

Review Article

Coral Reef Fishes of Indonesia

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ABSTRACT

Gerald R. Allen and Mohammed Adrim (2003) Coral Reef Fishes of Indonesia. *Zoological Studies* 42(1): 1-72. The Indonesian Archipelago has an extensive history of ichthyological exploration dating back to visits by the French vessels *L'Uranie* (1818-1819), *La Coquille* (1823), and *L'Astrolabe* (1826). Thanks largely to the exhaustive works of Pieter Bleeker (1819-1878), an extensive knowledge of Indonesian fishes existed at the beginning of the last century. Weber and de Beaufort continued to build on this foundation in their landmark publication *Fishes of the Indo-Australian Archipelago*, published in 11 volumes between 1911 and 1962. By the time the last volume was published, it was evident that the East Indian region and Indonesia in particular was endowed with the world's richest coral reef fauna. Although this claim has been confirmed by recent studies of several families and genera, there has been no comprehensive study of the Indonesian reef fish fauna in recent times. The present work, which includes a checklist, provides a detailed analysis. The current reef fauna consists of 2057 species belonging to 113 families. The 10 most-speciose groups, which account for approximately 56% of the fauna, are the Gobiidae (272 species), Labridae (178), Pomacentridae (152), Apogonidae (114), Blenniidae (107), Serranidae (102), Muraenidae (61), Syngnathidae (61), Chaetodontidae (59), and Lutjanidae (43). A zoogeographic analysis reveals that the majority (about 39%) of species are widely distributed either in the Indo-West Pacific or Indo-West and central Pacific, 23% are primarily distributed in the western and central Pacific, 15% (excluding endemics) range across the Indo-Australian Archipelago or portions of this region, 5% have primarily Indian Ocean ranges, and 4.7% are endemic to Indonesia. Analysis of current distributions indicates the presence of at least 4 regional "hotspots" or centers of endemism including the West Nusa Tenggara Is., East Nusa Tenggara Is., northeastern Sulawesi (and offshore islands), and Papua (formerly Irian Jaya). In addition, there are 8 localized centers within these 4 regions: Flores, Togean Is., western and northern Sumatra, Komodo, Raja Ampat Is., Molucca Is., Java Sea, and Banggai Is. Most of the endemics (about 75%) are included in only 8 families: Pseudochromidae, Blenniidae, Pomacentridae, Apogonidae, Labridae,

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Syngnathidae, Gobiidae, and Callionymidae. Possible key factors for the proliferation of coral reef species in the East Indian region (i.e., Indonesia and surrounding areas) include its huge continuous area and abundance of island "stepping stones" (forming a buffer against extinction), the merging of disparate geological and biological elements due to tectonic activity, a long history of warm sea temperatures, and fluctuating sea levels during past glacial periods that formed effective isolating barriers and allowed the evolution of geminate species. Biological factors also appear to be significant. Numerous species with a reduced pelagic larval period have apparently evolved and accumulated in the region. There also appears to be an accumulation of species that probably evolved in peripheral regions and were subsequently conveyed to the East Indies by ocean currents. A total of 3764 coral reef-associated fishes is estimated for the entire Indo-Pacific region based on a regression formula, utilizing the number of species in 6 indicator families: Chaetodontidae, Pomacanthidae, Pomacentridae, Labridae, Scaridae, and Acanthuridae. Assuming that this estimate is accurate, at least 1/2 of the Indo-Pacific species are represented in Indonesian seas. <http://www.sinica.edu.tw/zool/zoolstud/42.1/1.pdf>

Key words: Indo-Pacific, Ichthyology, Endemism, Zoogeography, Checklist.

INTRODUCTION

Indonesia possesses the world's richest reef fish fauna. Stretching in an east-west direction for approximately 5000 km and embracing nearly 18 000 islands, the archipelago (Fig. 1) features a seemingly endless array of marine habitats. Although universally acclaimed as the leading reef fish locality, there is no comprehensive, published faunal list to substantiate this assertion. It is largely based on various generic and family monographs and reports from various collecting expeditions. For example Allen (1991) listed 123 pomacentrid species, now updated to 152 species, the world's highest total. A total of 23 species of the blenniid genus *Ecsenius* has been recorded from Indonesia, surpassing any other area (Springer 1988 1991, Springer and Randall 1999, Springer and Allen 2001, Allen and Adrim, this paper).

Allen et al. (1998) listed 87 species of angelfishes (Pomacanthidae) and butterflyfishes (Chaetodontidae) from Indonesia, which also represent the highest world total for these combined groups. Moreover, the world's highest reef fish total (1111 species) for a single restricted locality was recorded at Maumere Bay on the Indonesian island of Flores (Allen and Kuitert, unpubl. data).

Brief history of Indonesian fish collections

The history of scientific fish collections in Indonesia began with the visits of European explorers and naturalists in the early 19th century. The Raja Ampat Group (now part of the Indonesian province of Papua) was one of the 1st areas where collecting occurred. Waigeo I., in particular, was the focus of early French visits by several vessels including *L'Uranie* (1818-1819), *La*

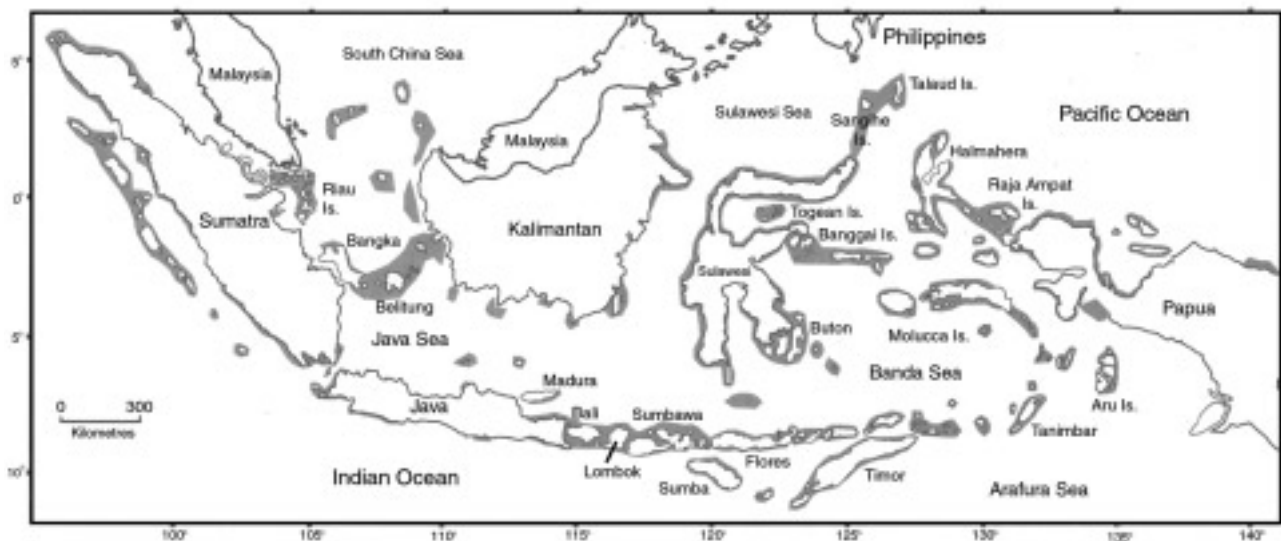


Fig. 1. Map of Indonesia. Shaded areas represent approximate location of coral reefs (adapted from Tomascik et al. 1997).

Coquille (1823), and *L'Astrolabe* (1826). Consequently, approximately 70 fish species were recorded and Waigeo is an important type locality for a variety of fishes described mainly by Quoy and Gaimard (1824, 1834), Lesson (1828-1830), and Cuvier and Valenciennes (1828-1849). Fishes that were originally described from Waigeo by early French researchers include such well-known species as the Black-tipped Shark (*Carcharhinus melanopterus*), Bluefin Trevally (*Caranx melampygus*), Bigeye Trevally (*Caranx sexfasciatus*), Semicircular Angelfish (*Pomacanthus semicirculatus*), and Sergeant Major (*Abudefduf vaigiensis*).

Following the initial French explorations, most ichthyological activity was provided by Dutch researchers, a direct consequence of their long colonial occupation of the country, which lasted until 1945. Pieter Bleeker (Fig. 2) was by far the most notable of these and definitely deserves the distinction of "grand master" of Indonesian ichthyology. His life work is summarized in a separate section (below), but it suffices here to say his numerous papers and *Atlas Ichthyologique* (1862-1878) formed a solid foundation for future workers. Approximately one of every 6 reef species presently known from Indonesia was described by Bleeker.

Albert Günther, Curator of Fishes at the British Museum, was a contemporary and "competitor" of Bleeker's. Although the 2 scientists were sometimes openly critical of each other, Bleeker sold a portion of his private collection to the British Museum after returning to Holland from Indonesia in 1860. Boeseman (1983) provided an insightful description of the relationship of these 2 men and their specimen transactions. The pur-



Fig. 2. Pieter Bleeker (1819-1878, Zoölich Museum, University of Amsterdam).

chased material and some of Bleeker's earlier collections were incorporated in Günther's *Catalog of fishes* (1859-1870).

Following Bleeker's death in 1878, Dutch scientists continued their keen interest in Indonesian fishes, culminating with Weber and de Beaufort's monumental work *Fishes of the Indo-Australian Archipelago*, published in 11 volumes between 1911 and 1962. This invaluable reference was based on Bleeker's extensive works, but also incorporated new data and collections. It was the brainchild of Max Weber, a professor at the University of Amsterdam, who devoted 25 years to this ambitious project. After Weber's death in 1937, the work was continued by his capable coauthor L.F. de Beaufort, Director of the Zoological Museum of Amsterdam, with contributions by W.M. Chapman, F.P. Koumans, and J.C. Briggs.

The world's largest museum collection of Indonesian fishes is housed at the United States National Museum of Natural History (USNM) in Washington, D.C. The collection contains more than 7000 lots, most of which are coral-reef fishes. The most notable collections contributing to this total include those made by the *Albatross* expedition (mainly in the Gulf of Tomini) in 1909, W.H. Longley (Banda Sea) in 1926-27, *Tevega* cruises of 1963 and 1965 to Borneo and Sumatra, the *Alpha Helix* expedition of 1979 to Papua, and especially the extensive collections of V.G. Springer and M. Gomon in 1973 and 1974. The last mentioned collectors visited the Molucca Is. (Ambon, Haruku, Ceram, Nusa Laut, and Saparua), Banda Sea (Kabaena I., Banda Is., and southern Buton) and Java Sea (Bawean, Karimunjawa, and Pulau Seribu).

In terms of the total number of lots of recently collected fishes, the Bishop Museum (BPBM) in Honolulu is 2nd after the USNM. The collection contains more than 3000 lots of Indonesian fishes, obtained by J.E. Randall during 15 separate visits between 1975 and 2000. Collection localities include Ambon (1974, 1986-1988, 1995), Java Sea (1975, 1978, 1982), Bali (1977, 1982, 1986-1988, 1990-1991, 1995-1996, 1999-2000), Sulawesi (1978), Lombok (1984), Komodo (1986-1987, 1995, 1999-2000), Banda Sea islands (1986-1988, 1997, 1999), Flores (1986-1988, 1990-1991, 1995, 1999-2000), Lucipara Is. (1988), Halmahera and islands west of Papua (1989), Timor and nearby islands (1995, 1996), Sumatra and Mentawai Is. (1997), and Bintan I. (1997).

Other museums with notable Indonesian col-

lections include the Academy of Natural Sciences, Philadelphia (ANSP), Museum national d'Histoire naturelle, Paris (MNHN), Nationaal Natuurhistorisch Museum, Leiden (RMNH), The Natural History Museum, London (BMNH), Pusat Penelitian dan Pengembangan Oseanologi, Jakarta (NCIP), Universiteit van Amsterdam (ZMA), Western Australian Museum, Perth (WAM), and Museum Zoologicum Bogoriense, Bogor, Indonesia (MZB). From an historical perspective, the collections at RMNH and MNHN are the most important, housing a large number of type specimens. The largest collection of Bleeker's specimens, including most of his type material, is also deposited at RMNH.

Pieter Bleeker (1819-1878)

More than anyone else, Pieter Bleeker, a Dutch scientist who died well over a century ago, is responsible for our present knowledge of the Indonesian reef fish fauna. The importance of his voluminous ichthyological works in providing a solid foundation for our knowledge of Indonesian fishes cannot be overstated. Considering that he was employed as an army medical officer during his tenure in Indonesia (1842-1860), the extent of his research was remarkable. His quest for ichthyological knowledge was insatiable. Most of his specimens were obtained from local fishermen or at markets, and although his travels around the Archipelago were limited, he built an excellent network of contacts who regularly sent specimens from scattered government outposts. During his years in Indonesia, Bleeker dispatched more than 12 000 fish specimens to the museum in Leiden. The majority of these are still accessible to scientists at RMNH.

After returning to the Netherlands in 1860, Bleeker devoted considerable energy to publishing his *Atlas Ichthyologique*, basically a compendium of his many years of ichthyological work in the East Indies. Essentially it consists of a series of revisions of East Indian fish families, both freshwater and marine. One of the most useful features of the *Atlas* is the approximately 1500 illustrations of individual species, most in color. The original *Atlas* was published in 36 installments between 1862 and the time of Bleeker's death in 1878. They were subsequently republished by the Smithsonian Institution between 1977 and 1983 as a 10-volume set. The final volume, published more than a century after Bleeker's death, contains previously unpublished plates intended for the final *Atlas* vol-

umes that were never completed.

During an incredibly prolific career spanning 36 years, Bleeker published more than 500 papers devoted to ichthyological subjects. These include descriptions of an amazing number of new taxa: 511 genera and 1925 species. Approximately 75% of his published articles were devoted to the Indonesian fauna. Bleeker's knowledge of Indonesian fishes, both freshwater and marine was outstanding. Revisions of various groups of Indo-Pacific fishes by modern researchers frequently attest to Bleeker's uncanny intuition and astute understanding of natural relationships. The reader is referred to Bleeker's brief autobiography (in Lamme 1973) and Boseman's (1983) account for further details of his life.

METHODS

Scope of coverage

The present study is restricted to shallow reef fishes, which are defined here as species that are wholly or mainly confined to coral reefs and intermingled habitats (sand and rubble patches, adjacent seagrass beds, etc.) of less than 60 m deep. The 60-meter depth is near the lower limit of safe scuba diving, and also approximates the limit of most reef-building scleractinian corals. This is also the depth zone of primary interest for conservation surveys, during which a considerable portion of the data was gathered.

Most included species are "mainstream" coral reef inhabitants, although the line between these and "casual" visitors is admittedly nebulous in certain cases. Some species (e.g., ambassids) are included due to their sightings during coral reef surveys, no doubt resulting from the close proximity (only a few meters in some cases) of mangroves or seagrasses. Several families that are primarily associated with coral reefs also contain species that are confined to non-reef habitats. For example, Serranidae, Apogonidae, and Nemipteridae include many species that are either found in deep water (i.e., below 60 m) or on flat, mainly sand or mud bottoms (i.e., trawling grounds). These species are not included in this list, which is restricted to full-time or in some cases occasional reef residents. Similarly, relatively few species of sharks, rays, clupeids, engraulids, atherinids, platycephalids, scombrids, and flatfishes are intimately associated with coral reefs, although these groups are well represented in Indonesian seas.

Checklist of Indonesian reef fishes

The accompanying checklist and analysis of the Indonesian reef fauna is based firstly on the 1st author's observations across the Archipelago between 1974 and 2001 and includes visits to Ambon (1975), Pulau Seribu (1975), Maumere Bay on Flores (1988, 1992), Bali (1992-1993, 1999), Komodo (1993, 1995), northeastern Kalimantan (1994), northern Sulawesi (1994, 1998), Riau Archipelago (1997), Togean and Banggai Is. (1998), northern Sumatra (1999), northern Papua (1991, 1997) and Raja Ampat Is. (1998-99 and 2000). These trips formed the basic framework to which we have selectively added species from a number of sources. Foremost are various publications from the past 40 years, mainly dealing with generic revisions or descriptions of new taxa. We have also studied the Indonesian collections at BPBM and USNM, particularly the relatively recent collections of J.E. Randall and V.G. Springer. In addition, we have relied on certain colleagues (mentioned in the "Acknowledgments"), who generously shared their unpublished data involving Indonesian fishes. We have not reviewed the earlier (prior to about 1960) literature in an exhaustive fashion. Such an undertaking would unnecessarily complicate the compilation of an accurate list. These early studies include numerous specific and generic names that are no longer valid, and are generally incomplete, in light of current knowledge.

