fulvus* MANTER, 1969
- Lecithochirium* sp.**  
*Parupeneus multifasciatus* BRAY & JUSTINE, 2008b
- Lecithocladium aegyptensis* Fischtal & Kuntz, 1963**  
 Scombridae “mackerel” MANTER, 1969
- Parahemiurus merus* (Linton, 1910) Woolcock, 1935**  
*Priacanthus hamrur* BRAY & CRIBB, 2005
- Quadrifoliovarium pritchardae* Yamaguti, 1965**  
*Naso* sp. “unicorn fish” MANTER, 1969
- Theletrum frontilatum* Manter, 1969**  
*Siganus* sp. MANTER, 1969
- LECITHASTERIDAE**  
*Aponurus chelebesoi* BRAY & CRIBB, 2000a  
*Chaetodon auriga* BRAY & CRIBB, 2000a  
*Chaetodon citrinellus* BRAY & CRIBB, 2000a
- Chaetodon ephippium* BRAY & CRIBB, 2000a  
*Chaetodon flavirostris* BRAY & CRIBB, 2000a  
*Chaetodon lineolatus* BRAY & CRIBB, 2000a  
*Chaetodon melannotus* BRAY & CRIBB, 2000a  
*Chaetodon mertensii* BRAY & CRIBB, 2000a  
*Chaetodon pelewensis* BRAY & CRIBB, 2000a  
*Coradion altivelis* BRAY & CRIBB, 2000a  
*Forcipiger flavissimus* BRAY & CRIBB, 2000a  
*Heniochus acuminatus* BRAY & CRIBB, 2000a  
*Heniochus acuminatus* BRAY & CRIBB, 2000a  
*Heniochus chrysostomus* BRAY & CRIBB, 2000a  
*Heniochus monoceros* BRAY & CRIBB, 2000a  
*Siganus doliatus* BRAY & CRIBB, 2000a
- Aponurus laguncula* Loos, 1907**  
*Aluterus monoceros* QUILICHINI et al., 2009b
- LEPOCREADIIDAE**  
***Holorchis castex* Bray & Justine, 2007**  
*Diagramma pictum* BRAY & JUSTINE, 2007a
- Holorchis plectorhynchi* Durio & Manter, 1968**  
*Lethrinus miniatus* DURIO & MANTER, 1968b  
*Plectorhynchus goldmani* DURIO & MANTER, 1968b
- Hypocreadium toombo* Bray & Justine, 2006**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2006a
- Hypocreadium patellare* Yamaguti, 1938**  
*Sufflamen fraenatum* BRAY et al., 2009a
- Intusatrium robustum* Durio & Manter, 1968**  
*Bodianus loxozonus* BRAY & JUSTINE, 2006a  
*Bodianus perditio* BRAY & JUSTINE, 2006a  
 DURIO & MANTER, 1968a
- Postlepidapedon secundum* (Durio & Manter, 1968)**  
 Scaridae? “Brown-blotched parrot fish” [erroneous]  
 DURIO & MANTER, 1968b  
*Choerodon graphicus* BRAY & JUSTINE, 2006a
- Lepidapedoides dollfusi* (Durio & Manter, 1968) Bray, Cribb & Barker, 1996**  
 as *Neolepidapedon dollfusi* Durio & Manter, 1968  
*Epinephelus* sp. “Red Cod” DURIO & MANTER, 1968b  
*Epinephelus* sp. “Spotted Grouper” DURIO & MANTER, 1968b
- Lepidapedoides angustus* Bray, Cribb & Barker, 1996**  
*Epinephelus fasciatus* BRAY & JUSTINE, 2006a  
 as *L. “kerapu”*; see Justine, 2007a  
*Epinephelus merra* RIGBY et al., 1997
- Lobatocreadium exiguum* (Manter, 1963) Madhavi, 1972**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2006a
- Stegodexamene anguillae* Macfarlane, 1951**  
*Anguilla obscura* MORAVEC & JUSTINE, 2007c  
*Anguilla reinhardtii* MORAVEC & JUSTINE, 2007c
- Lepocreadiidae, unidentified**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2007b

## MICROSCAPHIDIIDAE

**Hexangium sigani Goto & Ozaki, 1929**

- Lutjanus fulvus* DURIO & MANTER, 1968a  
*Siganus* sp. DURIO & MANTER, 1968a

## MONORCHIIDAE

**Cableia balistidicola Bray, Justine & Cribb, 2009**

- Abalistes stellatus* BRAY et al., 2009b  
*Pseudobalistes fuscus* BRAY et al., 2009b  
**as *Cableia* sp.**  
*Pseudobalistes fuscus* BRAY & JUSTINE, 2007b

**Hysterorchis vitellosus Durio & Manter, 1968**

- Plectorhinchus* sp. DURIO & MANTER, 1968a

**Lasiotocus longitesticus Durio & Manter, 1968**

- Plectorhinchus* sp. (“loche castex”) DURIO & MANTER, 1968a

**Lasiotocus plectorhynchi (Yamaguti, 1934)**

- Diagramma pictum* BRAY & JUSTINE, 2007a

## OPECOELIDAE

**Allopodocotyle epinepheli (Yamaguti, 1942)**

- Epinephelus cyanopodus* BRAY & JUSTINE, 2007b  
*Epinephelus fasciatus* BRAY & JUSTINE, 2007b  
*Epinephelus merra* BRAY & JUSTINE, 2007b

**Allopodocotyle serrani (Yamaguti, 1952) Pritchard, 1966**

- Serranidae (“leche”/ loche) DURIO & MANTER, 1968b

**Cainocreadium epinepheli (Yamaguti, 1934)**

- Epinephelus coeruleopunctatus* BRAY & JUSTINE, 2007b  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008  
*Epinephelus fasciatus* BRAY & JUSTINE, 2007b  
*Variola louti* BRAY & JUSTINE, 2007b

**Cainocreadium sp.**

- Epinephelus malabaricus* JUSTINE & SIGURA, 2007

**Hamacreadium diacopae Nagaty & Abdel Aal, 1962**

- Lethrinus nebulosus* ? (“bec de cane”) DURIO & MANTER, 1968b

**Hamacreadium mutabile (Linton, 1910)**

- Lethrinus miniatus* DURIO & MANTER, 1968b  
*Lutjanus amabilis* DURIO & MANTER, 1968b  
*Lutjanus bohar* ? (“anglais”) DURIO & MANTER, 1968b  
*Lutjanus fulviflamma* BRAY & JUSTINE, 2007b  
*Lutjanus kasmira* BRAY & JUSTINE, 2007b

**Choanostoma secundum Durio & Manter, 1968**

- Lutjanus vitta* DURIO & MANTER, 1968b  
*Plectorhinchus* sp. DURIO & MANTER, 1968b

**Helicometra epinepheli Yamaguti, 1934**

- Epinephelus fasciatus* BRAY & JUSTINE, 2007b  
*Epinephelus merra* BRAY & JUSTINE, 2007b

**Helicometra fasciata (Rudolphi, 1819) Odhner, 1902**

- Epinephelus merra* RIGBY et al., 1997  
*Epinephelus* sp. “Red Cod” DURIO & MANTER, 1968b

**Macvicaria jagannathi (Gupta & Singh, 1985) Bijukumar, 1997**

- Nemipterus furcosus* BRAY & JUSTINE, 2009b

**Neolebouria blatta Bray & Justine, 2009**

- Etelis carbunculus* BRAY & JUSTINE, 2009a  
*Pristipomoides argyrogrammicus* BRAY & JUSTINE, 2009a

**Neolebouria lineatus Aken’Ova & Cribb, 2001**

- Nemipterus furcosus* BRAY & JUSTINE, 2009b

**Orthodena tropica Durio & Manter, 1968**

- Lethrinus lentjan* BRAY & JUSTINE, 2007b  
*Lethrinus nebulosus* ? (“bec de cane”) DURIO & MANTER, 1968b

**Pacificreadium serrani Durio & Manter, 1968**

- Epinephelus* sp. DURIO & MANTER, 1968b  
*Plectropomus leopardus* BRAY & JUSTINE, 2007b

**Pseudoplagiaporus interruptus Durio & Manter, 1968**

- Lethrinus nebulosus* ? (“bec de cane”) DURIO & MANTER, 1968b  
*Lethrinus rubrioperculatus* BRAY & JUSTINE, 2007b;  
 JUSTINE, 2007e

**Pseudoplagiaporus lethrini Yamaguti, 1938**

- Lethrinus nebulosus* ? (“bec de cane”) DURIO & MANTER, 1968b

**Pseudopycnadena tendu Bray & Justine, 2007**

- Pseudobalistes fuscus* BRAY & JUSTINE, 2007b

**Unidentified Opecoelidae**

- Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007

## SANGUINICOLIDAE

**Cardicola chaetodontis Yamaguti, 1970**

- Chaetodon lineolatus* NOLAN & CRIBB, 2006

## SYNCOELIIDAE

**Syncoelium filiferum (Sars, 1885) Odhner, 1911**

- Katsuwonus pelamis* ROHDE et al., 1980

## ZOOONIDAE

**Deretrema combesae Bray & Justine, 2008**

- Parupeneus multifasciatus* BRAY & JUSTINE, 2008b

**Deretrema combesorum Bray & Justine, 2008**

- Parupeneus multifasciatus* BRAY & JUSTINE, 2008b

**Diphtherostomum tropicum Durio & Manter, 1968**

- Lethrinus nebulosus* ? DURIO & MANTER, 1968a

**Dupliciporia lanterna Bray & Justine, 2008**

- Priacanthus hamrur* BRAY & JUSTINE, 2008a

**Lecithostaphylus nitens (Linton, 1898)**

- Tylosurus crocodilus* BRAY & JUSTINE, 2008a

- Parvipyrum acanthuri** Pritchard, 1963  
*Acanthurus blochii* BRAY & JUSTINE, 2008a
- Zoogonus pagrosomi** Yamaguti, 1939  
*Lethrinus atkinsoni* BRAY & JUSTINE, 2008a  
*Lethrinus genivittatus* BRAY & JUSTINE, 2008a
- CESTODA BOTHRIOCEPHALIDEA**  
1 family recorded; 2 species recorded
- BOTHRIOCEPHALIDAE**  
***Bothriocephalus celineae* Kuchta, Scholz & Justine, 2009 [adult]**  
*Cephalopholis aurantia* × *C. spiloparaea* KUCHTA et al., 2009a  
as 'adult pseudophyllidean cestode'  
*Cephalopholis aurantia* × *C. spiloparaea* RANDALL & JUSTINE, 2008a
- Oncodiscus sauridae* Yamaguti, 1934 [adult]**  
*Saurida nebulosa* KUCHTA et al., 2009b  
*Saurida undosquamis* KUCHTA et al., 2009b
- CESTODA TETRAPHYLLIDEA**  
At least 1 family recorded; 6 species recorded + unidentified species
- ONCHOBOTHRIIDAE**  
***Acanthobothrium aetiobatis* (Shiple, 1900)**  
*Aetobatus narinari* BAER & EUZET, 1962
- UNIDENTIFIED FAMILY**  
***Scolex polymorphus* (= tetraphyllidean metacestodes)**  
*Epinephelus merra* RIGBY et al., 1997
- Tetraphyllidea larvae**  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008  
*Epinephelus morrhua* JUSTINE, 2008c
- Metacestode**  
Synodontidae Gen. sp. 3 (recruiting larvae) CRIBB et al., 2000
- Tetraphyllidea Metacestode**  
*Thalassoma* sp. (recruiting larvae) CRIBB et al., 2000
- Unidentified Tetraphyllidea, adults**  
*Centrophorus* sp. BEVERIDGE & JUSTINE, 2006  
*Squalus megalops* BEVERIDGE & JUSTINE, 2006  
*Squalus melanurus* BEVERIDGE & JUSTINE, 2006
- CESTODA TRYPANORHYNCHA**  
5 families recorded; 20 species recorded + unidentified species
- FAMILY UNIDENTIFIED**  
**Trypanorhyncha, unidentified [larva]**  
*Epinephelus merra* RIGBY et al., 1997  
*Epinephelus morrhua* JUSTINE, 2008c
- GILQUINIIDAE**  
***Gilquinia robertsoni* Beveridge, 1990 [adult]**  
*Squalus megalops* BEVERIDGE & JUSTINE, 2006
- Gilquinia minor* Beveridge & Justine, 2006 [adult]**  
*Centrophorus* sp. BEVERIDGE & JUSTINE, 2006
- Gilquinia* sp. [adult]**  
*Squalus melanurus* BEVERIDGE & JUSTINE, 2006
- Sagittirhynchus aculeatus* Beveridge & Justine, 2006 [adult]**  
*Centrophorus* sp. BEVERIDGE & JUSTINE, 2006
- Vittirhynchus squali* Beveridge & Justine, 2006 [adult]**  
*Squalus melanurus* BEVERIDGE & JUSTINE, 2006
- GYMNORHYNCHIDAE**  
***Chimaerarhynchus rougetae* Beveridge & Campbell, 1989 [adult]**  
*Squalus* cf. *megalops* OLSON et al., 2009; PALM et al., 2009
- LACISTORHYNCHIDAE**  
***Floriceps minacanthus* Campbell & Beveridge, 1987 [larva]**  
*Cephalopholis urodeta* JUSTINE, 2008a  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008
- Hornelliella annandalei* Hornell, 1912 [adult]**  
*Stegostoma fasciatum* BEVERIDGE & JUSTINE, 2007b
- Paragrillotia apecteta* Beveridge & Justine, 2007 [adult]**  
*Hexanchus nakamurai* BEVERIDGE & JUSTINE, 2007a
- Paragrillotia spratti* (Campbell & Beveridge, 1993) Beveridge & Justine, 2007 [adult]**  
*Negaprion acutidens* BEVERIDGE & JUSTINE, 2007a
- Pseudogilquinia pillersi* (Southwell, 1929) Palm, 2004 [larva]**  
*Epinephelus coioides* BEVERIDGE et al., 2007
- Pseudolacistorhynchus heroniensis* (Sakanari, 1989) Palm, 1995**  
*Epinephelus cyanopodus* [larva] SIGURA & JUSTINE, 2008  
*Stegostoma fasciatum* [adult] BEVERIDGE & JUSTINE, 2007b
- Pseudolacistorhynchus nanus* Beveridge & Justine, 2007 [adult]**  
*Stegostoma fasciatum* BEVERIDGE & JUSTINE, 2007b
- OTOBOTHRIIDAE**  
***Otobothrium curtum* (Linton, 1909) Dollfus, 1942 [adult]**  
*Galeocerdo cuvier* BEVERIDGE & JUSTINE, 2007c
- Otobothrium parvum* Beveridge & Justine, 2007 [adult]**  
*Carcharhinus amblyrhynchos* BEVERIDGE & JUSTINE, 2007c  
*Triaenodon obesus* BEVERIDGE & JUSTINE, 2007c
- Otobothrium* sp. [larva]**  
*Lethrinus rubrioperculatus* JUSTINE, 2007e
- PSEUDOTOBOTHRIIDAE**  
***Pseudotobothrium dipsacum* (Linton, 1897) [larva]**  
*Epinephelus malabaricus* JUSTINE & SIGURA, 2007

