

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. Tetraphylidean 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

TURBELLARIA			
1 family recorded; 1 species recorded + unidentified species			
GENOSTOMATIDAE			
<i>Piscinquilinus</i> sp.			
<i>Naso unicornis</i>		JUSTINE et al., 2009b	
UNKNOWN FAMILY			
<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	
MONOGENEA MONOPISTHOCOTYLEA			
alphabetical order of families and species;			
4 families recorded; 98 species recorded + unidentified species			
ANCYROCEPHALIDAE			
<i>Aliatrema cribbi</i> Plaisance & Kritsky, 2004			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<i>Heniochus chrysostomus</i>		PLAISANCE & KRITSKY, 2004	
<i>Euryhaliotrematoides annulicirrus</i> (Yamaguti, 1968) Plaisance & Kritsky, 2004			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<i>Euryhaliotrematoides aspitis</i> Plaisance & Kritsky, 2004			
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<i>Euryhaliotrematoides grandis</i> (Mizelle & Kritsky, 1969) Plaisance & Kritsky, 2004			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Chaetodon vagabundus</i>		PLAISANCE & KRITSKY, 2004	
<i>Euryhaliotrematoides microphallus</i> (Yamaguti, 1968) Plaisance & Kritsky, 2004			
<i>Heniochus chrysostomus</i>		PLAISANCE & KRITSKY, 2004	
<i>Euryhaliotrematoides pirulum</i> Plaisance & Kritsky, 2004			
<i>Chaetodon auriga</i>		PLAISANCE & KRITSKY, 2004	
<i>Haliotrema aurigae</i> (Yamaguti, 1968) Plaisance, Bouamer & Morand, 2004			
<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	
<i>Haliotrema banana</i> Lim & Justine, 2007			
<i>Bodianus perditio</i>		LIM & JUSTINE, 2007	
<i>Haliotrema epinepheli</i> Young, 1968			
<i>Epinephelus maculatus</i>		JUSTINE, 2007c	
<i>Variola albimarginata</i>		JUSTINE, 2005c	
<i>Variola louti</i>		JUSTINE, 2005c	
<i>Haliotrema</i> spp.			
<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
<i>Euryhaliotrema</i> spp.			
<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
<i>Haliotrematoides longitubocirrus</i> (Bychowsky & Nagibina, 1971) Kritsky, Yang & Sun, 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
<i>Haliotrematoides patellacirrus</i> (Bychowsky & Nagibina, 1971) Kritsky, Yang & Sun, 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
<i>Haliotrematoides tainophallus</i> Kritsky & Justine, 2009 in Kritsky, Yang & Sun			
<i>Lutjanus fulviflamma</i>			KRITSKY et al., 2009
<i>Haliotrematoides potens</i> Kritsky & Justine, 2009 in Kritsky, Yang & Sun			
<i>Lutjanus argentimaculatus</i>			KRITSKY et al., 2009
<i>Haliotrematoides novaecaledoniae</i> Kritsky & Justine, 2009 in Kritsky, Yang & Sun			
<i>Lutjanus argentimaculatus</i>			KRITSKY et al., 2009
<i>Haliotrematoides lanx</i> Kritsky & Justine, 2009 in Kritsky, Yang & Sun			
<i>Lutjanus quinquelineatus</i>			KRITSKY et al., 2009
<i>Pennulituba cymansis</i> Řehulková, Justine & Gelnar, 2009			
<i>Mulloidichthys vanicolensis</i>			ŘEHULKOVÁ et al., 2009
<i>Pennulituba piratifalx</i> Řehulková, Justine & Gelnar, 2009			
<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 quinquelineatus 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**
Sphyaena 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 terpsichore* 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 & Hargis, 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 moraveci* 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
- Prosrhynchus 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
- Gyliauchen papillatus* (Goto & Matsudaira, 1918) Goto, 1919**
Siganus sp. DURIO & MANTER, 1969
- Ptychogyliuchen 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
- Hysterolecitha sigani* Manter, 1969**
Siganus sp. MANTER, 1969
- Hysterolecithoides 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” [ertoneous]
 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 longitestis 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
- ONCHOBOTHRIDAE**
***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
- OTOBOTHRIDAE**
***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
- PSEUDOTOBOTHRIDAE**
***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
Zebрасoma 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. *brevadorsalis* 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
- IPOPODA**
(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
- Elthusa arnoglossi* Trilles & Justine, 2006
Arnoglossus sp. TRILLES & JUSTINE, 2006
- Elthusa parabothi* 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. Tetracyllidea, 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. Tetracyllidea <i>Acanthobothrium aetiobatis</i>	BAER & EUZET, 1962
Nematoda <i>Echinocephalus sinensis</i>	MORAVEC & JUSTINE, 2006b