The fish fauna of Bali featured prominently in this study. It appears to be strategically located at the crossroads for many species distributions. For example, it is a meeting place for species from eastern and western sections of Indonesia, as well as for species from the Indian and Pacific Oceans. The 1st author's observations of Balinese fishes have been supplemented by those of 3 prominent underwater fish photographers, Rudie Kuitert of Melbourne, Australia, Robert Myers of Guam, and Takamasa Tonozuka of Denpasar, Bali. We have gleaned numerous records for the island from their superb photographs.

Another rich source for records of Indonesian reef fishes was the excellent 3-volume work of Kuitert and Tonozuka (2001): *Photo guide - Indonesian reef fishes* (available from Zoonetics, P.O. Box 124, Seaford, Victoria 3198, Australia). The authors kindly sent us a pre-publication copy on compact disk. The major shortcoming of this work is that it is based almost entirely on underwater photographs without voucher specimens. Normally this would not present a problem, but the authors have made numerous taxonomic decisions

involving recognition of species formerly regarded as synonyms or the reallocation of species to different genera without sufficient explanation. Therefore, we have made subjective judgements regarding their decisions based on evaluation of the photographic evidence, or after consulting various specialists. In many cases we have accepted Kuitert and Tonozuka's taxonomy, particularly the recognition of species that appear to be clearly valid. These are often Bleeker's species that were previously considered as junior synonyms. But we have also rejected many of their decisions on the basis of insufficient evidence. Collection and careful analysis of specimens are required before the status of these species can be verified.

The checklist is arranged according to the classification presented by Eschmeyer (1998). One or more key references are included immediately after each family heading. Generally these references present the best overview of the family, or at least include descriptive information or illustrations of most species. More than 1 reference is included if there is no single recent family revision or if the works compliment each other, resulting in more-complete coverage.

Each entry of the checklist includes various annotations as follows: 1) author(s) and date of publication; 2) alphabetical list of locations (indicated by single-letter abbreviations) in Indonesia where the 1st author (or in combination with R. Myers and R. Kuitert for Bali) has either observed, photographed, or collected the species; if no locations are indicated it is included on the basis of reliable literature records (usually given under key references at the beginning of the family section) or examination of museum voucher specimens; 3) distribution in parentheses consisting of 2 parts: the overall general distribution and that within Indonesia; 4) abbreviations of 3 major museums where voucher specimens are located: BPBM (Bishop Museum, Honolulu), United States National Museum of Natural History (USNM), and the Western Australian Museum (WAM). As mentioned in a previous section above, the USNM and BPBM maintain the largest collections of recently collected Indonesian reef fishes. The WAM is included because it contains many valuable specimens of mainly small reef species collected by the 1st author.

A key to the acronyms used for geographic categories in the checklist appears as a separate column in table 1. Most of these categories will be familiar to fish systematists, however some of the boundaries require additional explanation. The

demarcation between the central and western Pacific is the western boundary of the Pacific Plate as defined by Springer (1982). Eastern sections of the Indian Ocean, including the west Australian coast, Christmas I., and the Cocos-Keeling Is. are considered part of the western Pacific faunal region due to the preponderance of species from the West Pacific and scarcity of Indian Ocean elements. No separate indication is given for species occurring in the Red Sea, but many of the wide-ranging Indo-Pacific and Indian Ocean species are found there. The Indo-Australian Archipelago includes the Philippines, Indo-Malay Archipelago, New Guinea, Solomon Is., and northern Australia. Distributions within Indonesia are frequently expected distributions based on knowledge of the overall distribution. The approximate range was determined mainly by the authors' or colleague's collecting experiences, voucher specimens at various museums, published and unpublished photographs, and relatively recent revisions or new species descriptions. If the range is uncertain, only locations where the authors have actually collected, photographed, or observed the species are indicated. Historical records, which are often based on misidentifications are not included.

The eastern or western limit of distribution within Indonesia (Papua and Sumatra, respectively) is inferred for some species, based on the known occurrence of the species further east or west. For example if a certain species has been reported only from Java and Komodo, but also is known from the Maldives, its Indonesian distribution is usually given as Komodo to Sumatra. All Kalimantan distributional limits refer to eastern Kalimantan.

Papua is used for the Indonesian province occupying the western half of the island of New Guinea. This name was recently adopted (Dec. 2001) for the province that was formerly known as Irian Jaya and should not be confused with the neighboring country of Papua New Guinea.

Faunal composition

The present analysis reveals a total of 2057 species in 113 families (see accompanying checklist). The composition of local reef fish communities in the Indo-Pacific region is directly dependent on habitat variability. The incredibly rich marine fauna of Indonesia obviously reflects a high level of ecological diversity. Nearly every conceivable habitat situation is present from highly sheltered embayments with a large influx of fresh water to

oceanic atolls and outer barrier reefs. The reef-fish fauna has similar characteristics compared to that from other regions of the Indo-Pacific, and forms an integral part of that faunal community. Most species are benthic (or at least living near the bottom) diurnal carnivores. Reef surveys undertaken over the past 4 years at several locations in the Archipelago by Conservation International indicate that for a given locality approximately 75%-80% of species exhibit diurnal activity patterns, 9%-11% are nocturnal, about 3%-5% are cryptic or well-camouflaged inhabitants of crevices, sand, etc., 3%-5% are diurnal mid-water swimmers, and 2%-3% are roving predators (Allen 2001d 2002). These same surveys reveal that 58%-63% of the reef species are benthic carnivores (mainly feeding on a wide variety of invertebrates), 16%-18% are planktivores, 15%-17% are omnivores, and about 8%-10% are herbivores.

Although the 1st author's participation in Conservation International reef surveys is a recent development (since 1997) and data have been accumulated for only 113 dive sites on Indonesian reefs, some interesting trends are evident (Allen 2002). A dive site is defined here as the location of a single 60-90 minute scuba dive for which the sole purpose is to record as many species as possible, usually to a depth of 40-50 m. The number of species for Indonesian sites ranged between 60 and 283, with an average of 172 species per site. In general, platform and pinnacle reefs, and exposed outer slopes of fringing coastal reefs and offshore barrier or atoll reefs support the richest fish faunas, with usually more than 175 species per site. The lowest numbers are generally associated with sites in sheltered bays and inlets, which typically support between 60-145 species. These figures are based on visually observable species, and therefore exclude a cryptic component consisting of species that either live deep in crevices or beneath sandy surfaces, or are difficult to detect due to their tiny size or camouflage coloration. While the cryptic element comprises only 3%-5% of the overall species total for a given locality (e.g., Togean Is., Banggai Is., etc.), it frequently represents 15%-20% of the species at individual dive sites (Allen, unpubl. data). Typical members of the cryptic community include eels, carapids, bythitids, ophiidiids, antennariids, scorpaenids, platycephalids, plesiopids, tripterygiids, and small gobioid fishes.

The fauna is dominated by relatively few families. The most abundant of these in terms of number of species are Gobiidae (272 species),

Labridae (178), Pomacentridae (152), Apogonidae (114), Blenniidae (107), Serranidae (102), Muraenidae (61), Syngnathidae (61), Chaetodontidae (59), and Lutjanidae (43). These 10 families collectively account for about 56% of the total reef fauna (Fig. 3).

Zoogeography

A zoogeographic analysis of the Indonesian reef fauna is presented in table 1. It is clear from this analysis that the great majority (about 62%) of Indonesian reef fishes have widespread distributions, ranging throughout the western Pacific and

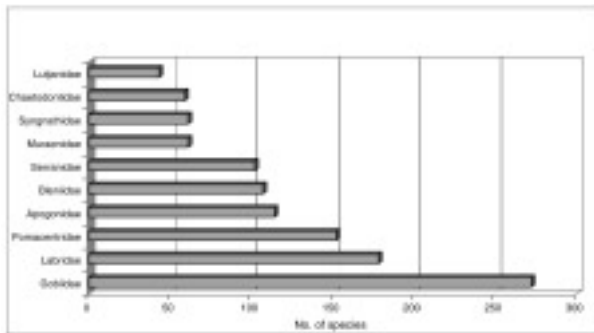


Fig. 3. The 10 most speciose families of Indonesian reef fishes.

frequently eastward into the central Pacific or west across the Indian Ocean. The only other large category contains species that are restricted to the Indo-Australian Archipelago. The remaining species exhibit a mixture of distribution patterns ranging from circumtropical to locally restricted endemics. The latter category is perhaps the most interesting, for it contains fishes that are uniquely Indonesian. It is treated in more detail in the following section. Although Indian Ocean species represent a small portion of the overall fauna, they are commonly encountered on the Indian Ocean coast of Sumatra, Java, and Bali (Randall and Kunzmann 1998). In addition, they frequently penetrate to the Java Sea, northern coast of Bali, and islands of the Nusa Tenggara chain. Recent surveys by the authors at Weh I., off Sumatra's extreme northern tip, revealed that about 85% of the reef fishes were shared with the Maldive Is. in the central Indian Ocean.

Endemism

The present study indicates that 97 species of reef fishes are currently considered Indonesian endemics (Table 1). Most of these are illustrated in figures 4-83. However, our knowledge of distribu-

Table 1. Zoogeographic analysis of the reef fish fauna of Indonesia

Distribution	No. species	Percent of species	Acronym in checklist
Indo-west central Pacific	540	26.26	IWCP
Indo-Australian Archipelago	313	15.22	IAA
West Pacific	305	14.83	WP
Indo-West Pacific	256	12.45	IWP
West central Pacific	174	8.46	WCP
Endemic	97	4.72	None
Eastern Indian-West Pacific	63	3.06	EIWP
Indian Ocean	63	3.06	IO
Indo-Pacific	47	2.29	IP
East Indian-west central Pacific	38	1.85	EIWCP
Undetermined	40	1.95	None
Eastern Indian Ocean	31	1.51	EIO
Circumtropical	27	1.31	None
East Indian Indo-Australian Arch.	21	1.02	EIIAA
Northern Indian West Pacific	16	0.78	NIWP
Northern Indian Ocean	10	0.48	NIO
N. Indian Ocean-Indo-Aust. Arch.	6	0.29	NIIAA
Indian Ocean-Indo-Australian Arch.	4	0.19	IOIAA
New Guinea	3	0.15	None
Northern Indian-west central Pacific	2	0.09	NIWCP
Indo-west central Pacific-Atlantic	1	0.05	IWCPA

Each distributional category in the table is mutually exclusive (i.e., a species can appear in only one category).

tion patterns is far from complete and some of these species will eventually be discovered in neighboring countries such as Papua New Guinea and the Philippines. Analysis of current distributions indicate there are at least 4 regional "hotspots" or centers of endemism including the West Nusa Tenggara Is. (Bali, Lombok, and Sumbawa), East Nusa Tenggara Is. (Komodo to Alor and Timor), northeastern Sulawesi (and offshore islands), and Papua (Table 2). In addition, there are 8 localized centers within these 4 regions (Table 3).

Perhaps the most interesting of these local centers, and one that deserves further study, is the combined Togean and Banggai Islands, lying off eastern Sulawesi. The Togean group in particular is rich with endemics, considering its small size. The archipelago stretches for a distance of 85 km across the center of Tomini Bay in northern Sulawesi. The Banggai Is. are situated about 115 km south of the Togeans in the northern section of Tolo Bay. Peleng, an 80-km-long mountainous island, occupies most of the land area. The remainder of the archipelago consists of 3 mountainous islands (Banggai, Labobo, and Bangkulu) surrounded by narrow fringing reefs, and a host of satellite islands, cays, and shoals. The Togeans are evidently derived from the insular component that forms most of eastern Sulawesi, but the Banggai group has western New Guinea origins (see following discussion).

The basis of the endemic trends is no doubt correlated with the complex geological history of the Indonesian Archipelago. Hall (1996 1998) discussed plate tectonics in relation to historical distribution of land and sea masses in the region. He also presents a downloadable animation of the tectonic history of Southeast Asia that was available on the web as recently as Jan. 2002.

http://www.gl.rhbc.ac.uk/seasia/Research/Plate_Tect/plate_tect.html

The Greater Sunda (Java, Sumatra, and southern Kalimantan) and West Nusa Tenggara Is. were derived from the ancient Asian continental plate. The East Nusa Tenggara Is. are composed of recently (13-12 million years ago) emergent ele-

Table 2. Areas of regional endemism in Indonesia

Area of endemism	No. of spp.
West Nusa Tenggara Is.	13
East Nusa Tenggara Is.	10
Northeastern Sulawesi	9
Papua	8

ments associated with the Australian Plate. Papua is mainly part of the ancient Australian Plate, although the northern portion consists of very recent ophiolites. Sulawesi is easily the most complex area, consisting of a combination of Asian Plate material, northward drifting insular components, and a fragment from the western tip of the New Guinea Plate.

Most of the endemics, or about 75%, are included in just 8 families (Table 4). Particularly prominent are the pseudochromids, blenniids, and pomacentrids. Slightly less than 1/2 of the species are confined to only 9 genera: *Hippocampus* (3 spp.), *Pseudochromis* (10), *Apogon* (5), *Pomacentrus* (6), *Cirrhilabrus* (6), *Helcogramma* (3), *Ecsenius* (6), *Meiacanthus* (4), and *Callionymus* (4). With the exception of the labrid genus *Cirrhilabrus*, these are fishes that invariably exhibit parental egg care with a relatively short pelagic larval stage or in a few exceptional cases have completely abandoned the pelagic stage.

Perhaps the best known of the Indonesian endemics, due to its popularity in the aquarium trade, is *Pterapogon kauderni* (Fig. 33), a small, but spectacularly patterned apogonid. It has a very limited distribution, occurring only at the Banggai Is. and immediately adjacent areas of the Sulawesi mainland and off western Taliabu (Vagelli and Erdmann in press). This distribution spans a

Table 3. Areas of local endemism in Indonesia

Area of endemism	No. of spp.
Flores	7
Togean Is.	6
Western and northern Sumatra	6
Komodo I.	6
Raja Ampat Is.	4
Molucca Is.	4
Java Sea	3
Banggai Is.	2

Table 4. Family distribution of Indonesian endemic reef fishes

Family	No. of spp.
Pseudochromidae	14
Blenniidae	12
Pomacentridae	10
Apogonidae	8
Labridae	8
Syngnathidae	7
Gobiidae	7
Callionymidae	5
Miscellaneous ($n = 13$)	24

linear distance of about 185 km. *Pterapogon kauderni* produces very few eggs, which the male broods orally, and it lacks a pelagic larval stage (Allen and Steene 1995, Vagelli 1999, Vagelli and Erdmann in press).

The Indonesian Epicenter

Randall (1998) proposed several key factors for the proliferation of coral reef species in the East Indian region (i.e., Indonesia and surrounding areas). It will suffice here to briefly discuss these. The reader is referred to Randall's excellent review article for further details.

One of the most important reasons for Indonesia's huge species accumulation concerns the general physiography of the region in combination with past geological and climatic events. First, Indonesia's huge contiguous area, replete with island "stepping stones" has formed a buffer that discourages local extinctions. Second, the geological history of the region is extremely complex. Indonesia is composed of at least 3 disparate elements that have merged due to tectonic shifts of continental and oceanic masses (Hall 1996, 1998). The western part of the archipelago (i.e., Java, Sumatra, and southern Borneo) are remnants of the Asian Plate. Much of southern and eastern Indonesia (Nusa Tenggara Is., Moluccas, and westernmost Papua) originated from the Australian Plate, and other portions (e.g., northern Borneo, eastern Sulawesi, Halmahera, and northern Papua) were uplifted from oceanic depths as a result of plate collisions. No doubt each of these separate origins made significant contributions to the present reef fauna.

Climate has also played a significant role. The East Indian region has a long history of relatively stable, warm sea temperatures, thus preventing mass extinctions that have occurred elsewhere. In addition, lower sea levels during past glacial periods have apparently formed effective barriers that divided formerly widespread species, thus setting the stage for further evolution. Over the last 700 000 years there have been at least 3, and as many as 6, glacial periods with concomitant lowering of sea levels to effectively close much of the connecting sea between the Indian and Pacific Oceans (Allen 1975, Chappell 1981, Potts 1983). Although the actual land barrier (see Fig. 1 in Randall 1998) was incomplete, there were likely other barriers in operation, such as low salinity and high turbidity from river discharge, that discouraged marine dispersal.