## TENTACULARIIDAE

**Mixonybelinia southwelli** (Palm & Walter, 1999) Palm, 1999 [adult]  
*Stegostoma fasciatum* BEVERIDGE & JUSTINE, 2007b

**Nybelinia syngenes** (Pintner, 1928) Palm, 2004 [larva]  
*Dendrochirus zebra* PALM, 2004  
as **Nybelinia aequidentata** [larva]  
*Dendrochirus zebra* PALM & BEVERIDGE, 2002

**Nybelinia sp.** [larva]  
*Lethrinus rubrioperculatus* JUSTINE, 2007e

## NEMATODA

(alphabetical order of families and species; 10 families recorded;  
43 species recorded + unidentified species)

## Unidentified Nematoda

*Epinephelus morrhua* JUSTINE, 2008c

## ANISAKIDAE

**Raphidascaris (Ichtyiascaris) nemipteri** Moravec & Justine, 2005 [adult]  
*Nemipterus furcosus* MORAVEC & JUSTINE, 2005a

**Hysterothylacium cenaticum** (Bruce & Cannon, 1989)  
Moravec & Justine, 2005 [adult]  
*Tetrapturus audax* MORAVEC & JUSTINE, 2005a

**Terranova scoliodontis** (Baylis, 1931) Johnston & Mawson, 1945 [adult]  
*Galeocerdo cuvier* MORAVEC & JUSTINE, 2006b

**Terranova sp.** [larva]  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

## CAMALLANIDAE

**Unidentified Camallanidae**  
*Diagramma pictum* BAILLON, 1991

**Camallanus carangis** Olsen, 1954  
*Nemipterus furcosus* MORAVEC et al., 2006a  
*Parupeneus ciliatus* MORAVEC et al., 2006a  
*Upeneus vittatus* MORAVEC et al., 2006a

**Camallanus cotti** Fujita, 1927  
*Awaous guamensis* MORAVEC & JUSTINE, 2006a  
*Kuhlia marginata* [larva] MORAVEC & JUSTINE, 2006a

**Procamallanus (Spirocamallanus) longus** Moravec, Justine & Rigby, 2006  
*Zebrasoma scopas* MORAVEC ET AL., 2006a

**Procamallanus (Spirocamallanus) variolae** Moravec, Justine & Rigby, 2006  
*Epinephelus fasciatus* MORAVEC ET AL., 2006a  
*Variola albimarginata* MORAVEC ET AL., 2006a

**Procamallanus (Procamallanus) pacificus** Moravec, Justine, Würtz, Taraschewski & Sasal, 2006  
*Anguilla obscura* MORAVEC ET AL., 2006b  
*Anguilla reinhardtii* MORAVEC ET AL., 2006b

**Procamallanus (Spirocamallanus) sp. 1**  
*Parapercis hexophthalma* MORAVEC ET AL., 2006a

**Procamallanus (Spirocamallanus) sp. 2**  
*Lethrinus ravus* MORAVEC ET AL., 2006a

**Procamallanus (Spirocamallanus) sp. 3**  
*Scolopsis bilineata* MORAVEC et al., 2006a

**Procamallanus sp.**  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

## CAPILLARIIDAE

**Capillariidae Gen. sp. 7 of Moravec, 2001**  
*Siganus doliatus* MORAVEC, 2001

**Capillariidae Gen. sp. 8 of Moravec, 2001**  
*Naso unicornis* MORAVEC, 2001

## CUCULLANIDAE

**Cucullanus bourdini** Petter & Le Bel, 1992  
*Aprion virescens* PETTER & LE BEL, 1992  
*Pristipomoides filamentosus* PETTER & LE BEL, 1992  
*Pristipomoides flavipinnis* PETTER & LE BEL, 1992

## Cucullanidae, unidentified

*Bodianus perditio* LIM & JUSTINE, 2007

## CYSTIDICOLIDAE

**Ascarophis (Dentiascarophis) adioryx** Machida, 1981  
*Neoniphon sammara* MORAVEC & JUSTINE, 2009b  
*Sargocentron spiniferum* MORAVEC & JUSTINE, 2009b

**Ascarophis (Similarascarophis) richeri** Moravec & Justine, 2007

*Hoplichthys citrinus* MORAVEC & JUSTINE, 2007a

**Ctenascarophis lesteri** Crites, Overstreet & Maung, 1993  
*Katsuwonus pelamis* CRITES et al., 1993

**Metabronema magnum** (Taylor, 1925) Yorke & Maplestone, 1926

*Gnathanodon speciosus* MORAVEC & JUSTINE, 2007b

**Spinitectus (Paraspinitectus) sp.**  
*Albula glossodonta* MORAVEC & JUSTINE, 2009b

## GNATHOSTOMATIDAE

**Echinocephalus sinensis** Ko, 1975  
*Aetobatus narinari* MORAVEC & JUSTINE, 2006b

**Echinocephalus overstreeti** Deardoff & Ko, 1983  
*Urogymnus asperimus* [not *Taeniura meyeri*, erroneous]  
MORAVEC & JUSTINE, 2006b

## GUYANEMIDAE

**Ichthyofilaria novaecaledoniensis** Moravec & Justine, 2009  
*Hoplichthys citrinus* MORAVEC & JUSTINE, 2009a

## PHILOMETRIDAE

***Philometra cyanopodi* Moravec & Justine, 2008**

- Epinephelus cyanopodus* MORAVEC & JUSTINE, 2008  
 as *Ph. lateolabracis* (Yamaguti, 1935)  
*Epinephelus cyanopodus* MORAVEC & JUSTINE, 2005b

***Philometra dentigubernaculata* Moravec & Justine, 2009**

- Tylosurus crocodilus* MORAVEC & JUSTINE, 2009a

***Philometra fasciati* Moravec & Justine, 2008**

- Epinephelus fasciatus* MORAVEC & JUSTINE, 2008  
 as *Ph. lateolabracis* (Yamaguti, 1935)  
*Epinephelus fasciatus* MORAVEC & JUSTINE, 2005b

***Philometra lagocephali* Moravec & Justine, 2008**

- Lagocephalus sceleratus* MORAVEC & JUSTINE, 2008

***Philometra lethrini* Moravec & Justine, 2008**

- Lethrinus genivittatus* MORAVEC & JUSTINE, 2008, 2009a  
*Lethrinus miniatus* MORAVEC & JUSTINE, 2009a  
*Lethrinus variegatus* MORAVEC & JUSTINE, 2009a

***Philometra ocularis* Moravec, Ogawa, Suzuki, Miyazaki & Donai, 2002**

- Epinephelus areolatus* MORAVEC & JUSTINE, 2008, 2009a  
*Epinephelus coioides* MORAVEC & JUSTINE, 2005b  
*Epinephelus cyanopodus* MORAVEC & JUSTINE, 2005b  
*Epinephelus rivulatus* MORAVEC & JUSTINE, 2005b  
*Variola louti* MORAVEC & JUSTINE, 2005b

***Philometra priacanthi* Moravec & Justine, 2009**

- Priacanthus hamrur* MORAVEC & JUSTINE, 2009a

***Philometra tenuicauda* Moravec & Justine, 2009**

- Lagocephalus sceleratus* MORAVEC & JUSTINE, 2009a

***Philometra* sp. Moravec & Justine, 2008**

- Lutjanus vitta* MORAVEC & JUSTINE, 2008

## RHABDOCHONIDAE

## Unidentified Rhabdochonidae

- as *Huffmanella balista*, female [erroneous]  
*Abalistes stellatus* JUSTINE, 2007b

## TRICHOSOMOIDIDAE

***Huffmanella balista* Justine, 2007**

- Abalistes stellatus* JUSTINE, 2007b

***Huffmanella branchialis* Justine, 2004**

- Nemipterus furcosus* JUSTINE, 2004

***Huffmanella filamentosa* Justine, 2004**

- Gymnocranius grandoculis* JUSTINE, 2004

***Huffmanella lata* Justine, 2005**

- Carcharhinus amblyrhynchus* JUSTINE, 2005a

***Huffmanella longa* Justine, 2007**

- Gymnocranius grandoculis* JUSTINE, 2007b

***Huffmanella ossicola* Justine, 2004**

- Bodianus busellatus* JUSTINE, 2007b  
*Bodianus loxozonus* JUSTINE, 2004, 2007b  
*Bodianus perditio* JUSTINE, 2007b;  
 LIM & JUSTINE, 2007

***Huffmanella* sp.**

- Pentapodus aureofasciatus* JUSTINE, 2004, 2007b

## COPEPODA

(alphabetical order of families and species)

The compilation by Boxshall & Huys (2007) does not indicate hosts. This paper was based in part on collection by the present author, so additional host information was indicated here as "present paper".

13 families recorded; 61 species recorded + unidentified species

## UNIDENTIFIED FAMILY

**Copepoda, unidentified larvae**

- Abalistes filamentosus* RANDALL & JUSTINE, 2008b  
*Cephalopholis aurantia* x  
*C. spiloparaea* (hybrid) RANDALL & JUSTINE, 2008a  
*Cephalopholis sonnerati* JUSTINE, 2007d  
*Lethrinus xanthochilus* JUSTINE, 2007e

**Copepoda, unidentified adults**

- Cephalopholis urodeta* JUSTINE, 2008a

## BOMOLOCHIDAE

***Pumiliopes capitulatus* Cressey & Boyle, 1973**

- No host indicated; present paper: *Rastrelliger kanagurta*  
 BOXSHALL & HUYS, 2007

## CALIGIDAE

***Alanlewisia fallolunulus* (Lewis, 1967) Boxshall, 2008**

- Naso unicornis* BOXSHALL, 2008

***Alebion carchariae* Krøyer, 1863**

- No host indicated; present paper: *Galeocerdo cuvier*  
 BOXSHALL & HUYS, 2007

***Alebion gracilis* Wilson, 1905**

- No host indicated; present paper: *Stegostoma fasciatum*  
 BOXSHALL & HUYS, 2007

***Anuretes justinei* Venmathi Maran, Ohtsuka & Boxshall, 2008**

- Plectorhynchus lineatus* VENMATHI MARAN et al., 2008

***Avitocaligus assurgericola* Boxshall & Justine, 2005**

- Assurger anzac* BOXSHALL & JUSTINE, 2005

***Caligus bonito* Wilson, 1905**

- Katsuwonus pelamis* ROHDE et al., 1980

***Caligus confusus* Pillai, 1961**

- No host indicated; present paper: *Caranx papuensis*  
 BOXSHALL & HUYS, 2007

***Caligus cordyla* Pillai, 1963**

- No host indicated; present paper:  
*Carangoides fulvoguttatus* BOXSHALL & HUYS, 2007