SQUALIDAE

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

C. Tetracyllidea, 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 & JUSTINE, 2006

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

BEVERIDGE & JUSTINE, 2006

Copepoda *Pseudopandarus gracilis* BOXSHALL & HUYS, 2007Isopoda *Aega angustata* TRILLES & JUSTINE, 2004

STEGOSTOMATIDAE

Stegostoma fasciatum (Hermann)C. Trypanorhyncha *Hornelliella annandalei*

BEVERIDGE & JUSTINE, 2007b

C. Trypanorhyncha *Mixonybelinia southwelli*

BEVERIDGE & JUSTINE, 2007b

C. Trypanorhyncha *Pseudolacistorhynchus heroniensis*

BEVERIDGE & JUSTINE, 2007b

C. Trypanorhyncha *Pseudolacistorhynchus nanus*

BEVERIDGE & 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 ValenciennesDigenea *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 & 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 & 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 & MANTER, 1968a

BALISTIDAE

Abalistes filamentosus Matsuura & Yoshino

Copepoda, unidentified RANDALL & JUSTINE, 2008b

Isopoda Gnathiidae, unidentified larva

RANDALL & JUSTINE, 2008b

Abalistes stellatus Anonymous (ex Commerson)Digenea *Cableia balistidicola* BRAY et al., 2009bNematoda Rhabdochonidae [as female *H. balista*, erroneous] JUSTINE, 2007b, This paperNematoda *Huffmanella balista*, male JUSTINE, 2007bCopepoda *Hatschekia balistae* BOXSHALL & HUYS, 2007Copepoda *Metataeniacanthus vulgaris*

BOXSHALL & HUYS, 2007

Copepoda *Taeniacanthus aluteri* BOXSHALL & HUYS, 2007**Balistoidea conspicillum (Bloch & Schneider)**Copepoda *Hatschekia balistae* BOXSHALL & HUYS, 2007**Pseudobalistes fuscus (Bloch & Schneider)**

Monopisthocotylea Trochopodinae Gen. sp. 1 PERKINS et al., 2009

Digenea Acanthocolpidae, unidentified

BRAY & JUSTINE, 2007b

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

BRAY & JUSTINE, 2007b

Digenea *Cableia balistidicola*

BRAY et al., 2009b

Digenea *Hypocreadium toombo*

BRAY & JUSTINE, 2006a

Digenea Lepocreadiidae, unidentified

BRAY & JUSTINE, 2007b

Digenea *Lobatocreadium exiguum*

BRAY & JUSTINE, 2006a

Digenea *Pseudopycnadena tendu*

BRAY & JUSTINE, 2007b

Digenea *Sphincteristomum acollum*

BRAY & JUSTINE, 2007b

Digenea *Stephanostomum* sp.

BRAY & JUSTINE, 2007b

Copepoda *Dissonus heronensis*

BOXSHALL et al., 2008

Copepoda *Hatschekia balistae*

BOXSHALL & 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 crumenophtalmus* (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, 1968bPlectorhinchus 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, 2009bSargocentron 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 & JUSTINE, 2007

Nematoda *Huffmanella ossicola* JUSTINE, 2007b;

LIM & JUSTINE, 2007

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

LIM & JUSTINE, 2007

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

Isopoda Gnathiidae, unidentified larva LIM & JUSTINE, 2007

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

Turbellaria, unidentified JUSTINE et al., 2009b

Choerodon graphicus* (De Vis)**Digenea *Postlepidapedon secundum* BRAY & JUSTINE, 2006aHemigymnus 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, 2004Thalassoma 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 piratifa*
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 moraveci*
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**
- Paraperis hexophthalma* (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 *Allospseudaxine* sp.
ROHDE et al., 1980
- Polyopisthocotylea *Allospseudaxinoides vagans*
ROHDE et al., 1980
- Digenea *Syncoelium filiferum*
ROHDE et al., 1980
- Nematoda *Ctenascarophis 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 parvum* 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. Tetracyllidae '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-seal]**

- 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 *Ereilepturus 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**
***Sphyraena barracuda* (Edwards)**
 Copepoda *Caligus lobodes* BOXSHALL & HUYS, 2007
- Sphyraena forsteri* Cuvier**
 Copepoda *Hatschekia sphyraeni* BOXSHALL & HUYS, 2007
- Sphyraena* 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 Tetrphyllidea	1	6
Cestoda Trypanorhyncha	5	20
Nematoda	10	41 (11%)
Copepoda	13	61 (16%)
Isopoda	4	27 (7%)
Acanthocephala	1	1
Hirudinea	1	1
Total		371

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
This study	Metazoa	New Caledonia	195	ca 2,000	371 species 580 records

* 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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