This barrier effect was probably instrumental in the evolution of numerous geminate or twin species that originated from a formerly widespread species that was partitioned into eastern and western populations. Randall (1998) gave examples of 52 probable geminate pairs, a convincing argument for this phenomenon. Most of these geminates now exhibit widely sympatric distributions, although a few are narrowly sympatric, mainly in the Java-Bali region.

A final factor involves life history modes. The East Indian region is populated by numerous reef fishes that possess relatively short larval periods that are unable to cross deep-water oceanic barriers. For example, the very rich Indonesian pomacentrid fauna includes numerous species that have larval periods ranging between 7-18 d (Thresher et al. 1989). Conversely, it is likely that many species have evolved in peripheral regions and were subsequently transported to the East Indies via ocean currents (Ladd 1960, Woodland 1983, Donaldson 1986, Jokiel and Marinelli 1992), thus further enriching the Indonesian reef-fish community.

How many Indo-Pacific reef fishes are there?

The total number of reef fishes in the vast Indo-Pacific region is a frequent topic of conjecture. Randall (1998) noted that such a total is elusive, due to the lack of up-to-date checklists from many of the subprovinces in the region and the difficulty of integrating the existing checklists. Moreover, there is a need for systematic revisions of several large problematical families such as the Gobiidae. Nevertheless, our knowledge of the fishes of this region has increased dramatically over the past 50 years, and therefore it seems that a reasonably accurate estimate is now possible. Springer (1982) used 2 methods to obtain estimates. The 1st consisted of assigning known or estimated numbers of species to each family occurring in the region. The second estimate was based on the proportion of the total number of Indo-Pacific species occurring on the Pacific Plate in certain well-known and speciose groups such as the Pomacentridae, Labridae, and Pomacanthidae. Springer found that for these families there was an average of 33 percent of all Indo-Pacific species represented on the Plate. He therefore assumed that approximately one-third of the overall Indo-Pacific fauna was present on the Pacific Plate, which had an estimated faunal total of 1312 species. Using these independent methods Springer arrived at remarkably similar estimates,

which consisted of about 4000 species. It is emphasized that this figure pertains to both reef and shore fishes, rather than just reef species. Presumably it incorporates numerous non-reefal forms that inhabit soft bottoms and brackish estuaries as well as reef fishes from deep water (i.e., below 60 m).

An independent analysis based on the number of species in 6 indicator families (Table 5) resulted in an estimate of 3764 species of Indo-Pacific coral reef fishes. This figure was obtained using the methodology described by Allen (2000b) for comparing overall reef fish diversity within the East Indian region. Essentially, it is an extrapolation method based on the total number of species in 6 key indicator families (Chaetodontidae, Pomacanthidae, Pomacentridae, Labridae, Scaridae, and Acanthuridae) occurring in a particular region or subregion. A regression formula was used to estimate the total species found in the region. The formula resulted from an analysis of 35 Indo-Pacific locations for which reliable, comprehensive species lists exist. The Macintosh program Statview was used to perform simple linear regression analyses on the data set in order to determine a predictor formula, using the total number of indicator species as the predictor variable (x) for estimating the independent variable (y) or total coral reef fish fauna. The resultant formula was obtained: total reef fishes = 4.234 (total number of indicator species) - 114.446 (d.f = 15; $R^2 = 0.964$; $P = 0.0001$). Assuming that both this method and that of Springer are reasonably accurate, it would appear that at least half of the Indo-Pacific reef species are represented in Indonesian seas.

Acknowledgments: This paper was originally presented as a plenary talk at the Indo-Pacific Fish Conference in Durban, South Africa on 24 May 2001. The authors are particularly grateful to Kwang-Tsao Shao, former Chief Editor of *Zoological Studies* for extending an invitation to

submit this manuscript for publication.

We are very grateful for the assistance of Rudie Kuitert and Robert Myers for providing numerous records of Bali reef fishes and for sharing their excellent photographs and knowledge of Indonesian fishes in general. The recent (2001) book by Kuitert and "Tono" Tonozuka is a "landmark" fish publication in terms of the photographic quality and depth of illustrative coverage for individual species.

The 1st author is grateful for the hospitality and generosity of the following dive resort owners and managers: Frans Seda and Sylvester Fernandez (Flores Sao Wisata Resort), Anton Saksono (Pulau Putri), Hannie and Inneke Batuna (Murex Resort, Manado), Bintan Management Group and Charlotte Caffrey (Bintan Island), Reno Kirtya (Grand Komodo Tours), and Max Ammer (Irian Diving, Raja Ampat Islands). Kal Muller and Burt Jones rendered valuable assistance in the Komodo area. In addition, Conservation International sponsored visits to Pulau Weh and the Togean, Banggai, and Raja Ampat islands. These trips would not have been possible without the help of CI staff including Tim Werner, Sheila McKenna, Jatna Supriatna, Suer Suryadi, Purbasari Surjadi, Myrna Kusumawardhani, and Ermayanti.

We are also grateful for the support of Lembaga Ilmu Pengetahuan Indonesia (LIPI), and the Director of Pusat Penelitian dan Pengembangan Oseanologi, H. Ono Kurnaen Sumadhiharga.

Special thanks are reserved for Roger Steene, who accompanied the 1st author on numerous Indonesian visits and rendered valuable collection and photographic assistance, as well as excellent companionship. Rudie and Allison Kuitert introduced the 1st author to the wonders of Maumere Bay diving. Tono and Miki Tonozuka of Dive and Dive (Bali) assisted with collections at Weh I. and also hosted the 1st author at their dive facility at Gilimanuk, Bali.

John ("Jack") Randall and Victor Springer, have long been inspirations for our studies of Indo-Pacific fishes. They gave generously of their time in reviewing the manuscript and allowed the 1st author access to museum collections and data at the Bishop Museum and United States National Museum of Natural History. Randall also provided valuable photographs of Indonesian endemics.

We are grateful to the following specialist taxonomists for assisting with various portions of the checklist: William Eschmeyer (information pertaining to Bleeker publications), Anthony Gill

Table 5. Indicator families used for estimate of total Indo-Pacific reef fishes

Indicator Family	No. of spp.
Chaetodontidae	105
Pomacanthidae	69
Pomacentridae	275
Labridae	350
Scaridae	64
Acanthuridae	63

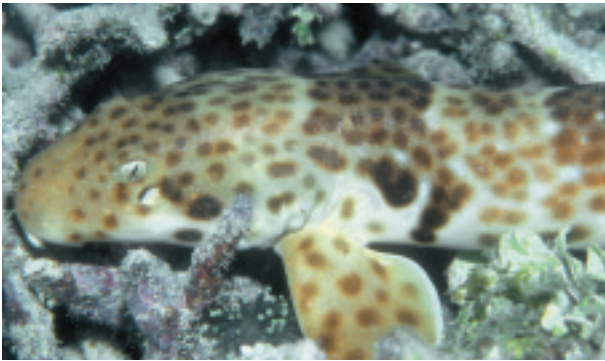


Fig. 4. *Hemiscyllium freycineti*, Raja Ampat Is. (G. Allen).



Fig. 5. *Myripristis aulacodes*, Lombok (J. Randall).



Fig. 6. *Corythoichthys* sp., Raja Ampat Is. (G. Allen).



Fig. 7. *Bhanotia pauciradiata*, Maumere, Flores (R. Kuiter).



Fig. 8. *Hippocampus kampylotrachelos*, Bali (A. Ogawa).



Fig. 9. *Hippocampus moluccensis*, Lembah Strait, Sulawesi (R. Kuiter).

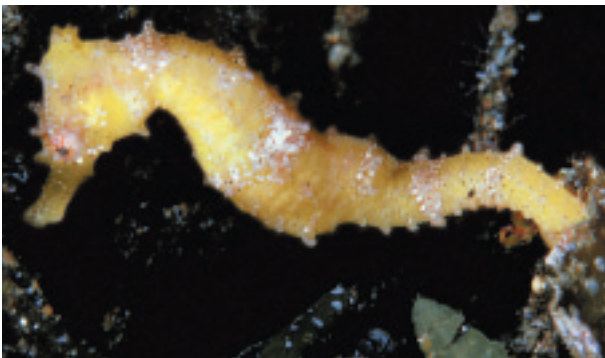


Fig. 10. *Hippocampus polytaenia*, Maumere, Flores (R. Kuiter).



Fig. 11. *Hippocampus semispinosus*, Bali (M. Tonzuka).



Fig. 12. *Pterois kodipungi*, Bali (R. Steene).



Fig. 13. *Pterois* sp., Lembeh Strait, Sulawesi (R. Steene).



Fig. 14. *Luzonichthys taeniatus*, Maumere, Flores (R. Kuiter).



Fig. 15. *Pseudochromis aurulentus*, Banta I. (G. Allen).



Fig. 16. *Pseudochromis elongatus*, Tomini Gulf, Sulawesi (R. Kuiter).



Fig. 17. *Pseudochromis flavopunctatus*, Komodo (J. Randall).



Fig. 18. *Pseudochromis litus*, Wetar I. (J. Randall).



Fig. 19. *Pseudochromis pictus*, Alor I. (J. Randall).



Fig. 20. *Pseudochromis* sp., Komodo (G. Allen).

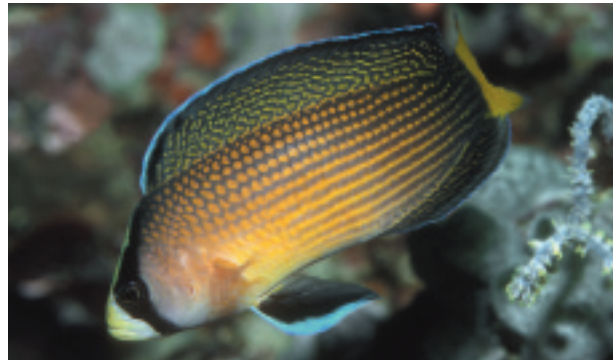


Fig. 21. *Pseudochromis splendens*, Maumere, Flores (G. Allen).



Fig. 22. *Pseudochromis steenei*, ♂, Bali (R. Steene).



Fig. 23. *Pseudochromis steenei*, ♀, Bali (G. Allen).



Fig. 24. *Pseudochromis* sp. 1, Raja Ampat Is. (G. Allen).



Fig. 25. *Pseudochromis* sp. 3, Weh I., Sumatra (T. Tonzuka).



Fig. 26. *Pseudochromis* sp. 3 (color variety), Weh I., Sumatra (T. Tonzuka).



Fig. 27. *Pseudoplesiops collare*, Maumere, Flores (J. Randall).

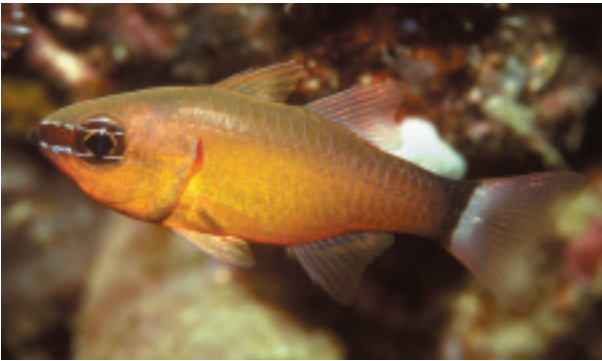


Fig. 28. *Apogon komodoensis*, Komodo (G. Allen).

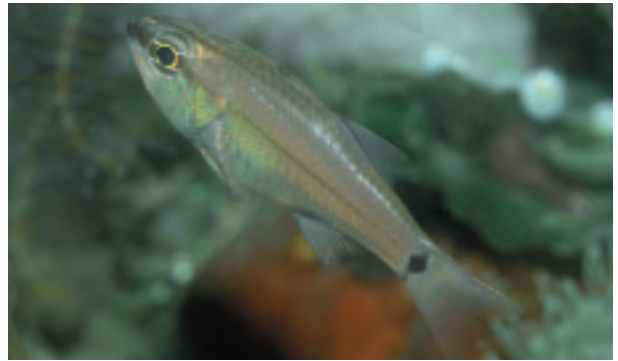


Fig. 29. *Apogon leptofasciatus*, Raja Ampat Is. (G. Allen).



Fig. 30. *Apogon lineomaculatus*, Bali (G. Allen).



Fig. 31. *Apogon microspilos*, Lombok (J. Randall).



Fig. 32. *Apogon oxygrammus*, Raja Ampat Is. (G. Allen).



Fig. 33. *Pterapogon kauderni*, Banggai Is. (G. Allen).

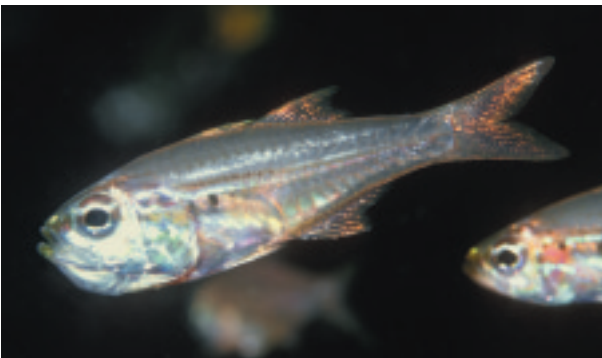


Fig. 34. *Rhabdamia spilota*, Bali (G. Allen).



Fig. 35. *Hoplolatilus luteus*, Maumere, Flores (R. Kuitert).



Fig. 36. *Chaetodontoplus dimidiatus*, Raja Ampat Is. (G. Allen).



Fig. 37. *Amblypomacentrus clarus*, Banggai Is. (G. Allen).



Fig. 38. *Chrysiptera pricei*, Japen I., Papua (G. Allen).



Fig. 39. *Neoglyphidodon crossi*, adult, Maumere, Flores.



Fig. 40. *Neoglyphidodon crossi*, juvenile, Maumere, Flores (J. Randall).



Fig. 41. *Pomacentrus bintanensis*, Bintan I. (G. Allen).



Fig. 42. *Pomacentrus javanicus*, Pulau Putri, Java Sea (G. Allen).



Fig. 43. *Pomacentrus komodoensis*, Komodo (G. Allen).



Fig. 44. *Pomacentrus melanochir*, Maumere, Flores (G. Allen).



Fig. 45. *Pomacentrus saksonoi*, Pulau Putri, Java Sea (G. Allen).



Fig. 46. *Pomacentrus* sp., Derawan I., Kalimantan (R. Kuitert).



Fig. 47. *Pomacentrus xanthosternus*, Pulau Putri, Java Sea (G. Allen).



Fig. 48. *Cirrhilabrus adornatus*, western Sumatra (H. Debelius).



Fig. 49. *Cirrhilabrus aurantidorsalis*, Togean Is. (G. Allen).



Fig. 50. *Cirrhilabrus filamentosus*, Komodo (G. Allen).



Fig. 51. *Cirrhilabrus joanalleneae*, ♂, Weh I., Sumatra (G. Allen).



Fig. 52. *Cirrhilabrus joanallena*, ♀, Weh I., Sumatra (R. Steene).



Fig. 53. *Cirrhilabrus solorensis*, Maumere, Flores (R. Kuitert).



Fig. 54. *Cirrhilabrus tonozukai*, Tomini Gulf, Sulawesi (R. Steene).



Fig. 55. *Halichoeres kneri*, ♂, Bali (R. Kuitert).



Fig. 56. *Halichoeres kneri*, ♀, Bali (R. Kuitert).

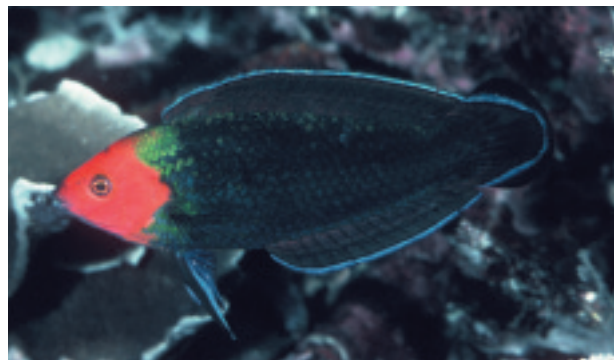


Fig. 57. *Halichoeres rubricephalus*, Maumere, Flores (R. Kuitert).



Fig. 58. *Paracheilinus cyaneus*, nuptial male, Derawan I., Kalimantan (R. Kuitert)



Fig. 59. *Paracheilinus cyaneus*, ♂, Raja Ampat Is. (G. Allen).