- Caligus coryphaenae* Steenstrup & Lütken, 1861**  
No host indicated; present paper: *Coryphaena hippurus*  
BOXSHALL & HUYS, 2007
- Caligus infestans* Heller, 1868**  
No host indicated; present paper:  
*Scomberomorus commerson* BOXSHALL & HUYS, 2007
- Caligus isonyx* Steenstrup & Lütken, 1861**  
No host indicated; present paper: *Sphyraena flavicauda*  
BOXSHALL & HUYS, 2007
- Caligus lobodes* (Wilson, 1911) Pillai, 1985**  
No host indicated; present paper: *Sphyraena barracuda*  
BOXSHALL & HUYS, 2007
- Caligus lethrinicola* Boxshall & El-Rashidy, 2009**  
*Lethrinus rubrioperculatus* BOXSHALL & EL-RASHIDY, 2009  
**as *Caligus* cf. *mauritanicus* Brian, 1924**  
*Lethrinus rubrioperculatus* BOXSHALL & HUYS, 2007;  
JUSTINE, 2007e
- Caligus novocaledonicus* Kabata, 1968**  
No host indicated BOXSHALL & HUYS, 2007
- Caligus productus* Dana, 1852**  
*Acanthocybium solandri* ROHDE et al., 1980  
*Katsuwonus pelamis* ROHDE et al., 1980
- Gloiopotes hygomanus* Steenstrup & Lütken, 1861**  
No host indicated; present paper:  
*Acanthocybium solandri* BOXSHALL & HUYS, 2007
- Gloiopotes watsoni* Kirtisinghe, 1934**  
No host indicated; present paper: *Tetrapturus audax*  
BOXSHALL & HUYS, 2007
- Lepeophtheirus* sp.**  
*Bodianus perditio* LIM & JUSTINE, 2007  
*Epinephelus malabaricus* JUSTINE & SIGURA, 2007
- Paralebion elongatus* Wilson, 1911**  
No host indicated; present paper:  
*Triaenodon obesus* BOXSHALL & HUYS, 2007
- Pseudanuretes fortipedis* Kabata, 1965**  
No host indicated; present paper:  
*Pomacanthus semicirculatus* BOXSHALL & HUYS, 2007
- DISSONIDAE**  
***Dissonus excavatus* Boxshall, Lin, Ho, Ohtsuka, Venmathi Maran & Justine, 2008**  
*Bodianus perditio* BOXSHALL et al., 2008  
**as *Dissonus* sp.**  
*Bodianus perditio* LIM & JUSTINE, 2007  
*Macolor niger* BOXSHALL et al., 2008
- Dissonus heronensis* Kabata, 1966**  
*Pseudobalistes fuscus* BOXSHALL et al., 2008
- Dissonus manteri* Kabata, 1966**  
*Epinephelus cyanopodus* BOXSHALL et al., 2008  
*Epinephelus maculatus* BOXSHALL et al., 2008;  
JOURNO & JUSTINE, 2006  
*Plectropomus laevis* BOXSHALL et al., 2008  
*Plectropomus leopardus* BOXSHALL et al., 2008;  
JUSTINE & EUZET, 2006
- EUDACTYLINIDAE**  
***Nemesis robusta* (van Beneden, 1851) Heller, 1868**  
No host indicated; present paper:  
*Carcharhinus amblyrhynchos* BOXSHALL & HUYS, 2007
- HATSCHEKIIDAE**  
***Hatschekia balistae* Nunes-Ruivo, 1954**  
No host indicated; present paper:  
*Abalistes stellatus* BOXSHALL & HUYS, 2007  
No host indicated; present paper:  
*Balistoides conspicillum* BOXSHALL & HUYS, 2007  
No host indicated; present paper:  
*Pseudobalistes fuscus* BOXSHALL & HUYS, 2007
- Hatschekia cernae* Goggio, 1905**  
No host indicated BOXSHALL & HUYS, 2007  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008
- Hatschekia* cf. *plectropomi* Ho & Dojiri, 1978**  
No host indicated; present paper:  
*Plectropomus laevis* BOXSHALL & HUYS, 2007  
No host indicated; present paper:  
*Plectropomus leopardus* BOXSHALL & HUYS, 2007;  
JUSTINE & EUZET, 2006
- Hatschekia sphyraeni* Pillai, 1964**  
No host indicated; present paper:  
*Sphyraena forsteri* BOXSHALL & HUYS, 2007
- Hatschekia* sp.**  
*Bodianus perditio* LIM & JUSTINE, 2007  
*Epinephelus cyanopodus* (2 species) SIGURA & JUSTINE, 2008  
*Epinephelus fasciatus* JUSTINE, 2005b  
*Epinephelus maculatus* (2 species) JOURNO & JUSTINE, 2006  
*Epinephelus malabaricus* JUSTINE & SIGURA, 2007  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus nebulosus* RASCALOU & JUSTINE, 2007
- Laminohatschekia synaphobranchi* Boxshall, 1989**  
*Synaphobranchus* cf. *brevidorsalis* BOXSHALL, 1989
- KROYERIIDAE**  
***Kroyeria dispar* Wilson, 1935**  
No host indicated; present paper:  
*Galeocerdo cuvier* BOXSHALL & HUYS, 2007
- LERNANTHROPIDAE**  
***Lernanthropus cadenati* Delamare-Deboutteville & Nunes-Ruivo, 1954**  
No host indicated; present paper:  
*Elops hawaiiensis* BOXSHALL & HUYS, 2007

***Lernanthropus corniger* Yamaguti, 1954**

No host indicated; present paper:

*Megalaspis cordyla* BOXSHALL & HUYS, 2007***Lernanthropus tylosuri* Richiardi, 1880**

No host indicated; present paper:

*Tylosurus crocodilus* BOXSHALL & HUYS, 2007***Lernanthropus* sp.***Bodianus perditio* LIM & JUSTINE, 2007***Norion priacanthi* (Kirtisinghe, 1956) Ho & Kim, 2004**

No host indicated; present paper:

*Priacanthus hamrur* BOXSHALL & HUYS, 2007***Sagum epinepheli* (Yamaguti & Yamasu, 1960) Pillai & Sebastian, 1967**

No host indicated; present paper:

*Epinephelus chlorostigma* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Epi. coeruleopunctatus* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Epinephelus cyanopodus* BOXSHALL & HUYS, 2007;  
SIGURA & JUSTINE, 2008

No host indicated; present paper:

*Epinephelus merra* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Epinephelusmorrhua* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Plectropomus leopardus* BOXSHALL & HUYS, 2007as unidentified Copepoda *Epinephelus coeruleopunctatus*  
SIGURA et al., 2007as *Sagum* sp. *Plectropomus leopardus*  
JUSTINE & EUZET, 2006as *Aethon* sp. *Epinephelus merra* JUSTINE, 2005b

## LERNAEPODIDAE

***Brachiella thynni* Cuvier, 1830***Acanthocybium solandri* ROHDE et al., 1980***Margolisius* cf. *abditus* Benz, Kabata & Bullard, 2000**

No host indicated; present paper:

*Echeneis naucrates* BOXSHALL & HUYS, 2007***Naobranchia* cf. *spinosa* Pearse, 1952**

No host indicated; present paper:

*Selar crumenophthalmus* BOXSHALL & HUYS, 2007***Parabrachiella appendiculata* (Heegaard, 1947) Boxshall & Halsey, 2004**

No host indicated; present paper:

*Chirocentrus dorab* BOXSHALL & HUYS, 2007

## PANDARIDAE

***Demoleus latus* Shiino, 1954**

No host indicated; present paper:

*Squalus megalops* BOXSHALL & HUYS, 2007***Dinemoura latifolia* (Steenstrup & Lütken, 1861) Yamaguti, 1963**

No host indicated; present paper:

*Isurus oxyrinchus* BOXSHALL & HUYS, 2007***Echthrogaleus coleoptratus* (Guérin-Méneville, 1837)****Steenstrup & Lütken, 1861**

No host indicated; present paper:

*Prionace glauca* BOXSHALL & HUYS, 2007***Nesippus crypturus* Heller, 1868**

No host indicated; present paper:

*Galeocerdo cuvier* BOXSHALL & HUYS, 2007***Nesippus tigris* Cressey, 1967**

No host indicated; present paper:

*Galeocerdo cuvier* BOXSHALL & HUYS, 2007***Pandarus satyrus* Dana, 1852**

No host indicated; present paper:

*Prionace glauca* BOXSHALL & HUYS, 2007***Pandarus smithii* Rathbun, 1886**

No host indicated; present paper:

*Pristipomoides filamentosus* BOXSHALL & HUYS, 2007***Pseudopandarus gracilis* Kirtisinghe, 1950**

No host indicated; present paper:

*Squalus megalops* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Squalus melanurus* BOXSHALL & HUYS, 2007

## PENNELLIDAE

***Lernaeolophus striatus* Wilson, 1913**

No host indicated; present paper:

*Pristipomoides filamentosus* BOXSHALL & HUYS, 2007***Sarcotretes scopeli* Jungersen, 1911***Hymenocephalus gracilis* BOXSHALL, 1989**Unidentified larvae***Epinephelus cyanopodus* SIGURA & JUSTINE, 2008

## PSEUDOCYCNIDAE

***Pseudocycnus appendiculatus* Heller, 1868**

No host indicated; present paper:

*Thunnus albacares* BOXSHALL & HUYS, 2007

## SPHYRIIDAE

***Lophoura cornuta* (Wilson, 1919) Yamaguti, 1963***Synaphobranchus* cf. *brevadorsalis* BOXSHALL, 1989

## TAENIACANTHIDAE

***Irodes sauridi* (Pillai, 1963)**

No host indicated; present paper:

*Upeneus vittatus* BOXSHALL & HUYS, 2007***Metataeniacanthus vulgaris* Cressey & Cressey, 1979**

No host indicated; present paper:

*Synodus similis* BOXSHALL & HUYS, 2007

No host indicated; present paper:

*Synodus variegatus* BOXSHALL & HUYS, 2007

- Taeniacanthus aluteri* (Avdeev, 1977) Dojiri & Cressey, 1987**  
No host indicated; present paper:  
*Abalistes stellatus* BOXSHALL & HUYS, 2007
- Taeniacanthus kitamakura* Yamaguti & Yamasu, 1959**  
No host indicated; present paper:  
*Lagocephalus sceleratus* BOXSHALL & HUYS, 2007
- ISOPODA**  
(alphabetical order of families and species; 4 families recorded; 27 species recorded + unidentified species)
- UNIDENTIFIED ADULT ISOPOD**  
*Diagramma pictum* BAILLON, 1991
- AEGIDAE**  
***Aega alazon* Bruce, 2004**  
Host unknown [Deep-sea] BRUCE, 2004
- Aega angustata* Whitelegge, 1901**  
*Hexanchus nakamurai* TRILLES & JUSTINE, 2004  
*Squalus megalops* TRILLES & JUSTINE, 2004  
*Squalus melanurus* TRILLES & JUSTINE, 2004  
as *Aega* sp. BRUCE, 2007
- Aega coroo* Bruce, 2004**  
No host indicated BRUCE, 2007
- Aega* cf. *deshaysiana* (Milne Edwards, 1840) Schioedte & Meinert, 1879**  
*Squalus megalops* TRILLES & JUSTINE, 2004
- Aega hamiota* Bruce, 2004**  
Host unknown [Deep-sea] BRUCE, 2004
- Aega kixalles* Bruce, 2004**  
Host unknown [Deep-sea] BRUCE, 2004
- Aega monophthalma* Johnston, 1834**  
No host indicated BRUCE, 2007
- Aega musorstom* Bruce, 2004**  
*Synagrops* sp. [Deep-sea] BRUCE, 2004
- Aega plebeia* Hansen, 1897**  
No host indicated BRUCE, 2007
- Aega rickbruscai* Bruce, 2004**  
Host unknown [Deep-sea] BRUCE, 2004
- Aega vigilans* Haswell, 1881**  
No host indicated BRUCE, 2007
- Aega webbi* (Guérin-Méneville, 1836) Schioedte & Meinert, 1879**  
*Squalus megalops* TRILLES & JUSTINE, 2004  
as *Aega urotoma* Barnard, 1914 BRUCE, 2007
- Aega* sp. of Bruce, 2004**  
Host unknown BRUCE, 2004
- Systemus latus* Richardson, 1909**  
No host indicated BRUCE, 2007
- Systemus moana* Bruce, 2005**  
No host indicated BRUCE, 2007
- CORALLANIDAE**  
***Argathona macronema* (Bleeker, 1857) Monod, 1975**  
*Plectropomus laevis* JUSTINE & EUZET, 2006
- Argathona rhinoceros* (Bleeker, 1857) Monod, 1975**  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008  
*Plectropomus leopardus* JUSTINE & EUZET, 2006
- CYMOTHOIDAE**  
***Anilocra australis* Schioedte & Meinert, 1881**  
No host indicated BRUCE, 2007
- Anilocra gigantea* (Herklots, 1870) Schioedte & Meinert, 1881**  
*Etelis carbunculus* TRILLES, 1972
- Anilocra longicauda* Schioedte & Meinert, 1881**  
No host indicated BRUCE, 2007
- Ceratothoa carinata* (Bianconi, 1869) Schioedte & Meinert, 1883**  
'*Lutjanus amabilis*' [unknown in FishBase] TRILLES, 1972
- Ceratothoa impressa* (Say, 1818) Richardson, 1905**  
"Espadon (Swordfish)" TRILLES 1972
- Ethusa arnoglossi* Trilles & Justine, 2006**  
*Arnoglossus* sp. TRILLES & JUSTINE, 2006
- Ethusa parabothis* Trilles & Justine, 2004**  
*Parabothus kiensis* TRILLES & JUSTINE, 2004
- Nerocila excisa* (Richardson, 1901) Richardson Searle, 1914**  
*Grammistes* sp. TRILLES, 1972
- GNATHIIDAE**  
**Gnathiidae Gen. sp. larva**  
*Abalistes filamentosus* RANDALL & JUSTINE, 2008b  
*Bodianus perditio* LIM & JUSTINE, 2007  
*Cephalopholis argus* JUSTINE, 2007d  
*Cephalopholis boenak* JUSTINE, 2007d  
*Cephalopholis sonnerati* JUSTINE, 2007d  
*Cephalopholis urodeta* JUSTINE, 2008a  
*Epinephelus cyanopodus* SIGURA & JUSTINE, 2008  
*Epinephelus maculatus* JOURNO & JUSTINE, 2006  
*Epinephelus morrhua* JUSTINE, 2008c  
*Epinephelus rivulatus* HINSINGER & JUSTINE, 2006a  
*Hemigymnus melapterus* GRUTTER, 1999  
*Lethrinus harak* RASCALOU & JUSTINE, 2007  
*Lethrinus rubrioperculatus* JUSTINE, 2007e  
*Pentapodus aureofasciatus* JUSTINE & BRENA, 2009  
*Scolopsis bilineatus* GRUTTER, 1999
- ACANTHOCEPHALA**  
only unidentified species
- Unidentified Acanthocephala**  
*Epinephelus morrhua* JUSTINE, 2008c
- HIRUDINEA**  
only unidentified species
- Unidentified Hirudinea**  
*Diagramma pictum* BAILLON, 1991  
*Lethrinus harak* RASCALOU & JUSTINE, 2007



TABLE 2.  
Host-Parasite list

57 families recorded with parasites; 177 species recorded with parasites

**HOST UNKNOWN (OR NOT INDICATED)**

Copepoda <i>Caligus novocaledonicus</i>	BOXSHALL & HUYS, 2007
Isopoda <i>Aega alazon</i>	BRUCE, 2004
Isopoda <i>Aega coroo</i>	BRUCE, 2007
Isopoda <i>Aega hamiota</i>	BRUCE, 2004
Isopoda <i>Aega kixalles</i>	BRUCE, 2004
Isopoda <i>Aega monophthalma</i>	BRUCE, 2007
Isopoda <i>Aega plebeia</i>	BRUCE, 2007
Isopoda <i>Aega rickbruscai</i>	BRUCE, 2004
Isopoda <i>Aega</i> sp.	BRUCE, 2004
Isopoda <i>Aega vigilans</i>	BRUCE, 2007
Isopoda <i>Anilocra australis</i>	BRUCE, 2007
Isopoda <i>Anilocra gigantea</i>	TRILLES, 1972
Isopoda <i>Anilocra longicauda</i>	BRUCE, 2007
Isopoda <i>Syscenus latus</i>	BRUCE, 2007
Isopoda <i>Syscenus moana</i>	BRUCE, 2007

**ELASMOBRANCHII**

(alphabetical order of families and species;  
9 families recorded with parasites; 14 species recorded with parasites)

**CARCHARHINIDAE**

***Carcharhinus amblyrhynchos* (Bleeker)**

C. Trypanorhyncha <i>Otobothrium parvum</i>	BEVERIDGE & JUSTINE, 2007c
Nematoda <i>Huffmanella lata</i>	JUSTINE, 2005a
Copepoda <i>Nemesis robusta</i>	BOXSHALL & HUYS, 2007

***Carcharhinus plumbeus* (Nardo)**

Copepoda <i>Pandarus smithii</i>	BOXSHALL & HUYS, 2007
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***Galeocerdo cuvier* (Péron & Lesueur)**

C. Trypanorhyncha <i>Otobothrium curtum</i>	BEVERIDGE & JUSTINE, 2007c
Nematoda <i>Terranova scoliodontis</i>	MORAVEC & JUSTINE, 2006b
Copepoda <i>Alebion carchariae</i>	BOXSHALL & HUYS, 2007
Copepoda <i>Kroyeria dispar</i>	BOXSHALL & HUYS, 2007
Copepoda <i>Nesippus crypturus</i>	BOXSHALL & HUYS, 2007
Copepoda <i>Nesippus tigris</i>	BOXSHALL & HUYS, 2007

***Negaprion acutidens* (Rüppell)**

C. Trypanorhyncha <i>Paragrillotia spratti</i>	BEVERIDGE & JUSTINE, 2007a
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***Prionace glauca* (Linnaeus)**

Copepoda <i>Echthrogaleus coleoptratus</i>	BOXSHALL & HUYS, 2007
Copepoda <i>Pandarus satyrus</i>	BOXSHALL & HUYS, 2007

**CENTROPHORIDAE**

***Centrophorus* sp. [Deep-sea]**

C. Tetracyllidae, unidentified adults	BEVERIDGE & JUSTINE, 2006
C. Trypanorhyncha <i>Gilquinia minor</i>	BEVERIDGE & JUSTINE, 2006
C. Trypanorhyncha <i>Sagittirhynchus aculeatus</i>	BEVERIDGE & JUSTINE, 2006

**DASYATIDAE**

***Urogymnus asperimus* (Bloch & Schneider) [not *Taeniura meyeri* Müller & Henle, erroneous]**

Nematoda <i>Echinocephalus overstreeti</i>	MORAVEC & JUSTINE, 2006b
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**HEMIGALEIDAE**

***Triaenodon obesus* (Rüppell)**

C. Trypanorhyncha <i>Otobothrium parvum</i>	BEVERIDGE & JUSTINE, 2006
Copepoda <i>Paralebion elongatus</i>	BOXSHALL & HUYS, 2007

**HEXANCHIDAE**

***Hexanchus nakamurai* Teng [Deep-sea]**

C. Trypanorhyncha <i>Paragrillotia apecteta</i>	BEVERIDGE & JUSTINE, 2007a
Isopoda <i>Aega angustata</i>	TRILLES & JUSTINE, 2004

**LAMNIDAE**

***Isurus oxyrinchus Rafinesque***

Copepoda <i>Dinemoura latifolia</i>	BOXSHALL & HUYS, 2007
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**MYLIOBATIDAE**

***Aetobatus narinari* (Euphrasen)**

Monopisthocotylea <i>Clemacotyle australis</i>	MARIE & JUSTINE, 2005
Monopisthocotylea <i>Decacotyle elpora</i>	MARIE & JUSTINE, 2005
Monopisthocotylea <i>Decacotyle octona</i>	MARIE & JUSTINE, 2005
Monopisthocotylea <i>Thaumatocotyle pseudodasybatis</i>	MARIE & JUSTINE, 2005, 2006
C. Tetracyllidae <i>Acanthobothrium aetiobatis</i>	BAER & EUZET, 1962
Nematoda <i>Echinocephalus sinensis</i>	MORAVEC & JUSTINE, 2006b

**SQUALIDAE**

***Squalus megalops* Macleay [Deep-sea]**

C. Tetracyllidae, unidentified adults	BEVERIDGE & JUSTINE, 2006
C. Trypanorhyncha <i>Gilquinia robertsoni</i>	BEVERIDGE & JUSTINE, 2006
Copepoda <i>Demoleus latus</i>	BOXSHALL & HUYS, 2007
Copepoda <i>Pseudopandarus gracilis</i>	BOXSHALL & HUYS, 2007
Isopoda <i>Aega angustata</i>	TRILLES & JUSTINE, 2004
Isopoda <i>Aega webbi</i>	TRILLES & JUSTINE, 2004
as <i>Aega urotoma</i> Bruce, 2007	
Isopoda <i>Aega</i> cf. <i>deshaysiana</i>	TRILLES & JUSTINE, 2004

***Squalus* cf. *megalops* [Deep-sea]**

C. Trypanorhyncha <i>Chimaerarhynchus rougetae</i>	OLSON et al., 2010; PALM et al., 2009
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**Squalus melanurus Fourmanoir & Rivaton [Deep-sea]**Monopisthocotylea *Triloculotrema chisholmae* JUSTINE, 2009a

Polyopisthocotylea Hexabothriidae, unidentified

JUSTINE, 2009a

C. Tetraphyllidea, unidentified adults

BEVERIDGE &amp; JUSTINE, 2006

C. Trypanorhyncha *Gilquinia* sp. BEVERIDGE & JUSTINE, 2006C. Trypanorhyncha *Vittirhynchus squali*

BEVERIDGE &amp; JUSTINE, 2006

Copepoda *Pseudopandarus gracilis* BOXSHALL & HUYS, 2007Isopoda *Aega angustata* TRILLES & JUSTINE, 2004**STEGOSTOMATIDAE*****Stegostoma fasciatum* (Hermann)**C. Trypanorhyncha *Hornelliella annandalei*

BEVERIDGE &amp; JUSTINE, 2007b

C. Trypanorhyncha *Mixonybelinia southwelli*

BEVERIDGE &amp; JUSTINE, 2007b

C. Trypanorhyncha *Pseudolacistorhynchus heroniensis*

BEVERIDGE &amp; JUSTINE, 2007b

C. Trypanorhyncha *Pseudolacistorhynchus nanus*

BEVERIDGE &amp; JUSTINE, 2007b

Copepoda *Alebion gracilis* BOXSHALL & HUYS, 2007**ACTINOPTERYGII**

(alphabetical order of families and species; 48 families recorded with parasites; 163 species recorded with parasites)

**ACANTHURIDAE*****Acanthurus blochii* Valenciennes**Digenea *Parvipyrum acanthuri* BRAY & JUSTINE, 2008a***Acanthurus xanthopterus* Valenciennes**

Turbellaria, unidentified JUSTINE et al., 2009b

***Naso* sp. “unicorn fish”**Digenea *Hapladena tanyorchis* DURIO & MANTER, 1969Digenea *Quadrifoliovarium pritchardae* MANTER, 1969***Naso unicornis* (Forsskål)**Turbellaria *Piscinquilinus* sp. JUSTINE et al., 2009bMonopisthocotylea *Dioncoseudobenedenia kala*

PERKINS et al., 2009

Nematoda Capillariidae Gen. sp. MORAVEC, 2001

Copepoda *Alanlewisia fallolunulus* BOXSHALL, 2008***Zebrasoma veliferum* (Bloch)**Digenea *Affecauda salacia* HALL & CRIBB, 2004b***Zebrasoma scopas* (Cuvier)**Nematoda *Procamallanus (Spirocamallanus) longus*

MORAVEC et al., 2006a

**ACROPOMATIDAE*****Synagrops* sp. [Deep-sea]**Isopoda *Aega musorstom* BRUCE, 2004**ALBULIDAE*****Albula glossodonta* (Forsskål)**Nematoda *Spinitectus (Paraspinitectus)* sp.

MORAVEC &amp; JUSTINE, 2009b

**ANGUILLIDAE*****Anguilla obscura* Günther [freshwater]**Digenea *Stegodexamene anguillae* MORAVEC & JUSTINE, 2007cNematoda *Procamallanus (Procamallanus) pacificus*

MORAVEC et al., 2006b

***Anguilla reinhardtii* Steindachner [freshwater]**Digenea *Stegodexamene anguillae*

MORAVEC &amp; JUSTINE, 2007c

Nematoda *Procamallanus (Procamallanus) pacificus*

MORAVEC et al., 2006b

**ANTENNARIIDAE****Antennariidae sp. (recruiting larvae)**

Digenea Hemiuridae (immature unidentifiable)

CRIBB et al., 2000

**APOGONIDAE*****Apogon angustatus* (Smith & Radcliffe)? (recruiting larvae)**

Digenea Didymozoidae larva B

CRIBB et al., 2000

***Apogon coccineus* Rüppell (recruiting larvae)**

Digenea Didymozoidae larva A

CRIBB et al., 2000

Digenea Didymozoidae larva B

CRIBB et al., 2000

Digenea Didymozoidae larva E

CRIBB et al., 2000

Digenea Didymozoidae larva F

CRIBB et al., 2000

**ATHERINIDAE****Myctophidae “pretre” (? *Atherinomorus lacunosus* (Forster))**Digenea *Bivesiculoides posterotestis*

DURIO &amp; MANTER, 1968a

**BALISTIDAE*****Abalistes filamentosus* Matsuura & Yoshino**

Copepoda, unidentified

RANDALL &amp; JUSTINE, 2008b

Isopoda Gnathiidae, unidentified larva

RANDALL &amp; JUSTINE, 2008b

***Abalistes stellatus* Anonymous (ex Commerson)**Digenea *Cableia balistidicola*

BRAY et al., 2009b

Nematoda Rhabdochonidae [as female *H. balista*,

erroneous]

JUSTINE, 2007b,

This paper

Nematoda *Huffmanella balista*, male

JUSTINE, 2007b

Copepoda *Hatschekia balistae*

BOXSHALL &amp; HUYS, 2007

Copepoda *Metataeniacanthus vulgaris*

BOXSHALL &amp; HUYS, 2007

Copepoda *Taeniacanthus aluteri*

BOXSHALL &amp; HUYS, 2007

***Balistoides conspicillum* (Bloch & Schneider)**Copepoda *Hatschekia balistae*

BOXSHALL &amp; HUYS, 2007

***Pseudobalistes fuscus* (Bloch & Schneider)**

Monopisthocotylea Trochopodinae Gen. sp. 1

PERKINS et al., 2009

Digenea Acanthocolpidae, unidentified

BRAY &amp; JUSTINE, 2007b

Digenea *Cableia balistidicola* [as *Cableia* sp.]