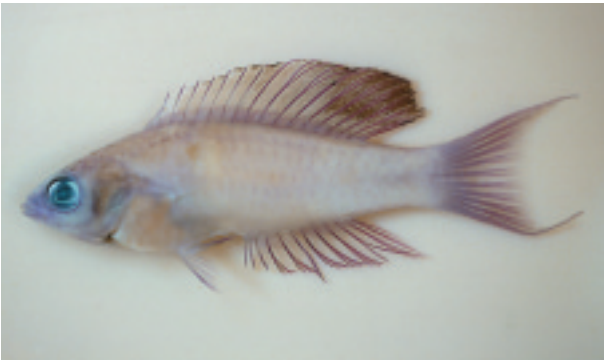


Fig. 60. *Paracheilinus togeanensis*, Togean Is. (G. Allen).



Fig. 61. *Xyrichtys tetrazona*, Lembeh Strait, Sulawesi (R. Kuitert).



Fig. 62. *Parapercis* sp., Maumere, Flores (R. Steene).

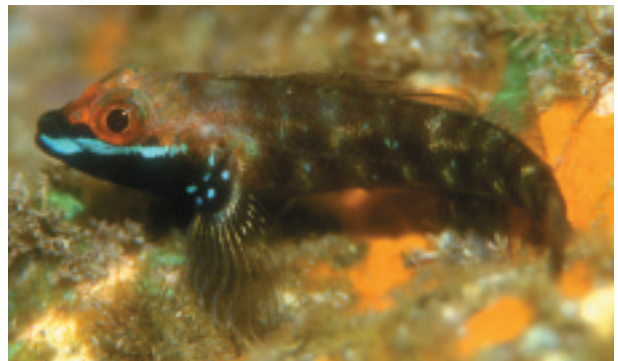


Fig. 63. *Helcogramma vulcanum*, ♂, Bali (R. Steene).



Fig. 64. *Helcogramma vulcanum*, ♀, Bali (R. Steene).

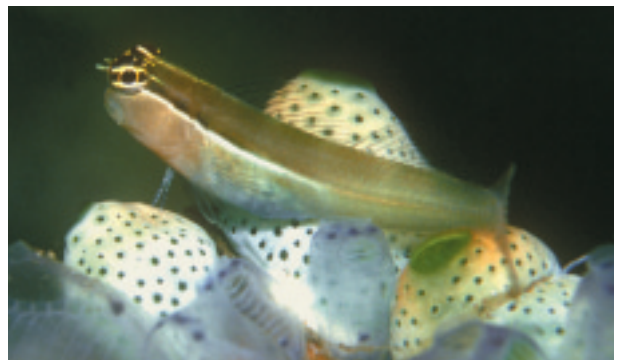


Fig. 65. *Ecsenius bandanus*, Maumere, Flores (G. Allen).

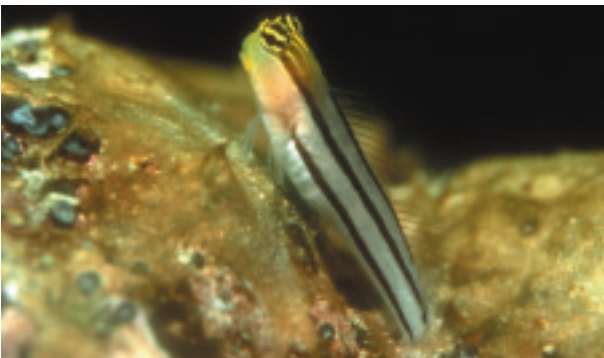


Fig. 66. *Ecsenius bathi*, Maumere, striped variety, Flores (G. Allen).



Fig. 67. *Ecsenius bathi*, Maumere, checkered variety, Flores (G. Allen).



Fig. 68. *Ecsenius ops*, Bali (G. Allen).



Fig. 69. *Ecsenius polystictus*, Weh I., Sumatra (G. Allen).



Fig. 70. *Ecsenius randalli*, Halmahera (J. Randall).



Fig. 71. *Ecsenius* sp., Togean Is. (G. Allen).



Fig. 72. *Meiacanthus crinitus*, Raja Ampat Is. (G. Allen).



Fig. 73. *Meiacanthus* sp. 1, Togean Is. (G. Allen).



Fig. 74. *Meiacanthus* sp. 2, Banggai Is. (G. Allen).



Fig. 75. *Dactylopus kuiteri*, adult, Bali (G. Allen).



Fig. 76. *Dactylopus kuiteri*, juvenile, Bali (R. Steene).

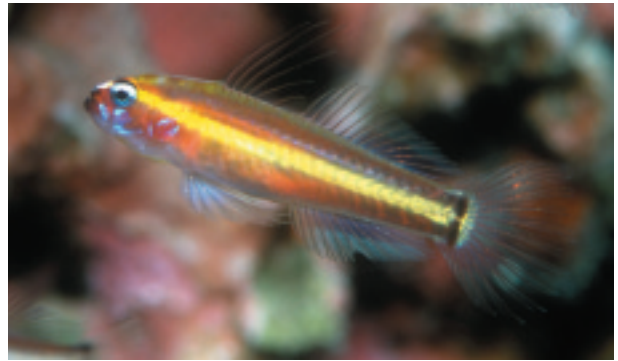


Fig. 77. *Eviota raja*, Raja Ampat Is. (G. Allen).



Fig. 78. *Gladigobius* sp., Bali (T. Tonozuka).



Fig. 79. *Platygobiopsis akihito*, ♂, Maumere, Flores (J. Randall).



Fig. 80. *Platygobiopsis akihito*, ♀, Maumere, Flores (J. Randall).



Fig. 81. *Pleurosicya spongicola*, Tomini Gulf, Sulawesi (R. Kuitert).



Fig. 82. *Prionurus chrysurus*, Bali (R. Kuitert).



Fig. 83. *Siganus labyrinthoides*, Bali (R. Kuitert).

(Pseudochromidae), Martin Gomon (Labridae), Barry Hutchins (Monacanthidae), Isaac Isbruecker (permission to use Bleeker photo), Helen Larson (Gobiidae), John Randall (Acanthuridae), William Smith-Vaniz (Opistognathidae and Blenniidae), Victor Springer (Blenniidae), Jeff Williams (Blenniidae), and Richard Winterbottom (Gobiidae).

CHECKLIST OF INDONESIAN REEF FISHES

The reader is referred to the methods section for additional information about the format of the checklist. The following abbreviations that appear in the checklist refer to locations (approximate latitude and longitude indicated in parentheses) where the species was recorded by the first author. A = Raja Ampat Islands, Papua (0°33'S, 130°41'E) B = Bali (8°18'S, 115°37'E) F = Maumere Bay, Flores (8°38'S, 122°22'E) K = Komodo (8°44'S, 119°25'E) M = Manado and vicinity, Sulawesi (1°42'N, 124°57'E) P = Pulau Seribu, Java Sea (5°36'S, 106°32'E) R = Pulau Bintan, Riau Archipelago (1°11'N, 104°19'E) S = Sangalaki Island, Kalimantan (2°09'N, 118°31'E) T = Togeang and Banggai Islands (0°20'S, 121°55'E and 1°35'S, 123°20'E) W = Pulau Weh, Sumatra (5°53'N, 95°19'E).

Voucher specimens at the Bishop Museum Honolulu, United States National Museum of Natural History, Washington, D.C., and the Western Australian Museum are indicated with the respective acronyms BPBM, USNM, and WAM.

Sample checklist entry

The following example is a typical checklist entry involving the labrid *Iniistius pentacatctylus*:

I. pentadactylus (Linnaeus, 1758): B,F,K,T,W; [IWP, Flores to Sumatra]; (BPBM, WAM).

It was recorded from Bali, Flores, Komodo, Togeang Islands, and Pulau Weh, and is generally distributed in the Indo-west Pacific, with an Indonesian distribution from Flores to Sumatra. Indonesian voucher specimens are deposited at the Bishop Museum and Western Australian Museum.

Orectolobidae - Carpet Sharks (2 spp.)

Key references: Compagno, 1984; Compagno and Niem, 1998; Last and Stevens, 1994.

Eucrossorhinus dasyapogon (Bleeker, 1867): A;

[IAA; Papua].

Orectolobus ornatus (Devis, 1883): [IAA; Papua].

Hemiscylliidae - Bamboo Sharks (6 spp.)

Key references: Compagno, 1984; Compagno and Niem, 1998; Last and Stevens, 1994.

Chiloscyllium punctatum Müller and Henle, 1838: [WP; Papua to Sumatra].

Hemiscyllium freycineti (Quoy and Gaimard, 1824): A; [ENDEMIC; Papua].

H. hallstromi Whitley, 1967: [New Guinea; Papua].

H. ocellatum (Bonaterre, 1788): [IAA; Papua].

H. strahani Whitley, 1967: [New Guinea; Papua].

H. trispeculare Richardson, 1843: A,R; [IAA; Papua to Riau Islands].

Ginglymostomatidae - Nurse Sharks (1 sp.)

Key references: Compagno, 1984; Compagno, 1998; Last and Stevens, 1994.

Nebrius ferrugineus (Lesson, 1830): F,T; [IWP; Papua to Sumatra]; (USNM).

Stegostomatidae - Zebra Sharks (1 sp.)

Key references: Compagno, 1984; Compagno, 1998; Last and Stevens, 1994.

Stegostoma fasciatum (Hermann, 1783): F,S; [IWP; Papua to Sumatra]; (USNM).

Scyliorhinidae - Catsharks (1 sp.)

Key references: Compagno, 1984; Compagno and Niem, 1998.

Atelomycterus marmoratus (Bennett, 1830): F; [IWP; Papua to Sumatra].

Carcharhinidae - Whaler Sharks (7 spp.)

Key references: Compagno, 1984; Compagno and Niem, 1998; Last and Stevens, 1994.

Carcharhinus albimarginatus (Rüppell, 1837): A,F; [IWP; Papua to Sumatra].

Carcharhinus amblyrhynchos Bleeker, 1856: A,F,K,R; [IWP; Papua to Sumatra].

C. melanopterus (Quoy and Gaimard, 1824): A,F,K,M,P,S,W; [IWP; Papua to Sumatra]; (USNM).

C. sorrah (Müller and Henle, 1839): [IWP; Papua to Sumatra].

Galeocerdo cuvier (Müller and Henle, 1837): R; [Circumtropical; Papua to Sumatra].

Negaprion acutidens (Rüppell, 1837): F; [IWP; Papua to Sumatra].

Triaenodon obesus (Rüppell, 1835): A,F,P,S;

[IP; Papua to Sumatra]; (BPBM).

Sphyrnidae - Hammerhead Sharks (2 spp.)

Key references: Compagno, 1984; Compagno, 1998; Last and Stevens, 1994.

Sphyrna lewini (Griffith and Smith, 1834): [Circumtropical; Papua to Sumatra]; (USNM).

S. mokarran (Rüppell, 1837): [Circumtropical; Papua to Sumatra].

Dasyatidae - Stingrays (7 spp.)

Key references: Last and Stevens, 1994; Last and Compagno, 1999.

Dasyatis kuhlii (Müller and Henle, 1841): A,F,K,M,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).

Himantura fai Jordan and Seale, 1906: [IWP; Papua to Sumatra].

H. granulata (Macleay, 1883): [EIWP; Papua to Sumatra].

Pastinachus sephen (Forsskål, 1775): P; [IWP; Papua to Sumatra].

Taeniura lymma (Forsskål, 1775): A,F,K,M,R,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).

T. meyeri Müller and Henle, 1841: F,K; [IP; Papua to Sumatra].

Urogymnus asperrimus (Bloch and Schnieder, 1801): [IWCP; Papua to Sumatra].

Myliobatidae - Eagle rays (4 spp.)

Key references: Last and Stevens, 1994; Compagno and Last, 1999.

Aetobatus narinari (Euphrasen, 1790): A,F,S,W; [Circumtropical; Papua to Sumatra].

Aetomylaeus nichofii (Bloch and Schneider, 1801): F; [IWP; Papua to Sumatra].

A. vespertilio (Bleeker, 1852): [IWP; Papua to Sumatra].

Rhinoptera javanica Müller and Henle, 1841: P; [IWP; Papua to Sumatra].

Mobulidae - Manta Rays (1 sp.)

Key references: Last and Stevens, 1994; Compagno and Last, 1999.

Manta birostris (Donndorf, 1798): A,F,K,S,W; [Circumtropical; Papua to Sumatra].

Moringuidae - Worm Eels (3 spp.)

Key references: Castle, 1968; Myers, 1999.

Moringua ferruginea Bliss, 1833: A; [IWCP; Papua to Sumatra]; (WAM).

M. javanica (Kaup, 1856): K,S,W; [IWCP; Papua to Sumatra]; (WAM).

M. microchir Bleeker, 1853: A,F; [IWCP; Papua

to Sumatra]; (WAM).

Chlopsidae - False Reef Eels (4 spp.)

Key references: Myers, 1999; Smith, 1999; Tighe, 1992.

Boehlkenchelys longidentata Tighe, 1992: [EIWP; Moluccas]; (USNM).

Kaupichthys atronatus Schultz, 1953: S; [WCP; NE Kalimantan]; (USNM).

K. brachychirus Schultz, 1953: F,T; [WCP; Flores and Togeian Islands]; (BPBM, USNM, WAM).

K. didontus (Schultz, 1953): F,T; [IWCP; Flores and Togeian Islands]; (BPBM, USNM, WAM).

Muraenidae - Moray Eels (61 spp.)

Key references: Böhlke 2000; Böhlke and McCosker, 1997; Böhlke and McCosker, 2001; Böhlke et al., 1999; Böhlke and Randall, 2000; Myers, 1999; Randall and Golani, 1995; Smith and Böhlke, 1997.

Anarchias allardicei Jordan and Starks, 1906: [EIWCP; Papua to Sumatra]; (USNM).

Channomuraena vittata Richardson, 1844: B; [Circumtropical; Bali]; (BPBM).

Echidna amblyodon (Bleeker, 1856): [IAA; Sulawesi].

E. delicatula (Kaup, 1856): [WP; Moluccas]; (USNM).

E. nebulosa (Ahl, 1789): A,B,F,K,M,S,T; [IP; Papua to Sumatra]; (USNM, WAM).

E. polyzona (Richardson, 1844): B,M; [IWCP; Papua to Sumatra]; (USNM).

E. xanthospilos (Bleeker, 1859): [WP; Java].

Enchelycore bayeri (Schultz, 1953): B,F,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Enchelycore schismatorhynchus (Bleeker, 1853): B,M; [EIWCP; Papua to Sumatra]; (USNM).

Enchelynassa canina (Quoy and Gaimard, 1824): [IP; Papua to Sumatra].

Gymnomuraena zebra (Shaw, 1797): B,W; [IP; Papua to Sumatra]; (USNM).

Gymnothorax albimarginatus (Temminck and Schlegel, 1846): B; [WCP; Bali and Ambon].

G. angusticauda (Weber and de Beaufort, 1916): [IWP; Biak Island].

Gymnothorax buroensis (Bleeker, 1857): F; [IP; Papua to Sumatra]; (USNM, WAM).

G. chilospilus Bleeker, 1865: B,F; [IWP; Papua to Sumatra]; (BPBM, USNM).

G. chlamydatus Snyder, 1908: M; [WP; Lesser Sunda Islands]; (BPBM).

- G. enigmaticus* McCosker and Randall, 1982: A,B,F,S,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. favagineus* Bloch and Schneider, 1801: B; [IWP; Papua to Sumatra].
- G. fimbriatus* (Bennett, 1831): A,B,F,K,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. flavimarginatus* (Rüppell, 1830): B,F,K,M,R, T,W; [IP; Papua to Sumatra]; (USNM).
- G. formosus* Bleeker, 1864: [IAA; Ceram].
- G. fuscomaculatus* (Schultz, 1953): F; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. herrei* Beebe and Tee-Van, 1933: [EI-IAA; Papua to Sumatra]; (USNM).
- G. isingteena* (Richardson, 1845): B,S; [EIWP; Bali and Kalimantan to Sumatra].
- G. javanicus* (Bleeker, 1859): A,B,F,K,P,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- G. margaritophorus* (Bleeker, 1865): M,S; [IWCP; Papua to Sumatra]; (USNM).
- G. melatremus* Schultz, 1953: A,F,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. meleagris* (Shaw and Nodder, 1795): F,M; [IP; Papua to Sumatra].
- G. microstictus* Böhlke, 2000: [IAA; Moluccas and Sulawesi]; (BPBM, USNM).
- G. moluccensis* (Bleeker, 1865): F; [IWP; Papua to Sumatra].
- G. monochrous* Bleeker, 1864: F,R; [WCP; Papua to Sumatra]; (WAM).
- G. phasmatodes* (Smith, 1962): [IOIA; Papua to Sumatra]; (BPBM, USNM).
- G. pictus* (Ahl, 1789): A,F,W; [IP; Papua to Sumatra]; (USNM).
- G. pindae* Smith, 1962: [IWCP; Papua to Sumatra]; (USNM).
- G. punctatofasciatus* Bleeker, 1863: [IAA; Moluccas to Kalimantan]; (BMNH).
- G. pseudoherrei* Böhlke, 2000: [IAA; Moluccas]; (USNM).
- G. pseudothyrsoides* (Bleeker, 1852): [IWP; Papua to Sumatra].
- G. randalli* Smith and Böhlke, 1997: [IWP; Lombok]; (BPBM, USNM).
- G. richardsoni* (Bleeker, 1852): B; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- G. robinsi* Böhlke, 1997: [IWP; Kai Island]; (BPBM, USNM).
- G. rueppelliae* (McClelland, 1845): F,W; [IWCP; Papua to Sumatra]; (USNM).
- G. thyrsoides* (Richardson, 1844): B,F; [WCP; Papua to Bali]; (USNM).
- G. undulatus* (Lacepède, 1803): B,F,P; [IP; Papua to Sumatra]; (USNM, WAM).
- G. zonipectis* Seale, 1906: A,F,K,M,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Pseudechidna brummeri* (Bleeker, 1859): B,F,K,W; [IWCP; Papua to Sumatra]; (USNM).
- Rhinomuraena quaesita* Garmann, 1888: B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM,USNM).
- Scuticara okinawae* (Jordan and Snyder, 1901): [IWCP; W. Sumatra]; (ANSP).
- S. tigrina* (Lesson, 1828): B; [IP; Bali].
- Strophidon sathete* (Hamilton, 1822): F; [IWP; Papua to Sumatra]; (BPBM).
- Uropterygius concolor* Rüppell, 1837: T; [IWCP; Papua to Sumatra]; (USNM, WAM).
- U. fasciolatus* (Regan, 1909): F; [IAA; Moluccas to Flores].
- U. fuscoguttatus* Schultz, 1953: B; [EIWCP; Bali]; (USNM).
- U. goslinei* McCosker and Randall, 1977: F; [WCP; Papua to Flores].
- U. inornatus* Gosline, 1958: [WCP; Moluccas]; (USNM).
- U. kamar* McCosker and Randall, 1977: T; [IWCP; Togeian Islands]; (USNM, WAM).
- U. macrocephalus* (Bleeker, 1865): F,M; [IP; Papua to Sumatra]; (BPBM, USNM, WAM).
- U. marmoratus* (Lacepède, 1803): [IWCP; Papua to Sumatra]; (USNM).
- U. micropterus* (Bleeker, 1852): A,K,R; [IWCP; Papua to Sumatra]; (USNM, WAM).
- U. nagoensis* Hatooka, 1984: [IWP; Papua to Sumatra]; (USNM).
- U. suprafortatus* (Regan, 1909): [IWCP; Moluccas]; (USNM).
- U. xanthopterus* Bleeker, 1859: [IWCP; Papua to Sumatra]; (USNM).

Ophichthidae - Snake Eels (25 spp.)

- Key references: McCosker and Randall, 2001; Myers, 1999; Smith and McCosker, 1999.
- Apterichthys klazingai* (Weber, 1913): [IWCP; Papua to Sumatra].
- Brachysomophis cirrocheilus* (Bleeker, 1857): A; [IWP; Papua to Sumatra]; (BPBM).
- B. crocodilinus* (Bennett, 1831): B,M; [IWCP; Papua to Sumatra]; (USNM).
- B. henshawi* Jordan and Snyder, 1904: B,F; [IWCP; Papua to Sumatra]; (BPBM).
- B. umbonis* McCosker and Randall, 2001: F; [IAA; Flores]; (BPBM).
- Callechelys catostoma* (Forster, in Bloch and

- Schneider, 1801): [IWCP; Papua to Sulawesi]; (USNM).
- C. marmorata* (Bleeker, 1853): B,F,T; [IWCP; Papua to Sumatra].
- Elapsopsis versicolor* (Richardson, 1844): [IAA; Papua to Moluccas].
- Ichthyapus vulturus* (Weber and de Beaufort, 1916): M; [IWCP; Papua to Sumatra].
- Leiuranus semicinctus* (Lay and Bennett, 1839): A,B,K,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Muraenichthys gymnopterus* (Bleeker, 1864): [IWCP; Papua to Sumatra]; (BPBM, USNM).
- M. schultzei* Bleeker, 1857: [IWCP; Papua to Sumatra].
- M. sibogae* Weber and de Beaufort, 1916: [WCP; Timor].
- Myrichthys colubrinus* (Boddaert, 1781): A,B,F,M,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- M. maculosus* (Cuvier, 1817): A,B,F,K,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- Ophichthus altipinnis* (Kaup, 1856): B,F; [IWP; Papua to Sumatra]; (BPBM).
- O. bonaparti* (Kaup, 1856): B; [IWP; Papua to Sumatra]; (BPBM).
- O. cephalozona* (Bleeker, 1864): B,M; [WCP; Papua to Bali].
- O. polyophthalmus* (Bleeker, 1853): M; [IWCP; Papua to Sumatra].
- Phyllophichthus xenodontus* Gosline, 1951: F; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Pisodonophis cancrivora* (Richardson, 1844): B,P; [IWP; Papua to Sumatra].
- Scolecenchelys gymnotus* (Bleeker, 1864): [IWCP; Papua to Sumatra].
- S. laticaudata* (Ogilby, 1897): F; [IWCP; Papua to Sumatra]; (USNM).
- S. macropterus* (Bleeker, 1857): A,K,R; [IWCP; Papua to Sumatra]; (USNM, WAM).
- Yirrkala* sp.: F; [IAA; Moluccas to Flores]; (BPBM).

Congridae - Conger Eels (15 spp.)

- Key references: Castle and Randall, 1999; Kuitert and Tonzuka, 2001; Myers, 1999.
- Ariosoma scheelei* (Strömann, 1896): B,F,K; [IWCP; Flores to Bali]; (BPBM, USNM).
- Conger cinereus* Rüppell, 1830: B,K; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Gorgasia barnesi* Robison and Lancraft, 1984: [IAA; Wetar and Moluccas]; (BPBM, USNM).
- G. japonica* Abe, Miki and Asai, 1977: B; [WP; Bali].

- G. maculata* Klausewitz and Eibl-Eibesfeldt, 1849: A,B,W; [IWP; Papua to Sumatra]; (BPBM).
- G. preclara* Böhlke and Randall, 1981: B; [EIWP; Bali].
- G. taiwanensis* Shao, 1990: B; [WP; Bali].
- Heteroconger enigmaticus* Castle and Randall, 1999: F; [IAA; Papua to Flores]; (BPBM, USNM).
- H. hassi* (Klausewitz and Eibl-Eibesfeldt, 1959): A,B,F,K,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- H. lentiginosus* Böhlke and Randall, 1981: B; [WCP; Bali].
- H. perissodon* Böhlke and Randall, 1981: B,F; [IAA; Moluccas to Bali]; (BPBM, USNM, WAM).
- H. polyzona* Bleeker, 1868: B,F; [WP; Moluccas and Flores]; (BPBM, WAM).
- H. taylori* Castle and Randall, 1995: B; [IAA; Bali]; (BPBM).
- H. tricia* Castle and Randall, 1999: [IAA; S Flores].
- Poecilconger fasciatus* Günther, 1872: B,M; [IWCP; Bali].

Engraulidae - Anchovies (3 spp.)

Key reference: Munro et al., 1999.

- Encrasicholina devisi* (Whitley, 1940): [EIWCP; Papua to Sumatra].
- E. heteroloba* (Rüppell, 1837): [IWCP; Papua to Sumatra]; (USNM).
- E. punctifer* (Fowler, 1938): [IWCP; Papua to Sumatra].

Clupeidae - Herrings (3 spp.)

Key reference: Wongratana et al., 1999.

- Herklotsichthys quadrimaculatus* (Rüppell, 1837): A; [IWCP; Papua to Sumatra]; (BPBM).
- Spratelloides delacatulus* (Bennett, 1832): A; [IWCP; Papua to Sumatra]; (WAM).
- S. gracilis* (Schlegel, 1846): F,K,R,W; [IWCP; Papua to Sumatra]; (WAM).

Chanidae - Milkfishes (1 sp.)

Key reference: Bagarino, 1999.

- Chanos chanos* (Forsskål, 1775): F,P; [IP; Papua to Sumatra]; (BPBM).

Plotosidae - Eeltail Catfishes (2 spp.)

Key reference: Ferraris, 1999.

- Paraplotosus albilabris* (Valenciennes, 1840): R; [IAA; Papua to Sumatra]; (WAM).

Plotosus lineatus (Thunberg, 1787): A,B,K,R,T, W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Synodontidae - Lizard Fishes (9 spp.)

Key references: Cressy, 1981; Myers, 1999; Waples and Randall, 1988.

Saurida gracilis (Quoy and Gaimard, 1824): A,B,F,K,M,P,T; [IWCP; Papua to Sumatra]; (USNM, WAM).

S. nebulosa Valenciennes, 1849: B,F,W; [IWCP; Papua to Sumatra]; (BPBM).

Synodus dermatogenys Fowler, 1912: A,B,F,K, T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

S. indicus (Day, 1873): B,F; [IWP; Flores to Bali]; (BPBM, USNM).

S. jaculum Russell and Cressey, 1979: A,B,F,K,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).

S. rubromarmoratus Russell and Cressey, 1979: A,B,F,W; [WCP: Papua to Sumatra].

S. tectus Cressey, 1981: B; [IAA; Bali]; (USNM).

S. variegatus (Lacepède, 1803): A,F,K,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Trachinocephalus myops (Forster, 1801): B,F,W; [Circumtropical; Papua to Sumatra]; (BPBM, USNM).

Ophidiidae - Cuskeels (1 sp.)

Key reference: Nielsen, 1999.

Brotula multibarbata Temminck and Schlegel, 1842: B,F,M; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Carapidae - Pearlfishes (6 spp.)

Key reference: Markle and Olney, 1990.

Carapus mourlani (Petit, 1934): [IWCP; Papua to Sumatra].

Encheliophis boraborensis (Kaup, 1856): [IWCP; Papua to Sumatra].

E. gracilis (Bleeker, 1856): [IWCP; Papua to Sumatra]; (BPBM, USNM).

E. vermicularis (Müller, 1842): [IP; Papua to Sumatra]; (USNM).

E. homei (Richardson, 1844): [IWCP; Papua to Sumatra]; (USNM).

Onuxodon fowleri (Smith, 1955): A,T; [IWCP; Papua to Sumatra]; (USNM, WAM).

Bythitidae - Livebearing brotulas (4 spp.)

Key reference: Cohen and Nielsen, 1978.

Brosomphyciops pautzkei Schultz, 1960:

A,F,K,R; [IWCP; Papua to Sumatra]; (BPBM, WAM).

Microbrotula randalli Cohen and Wourms, 1976: F; [WCP; Flores].

Dinematichthys sp.: A,F,K,R,T; [IAA; Papua to Sumatra].

Ogilbia sp.: (WAM) A,F,K,R,T; [undetermined; Papua to Sumatra].

Batrachoididae - Toadfishes (2 spp.)

Key references: Greenfield, 1999; Hutchins, 1976.

Batrachomoeus trispinosus (Günther, 1861): A; [IAA; Papua to Sumatra].

Halophyrne diemensis (Lesueur, 1824): A,R; [IAA; Papua to Sumatra]; (WAM).

Antennariidae - Anglerfishes (19 spp.)

Key reference: Pietsch and Grobecker, 1987.

Antennarius biocellatus (Cuvier, 1817): B; [IAA; Papua to Sumatra].

A. coccineus (Lesson, 1831): A,B; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

A. commersoni (Latreille, 1804): B,F,M; [IWCP; Papua to Bali].

A. dorehensis Bleeker, 1839: A,F; [IP; Papua to Kalimantan]; (WAM).

A. duescus Snyder, 1904: F; [WCP; Maumere, Flores]; (WAM).

A. hipidus (Bloch and Schneider, 1801): B,F; [IWP; Moluccas to Kalimantan].

A. maculatus (Desjardins, 1840): B,F,K,M; [IWP; Papua to Bali and Sulawesi].

A. nummifer (Cuvier, 1817): B,F,W; [IP; Papua to Sumatra]; (WAM).

A. pictus (Shaw and Nodder, 1794): B,M; [IWCP; Papua to Bali].

A. randalli Allen, 1970: B; [WCP; Bali].

A. rosaceus Smith and Radcliffe, 1912: T; [WCP; Timor and Moluccas to Togeans and Java]; (USNM, WAM).

A. striatus (Shaw and Nodder, 1794): [IWCP; Moluccas and Sulawesi].

Antennatus linearis Randall and Holcom, 2001: [IWCP; Moluccas]; (USNM).

A. tuberosus (Cuvier, 1817): B; [IWCP; Timor and Moluccas to Bali]; (USNM).

Histiophryne cryptacanthus (Weber, 1913): A; [IAA; Timor and Papua]; (WAM).

Histrio histrio (Linnaeus, 1758): F,S; [Circum-tropical; Papua to Sumatra]; (BPBM).

Lophiocharon trisignatus (Richardson, 1844): R; [IAA; Kalimantan to Riau Islands]; (WAM).

Nudiantennarius subteres (Smith and Radcliffe, 1912): F; [IAA; Moluccas and Flores].

Tathycarpus butleri Ogilby, 1907: [IAA; Oedjir I., Moluccas].

Gobiesocidae - Clingfishes (9 spp.)

Key references: Briggs, 1955; Myers, 1999; Randall, et al., 1997.

Conidens laticephalus (Tanaka, 1909): [WP; Ambon]; (USNM).

Diademichthys lineatus (Sauvage, 1883): A,B,F,K,M,P,R,S,W; [NIWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Discotrema crinophila Briggs, 1976: A,B,F,K,P; [WP; Papua to Java Sea]; (BPBM, WAM).

D. lineatum (Briggs, 1966): B,F; [IWP; Papua to Sumatra].

D. sp.: F; [WP; Flores].

Lepadichthys bolini Briggs, 1962: [EI-IAA; Banda Island]; (USNM).

L. caritus Briggs, 1969: [IWP; Alor and Flores]; (BPBM, USNM).

L. minor Briggs, 1955: [WP; Sulawesi Sea]; (USNM).

Pherallodus indicus (Weber, 1913); [WCP; Sumba and Sanana].

Atherinidae - Hardyheads (9 spp.)

Key reference: Ivantsoff and Crowley, 1999.

Atherinomorus duodecemalis (Valenciennes, 1835): [IAA; Papua to Java].

A. endrachtensis (Quoy and Gaimard, 1824): [IAA; Papua]; (BPBM, USNM, WAM).

A. lacunosus (Forster, 1801): A,T; [IAA; Papua to Togeian Islands]; (USNM, WAM).

A. lineatus (Günther, 1872): [IAA; Halmehera].

A. vaigiensis (Quoy and Gaimard, 1825): F,R; [IAA; Waigeo Island]; (BPBM, USNM).

Atherion elymus Jordan and Starks, 1901: [WP; Papua].

Hypoathernia temmincki (Bleeker, 1853): A; [IWCP; Papua to Java]; (USNM, WAM).

H. valenciennesi (Bleeker, 1853): [WP; Papua to Sumatra]; (USNM).

Stenatherina panatella (Jordan and Richardson, 1908): [WCP; Papua to Java]; (USNM).

Dentatherinidae - Tusked Silversides (1 sp.)

Key reference: Ivantsoff, 1999.

Dentatherina merceri Patten and Ivantsoff, 1983: A; [IAA; Papua and Halmahera].

Belonidae - Long Toms (4 spp.)

Key reference: Collette, 1999a.

Platybelone platyura (Bennett, 1831): A,F; [Circumtropical, Papua to Sumatra].

Strongylura incisa (Valenciennes, 1846): [EIWCP; Papua to Sumatra]; (USNM).

Tylosurus acus melanotus (Bleeker, 1850): A,B,F,K,S,T; [Circumtropical; Papua to Sumatra]; (USNM).