BRAY &amp; JUSTINE, 2007b

Digenea *Cableia balistidicola*

BRAY et al., 2009b

Digenea *Hypocreadium toombo*

BRAY &amp; JUSTINE, 2006a

Digenea Lepocreadiidae, unidentified

BRAY &amp; JUSTINE, 2007b

Digenea *Lobatocreadium exiguum*

BRAY &amp; JUSTINE, 2006a

Digenea *Pseudopycnadena tendu*

BRAY &amp; JUSTINE, 2007b

Digenea *Sphincteristomum acollum*

BRAY &amp; JUSTINE, 2007b

Digenea *Stephanostomum* sp.

BRAY &amp; JUSTINE, 2007b

Copepoda *Dissonus heronensi*

BOXSHALL et al., 2008

Copepoda *Hatschekia balistae*

BOXSHALL &amp; HUYS, 2007

- Sufflamen fraenatum* (Latreille)**  
Digenea *Hypocreadium patellare* BRAY et al., 2009a
- BELONIDAE**  
***Strongylura leiura* (Bleeker) syn. of *Tylosurus leiurus* (Bleeker) ?**  
Digenea *Dichadena obesa* MANTER, 1969
- Tylosurus crocodilus* (Péron & Lesueur)**  
Digenea *Lecithostaphylus nitens* BRAY & JUSTINE, 2008a  
Nematoda *Philometra dentigubernaculata* MORAVEC & JUSTINE, 2009a  
Copepoda *Lernanthropus tylosuri* BOXSHALL & HUYS, 2007
- BLENIIDAE**  
**Bleniidae Gen. sp. (recruiting larvae)**  
Digenea Didymozoidae larva A CRIBB et al., 2000  
Digenea Hemiuridae (immature unidentifiable) CRIBB et al., 2000
- BOTHIDAE**  
***Bothus pantherinus* (Rüppell) (recruiting larvae)**  
Digenea Didymozoidae larva B CRIBB et al., 2000
- Arnoglossus* sp. [Deep-sea]**  
Isopoda *Elthusa arnoglossi* TRILLES & JUSTINE, 2006
- Parabothus kiensis* [Deep-sea]**  
Isopoda *Elthusa parabothi* TRILLES & JUSTINE, 2004
- CARANGIDAE**  
***Carangoides fulvoguttatus* (Forsskål)**  
Polyopisthocotylea *Heteromicrocotyla australiensis* BARTON et al., 2009  
Polyopisthocotylea *Heteromicrocotyloides megaspinosus* BARTON et al., 2009  
Copepoda *Caligus cordyla* BOXSHALL & HUYS, 2007
- Caranx papuensis* Alleyne & Macleay**  
Digenea *Prosorhynchoides lamprelli* BRAY & JUSTINE, 2006b
- Gnathanodon speciosus* (Forsskål)**  
Nematoda *Metabronema magnum* MORAVEC & JUSTINE, 2007b
- Megalaspis cordyla* (Linnaeus)**  
Copepoda *Lernanthropus corniger* BOXSHALL & HUYS, 2007
- Selar crumenophthalmus* (Bloch)**  
Copepoda *Naobranchia* cf. *spinosa* BOXSHALL & HUYS, 2007
- CHAETODONTIDAE**  
***Heniochus acuminatus* (Linnaeus) “*Chaetodon acuminatus*”**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon auriga* Forsskål**  
Monopisthocotylea *Aliatrema cribbi* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides annulicirrus* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides grandis* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides pirulum* PLAISANCE & KRITSKY, 2004
- Monopisthocotylea *Haliotrema aurigae* PLAISANCE et al., 2004  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon citrinellus* Cuvier**  
Monopisthocotylea *Euryhaliotrematoides grandis* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Haliotrema aurigae* PLAISANCE et al., 2004  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon ephippium* Cuvier**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a  
Turbellaria, unidentified JUSTINE et al., 2009b
- Chaetodon flavirostris* Günther**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon lineolatus* Cuvier**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a  
Digenea *Cardicola chaetodontis* NOLAN & CRIBB, 2006
- Chaetodon melannotus* Bloch & Schneider**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon mertensii* Cuvier**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon pelewensis* Kner**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Chaetodon vagabundus* Linnaeus**  
Monopisthocotylea *Aliatrema cribbi* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides annulicirrus* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides aspitis* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides grandis* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Haliotrema aurigae* PLAISANCE et al., 2004
- Coradion altivelis* McCulloch**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Forcipiger flavissimus* Jordan & McGregor**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Heniochus acuminatus* (Linnaeus)**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Heniochus chrysostomus* Cuvier**  
Monopisthocotylea *Aliatrema cribbi* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Euryhaliotrematoides microphallus* PLAISANCE & KRITSKY, 2004  
Monopisthocotylea *Haliotrema aurigae* PLAISANCE et al., 2004  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a
- Heniochus monoceros* Cuvier**  
Digenea *Aponurus chelebesoi* BRAY & CRIBB, 2000a

## CHANIDAE

***Chanos chanos* (Forsskål)**Digenea *Isorchis parvus* DURIO & MANTER, 1969

## CHIROCENTRIDAE

***Chirocentrus dorab* (Forsskål)**Copepoda *Parabrachiella appendiculata*  
BOXSHALL & HUYS, 2007

## CORYPHAENIDAE

***Coryphaena hippurus* Linnaeus**Copepoda *Caligus coryphaenae* BOXSHALL & HUYS, 2007

## ECHENEIDAE

***Echeneis naucrates* Linnaeus**Copepoda *Margolisius cf. abditus* BOXSHALL & HUYS, 2007

## ELOPIDAE

***Elops hawaiiensis* Regan**Copepoda *Gloiopotes watsoni* BOXSHALL & HUYS, 2007

## GOBIDAE

***Awaous guamensis* (Valenciennes) [freshwater]**Nematoda *Camallanus cotti* MORAVEC & JUSTINE, 2006a

## HAEMULIDAE

***Diagramma pictum* (Thunberg)**Digenea *Holorchis castex* BRAY & JUSTINE, 2007aDigenea *Lasiotocus plectorhynchi* BRAY & JUSTINE, 2007a

Digenea, unidentified BAILLON, 1991

Nematoda Camallanidae, unidentified BAILLON, 1991

Isopoda, unidentified adults BAILLON, 1991

Hirudinea, unidentified BAILLON, 1991

***Plectorhinchus chaetodonoides* Lacépède**

Monopisthocotylea Capsalidae sp. 1 PERKINS et al., 2009

***Plectorhinchus goldmani* (Bleeker)**Copepoda *Holorchis plectorhynchi* DURIO & MANTER, 1968b***Plectorhinchus lineatus***Digenea *Anuretes justinei* VENMATHI MARAN et al., 2008***Plectorhinchus* sp. (“loche castex”)**Digenea *Lasiotocus longitestis* DURIO & MANTER, 1968aDigenea *Hysterorchis vitellosus* DURIO & MANTER, 1968aDigenea *Choanostoma secundum* DURIO & MANTER, 1968b

## HEMIRAMPHIDAE

***Hemiramphus* sp.**Digenea *Tergestia clonacantha* DURIO & MANTER, 1968a

## HOLOCENTRIDAE

***Sargocentron ensifer* (Jordan & Evermann)**Digenea *Lecithochirium cirrhiti* MORAVEC & JUSTINE, 2009b***Sargocentron spiniferum* (Forsskål)**Digenea *Lecithochirium cirrhiti* MORAVEC & JUSTINE, 2009bNematoda *Ascarophis (Dentiascarophis) adioryx*  
MORAVEC & JUSTINE, 2009b***Neoniphon sammara* (Forsskål)**Digenea *Lecithochirium cirrhiti* MORAVEC & JUSTINE, 2009bNematoda *Ascarophis (Dentiascarophis) adioryx*  
MORAVEC & JUSTINE, 2009b

## HOPLICHTHYIDAE

***Hoplichthys citrinus* Gilbert [Deep-sea]**Nematoda *Ascarophis (Similarascarophis) richeri*  
MORAVEC & JUSTINE, 2007aNematoda *Ichthyofilaria novaecaledoniensis*  
MORAVEC & JUSTINE, 2009a

## ISTIOPHORIDAE

***Tetrapturus audax* (Philippi)**Nematoda *Hysterothylacium cenaticum*  
MORAVEC & JUSTINE, 2005aCopepoda *Gloiopotes watsoni* BOXSHALL & HUYS, 2007**‘Espadon’ (Swordfish)**Isopoda *Ceratothoa impressa* TRILLES, 1972

## KUHLIIDAE

***Kuhlia marginata* (Cuvier) [freshwater]**Nematoda *Camallanus cotti* (larvae)  
MORAVEC & JUSTINE, 2006a

## LABRIDAE

***Bodianus perditio* (Quoy & Gaimard) [in Manter as**“*Lepidaplois perditio*”]Monopisthocotylea *Haliotrema banana* LIM & JUSTINE, 2007Digenea *Intusatrium robustum* BRAY & JUSTINE, 2006a;  
DURIO & MANTER, 1968b

Nematoda Cucullanidae, unidentified LIM &amp; JUSTINE, 2007

Nematoda *Huffmanella ossicola* JUSTINE, 2007b;

LIM &amp; JUSTINE, 2007

Copepoda *Dissonus excavatus* BOXSHALL ET AL., 2008;

LIM &amp; JUSTINE, 2007

Copepoda *Hatschekia* sp. LIM & JUSTINE, 2007Copepoda *Lepeophtheirus* sp. LIM & JUSTINE, 2007Copepoda *Lernanthropus* sp. LIM & JUSTINE, 2007

Isopoda Gnathiidae, unidentified larva LIM &amp; JUSTINE, 2007

***Bodianus loxozonus* (Snyder)**Digenea *Intusatrium robustum* BRAY & JUSTINE, 2006aNematoda *Huffmanella ossicola* JUSTINE, 2004***Cheilinus chlorourus* (Bloch)**

Turbellaria, unidentified JUSTINE et al., 2009b

***Choerodon graphicus* (De Vis)**Digenea *Postlepidapedon secundum* BRAY & JUSTINE, 2006a***Hemigymnus melapterus* (Bloch)**

Isopoda Gnathiidae, unidentified larva GRUTTER, 1999

**Labridae sp. (recruiting larvae)**

Digenea Didymozoidae larva D CRIBB et al., 2000

Digenea Didymozoidae larva G CRIBB et al., 2000

***Labroides dimidiatus* (Valenciennes)**Digenea *Rhipidocotyle* sp. JONES et al., 2003, 2004***Thalassoma lutescens* (Lay & Bennett)**

Turbellaria, unidentified JUSTINE et al., 2009b

***Thalassoma* sp. (recruiting larvae)**

Digenea Didymozoidae larva D CRIBB et al., 2000

Digenea Didymozoidae larva G CRIBB et al., 2000

C. Tetraphyllidea Metacestode CRIBB et al., 2000

## LETHRINIDAE

**Gnathodentex aureolineatus (Lacépède)**

Monopisthocotylea *Lamellodiscus* sp. JUSTINE, 2007e;  
JUSTINE & BRIAND, 2009

**Gymnocranius euanus (Günther)**

Monopisthocotylea *Lamellodiscus parvicornis*  
JUSTINE & BRIAND, 2009  
Monopisthocotylea *Lamellodiscus magnicornis*  
JUSTINE & BRIAND, 2009  
2 species above as Monopisthocotylea *Lamellodiscus* sp.  
JUSTINE, 2007e  
Polyopisthocotylea Microcotylidae, unidentified  
JUSTINE, 2007e

**Gymnocranius grandoculis (Valenciennes)**

Monopisthocotylea *Lamellodiscus magnicornis*  
JUSTINE & BRIAND, 2009  
Monopisthocotylea *Lamellodiscus parvicornis*  
JUSTINE & BRIAND, 2009  
Monopisthocotylea *Lamellodiscus tubulicornis*  
JUSTINE & BRIAND, 2009  
3 species above as Monopisthocotylea *Lamellodiscus* sp.  
JUSTINE, 2007e  
Polyopisthocotylea Microcotylidae, unidentified  
JUSTINE, 2007e  
Nematoda *Huffmanella filamentosa* JUSTINE, 2004  
Nematoda *Huffmanella longa* JUSTINE, 2007b

**Gymnocranius sp. A of Justine & Briand, 2009**

Monopisthocotylea *Lamellodiscus magnicornis*  
JUSTINE & BRIAND, 2009

**Gymnocranius sp. B of Justine & Briand, 2009**

Monopisthocotylea *Lamellodiscus magnicornis*  
JUSTINE & BRIAND, 2009  
Monopisthocotylea *Lamellodiscus parvicornis*  
JUSTINE & BRIAND, 2009  
Monopisthocotylea *Lamellodiscus tubulicornis*  
JUSTINE & BRIAND, 2009

**Lethrinus atkinsoni Seale**

Monopisthocotylea *Calydiscoides rohdei* JUSTINE, 2007e  
Digenea *Zoogonus pagrosomi* BRAY & JUSTINE, 2008a

**Lethrinus genivittatus Valenciennes**

Digenea *Zoogonus pagrosomi* BRAY & JUSTINE, 2008a  
Nematoda *Philometra lethrini* MORAVEC & JUSTINE, 2008,  
2009a

**Lethrinus harak Forsskål**

Monopisthocotylea *Calydiscoides difficilis*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Calydiscoides duplicostatus*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Calydiscoides terpsichore*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Encotyllabe* sp.  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Haliotrema* spp. (3 species)  
JUSTINE, 2007e;  
RASCALOU & JUSTINE, 2007  
Digenea Didymozoidae, unidentified adult  
RASCALOU & JUSTINE, 2007

Digenea Opecoelidae, unidentified

RASCALOU & JUSTINE, 2007  
Copepoda *Hatschekia* sp. RASCALOU & JUSTINE, 2007  
Isopoda Gnathiidae, unidentified larva  
RASCALOU & JUSTINE, 2007  
Hirudinea, unidentified RASCALOU & JUSTINE, 2007

**Lethrinus lentjan Lacépède**

Monopisthocotylea *Calydiscoides difficilis*  
RASCALOU & JUSTINE 2007  
Monopisthocotylea *Calydiscoides duplicostatus*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007e  
Digenea *Orthodena tropica* BRAY & JUSTINE, 2007b

**Lethrinus miniatus (Forster)**

Monopisthocotylea *Calydiscoides australis* JUSTINE, 2007e  
Monopisthocotylea *Calydiscoides gussevi* JUSTINE, 2007e  
Digenea *Hamacreadium mutabile* DURIO & MANTER, 1968b  
Digenea *Holorchis plectorhynchi* DURIO & MANTER, 1968b  
Digenea *Lecithochirium magnaporum* MANTER, 1969  
Nematoda *Philometra lethrini* MORAVEC & JUSTINE, 2009a

**Lethrinus nebulosus (Forsskål) ? ("bec de cane" in Manter)**

Monopisthocotylea *Calydiscoides difficilis*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Calydiscoides duplicostatus*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Calydiscoides terpsichore*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Encotyllabe* sp.  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007e;  
RASCALOU & JUSTINE, 2007  
Polyopisthocotylea Microcotylidae, unidentified  
RASCALOU & JUSTINE, 2007  
Digenea *Diphtherostomum tropicum* DURIO & MANTER, 1968a  
Digenea *Hamacreadium diacopae* DURIO & MANTER, 1968b  
Digenea Opecoelidae, unidentified RASCALOU & JUSTINE, 2007  
Digenea *Orthodena tropica* DURIO & MANTER, 1968b  
Digenea *Pseudoplagioporus interruptus*  
DURIO & MANTER, 1968b  
Digenea *Pseudoplagioporus lethrini* DURIO & MANTER, 1968b  
Copepoda *Hatschekia* sp. RASCALOU & JUSTINE, 2007

**Lethrinus obsoletus (Forsskål)**

Monopisthocotylea *Calydiscoides difficilis*  
RASCALOU & JUSTINE, 2007

**Lethrinus ravus Carpenter & Randall**

Monopisthocotylea *Calydiscoides difficilis*  
RASCALOU & JUSTINE, 2007  
Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007e  
Nematoda *Procamallanus (Spirocamallanus)* sp. 2  
MORAVEC ET AL., 2006a

**Lethrinus rubrioperculatus Sato**

Monopisthocotylea *Calydiscoides euzeti* JUSTINE, 2007e  
Monopisthocotylea *Encotyllabe* sp. JUSTINE, 2007e  
Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007e  
Digenea Didymozoidae, unidentified JUSTINE, 2007e  
Digenea *Pseudoplagioporus interruptus*  
BRAY & JUSTINE, 2007b;  
JUSTINE, 2007e

- C. Trypanorhyncha *Nybelinia* sp. JUSTINE, 2007e  
 C. Trypanorhyncha *Otobothrium* sp. JUSTINE, 2007e  
 Copepoda *Caligus lethrinicola* BOXSHALL & EL-RASHIDY, 2009  
 as Copepoda *Caligus* cf. *mauritanicus*  
 BOXSHALL & HUYS, 2007;  
 JUSTINE, 2007e  
 Isopoda Gnathiidae, unidentified larva JUSTINE, 2007e
- Lethrinus variegatus* Valenciennes**  
 Nematoda *Philometra lethrini* MORAVEC & JUSTINE, 2009a
- Lethrinus xanthochilus* Klunzinger**  
 Monopisthocotylea *Calydiscoides euzeti* JUSTINE, 2007e  
 Monopisthocotylea *Encotyllabe* sp. JUSTINE, 2007e  
 Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007e  
 Copepoda, unidentified larvae JUSTINE, 2007e
- LUTJANIDAE**  
***Aprion virescens* Valenciennes**  
 Monopisthocotylea *Pseudonitzschia uku* PERKINS et al., 2009  
 Nematoda *Cucullanus bourdini* PETER & LE BEL, 1992
- Etelis carbunculus* Cuvier [Deep-sea]**  
 Digenea *Neolebouria blatta* BRAY & JUSTINE, 2009a  
 Isopoda *Anilocra gigantea* TRILLES, 1972
- '*Lutjanus amabilis*' (??? not in FishBase)**  
 Digenea *Hamacreadium mutabile* DURIO & MANTER, 1968b  
 Isopoda *Ceratothoa carinata* TRILLES, 1972
- Lutjanus argentimaculatus* (Forsskål)**  
 Monopisthocotylea *Euryhaliotrema* sp. KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides novaecaledoniae*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides potens*  
 KRITSKY et al., 2009  
 Digenea *Stephanostomum casum* DURIO & MANTER, 1969
- Lutjanus bohar* (Forsskål) ? ("anglais" in Manter)**  
 Digenea *Hamacreadium mutabile* DURIO & MANTER, 1968b  
 Digenea *Siphoderina catalae* DURIO & MANTER, 1969  
 Digenea *Siphoderina longitestis* DURIO & MANTER, 1969  
 Digenea *Siphoderina paracatalae* DURIO & MANTER, 1969  
 Digenea *Siphoderina testitactus* DURIO & MANTER, 1969
- Lutjanus fulviflamma* (Forsskål)**  
 Monopisthocotylea *Euryhaliotrema* sp. KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides patellacirrus*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides tainophallus*  
 KRITSKY et al., 2009  
 Digenea *Hamacreadium mutabile* BRAY & JUSTINE, 2007b  
 Digenea *Lobosorchis tibaldiae* MILLER & CRIBB, 2005  
 Digenea *Retrovarium* sp. MILLER & CRIBB, 2007
- Lutjanus fulvus* (Forster) (as *Lutjanus vaiigiensis* in Manter, junior synonym)**  
 Monopisthocotylea Ancyrocephalidae, unidentified  
 KRITSKY et al., 2009  
 Monopisthocotylea *Euryhaliotrema* sp.  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides longitubocirrus*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides patellacirrus*  
 KRITSKY et al., 2009  
 Digenea *Hexangium sigani* DURIO & MANTER, 1968a
- Digenea *Lecithochirium polynemi* MANTER, 1969  
 Digenea *Siphoderina provitellosus* DURIO & MANTER, 1968b
- Lutjanus kasmira* (Forsskål)**  
 Monopisthocotylea Ancyrocephalidae, unidentified  
 KRITSKY et al., 2009  
 Digenea *Hamacreadium mutabile* BRAY & JUSTINE, 2007b
- Lutjanus quinquelineatus* (Bloch)**  
 Monopisthocotylea Ancyrocephalidae, unidentified  
 KRITSKY et al., 2009  
 Monopisthocotylea *Euryhaliotrema* sp. KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides lanx*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides longitubocirrus*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides patellacirrus*  
 KRITSKY et al., 2009
- Lutjanus russellii* (Bleeker)**  
 Monopisthocotylea *Euryhaliotrema* sp.  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides longitubocirrus*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides patellacirrus*  
 KRITSKY et al., 2009
- Lutjanus vitta* (Quoy & Gaimard)**  
 Monopisthocotylea Ancyrocephalidae, unidentified  
 KRITSKY et al., 2009  
 Monopisthocotylea *Euryhaliotrema* sp. KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides longitubocirrus*  
 KRITSKY et al., 2009  
 Monopisthocotylea *Haliotrematoides patellacirrus*  
 KRITSKY et al., 2009  
 Digenea *Choanostoma secundum* DURIO & MANTER, 1968b  
 Nematoda *Philometra* sp. MORAVEC & JUSTINE, 2008
- Macolor niger* (Forsskål)**  
 Copepoda *Dissonus excavatus* BOXSHALL et al., 2008
- Pristipomoides argyrogrammicus* (Valenciennes) [Deep-sea]**  
 Digenea *Neolebouria blatta* BRAY & JUSTINE, 2009a  
 Copepoda *Lernaeolophus striatus* BOXSHALL & HUYS, 2007
- Pristipomoides filamentosus* (Valenciennes) [Deep-sea]**  
 Nematoda *Cucullanus bourdini* PETER & LE BEL, 1992
- Pristipomoides flavipinnis* Shinohara [Deep-sea]**  
 Nematoda *Cucullanus bourdini* PETER & LE BEL, 1992
- MACROURIDAE**  
***Hymenocephalus gracilis* Gilbert & Hubbs [Deep-sea]**  
 Copepoda *Sarcotretes scopeli* BOXSHALL, 1989
- MONACANTHIDAE**  
***Aluterus monoceros* (Linnaeus)**  
 Digenea *Aponurus laguncula* QUILICHINI et al., 2009b
- MUGILIDAE**  
**Mugilidae**  
 Digenea *Hymenocotta mulli* DURIO & MANTER, 1968a
- MULLIDAE**  
***Mulloidichthys vanicolensis* (Valenciennes)**  
 Monopisthocotylea *Pennulituba cymansis*  
 ŘEHULKOVÁ et al., 2009

- Monopisthocotylea *Pennulituba piratifax*  
ŘEHULKOVÁ et al., 2009
- Monopisthocotylea *Volsellituba elephantina*  
ŘEHULKOVÁ et al., 2009
- Monopisthocotylea *Volsellituba nabra*  
ŘEHULKOVÁ et al., 2009
- Monopisthocotylea *Volsellituba orchidea*  
ŘEHULKOVÁ et al., 2009
- Digenea *Homalometron moravecii*  
BRAY et al., 2007
- Parupeneus multifasciatus* (Quoy & Gaimard)**  
Digenea *Deretrema combesae*  
BRAY & JUSTINE, 2008b
- Digenea *Deretrema combesorum*  
BRAY & JUSTINE, 2008b
- Digenea Didymozoidae, unidentified juveniles  
BRAY & JUSTINE, 2008b
- Digenea *Lecithochirium* sp.  
BRAY & JUSTINE, 2008b
- Digenea *Phyllostomum* sp.  
BRAY & JUSTINE, 2008b
- Parupeneus ciliatus* (Lacépède)**  
Nematoda *Camallanus carangis*  
MORAVEC et al., 2006a
- Upeneus vittatus* (Forsskål)**  
Nematoda *Camallanus carangis*  
MORAVEC et al., 2006a
- Copepoda *Irodes sauridi*  
BOXSHALL & HUYS, 2007
- NEMIPTERIDAE**
- Nemipterus furcosus* (Valenciennes)**  
Turbellaria, unidentified  
JUSTINE et al., 2009b
- Monopisthocotylea *Benedenia* sp.  
JUSTINE & BRENA, 2009
- Polyopisthocotylea Microcotylidae, unidentified  
JUSTINE & BRENA, 2009
- Digenea *Macvicaria jagannathi*  
BRAY & JUSTINE, 2009b
- Digenea *Neolebouria lineatus*  
BRAY & JUSTINE, 2009b
- Nematoda *Camallanus carangis*  
MORAVEC et al., 2006a
- Nematoda *Huffmanella branchialis*  
JUSTINE, 2004
- Nematoda *Raphidascaris (Ichtyiascaris) nemipteri*  
MORAVEC & JUSTINE, 2005a
- Pentapodus aureofasciatus* Russell**  
[***Pentapodus* sp. in Justine, 2004**]  
Monopisthocotylea *Calydiscoides limae*  
JUSTINE & BRENA, 2009
- Polyopisthocotylea Microcotylidae, unidentified  
JUSTINE & BRENA, 2009
- Nematoda *Huffmanella* sp.  
JUSTINE, 2004, 2007b
- Isopoda Gnathiidae, unidentified larva  
JUSTINE & BRENA, 2009
- Scolopsis bilineata* (Bloch)**  
Nematoda *Procamallanus (Spirocamallanus)* sp. 2  
MORAVEC et al., 2006a
- Isopoda Gnathiidae, unidentified larva  
GRUTTER, 1999
- PINGUIPEDIDAE**
- Parapercis hexophtalma* (Cuvier)**  
Nematoda *Procamallanus (Spirocamallanus)* sp. 1  
MORAVEC et al., 2006a
- POMACANTHIDAE**
- Pomacanthus semicirculatus* (Cuvier)**  
Copepoda *Pseudanuretes fortipedis*  
BOXSHALL & HUYS, 2007
- POMACENTRIDAE**
- Chromis viridis* (Cuvier)**  
Turbellaria, unidentified  
JUSTINE et al., 2009b
- PRIACANTHIDAE**
- Priacanthus hamrur* (Forsskål)**  
Digenea *Dupliciporia lanterna*  
BRAY & JUSTINE, 2008a
- Digenea *Parahemiurus merus*  
BRAY & CRIBB, 2005
- Nematoda *Philometra priacanthi*  
MORAVEC & JUSTINE, 2009a
- Copepoda *Norion priacanthi*  
BOXSHALL & HUYS, 2007
- SCARIDAE**
- Scaridae? “Brown-blotched parrot fish” [Probably erroneous for Labridae]**  
Digenea *Intusatrium secundum*  
DURIO & MANTER, 1968b
- Scarus* (= *Callyodon*) sp.**  
Digenea *Lecithaster testilobatus*  
MANTER, 1969
- SCOMBRIDAE**
- Acanthocybium solandri* (Cuvier)**  
Polyopisthocotylea *Neothoracocotyle acanthocybii*  
ROHDE et al., 1980
- Copepoda *Brachiella thynni*  
ROHDE et al., 1980
- Copepoda *Caligus productus*  
ROHDE et al., 1980
- Copepoda *Gloiopotes hygomianus*  
BOXSHALL & HUYS, 2007
- Katsuwonus pelamis* (Linnaeus)**  
Polyopisthocotylea *Alloposeudaxine* sp.  
ROHDE et al., 1980
- Polyopisthocotylea *Alloposeudaxinoides vagans*  
ROHDE et al., 1980
- Digenea *Syncoelium filiferum*  
ROHDE et al., 1980
- Nematoda *Ctenascaphis lesteri*  
CRITES et al., 1993
- Copepoda *Caligus bonito*  
ROHDE et al., 1980
- Copepoda *Caligus productus*  
ROHDE et al., 1980
- Rastrelliger kanagurta* (Cuvier)**  
Copepoda *Pumiliopes capitulatus*  
BOXSHALL & HUYS, 2007
- Scomberomorus commerson* (Lacépède)**  
Copepoda *Caligus infestans*  
BOXSHALL & HUYS, 2007
- Thunnus albacares* (Bonnaterre)**  
Copepoda *Caligus bonito*  
BOXSHALL & HUYS, 2007
- Copepoda *Pseudocycnus appendiculatus*  
BOXSHALL & HUYS, 2007
- SCOMBRIDAE “mackerel”**  
Digenea *Lecithocladium aegyptensis*  
MANTER, 1969
- SCORPAENIDAE**
- Dendrochirus zebra* (Cuvier)**  
C. Trypanorhyncha *Nybelinia syngenes*  
PALM, 2004;  
PALM & BEVERIDGE, 2002
- Scorpaenidae Gen. sp. (recruiting larvae)**  
Digenea Didymozoidae larva A  
CRIBB et al., 2000
- SERRANIDAE**
- Cephalopholis argus* Bloch & Schneider**  
Monopisthocotylea *Pseudorhabdosynochus argus*  
JUSTINE, 2007d
- Isopoda Gnathiidae, unidentified larva  
JUSTINE, 2007d
- Cephalopholis aurantia* × *C. spiloparaea* (Hybrid, cf. Randall & Justine, 2008a)**  
C. Bothriocephalidea *Bothriocephalus celineae*  
KUCHTA et al., 2009a