Tylosurus crocodilus (Peron and LeSueur, 1821): A,B,F,K,S,T; [Circumtropical; Papua to Sumatra]; (USNM).

Hemiramphidae - Garfishes (5 spp.)

Key reference: Collette, 1999a.

Hemiramphus far (Forsskål, 1775): B,F,P,R,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).

Hyporhamphus affinis (Günther, 1866): [IWCP; Papua to Sumatra]; (USNM).

H. dussumieri (Valenciennes, 1846): A,T; [IWCP; Papua to Sumatra]; (USNM, WAM).

Zenarchopterus dunckeri Mohr, 1926: A; [IAA; Papua to Moluccas]; (USNM, WAM).

Z. gilli Smith, 1945: F,K,S,T,W; [IWP; Papua to Sumatra]; (USNM).

Anomalopidae - Flashlightfishes (2 spp.)

Key reference: Myers, 1999.

Anomalops katoptron Bleeker, 1856: B; [WCP; Papua to Moluccas]; (USNM).

Photoblepharon palpebratus (Boddaert, 1781): B,F; [WCP; Papua to Bali].

Holocentridae - Squirrelfishes (31 spp.)

Key references: Randall and Greenfield, 1996; Randall, 1996.

Myripristis adusta Bleeker, 1853: A,F,K,S,T; [IWCP; Papua to Kalimantan]; (USNM).

M. amaena (Castelnau, 1873): F; [WCP; Flores].

M. aulacodes Randall and Greenfield, 1996: [ENDEMIC; Lombok]; (BPBM).

M. berndti Jordan and Evermann, 1903: A,F,K,M,T,W; [IP; Papua to Sumatra]; (BPBM, WAM).

M. botche Cuvier, 1829: F,K,M,S,W; [IWP; Halmehera to Sumatra]; (BPBM).

M. hexagona (Lacepède, 1802): A,B,K,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

M. kuntee Cuvier, 1831: A,F,K,M,T,W; [IWCP; Papua to Sumatra]; (BPBM).

M. murdjan (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

M. pralinia Cuvier, 1829: A,B,F,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).

M. trachyacron Bleeker, 1863: B; [IAA; Papua to Bali and Sulawesi]; (BPBM, USNM).

- M. vittata* Cuvier, 1831: A,B,F,K,M,S,T,W; [IWCP; Moluccas to Sumatra]; (WAM).
- M. violacea* Bleeker, 1851: A,F,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Neoniphon argenteus* (Valenciennes, 1831): A,B,F,K,T,W; [IWCP; Papua to Sumatra]; (BPBM).
- N. aurolineatus* (Liénard, 1839): B; [IWCP; Moluccas]; (BPBM, USNM).
- N. opercularis* (Valenciennes, 1831): B,F,R,T; [IWCP; Papua to Riau Islands]; (USNM).
- N. sammara* (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Sargocentron caudimaculatum* (Rüppell, 1838): A,B,F,K,M,K,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- S. cornutum* (Bleeker, 1853): A,B,F,K,M,P; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- S. diadema* (Lacepède, 1802): A,F,K,T; [IWCP; Papua to Sumatra]; (USNM).
- S. iota* Randall, 1998: [WCP; Moluccas]; (USNM).
- S. ittodai* (Jordan and Evermann, 1903): M; [IWCP; N. Sulawesi].
- S. melanospilos* (Bleeker, 1858): A,B,F,K,P; [IWCP; Papua to Sumatra].
- S. microstoma* (Günther, 1859): K,M,S; [EIWCP; Moluccas to Kalimantan]; (USNM).
- S. praslin* (Lacepède, 1802): B,F,K,M,S; [IWCP; Papua to Sumatra]; (USNM, WAM).
- S. punctatissimum* (Cuvier, 1829): [IWCP; Moluccas to Sulawesi]; (USNM).
- S. rubrum* (Forsskål, 1775): B,F,R,T; [IWP; Moluccas to Sumatra]; (BPBM, USNM, WAM).
- S. shimizui* Randall, 1988: [ENDEMIC; Gulf of Tomini]; (BPBM, USNM).
- S. spiniferum* (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- S. tiere* (Cuvier, 1829): A,T; [IWCP; Papua to Sulawesi]; (USNM).
- S. tiereoides* (Bleeker, 1853): F,S; [IWCP; Moluccas to Kalimantan]; (BPBM, USNM).
- S. violaceum* (Bleeker, 1853): A,F,T; [IWCP; Papua to Sumatra]; (USNM).

Pegasidae - Seamoths (2 spp.)

Key reference: Palsson and Pietsch, 1989.

- Eurypegasus draconis* (Linnaeus, 1758): A,B,F,T; [IWCP; Papua to Sumatra].
- P. volitans* Linnaeus, 1758: B; [IWCP; Moluccas to Bali and Sulawesi]; (BPBM).

Aulostomidae - Painted Flutemouths (1 sp.)

Key reference: Fritzsche and Thiesfeld, 1999.

- Aulostomus chinensis* (Linnaeus, 1758): A,F,K,M,P,S,T,W; [IP; Papua to Sumatra]; (USNM).

Fistulariidae - Flutemouths (1 sp.)

Key reference: Fritzsche and Thiesfeld, 1999.

- Fistularia commersonii* Rüppell, 1838: A,B,F,K,M,P,S,T,W; [IP; Papua to Sumatra]; (BPBM, USNM).

Centriscidae - Shrimpfishes (3 spp.)

Key reference: Fritzsche and Thiesfeld, 1999.

- Aeoliscus strigatus* (Günther, 1860): A,F,K,M,R,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
- Centriscus cristatus* (DeVis, 1885): B,S; [IAA; Papua to Sumatra].
- Centriscus scutatus* Linnaeus, 1758: A,F; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Solenostomidae - Ghost Pipefishes (6 spp.)

Key references: Kuitert, 2000; Orr and Fritzsche, 1993.

- Solenostomus armatus* Weber, 1913: [WP; Arafura Sea].
- S. cyanopterus* Bleeker, 1852: B,F; [IWP; Moluccas to Bali]; (BPBM).
- S. leptosomus* Tanaka, 1908: B; [IWP; Bali].
- S. paegnius* Jordan and Thompson, 1914: B; [IWP; Bali and Sulawesi].
- S. paradoxus* (Pallas, 1770): B,F,S; [IWCP; Moluccas to Bali and Sulawesi]; (BPBM).
- S. sp.*: [IWP; Bali and Sulawesi].

Syngnathidae - Pipefishes (60 spp.)

Key references: Dawson, 1985; Kuitert, 2000.

- Acentronura brevipercola* Fraser-Brunner and Whitley, 1949: B,F; [WP; Papua to Sumatra]; (WAM).
- Apterygocampus epinnulatus* Weber, 1913: F; [IAA; Moluccas].
- Bhanotia fasciolata* (Dumeril, 1870): Java [IAA; Papua to Sumatra]; (USNM).
- B. pauciradiata* Allen and Kuitert, 1994: F; [ENDEMIC; Flores].
- Bulbonaricus brauni* (Dawson and Allen, 1978): [IAA; W. Sumatra].
- B. davaoensis* (Herald, 1953): Banda Sea [WP; Papua to Moluccas and N. Sulawesi].
- Choeroichthys brachysoma* (Bleeker, 1855): A,R; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. cinctus* (Dawson, 1976): F; [WCP; Papua to

- Flores]; (BPBM, USNM, WAM).
- C. sculptus* (Günther, 1870): [IWCP; Papua to Sumatra]; (USNM).
- Corythoichthys amplexus* Dawson and Randall, 1975: F,K,M,R; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. haematopterus* (Bleeker, 1851): A,F,M,P,W; [WP; Papua to Sumatra]; (USNM).
- C. sp. 1* (sp. 2 of Kuitert, 2000): A; [IAA; Papua to Bali].
- C. sp. 2* (sp. 8 of Kuitert, 2000; similar to *flavo-fasciatus*): K,M,P,S,T; [WP; Komodo and Java to N. Sulawesi]; (USNM).
- C. sp. 3* (sp.10 of Kuitert, 2000; similar to *flavo-fasciatus*): A,F; [**ENDEMIC**; Moluccas to Flores]; (USNM; WAM).
- C. ocellatus* Herald, 1953: A,F; [WP; Papua to Sulawesi]; (WAM).
- C. polynotatus* Dawson, 1977: B,F; [IAA; Flores to Bali].
- C. schultzi* (Herald, 1953): A,F,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Cosmocampus banneri* Herald and Randall, 1972: [IWCP: Papua to Sumatra]; (USNM).
- C. darrosanus* Dawson and Randall, 1975: B; [IO-IAA; Bali].
- C. maxweberi* (Whitley, 1933): F; [WCP; Papua to Sumatra]; (USNM, WAM).
- Doryhamphus boylei* Kuitert, 1998: B; [IO].
- D. dactyliophorus* (Bleeker, 1853): A,B,F,M,P,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- D. japonicus* Araga and Yoshino, 1975: [WP; N. Sulawesi].
- D. melanopleura* (Bleeker, 1858): B,F,K; [WP; Flores to Komodo]; (USNM, WAM).
- D. janssi* (Herald and Randall, 1972): A,F,M,R; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- D. multiannulatus* (Regan, 1903): [IO; W. Sumatra].
- D. pessuliferus* (Fowler, 1938): B,M,T; [IAA; Bali to N. Sulawesi]; (BPBM, WAM).
- D. sp. 2* (Kuitert, 2000): M; [WP; N. Sulawesi].
- Halicampus brocki* (Herald, 1953): B,F,R; [WCP; Papua to Sumatra]; (USNM, WAM).
- H. dunckeri* (Chabanaud, 1929): A,B,F; [IAA; Papua to Bali]; (WAM).
- H. grayi* Kaup, 1856: F; [IWP; Papua to Sumatra]; (WAM).
- H. matafae* (Jordan and Seale, 1906): A,F; [IWCP; Papua to Sumatra]; (WAM).
- H. macrorhynchus* Bamber, 1915: B; Ambon, Pulau Putri [IWP; Moluccas to Java].
- H. nitidus* (Günther, 1873): [WP; Papua to Bali]; (USNM).
- H. spinostris* (Dawson and Allen, 1981): B,F; [IAA; Flores to Sumatra].
- Hippichthys cyanospilos* (Bleeker, 1854): B; [IWP; Papua to Sumatra].
- Hippocampus barbouri* Jordan and Richardson, 1908: [IAA; N. Sulawesi].
- H. bargibanti* Whitley, 1970: A,B,M; [WP; Papua to Bali and N. Sulawesi]; (BPBM).
- H. comes* Cantor, 1850: R; [EI IAA; Riau Islands].
- H. hystrix* Kaup, 1853: B,M; [WP; Bali to N. Sulawesi]; (BPBM).
- H. kamylotrachelos* Bleeker, 1854: B; [**ENDEMIC**; Bali to Sumatra].
- H. kuda* Bleeker, 1852: R; [EIWCP; Bali to N. Sulawesi]; (BPBM, USNM, WAM).
- H. moluccensis* Bleeker, 1852: M; [**ENDEMIC**; Moluccas to E. Sulawesi].
- H. polytaenia* Bleeker, 1852: F; [**ENDEMIC**; Flores].
- H. semispinosus* Kuitert, 2001: B; [**ENDEMIC**; Timor Sea to Bali].
- H. taeniopterus* Bleeker, 1852: [IAA; Moluccas to Bali and Sulawesi].
- Micrognathus andersoni* (Bleeker, 1858): [IWCP; Papua to Sumatra]; (USNM).
- M. micronotopterus* (Fowler, 1938): R; [IAA; Greater Sundas]; (USNM, WAM).
- M. natans* Dawson, 1982: F; [WP; Flores].
- M. pygmaeus* Fritzsche, 1981: [WCP: Papua to Moluccas]; (USNM).
- Minyichthys myersi* (Herald and Randall, 1972): F; [IWP; Papua to Flores].
- Nannocampus weberi* Duncker, 1915: B; [**ENDEMIC**; Sumba and Bali].
- Phoxocampus belcheri* (Kaup, 1856): A; [IWP; Papua to Sumatra]; (USNM, WAM).
- P. diacanthus* (Schultz, 1943): [EIWCP; Java and Sumatra].
- P. tetrophthalmus* (Bleeker, 1858): A; [IAA; Papua to Sumatra]; (WAM).
- Siokunichthys breviceps* Smith, 1963: B; [IWP; Bali]; (USNM).
- S. nigrolineatus* Dawson, 1983: A,F,S; [IAA; Papua to Kalimantan]; (BPBM, USNM).
- S. herrei* Herald, 1953: [WP; Papua to N. Sulawesi].
- Syngnathoides biaculeatus* Bloch, 1785: A,B,F; [IWP; Papua to Sumatra]; (BPBM, USNM).
- Trachyrhamphus bicoarctatus* (Bleeker, 1857): B,F; [IWP; Papua to Sumatra]; (BPBM, USNM).

T. longirostris Kaup, 1856: B; [IWP; Papua to Sumatra]; (USNM).

Scorpaenidae - Scorpionfishes (42 spp.)

Key references: Kuitert and Tonozuka, 2001; Myers, 1999; Poss, 1999; Randall and Eschmeyer, 2001.

Dendrochirus biocellatus (Fowler, 1938): B,F,M; [IWCP; Flores to Bali]; (BPBM, USNM).

D. brachypterus (Cuvier, 1829): B,F,M; [IWCP; Moluccas to Bali]; (USNM).

D. zebra (Cuvier, 1829): A,B,F,M,P,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).

Parapterois hetururus (Bleeker, 1856): B; [IWCP; Moluccas to Bali].

Parascorpaena mcadamsi (Fowler, 1938): B,F; [IWCP; Papua to Sumatra]; (USNM, WAM).

P. mossambica (Peters, 1855): F; [IWCP; Papua to Flores]; (BPBM, USNM).

P. picta (Cuvier, 1829): R; [EIWP; Papua to Sumatra]; (WAM).

Pteroidichthys amboinensis Bleeker, 1856: B,K; [WP; Moluccas to Bali].

Pterois antennata (Bloch, 1787): A,B,F,M,P,S,T; [IWCP; Papua to Sumatra]; (USNM).

P. kodipungi Bleeker, 1852: B; [**ENDEMIC**; Bali and Java].

P. miles Bennett, 1828: P; [IO; Java and Sumatra].

P. mombasae (Smith, 1957): B,M,W; [IWP; Flores to Sumatra].

P. muricata Cuvier, 1829: W; [IO; W Sumatra]; (USNM).

P. radiata Cuvier, 1829: B,M,P; [IWCP; Papua to Sumatra].

P. russellii Bennett, 1831: F,P; [IOIAA; Papua to Sumatra].

P. sp. (Kuitert and Tonozuka, 2001): [**ENDEMIC**; Moluccas to Flores and Sulawesi].

P. volitans (Linnaeus, 1758): A,B,F,K,M,P,S,T; [WCP; Papua to Sumatra]; (USNM).

Rhinopias frondosa (Günther, 1892): M; [IWP; Moluccas]; (BPBM).

Scorpaenodes albaiensis (Evermann and Seale, 1907): F; [IWP; Flores to Sumatra]; (BPBM, USNM, WAM).

S. corallinus Smith, 1957: [IWCP; Mentawai Islands].

S. guamensis (Quoy and Gaimard, 1824): A,B,F,K,M,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

S. hirsutus (Smith, 1957): A,F,K,M; [IWCP; Flores and Komodo to N. Sulawesi]; (WAM).

S. kelloggi (Jenkins, 1903): F,T; [WCP; Flores to

N. Sulawesi]; (USNM).

S. littoralis (Tanaka, 1917): K; [IWCP; Papua to Sumatra].

S. minor (Smith, 1958): F; [IWCP; Papua to Sumatra]; (BPBM, USNM).

S. parvipinnis (Garrett, 1863): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).

S. varipinnis Smith, 1957: K,T; [IWP; Komodo to N. Sulawesi]; (USNM, WAM).

Scorpaenopsis cotticeps Fowler, 1938: [IWP; Papua to Sumatra].

S. diabolus (Cuvier, 1829): B,F,R; [IWCP; Papua to Sumatra]; (USNM, WAM).

S. macrochir Ogilby, 1910: A,B; [WCP; Papua to Bali]; (USNM, WAM).

S. neglecta Heckel, 1837: [EIWP; Moluccas]; (BPBM, USNM).

S. oxycephala (Bleeker, 1849): A,B,F,K,M,S,T,W; [IWP; Papua to Sumatra]; (USNM).

S. papuensis (Cuvier, 1829): [WCP; Papua to Sumatra]; (BPBM, USNM).

S. possi Randall and Eschmeyer, 2001: [IWP; Papua to Sumatra].

S. ramarao Randall and Eschmeyer, 2001: [NIWP; Papua to Sumatra].

S. venosa (Cuvier, 1829): B,F,M,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).

S. vittapinna Randall and Eschmeyer, 2001: [IWCP; Papua to Sumatra].

Sebastapistes cyanostigma (Bleeker, 1856): A,B,F,K,M,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).

S. fowleri (Pietschmann, 1934): [IWCP; Papua to Sumatra]; (USNM).

S. mauritiana (Cuvier, 1829): [IWCP; Papua to Sumatra].

S. strongia (Cuvier, 1829): A; [IWCP; Papua]; (USNM, WAM).

Taenionotus triacanthus Lacepède, 1802: A,B,F,K,M,S,W; [IWCP; Papua to Sumatra].

Apistidae - Waspfishes (1 sp.)

Key reference: Poss, 1999.

Apistus carinatus (Bloch and Schneider, 1801): B,M; [WP; Papua to Java].

Tetrarogidae - Rougefishes (4 spp.)

Key references: Kuitert and Tonozuka, 2001; Poss, 1999.

Ablabys macracanthus (Bleeker, 1852): B,F,T; [EIIAA; Flores to Sumatra].

A. taenianotus (Cuvier, 1829): B,F,M; [WP; Papua to E. Kalimantan]; (BPBM, USNM).

Paracentropogon longispinis (Cuvier, 1829):

B,F,M; [WP; Moluccas to Sumatra]; (BPBM, USNM).

Richardsonichthys leucogaster (Richardson, 1848): M; [IWP; N. Sulawesi].

Synanceiidae - Stonefishes (8 spp.)

Key references: Kuitert and Tonzuka, 2001; Poss, 1999.

Inimicus cuvieri (Grey, 1835): [IAA; Java and Bali].

I. didactylus (Pallas, 1769): A,B,F,M,P, S,T; [WP; Flores to Kalimantan]; (BPBM).

I. sinensis (Valenciennes, 1833): [WP; Flores to Bali].

Minous monodactylus (Bloch and Schneider, 1801): [IWP; Moluccas to Sumatra].

M. pictus Günther, 1860: B; [IAA; Papua to Bali].

M. trachycephalus (Bleeker, 1854): B; [WP; Moluccas to Sumatra].

Synanceia horrida (Linnaeus, 1766): A,F,R; [EIWP; Papua to Sumatra]; (WAM).

S. verrucosa Bloch and Schnieder, 1801: A,B; [IWCP; Papua to Sumatra].

Caracanthidae - Coral Crouchers (1 sp.)

Key reference: Poss, 1999.

Caracanthus maculatus (Gray, 1831): A,B; [WCP; Papua to Bali]; (USNM).

Aploactinidae-Velvetfishes (3 spp.)

Key reference: Poss, 1999.

Cocotropus larvatus Poss and Allen, 1987: [WP; Banda]; (USNM).

C. sp.: K; [WP; Komodo].

Paraploactis sp.: M; [WP; N. Sulawesi].

Dactylopteridae - Flying Gurnards (3 spp.)

Key reference: Poss and Eschmeyer, 1999.

Dactyloptena orientalis (Cuvier, 1829): A,B,F; [IWC-Pacific; Papua to Sumatra].

D. macracantha Bleeker, 1854: M; [IWP; N. Sulawesi].

D. peterseni (Nyström, 1887): [IWP; Nusa Tenggara Islands].

Platycephalidae - Flatheads (11 spp.)

Key reference: Knapp, 1999.

Cymbacephalus beauforti (Knapp, 1973): A,B,F,K,T; [WP; Papua to Bali] (USNM).

C. bosschei (Bleeker, 1860): [IAA; Papua to Sumatra].

C. nematophthalmus (Günther, 1860): R; [IAA; Papua to Sumatra].

Onigocia pedimacula (Regan, 1908): F; [IWP; Flores].

O. spinosa (Günther, 1880): F, M; [WP; Flores and N. Sulawesi]; (USNM).

Rogadius serratus (Cuvier, 1829): [IWP; Moluccas to Bali].

R. welanderi (Schultz, 1966): M; [IWCP; Moluccas to Bali and Sulawesi]; (USNM).

Thysanophrys arenicola Schultz, 1966: F,T; [IWCP; Papua to Togeian Islands]; (WAM).

T. celebicus (Bleeker, 1845): [IWP; Papua and Sulawesi]; (BPBM, USNM).

T. chiltonae Schultz, 1966: A,F,K,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).

T. otaitensis (Bleeker, 1853): B,F,K; [IWCP; Papua to Sumatra]; (BPBM, USNM).

Centropomidae - Sea Perches (1 sp.)

Key reference: Larson, 1999.

Psammoperca waigiensis (Cuvier, 1828): A,F,R; [NIWP; Papua to Sumatra]; (BPBM).

Chandidae - Glassfishes (3 spp.)

Key references: Allen, 1999b; Allen and Burgess, 1990.

Ambassis kopsi Bleeker, 1858: R; [IAA; Riau Islands]; (WAM).

A. macracanthus Bleeker, 1849: F,M; [IAA; Papua to Sumatra].

A. urotaenia Bleeker, 1852: F; [NI-IAA; Flores and Sulawesi]; (WAM).

Centrogeniidae - False Scorpionfishes (1 sp.)

Key reference: Gill, 1999.

Centrogenys vaigiensis (Quoy and Gaimard, 1824): A,B,F,M,R; [WP; Papua to Sumatra]; (BPBM, WAM).

Serranidae - Groupers (102 spp.)

Key references: Heemstra and Randall, 1993; Heemstra and Randall, 1999; Randall, 1980; Randall and Heemstra, 1991; Randall and Lubbock, 1981; Randall and McCosker, 1992; Randall and Taylor, 1988.

Aethaloperca rogaa (Forsskål, 1775): A,B,F,K, S,T,W; [IWCP; Papua to Sumatra]; (USNM).

Anyperodon leucogrammicus (Valenciennes, 1828): A,B,F,K,M,P,R,T; [IWCP; Papua to Sumatra].

Belonoperca chabanaudi Fowler and Bean, 1930: F,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).

Cephalopholis aitha Randall and Heemstra, 1991: F; [IAA; Papua to Sulawesi and

- Flores]; (BPBM, USNM).
- C. argus* Bloch and Schneider, 1801: A,B,F,K, S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- C. boenack* (Bloch, 1790): A,B,F,K,P,R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. cyanostigma* (Valenciennes, 1828): A,B,F,K, M,P,R,S; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. formosa* (Shaw and Nodder, 1812): R; [EIWP; Kalimantan to Java and Sumatra]; (BPBM).
- C. leopardus* (Lacepède, 1802): A,B,F,K,M, S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- C. microprius* (Bleeker, 1852): B,F,K,P,S,T,W; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. miniata* (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. nigripinnis* (Valenciennes, 1828): W; [IO; Java and W. Sumatra].
- C. pollenii* (Bleeker, 1868): F,T; [IWCP; Papua to Sumatra]; (BPBM).
- C. polyspila* Randall and Satapoomin, 2000: [EIO; Indian Ocean coast of Sumatra]; (BPBM)
- C. sexmaculata* (Rüppell, 1830): A,B,F,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
- C. sonnerati* (Valenciennes, 1828): B,F,K,M,S, T,W; [IWCP; Papua to Sumatra]; (BPBM).
- C. spiloparaea* (Valenciennes, 1828): A,B,F,K, M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- C. urodeta* (Forster, 1801): A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
- Cromileptes altivelis* (Valenciennes, 1828): A,B,F,K,M,R,S,T; [WP; Papua to Sumatra]; (BPBM).
- Diploprion bifasciatum* Cuvier, 1828: A,F,K,P,R, T,W; [EIWP; Papua to Sumatra]; (USNM).
- Epinephelus areolatus* (Forsskål, 1775): A,B,F,K,M,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
- E. bilobatus* Randall and Allen, 1987: A; [IAA; Papua].
- E. bleekeri* (Vaillant, 1849): B,F; [IWP; Moluccas to Sumatra]; (BPBM, USNM).
- E. bontoides* (Bleeker, 1855): B,F,P; [IAA; Moluccas to Bali]; (BPBM).
- E. caeruleopunctatus* (Bloch, 1790): A,B,F,M, T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. cooides* (Hamilton, 1822): A,B,K,M,P,R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. corallicola* (Valenciennes, 1828): P,T; [WP; Papua to Sumatra]; (USNM, WAM).
- E. cyanopodus* (Richardson, 1846): F; [WCP; Papua to Flores and Sulawesi]; (BPBM).
- E. erythrourus* (Valenciennes, 1828): [NIIAA; Sulawesi to Sumatra]; (WAM).
- E. fasciatus* (Forsskål, 1775): A,B,F,K,M,P, R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- E. faveatus* (Valenciennes, 1828): B; [EIIAA; Bali and Lombok]; (BPBM).
- E. flavocaeruleus* (Lacepède, 1802): B,W; [IO; Bali to W. Sumatra].
- E. fuscoguttatus* (Forsskål, 1775): A,B,F,K,M, P,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. hexagonatus* (Forster, 1801): F,K,T; [IWCP; Papua to Sumatra]; (USNM).
- E. lanceolatus* (Bleeker, 1790): A; [IWCP; Papua to Sumatra].
- E. longispinis* (Kner, 1864): B,W; [IO; Bali and Lombok to Sumatra]; (BPBM, USNM).
- E. macrospilos* (Bleeker, 1855): A,T,W; [IWCP; Papua to Sumatra]; (USNM).
- E. maculatus* Bloch, 1790: A,B,F,K,M,S; [WCP; Papua to Java and Kalimantan]; (USNM).
- E. malabaricus* (Bloch and Schneider, 1801): B,R; [IWP; Papua to Sumatra]; (USNM, WAM).
- E. melanostigma* Schultz, 1953: A,B,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- E. merra* Bloch, 1793: A,B,F,K,P,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
- E. miliaris* (Valenciennes, 1830): [IWCP; N. Sulawesi]; (BPBM).
- E. oncus* (Bloch, 1790): A,B,F,K,M,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. polyphkadion* (Bleeker, 1849): A,B,F,K,M, T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- E. quoyanus* (Valenciennes, 1830): B,F,K,R; [WP; Papua to Sumatra]; (BPBM, USNM).
- E. rivulatus* (Valenciennes, 1830): B; [IWP; Timor and Flores]; (BPBM).
- E. sexfasciatus* (Valenciennes, 1828): M; [IAA; Papua to Sumatra]; (BPBM).
- E. spilotoceps* Schultz, 1953: A,W; [IWCP; Papua to Sumatra]; (USNM).
- E. tauvina* (Forsskål, 1775): F,K; [IWCP; NE Kalimantan].
- E. tukula* Morgans, 1959: B,F; [IWP; Flores].
- E. undulosus* (Quoy and Gaimard, 1824): B,F,M,W; [IWP; Papua to Sumatra]; (BPBM).
- Gracila albomarginata* (Fowler and Bean, 1930):

- A,F,M,S,T; [IWCP; Papua to Sumatra].
- Grammistes sexlineatus* (Thünberg, 1792): A,B,F,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Grammistops ocellatus* Schultz, 1953: A; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Liopropoma africanum* (Smith, 1954): [IO; W. Sumatra]; (BPBM).
- L. mitratum* Lubbock and Randall, 1978: [IWCP; Ceram]; (BPBM, USNM, WAM).
- L. multilineatum* Randall and Taylor, 1988: T; [WP; Togeian Islands and N. Sulawesi].
- L. susumi* (Jordan and Seale, 1906): A; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Liopropoma swalesi* (Fowler and Bean, 1930): F; [IAA; Sulawesi and Moluccas]; (BPBM, USNM).
- L. tonstrinum* Randall and Taylor, 1988: [WCP; N. Sulawesi]; (BPBM).
- Luzonichthys taeniatus* Randall and McCosker, 1992: F; [**ENDEMIC**; Banda Sea]; (BPBM, USNM).
- L. waitei* (Fowler, 1931): A,B,F,M; [IWCP; Papua to Bali]; (BPBM, USNM, WAM).
- Plectranthias fourmanoiri* Randall, 1980: [WCP; Banda Islands]; (USNM).
- P. inermis* Randall, 1980: B,F; [IAA; Papua to Bali]; (BPBM, USNM).
- P. longimanus* (Weber, 1913): B,F,K,M; [WP; Papua to Bali]; (BPBM, WAM).
- P. wheeleri* Randall, 1980: [**ENDEMIC**; Kai Islands to N. Sulawesi]; (BPBM).
- Plectropomus areolatus* Rüppell, 1830: A,B,F,K,M; [IWCP; Papua to Sumatra]; (USNM).
- P. laevis* (Lacepède, 1801): B,F,K,S; [IWCP; Papua to Sumatra]; (USNM).
- P. leopardus* (Lacepède, 1802): A,B,F,M,S; [WP; Papua to Kalimantan]; (BPBM).
- P. maculatus* (Bloch, 1790): A,F,K,P,R; [IAA; Papua to Sumatra]; (BPBM, USNM).
- P. oligacanthus* Bleeker, 1854: A,B,F,S; [WCP; Papua to Sumatra]; (USNM).
- P. pessuliferus* Fowler, 1904: B; [IWP; Bali to W. Sumatra].
- Pogonoperca ocellata* Günther, 1859: W; [IO; N. Sumatra].
- P. punctata* (Valenciennes, 1830): A,T; [WCP; Papua to Sumatra].
- Pseudanthias bicolor* (Randall, 1979): B,F,M,W; [IWCP; Papua to Sumatra]; (USNM).
- P. bimaculatus* (Smith, 1955): B,P; [IO; Bali to W. Sumatra]; (BPBM).
- P. cichlops* (Bleeker, 1853): [**ENDEMIC**; Sumatra].
- P. cooperi* (Regan, 1902): T,W; [IWCP; Papua to Sumatra].
- P. dispar* Herre, 1955: A,B,F,K,M,S,T; [WCP; Papua to Sumatra]; (BPBM).
- P. evansi* (Smith, 1954): W; [IO; W. Sumatra]; (USNM).
- P. fasciatus* (Kamohara, 1954): A,S; [IWP; Papua to Kalimantan]; (BPBM).
- P. flavoguttatus* (Katayama and Masuda, 1980): B; [WP; Bali].
- P. huchtii* (Bleeker, 1856): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, WAM).
- P. hutomoi* Allen and Burhanuddin, 1976: B,M; [IAA; Moluccas to Bali]; (BPBM, WAM).
- P. hypselosoma* Bleeker, 1978: B,K,M,P,T,W; [EIWP; Papua to Sumatra]; (BPBM).
- P. ignitus* (Randall and Lubbock, 1981): W; [EIO; N. Sumatra].
- P. lori* (Lubbock and Randall, 1981): B,F,K,T; [WCP; Papua to Bali]; (BPBM, WAM).
- P. luzonensis* (Katayama and Masuda, 1983): A,B,F,K,M; [IAA; Papua to Komodo]; (BPBM).
- P. parvirostris* (Randall and Lubbock, 1981): B,W; [IWP; Papua to Sumatra]; (BPBM, WAM).
- P. pascalus* (Jordan and Tanaka, 1927): M; [WCP; N. Sulawesi].
- P. pleurotaenia* (Bleeker, 1857): A,B,F,K,M,T; [WP; Papua to Bali]; (BPBM, USNM).
- P. randalli* (Lubbock and Allen, 1978): B,F; [WP; Flores to Bali]; (BPBM, WAM).
- P. rubrizonatus* Randall, 1983: F,M; [WP; Papua to Flores and Sulawesi].
- P. smithvanizi* (Randall and Lubbock, 1981): B,F,K; [WCP; Flores to Bali]; (BPBM, USNM, WAM).
- P. squamipinnis* (Peters, 1855): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. tuka* Herre and Montalban, 1927: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- Pseudogramma astigmum* Randall and Baldwin, 1997: [IWCP; W. Sumatra]; (BPBM).
- P. polyacantha* (Bleeker, 1856): A,F,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Serranocirrhitis latus* Watanabe, 1949: A,B,F,M; [WP; Papua to Sulawesi].
- Suttonia lineata* Gosline, 1960: [WCP; Moluccas to N. Sulawesi]; (BPBM, USNM).
- Variola albomarginata* Baissac, 1952: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra];

(BPBM).