- C. Bothriocephalidea *B. celineae* [as pseudophyll. cestode]  
RANDALL & JUSTINE, 2008a
- Copepoda, unidentified larvae RANDALL & JUSTINE, 2008a
- Cephalopholis boenak* Bloch**  
Isopoda Gnathiidae, unidentified larva JUSTINE, 2007d
- Cephalopholis sonnerati* (Valenciennes)**  
Monopisthocotylea *Pseudorhabdosynochus minutus* JUSTINE, 2007d  
Monopisthocotylea *Diplectanum nanus* JUSTINE, 2007d  
Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007d  
Copepoda, unidentified larva JUSTINE, 2007d  
Isopoda Gnathiidae, unidentified larva JUSTINE, 2007d
- Cephalopholis urodeta* (Forster)**  
Monopisthocotylea *Diplectanum parvus* JUSTINE, 2008a  
Digenea, unidentified JUSTINE, 2008a  
C. Tetracyllidea larvae, unidentified JUSTINE, 2008a  
C. Trypanorhyncha *Floriceps minacanthus* JUSTINE, 2008a  
Nematoda Anisakidae larvae, unidentified JUSTINE, 2008a  
Copepoda, unidentified JUSTINE, 2008a  
Isopoda Gnathiidae, unidentified larva JUSTINE, 2008a
- Epinephelus areolatus* (Forsskål)**  
Nematoda *Philometra ocularis*  
MORAVEC & JUSTINE, 2008, 2009a
- Epinephelus chlorostigma* (Valenciennes) [Deep-sea]**  
Monopisthocotylea *Pseudorhabdosynochus epinepheli* JUSTINE, 2009b  
Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007
- Epinephelus coioides* (Hamilton)**  
C. Trypanorhyncha *Pseudogilquinia pillersi*  
BEVERIDGE et al., 2007  
Nematoda *Philometra ocularis* MORAVEC & JUSTINE, 2005b
- Epinephelus coeruleopunctatus* (Bloch)**  
Monopisthocotylea *Haliotrema* sp. SIGURA et al., 2007  
Monopisthocotylea *Pseudorhabdosynochus bacchus*  
SIGURA et al., 2007  
Monopisthocotylea *Pseudorhabdosynochus* spp.  
SIGURA et al., 2007  
Digenea *Cainocreadium epinepheli* BRAY & JUSTINE, 2007b  
Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007  
as Copepoda, unidentified SIGURA et al., 2007
- Epinephelus cyanopodus* (Richardson)**  
Monopisthocotylea *Allobenedenia* sp.  
SIGURA & JUSTINE, 2008  
Monopisthocotylea *Haliotrema* sp. SIGURA & JUSTINE, 2008  
Monopisthocotylea *Laticola cyanus* SIGURA & JUSTINE, 2008  
Monopisthocotylea *Pseudorhabdosynochus chauveti*  
SIGURA & JUSTINE, 2008  
Monopisthocotylea *Pseudorhabdosynochus cyanopodus*  
SIGURA & JUSTINE, 2008  
Monopisthocotylea *Pseudorhabdosynochus duitoe*  
SIGURA & JUSTINE, 2008  
Monopisthocotylea *Pseudorhabdosynochus exoticus*  
SIGURA & JUSTINE 2008  
Monopisthocotylea *Pseudorhabdosynochus huitoe*  
SIGURA & JUSTINE, 2008  
Monopisthocotylea *Pseudorhabdosynochus podocyanus*  
SIGURA & JUSTINE, 2008  
Digenea *Allopodocotyle epinepheli* BRAY & JUSTINE, 2007b
- Digenea *Cainocreadium epinepheli* SIGURA & JUSTINE, 2008  
Digenea Didymozoidae unidentified sp.1  
SIGURA & JUSTINE, 2008  
Digenea Didymozoidae unidentified sp.2  
SIGURA & JUSTINE, 2008  
Digenea *Erilepturus hamati* MANTER, 1969;  
SIGURA & JUSTINE, 2008  
C. Tetracyllidea, unidentified larvae SIGURA & JUSTINE, 2008  
C. Trypanorhyncha *Floriceps minacanthus*  
SIGURA & JUSTINE, 2008  
C. Trypanorhyncha *Pseudolacistorhynchus heroniensis*  
SIGURA & JUSTINE, 2008  
Nematoda *Philometra cyanopodi* [as *Ph. lateolabracis*]  
MORAVEC & JUSTINE, 2005b  
Nematoda *Philometra cyanopodi* MORAVEC & JUSTINE, 2008  
Nematoda *Philometra ocularis* MORAVEC & JUSTINE, 2005b  
Nematoda *Procamallanus* sp. SIGURA & JUSTINE, 2008  
Nematoda *Terranova* sp., larvae SIGURA & JUSTINE, 2008  
Copepoda *Dissonus manteri* BOXSHALL et al., (2008)  
Copepoda *Hatschekia cernae* SIGURA & JUSTINE, 2008  
Copepoda *Hatschekia* sp. (2 species)  
SIGURA & JUSTINE, 2008  
Copepoda Pennellidae, unidentified larvae  
SIGURA & JUSTINE, 2008  
Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007;  
SIGURA & JUSTINE, 2008  
Isopoda Gnathiidae, unidentified larva  
SIGURA & JUSTINE, 2008  
Isopoda *Argathona rhinoceros* SIGURA & JUSTINE, 2008
- Epinephelus fasciatus* (Forsskål)**  
Turbellaria, unidentified JUSTINE et al., 2009b  
Monopisthocotylea *Benedenia* cf. *epinepheli* JUSTINE, 2005b  
Monopisthocotylea *Pseudorhabdosynochus caledonicus*  
HINSINGER & JUSTINE, 2006a;  
JUSTINE, 2005b  
Monopisthocotylea *Pseudorhabdosynochus youngi*  
JUSTINE et al., 2009a  
Monopisthocotylea *Ps. youngi* [as *Ps. cupatus*]  
HINSINGER & JUSTINE, 2006a;  
JUSTINE, 2005b  
Digenea *A. novaecaledoniae* [as *Siphoderina elongata*]  
QUILICHINI et al., 2009a  
Digenea *Adlardia novaecaledoniae* MILLER et al., 2009  
Digenea *Allopodocotyle epinepheli* BRAY & JUSTINE, 2007b  
Digenea *Cainocreadium epinepheli* BRAY & JUSTINE, 2007b  
Digenea *Helicometra epinepheli* BRAY & JUSTINE, 2007b  
Digenea *Lepidapedoides angustus* BRAY & JUSTINE, 2006a  
Nematoda *Philometra fasciati* [as *Ph. lateolabracis*]  
MORAVEC & JUSTINE, 2005b  
Nematoda *Philometra fasciati* MORAVEC & JUSTINE, 2008  
Nematoda *Procamallanus (Spirocamallanus) variolae*  
MORAVEC et al., 2006a  
Copepoda *Hatschekia* sp. JUSTINE, 2005b
- Epinephelus fuscoguttatus* (Forsskål)**  
Monopisthocotylea Capsalidae Trochopodinae Gen. sp. 4  
PERKINS et al., 2009
- Epinephelus howlandi* (Günther)**  
Monopisthocotylea *Pseudorhabdosynochus venus*  
HINSINGER & JUSTINE, 2006b  
Monopisthocotylea *Pseudorhabdosynochus cyathus*  
HINSINGER & JUSTINE, 2006a



***Epinephelus maculatus* (Bloch)**

- Monopisthocotylea *Diplectanum uitoe* JUSTINE, 2007c  
 Monopisthocotylea *Haliotrema epinepheli* JUSTINE, 2007c  
 Monopisthocotylea *Haliotrema* sp. JUSTINE, 2007c  
 Monopisthocotylea *Laticola dae* JOURNO & JUSTINE, 2006  
 Monopisthocotylea *Pseudorhabdosynochus auitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus buitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus cuitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus duitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus euitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus fuitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus guitoe*  
 JUSTINE, 2007c  
 Monopisthocotylea *Pseudorhabdosynochus huitoe*  
 JUSTINE, 2007c  
 Digenea Didymozoidae, unidentified adult  
 JOURNO & JUSTINE, 2006  
 Copepoda *Dissonus manteri* BOXSHALL et al., 2008;  
 JOURNO & JUSTINE, 2006  
 Copepoda *Hatschekia* sp. (2 species) JOURNO & JUSTINE, 2006  
 Isopoda Gnathiidae, unidentified larva JOURNO & JUSTINE, 2006

***Epinephelus malabaricus* (Bloch & Schneider)**

- Monopisthocotylea *Diplectanum maa* JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus* cf.  
*shenzhenensis* JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus maaensis*  
 JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus*  
*malabaricus* JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus manifestus*  
 JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus manipulus*  
 JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus marcellus*  
 JUSTINE & SIGURA, 2007  
 Monopisthocotylea *Pseudorhabdosynochus maternus*  
 JUSTINE & SIGURA, 2007  
 Digenea *Cainocreadium* sp. JUSTINE & SIGURA, 2007  
 Digenea *Prosorhynchus maternus* BRAY & JUSTINE, 2006b  
 C. Trypanorhyncha *Pseudogilquinia pillersi*  
 BEVERIDGE et al., 2007  
 C. Trypanorhyncha *Pseudotobothrium dipsacum*  
 JUSTINE & SIGURA, 2007  
 Copepoda *Hatschekia* sp. JUSTINE & SIGURA, 2007

***Epinephelus merra* (Bloch)**

- Monopisthocotylea *Benedenia* sp. HINSINGER & JUSTINE, 2006a  
 Monopisthocotylea *Pseudorhabdosynochus* cf.  
*coioidesis* HINSINGER & JUSTINE, 2006a  
 Monopisthocotylea *Pseudorhabdosynochus*  
*melanesiensis* HINSINGER & JUSTINE, 2006a;  
 JUSTINE, 2005b  
 Digenea *Allopodocotyle epinepheli* BRAY & JUSTINE, 2007b  
 Digenea *Helicometra epinepheli* BRAY & JUSTINE, 2007b  
 Digenea *Helicometra fasciata* RIGBY et al., 1997  
 Digenea *Lepidapedoides angustus* RIGBY et al., 1997  
 C. Tetrathyllidea '*Scolex polymorphus*'  
 RIGBY et al., 1997

- C. Trypanorhyncha larvae RIGBY et al., 1997  
 Copepoda *Aethon* sp. BOXSHALL & HUYS, 2007  
 Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007

***Epinephelus morrhua* (Valenciennes) [Deep-sea]**

- Isopoda Gnathiidae, unidentified larva JUSTINE, 2008c  
 Monopisthocotylea *Haliotrema* sp. JUSTINE, 2008c  
 Monopisthocotylea *Pseudorhabdosynochus morrhua*  
 JUSTINE, 2008c  
 Monopisthocotylea *Pseudorhabdosynochus variabilis*  
 JUSTINE, 2008c  
 C. Trypanorhyncha, unidentified larva JUSTINE, 2008c  
 Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007

***Epinephelus rivulatus* (Valenciennes)**

- Monopisthocotylea *Pseudorhabdosynochus calathus*  
 HINSINGER & JUSTINE, 2006a  
 Monopisthocotylea *Pseudorhabdosynochus inversus*  
 JUSTINE, 2008b  
 Nematoda *Philometra ocularis* MORAVEC & JUSTINE, 2005b  
 Isopoda Gnathiidae, unidentified larva  
 HINSINGER & JUSTINE, 2006a

***Epinephelus* sp.**

- Digenea *Neidhartia coronata* DURIO & MANTER, 1968a  
 Digenea *Prosorhynchus freitasi* DURIO & MANTER, 1968a  
 Digenea *Pacificreadium serrani* DURIO & MANTER, 1968b  
 Digenea *Lecithochirium magnaporum* MANTER, 1969  
 Digenea *Erilepturus tiegsi* MANTER, 1969

***Epinephelus* sp. "Red Cod"**

- Digenea *Helicometra fasciata* DURIO & MANTER, 1968b  
 Digenea *Lepidapedoides dollfusi* (as *Neolepidapedon*  
*dollfusi*) DURIO & MANTER, 1968b  
 Digenea *Stephanostomum japonocasum*  
 DURIO & MANTER, 1969

***Epinephelus* sp. "Spotted Grouper"**

- Digenea *Lepidapedoides dollfusi* (as *Neolepidapedon*  
*dollfusi*) DURIO & MANTER, 1968b

***Grammistes* sp.**

- Isopoda *Nerocila excisa* TRILLES, 1972

***Plectropomus laevis* (Lacépède)**

- Monopisthocotylea *Echinoplectanum chauvetorum*  
 JUSTINE & EUZET, 2006  
 Monopisthocotylea *Echinoplectanum laeve*  
 JUSTINE & EUZET, 2006  
 C. Trypanorhyncha *Pseudogilquinia pillersi*  
 BEVERIDGE et al., 2007  
 Copepoda *Dissonus manteri* BOXSHALL et al., 2008  
 Copepoda *Hatschekia* cf. *plectropomi*  
 BOXSHALL & HUYS, 2007

- Isopoda *Argathona macronema* JUSTINE & EUZET, 2006

***Plectropomus leopardus* (Lacépède)**

- Monopisthocotylea Capsalidae Trochopodinae Gen. sp.  
 JUSTINE & EUZET, 2006;  
 PERKINS et al., 2009  
 Monopisthocotylea *Echinoplectanum leopardi*  
 JUSTINE & EUZET, 2006  
 Monopisthocotylea *Echinoplectanum pudicum*  
 JUSTINE & EUZET, 2006  
 Monopisthocotylea *Echinoplectanum rarum*  
 JUSTINE & EUZET, 2006

- Digenea Pacificreadium serrani* BRAY & JUSTINE, 2007b  
 Copepoda *Dissonus manteri* BOXSHALL et al., 2008  
 Copepoda *Hatschekia* cf. *plectropomi* BOXSHALL & HUYS, 2007  
 Copepoda *Sagum epinepheli* BOXSHALL & HUYS, 2007  
 Isopoda *Argathona rhinoceros* JUSTINE & EUZET, 2006
- Pseudogramma* sp. (recruiting larvae)**  
*Digenea* Didymozoidae larva A CRIBB et al., 2000  
*Digenea* Hemiuroidae *Ectenurus* sp. adult CRIBB et al., 2000
- Serranidae (“leche”/ loche) several species?**  
*Digenea Allopodocotyle serrani* DURIO & MANTER, 1968b  
*Digenea Myorhynchus pritchardae* DURIO & MANTER, 1968a  
*Digenea Prosorhynchus longisaccatus* DURIO & MANTER, 1968a
- Serranidae “unidentified serranid”**  
*Digenea Stephanostomum japonocasum* DURIO & MANTER, 1969
- Serranidae “mottled grouper”**  
*Digenea Erilepturus tiegsi* MANTER, 1969
- Variola albimarginata* Baissac**  
 Monopisthocotylea *Haliotrema epinepheli* JUSTINE, 2005c  
 Nematoda *Procamallanus (Spirocamallanus) variolae* MORAVEC et al., 2006a
- Variola louti* (Forsskål)**  
 Monopisthocotylea *Haliotrema epinepheli* JUSTINE, 2005c  
 Monopisthocotylea *Pseudorhabdosynochus hirundineus* JUSTINE, 2005c  
*Digenea Cainocreadium epinepheli* BRAY & JUSTINE, 2007b  
*Digenea Prosorhynchus serrani* DURIO & MANTER, 1968a  
 Nematoda *Philometra ocularis* MORAVEC & JUSTINE, 2005b
- SIGANIDAE**  
***Siganus argenteus* (Quoy & Gaimard)**  
*Digenea Ptychogyliauchen thistilbardi* HALL & CRIBB, 2004a
- Siganus canaliculatus* (Park)**  
 as *Siganus oramin*  
 Monopisthocotylea *Tetrancistrum sigani* (as *T. nebulosi*) YOUNG, 1967a  
*Digenea Ptychogyliauchen thistilbardi* HALL & CRIBB, 2004a
- Siganus corallinus* (Valenciennes)**  
*Digenea Ptychogyliauchen thistilbardi* HALL & CRIBB, 2004a
- Siganus doliatus* Guérin-Méneville**  
*Digenea Hysterolecithoides frontilatus* BRAY & CRIBB, 2000b  
*Digenea Ptychogyliauchen thistilbardi* HALL & CRIBB, 2004a  
 Nematoda Capillariidae Gen. sp. MORAVEC, 2001
- Siganus fuscescens* (Houttuyn) as *Siganus nebulosus***  
 Monopisthocotylea *Tetrancistrum sigani* (as *T. nebulosi*) YOUNG, 1967a
- Siganus spinus* (Linnaeus)**  
*Digenea Ptychogyliauchen thistilbardi* HALL & CRIBB, 2004a
- Siganus* sp.**  
 Monopisthocotylea *Tetrancistrum sigani* (as *T. nebulosi*) YOUNG, 1967a
- Digenea Atractotrema sigani* DURIO & MANTER, 1969  
*Digenea Gyliauchen papillatus* DURIO & MANTER, 1969  
*Digenea Hexangium sigani* DURIO & MANTER, 1968a  
*Digenea Hysterolecitha sigani* MANTER, 1969  
*Digenea Paracryptogonimus saccatus* DURIO & MANTER, 1969  
*Digenea Theletrum frontilatum* MANTER, 1969
- SILLAGINIDAE**  
***Sillago sihama* (Forsskål)**  
 Polyopisthocotylea *Polylabris sillaginae* HAYWARD, 1996
- SPHYRAENIDAE**  
***Sphyaena barracuda* (Edwards)**  
 Copepoda *Caligus lobodes* BOXSHALL & HUYS, 2007
- Sphyaena forsteri* Cuvier**  
 Copepoda *Hatschekia sphyaeni* BOXSHALL & HUYS, 2007
- Sphyaena* sp. (recruiting larvae)**  
 Monopisthocotylea Capsalidae larva CRIBB et al., 2000
- SYNAPHOBRANCHIDAE**  
***Synaphobranchus* cf. *brevadorsalis* Günther [Deep-sea]**  
 Copepoda *Laminohatschekia synaphobranchi* BOXSHALL, 1989  
 Copepoda *Lophoura cornuta* BOXSHALL, 1989
- SYNODONTIDAE**  
***Saurida nebulosa* Valenciennes**  
 C. Bothriocephalidea *Oncodiscus sauridae* KUCHTA et al., 2009b
- Saurida undosquamis* (Richardson)**  
 C. Bothriocephalidea *Oncodiscus sauridae* KUCHTA et al., 2009b
- Synodus similis* McCulloch**  
 Copepoda *Metataeniacanthus vulgaris* BOXSHALL & HUYS, 2007
- Synodus variegatus* (Lacépède)**  
 Copepoda *Metataeniacanthus vulgaris* BOXSHALL & HUYS, 2007
- Synodontidae Gen. sp. (recruiting larvae)**  
*Digenea* Didymozoidae larva A CRIBB et al., 2000
- Synodontidae Gen. sp. 1 (recruiting larvae)**  
*Digenea* Didymozoidae larva C CRIBB et al., 2000  
*Digenea Erilepturus* sp. immature CRIBB et al., 2000
- Synodontidae Gen. sp. 2 (recruiting larvae)**  
*Digenea Ectenurus* sp. immature CRIBB et al., 2000
- Synodontidae Gen. sp. 3 (recruiting larvae)**  
 Cestoda metacestode CRIBB et al., 2000
- TETRAODONTIDAE**  
***Lagocephalus sceleratus* (Gmelin)**  
 Nematoda *Philometra lagocephali* MORAVEC & JUSTINE, 2008  
 Nematoda *Philometra tenuicauda* MORAVEC & JUSTINE, 2009a  
 Copepoda *Taeniacanthus kitamakura* BOXSHALL & HUYS, 2007
- TRICHIURIDAE**  
***Assurger anzac* (Alexander)**  
 Copepoda *Avitocaligus assurgericola* BOXSHALL & JUSTINE, 2005

TABLE 3

Species of fish parasites recorded from New Caledonia. From the parasite-host list in Table 1. The total of Platyhelminthes species is 240 (65% of the total).

Group	Families	Species
Turbellaria	1	1
Monopisthocotylea	4	98 (27%)
Polyopisthocotylea	5	8
Digenea	20	105 (29%)
Cestoda Bothriocephalidea	1	2
Cestoda Tetrathyllidea	1	6
Cestoda Trypanorhyncha	5	20
Nematoda	10	41 (11%)
Copepoda	13	61 (16%)
Isopoda	4	27 (7%)
Acanthocephala	1	1
Hirudinea	1	1
<b>Total</b>		<b>371</b>

TABLE 4

Biodiversity of parasites in three species of groupers (Family Serranidae). First number is the number of species recorded in New Caledonia; second number in parenthesis is the total number of species recorded in all locations. From JUSTINE & SIGURA (2007). 'Others' include Hirudinea and Acanthocephala.

	Monogenea	Digenea	Cestoda	Nematoda	Copepoda	Isopoda	Others	Total
<i>Epinephelus maculatus</i>	12 (12)	7 (7)	1 (2)	1 (1)	3 (3)	1 (1)	0 (0)	25 (26)
<i>Epinephelus cyanopodus</i>	6 (7)	4 (10)	2 (2)	4 (8)	5 (5)	2 (2)	0 (0)	23 (34)
<i>Epinephelus malabaricus</i>	11 (15)	2 (11)	2 (3)	1 (4)	2 (8)	0 (1)	0 (2)	18 (44)

TABLE 5

Available references on fish parasites in the Indo-Pacific Region. Some studies may include freshwater fish and their parasites. Protozoa are included in all studies except the present one.

Reference	Parasite groups	Locality	Number of fish species with parasites	Number of fish species present	Number of parasites
Arthur & Te, 2006	all	Viet Nam	130	1300 *	453
Arthur & Lumanlan Mayo, 1997	all	Philippines	172	2030 *	201
Arthur & Ahmed, 2002	all	Bangladesh	85	528 *	147
Beumer et al., 1983	all	Australia (including Antarctic territories)	448	? *	496
Lester & Sewell, 1989	all	Heron Island, Australia	122	ca 2,000	ca 300 species ** 580 records
<b>This study</b>	<b>Metazoa</b>	<b>New Caledonia</b>	<b>195</b>	<b>ca 2,000</b>	<b>371 species 580 records</b>

\* include freshwater fishes \*\* difficult to evaluate since many identifications are at the family level only.

Includes ca 140 species of monogeneans.

TABLE 6  
Numerical evaluations of fish parasite biodiversity in the literature.

Parasite groups	Number of parasite per fish species	Total number of parasites	Comment	Reference
Monogeneans	3	882	Marine fish, Peninsular Malaysia	Lim, 1998
Monogeneans	5		Estimate, freshwater fishes, neotropics	Kritsky in Whittington, 1998
Monogeneans	1	25,000 species in the World	considered an underestimate by author	Whittington, 1998
Digeneans	2.73	3,800 in 2,000 fish species	Great Barrier Reef, Australia	Cribb & Bray, 1998
All Metazoa	3.1		Marine fish, German coastal waters	Palm & Klimpel, 2006
All Metazoa	5.4		Marine fish, Canada	Poulin, 2004
All Metazoa	3.0		Marine fish, New Zealand	Poulin, 2004
All, including Protozoa	20 *	20,000 for 1,000 fish species	Marine fish, Heron Island, Queensland, Australia	Rohde, 1976

\* not expressly indicated in the text; calculated.

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