V. louti (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).

Pseudochromidae - Dottybacks (45 spp.)

Key references: Allen, 1987; Allen and Randall, 1985; Gill, 1999; Winterbottom, 1985. Genes and species in quotation marks will be described in forthcoming revision by A. Gill.

Amsichthys knighti (Allen, 1987): A,F,M,T; [WP; Papua to Sumatra]; (USNM, WAM).

Congrogadus malayanus (Weber, 1909): [IAA; Aru Islands].

C. subducens (Richardson, 1843): R; [EIIAA; Papua to Sumatra]; (USNM, WAM).

Cypho sp.: A; [WP; Papua to Sulawesi]; (BPBM, WAM).

Haliophis aethiopus Winterbottom, 1985: [ENDEMIC; Bali]; (BPBM).

Labracinus cyclophthalmus (Müller and Troschel, 1849): A,B,F,K,M,T; [WP; Papua to Sumatra]; (USNM, WAM).

L. melanotaenia (Bleeker, 1852): F,S; [IAA; Flores to Kalimantan].

Lubbockichthys multisquamatus (Allen, 1987): F,M; [WCP; Flores and N. Sulawesi]; (USNM, WAM).

"*Manonichthys*" "*alleni*" Gill, in press: B,S; [IAA; Bali and NE Kalimantan]; (WAM).

"*M.*" "*polynemus*" (Fowler, 1931): M; [IAA; N. Sulawesi]; (WAM).

"*M.*" "*splendens*" (Fowler, 1931): A,F; [ENDEMIC; Papua to Flores and S. Sulawesi]; (BPBM, USNM, WAM).

"*Pictichromis*" "*aurifrons*" (Lubbock, 1980): [IAA; Papua].

"*P.*" "*diadema*" (Lubbock and Randall, 1978): S; [IAA; NE Kalimantan].

"*P.*" "*ephippiata*" Gill, Pyle and Earle, 1996: [IAA; N. Sulawesi].

"*P.*" "*paccagnellae*" (Axelrod, 1973): B,F,K,M,T; [IAA; Moluccas to Bali and Sulawesi]; (BPBM, USNM, WAM).

"*P.*" "*porphyrea*" (Lubbock and Goldman, 1974): A; [WCP; Papua to Banda Sea]; (BPBM, USNM, WAM).

"*Pholidochromis*" "*cerasina*" Gill and Tanaka, in press: [IAA; Sulawesi].

Pseudochromis "*alticaudex*" Gill, in press: [IAA; Boo Islands].

P. andamanensis Lubbock, 1980: W; [EIIAA; W. Sumatra].

P. aurulentus Gill and Randall, 1998: K; [ENDEMIC; Komodo]; (BPBM, WAM).

P. bitaeniatus Fowler, 1931: A,B,K,F,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).

P. coccinicauda (Tickell, 1888): B; [EIO; Bali to W. Sumatra]; (USNM).

P. cometes Gill and Randall, 1998: K; [ENDEMIC; Komodo]; (BPBM).

P. cyanotaenia Bleeker, 1857: A,B; [WP; Papua to Bali]; (BPBM, USNM).

P. elongatus Lubbock, 1980: A,F,K,M,T; [ENDEMIC; Papua to Lombok and Sulawesi]; (BPBM, USNM, WAM).

P. flavopuncatus Gill and Randall, 1998: K; [ENDEMIC; Komodo]; (BPBM).

P. fowleri Herre, 1934: [IAA; N.E. Kalimantan].

P. fuscus Müller and Troschel, 1849: A,B,F,K,M,P,S,T; [EIIAA; Papua to Sumatra]; (BPBM, USNM, WAM).

P. litus Gill and Randall, 1998: K; [ENDEMIC; Wetar to Komodo]; (BPBM).

P. marshallensis (Schultz, 1953): A,F,K,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM, WAM).

P. "*mooii*" Gill, in press: K; [ENDEMIC; Komodo].

P. perspicillatus Günther, 1862: A,K,S; [IAA; Papua to Lombok and Kalimantan]; (BPBM, WAM).

P. pictus Gill and Randall, 1998: [ENDEMIC; Alor]; (BPBM).

P. pylei Randall and McCosker, 1989: [IAA; Banda Sea]; (BPBM).

P. ransonneti Steindachner, 1870: R; [IAA; Java and Sumatra]; (USNM, WAM).

P. steenei Gill and Randall, 1992: B; [ENDEMIC; Alor to Bali]; (BPBM, USNM).

P. sp.: A; [ENDEMIC; Papua and Halmahera]; (WAM).

P. "*tonozukai*" Gill and Allen, in press: W; [ENDEMIC; N. Sumatra]; (WAM).

P. tapeinosoma Bleeker, 1853: A; [IAA; Papua to Sumatra]; (USNM, WAM).

Pseudoplesiops annae (Weber, 1913): A,F,T; [IAA; Papua to Flores and Togeian Islands]; (USNM, WAM).

P. collare Gill, Randall, and Edwards, 1991: F; [ENDEMIC; Moluccas to Flores].

P. "*immaculatus*" Gill, in press: S; [EIWP; Moluccas to Kalimantan]; (WAM).

P. rosae Schultz, 1953: F,M; [EIWCP; Papua to Sumatra]; (USNM, WAM).

P. sp.: [ENDEMIC; Togeian Islands]; (WAM).

P. typus Bleeker, 1858: A,F,T; [WCP; Papua to Kalimantan]; (USNM, WAM).

Plesiopidae - Prettyfins (14 spp.)

Key references: Mooi, 1995; Smith-Vaniz and Johnson, 1990.

Acanthoplesiops echinatus Smith-Vaniz and Johnson, 1990: T; [IAA; Moluccas and Togeian Islands]; (BPBM, USNM, WAM).

A. hiatti Schultz, 1953: F; [WCP; Moluccas to Flores]; (USNM).

Belonepterygion fasciolatum (Ogilby, 1889): A; [EIWP; Raja Ampats]; (WAM).

Calloplesiops altivelis (Steindachner, 1903): B,F,M,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Plesiops auritus Mooi, 1995: [EIIAA; Java and Sumatra]; (USNM).

P. caeruleolineatus Rüppell, 1835: A,F,R,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

P. cephalotaenia Inger, 1955: F,T; [WP; Papua to Flores and Sulawesi]; (USNM, WAM).

P. corallicola Bleeker, 1853: A,W; [EIWCP; Papua to Sumatra]; (USNM, WAM).

P. favicavus Mooi, 1995: T; [ENDEMIC; Togeian Islands]; (USNM, WAM).

P. gracilis Mooi and Randall, 1991; [IAA; Batanta Island, Papua].

P. oxycephalus Bleeker, 1855: [WP; W. Sumatra]; (USNM).

P. thysanopterus Mooi, 1995: [ENDEMIC; N. Sumatra]; (USNM).

P. verecundus Mooi, 1995: [WP; Papua to Sumatra]; (BPBM, USNM).

Steeneichthys nativitatis Allen, 1987: S; [IAA; Kalimantan]; (WAM).

Notograptidae - Bearded Eelblennies (1 sp.)

Key reference: Mooi, 1999.

Notograptus guttatus Günther, 1867: [IAA; Tanimbar Island]; (WAM).

Opistognathidae - Jawfishes (14 spp.)

Key reference: Smith-Vaniz, 1999; Smith-Vaniz (2001 pers. comm.).

Opistognathus castelnaui Bleeker, 1859: [WP; Papua to Bali].

O. decorus Smith-Vaniz and Yoshino, 1985: M; [WP; N. Sulawesi]; (WAM).

O. dendriticus (Jordan and Richardson, 1908): T; [IAA; Banggai Islands to Sumatra].

O. papuensis (Bleeker, 1868): [IAA; Waigeo Island, Papua].

O. rosenbergi Bleeker, 1856: K; [EIIAA; Komodo to Sumatra]; (WAM).

O. solorensis Bleeker, 1853: [WP; Solor].

O. sp. 1: A,B,F,K,M,S,T; [IAA; Papua to

Kalimantan]; (WAM).

O. sp. 2: A,M; [IAA; Papua to Sulawesi].

O. sp. 3: W; [IAA; N. Sumatra]; (WAM).

O. sp. 4: [WCP; Komodo]; (BPBM).

O. sp. 5: [WCP; Papua to Flores].

O. sp. 6: [IAA; Flores]; (BPBM).

Stalix histrio Jordan and Snyder (1902): M; [WP; Lembeh Strait, N. Sulawesi].

S. versluysi (Weber, 1913): [ENDEMIC; Moluccas to Flores]; (BPBM).

Terapontidae - Grunters (2 spp.)

Key reference: Vari, 1978; 2001.

Terapon jarbua (Forsskål, 1775): A,F,K,M,R,S, T; [IWCP; Papua to Sumatra]; (USNM, WAM).

Pseudoterapon theraps (Cuvier, 1829): A,F,P; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Kuhliidae - Flagtails (1 sp.)

Key reference: Randall et al., 1997.

Kuhlia mugil (Forster, 1801): [IWCP; Moluccas to Sumatra].

Priacanthidae - Bigeyes (7 spp.)

Key references: Starnes, 1988; Starnes, 1999.

Cookeolus japonicus (Cuvier, 1829): B; [Circumtropical; Papua to Sumatra]; (USNM).

Heteropriacanthus cruentatus (Lacepède, 1801): F; [Circumtropical; Papua to Sumatra]; (USNM).

Priacanthus blochii Bleeker, 1853: B,F; [IWP; Papua to Sumatra]; (BPBM, USNM).

P. hamrur (Forsskål, 1775): A,B,F,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).

P. macracanthus Cuvier, 1829: [WP; Papua to Sumatra]; (USNM).

P. sagittarius (Starnes, 1988): F; [IWCP; Flores]; (USNM).

P. tayenus Richardson, 1846: [NIWP; Papua to Sumatra]; (USNM).

Apogonidae - Cardinal Fishes (114 spp.)

Key references: Allen, 1998; Allen, 1999b; Allen, 2001a; Gon, 1993; Kuitert and Kozawa, 1999; Randall, et al., 1985.

Apogon abrogramma Fraser and Lachner, 1985: A,F,W; [IWP; Papua to Sumatra].

A. angustatus (Smith and Radcliffe, 1912): A,B,F,K,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).

A. apogonides (Bleeker, 1856): B,F,K,W; [IWP; Papua to Sumatra]; (BPBM, WAM).

A. argyrogaster (Weber, 1909); [IAA; Papua].

- A. aureus* (Lacepède, 1803): A,B,F,K,M,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. bandanensis* Bleeker, 1854: A,B,F; [EIWP; Papua to Bali]; (USNM, WAM).
- A. cavitiensis* (Jordan and Seale, 1907): A,P,R; [IAA; Papua to Sumatra]; (USNM, WAM).
- A. ceramensis* Bleeker, 1852: A,F,T; [IAA; Papua to Flores and Togeian Islands].
- A. chrysopoma* Bleeker, 1854: A,F,K,M,R,S,T; [IAA; Papua to Kalimantan]; (USNM).
- A. chrysoaenia* Bleeker, 1851: A,F,K; [IAA; Papua to Komodo]; (BPBM).
- A. cladophilos* Allen and Randall, 2002: [WP; Flores].
- A. compressus* Smith and Radcliffe, 1911: A,B,F,K,P,T,W; [WP; Papua to Sumatra]; (BPBM, WAM).
- A. cooki* Macleay, 1881: F,K,R; [IWP; Flores to Sumatra]; (BPBM, USNM, WAM).
- A. crassiceps* Garman, 1903: A,K,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. cyanosoma* Bleeker, 1853: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. dispar* Fraser and Randall, 1976: A,B,F,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. doryssa* Jordan and Seale, 1906: A,B; [EIWCP; Papua to Sumatra]; (WAM).
- A. endekataenia* Bleeker, 1852: R,W; [IAA; Java and Sumatra]; (USNM, WAM).
- A. evermanni* Jordan and Snyder, 1904: B,F,T; [IWCPA; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. exostigma* Jordan and Starks, 1906: A,F,K,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. fleurieu* (Lacepède, 1803): A,F,M,R,S; [IWP; Flores to Sumatra]; (USNM, WAM).
- A. fraenatus* Valenciennes, 1832: A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. fragilis* Smith, 1961: A,F,K,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- A. franssedai* Allen, Kuitert, and Randall, 1994: F,T,W; [EIWP; Flores to Sumatra]; (BPBM, USNM, WAM).
- A. gilberti* (Jordan and Seale, 1905): F,K,T; [WP; Flores to Komodo and Togeian Islands]; (BPBM, USNM).
- A. guamensis* Valenciennes, 1832: F,K,M,P,R,S; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. hartzfeldi* Bleeker, 1852: A,F,K,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. hoeveni* Bleeker, 1854: A,F,K,S,T; [WP; Papua to Kalimantan]; (BPBM).
- A. holotaenia* (Regan, 1905): R,T; [NIIAA; Togeian Islands and Sumatra] (WAM).
- A. jenkinsi* (Evermann and Seale, 1907): A,K,T; [WP; Komodo and Togeian Islands]; (BPBM).
- A. kallopterus* Bleeker, 1856: A,B,F,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. kiensis* Jordan and Snyder, 1901: F,T; [WP; Flores and Togeian Islands]; (BPBM).
- A. komodoensis* Allen, 1998: K; [**ENDEMIC**; Komodo]; (WAM).
- A. lateralis* Valenciennes, 1832: F,K,M,R,S; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. lepatacanthus* Bleeker, 1856: A,F,K,P,T,W; [IWCP; Papua to Sumatra]; (USNM).
- A. leptofasciatus* Allen, 2001: [**ENDEMIC**; Papua]; (WAM).
- A. lineomaculatus* Allen and Randall, 2002: B,F; [**ENDEMIC**; Flores to Bali]; (BPBM, USNM, WAM).
- A. margaritophorus* Bleeker, 1854: K,R; [IAA; Komodo to Sumatra]; (BPBM, USNM).
- A. melanoproctus* Fraser and Randall, 1976: A; [IAA; Bali and N. Sulawesi]; (BPBM, WAM).
- A. melas* Fowler, 1918: F,R; [WP; Flores To Sumatra]; (USNM, WAM).
- A. microspilos* Allen and Randall, 2002: [**ENDEMIC**; Lombok]; (BPBM).
- A. moluccensis* Valenciennes, 1832: A,B,F,K,M,T,W; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. monospilus* Fraser, Randall, and Allen 2001: B, F; [IAA; Papua to Bali]; (BPBM, USNM, WAM).
- A. multilineatus* Bleeker, 1865: A,F,M,P,R,S,T; [IAA; Papua to Sumatra] (BPBM, USNM, WAM).
- A. nanus* Allen, Kuitert, and Randall, 1994: A,F,M,R; [IAA; Papua to Sumatra]; (BPBM, USNM).
- A. neotes* Allen, Kuitert, and Randall, 1994: A,F; [IAA; Papua to Flores].
- A. nigrofasciatus* Lachner, 1953: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. novemfasciatus* Cuvier, 1828: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (USNM).
- A. ocellicaudus* Allen, Kuitert, and Randall, 1994: F,R,T; [IAA; Papua to Sumatra]; (BPBM,

- USNM, WAM).
- A. oxygrammus* Allen, 2001: [ENDEMIC; Papua]; (WAM).
- A. parvulus* Smith and Radcliffe, 1912: A,F,K,M,P,S,T; [WP: Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. perlitus* Fraser and Lachner, 1985: A,F,K,W; [IAA; Papua to Sumatra]; (USNM, WAM).
- A. posterofasciatus* Allen and Randall, 2002: [IAA; Flores]; (USNM).
- A. properupta* (Whitley, 1964): K,P,R,W; [WP; Komodo to Sumatra]; (WAM).
- A. quadrifasciatus* Cuvier, 1828: F; [IWP; Papua to Sumatra]; (BPBM, USNM).
- A. rhodopterus* Bleeker, 1852: A,F; [WP; Papua to Flores]; (USNM, WAM).
- A. rufus* Randall and Fraser, 1999: F; [WP; Flores]; (BPBM).
- A. savayensis* (Günther, 1871): A,B,F,M,P,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- A. sealei* Fowler, 1918: A,F,M,T; [WP; Papua to Flores and Sulawesi]; (BPBM, USNM).
- A. selas* Randall and Hayashi, 1900: A,T; [WP; Papua to Togeian Islands]; (BPBM, WAM).
- A. semiornatus* Peters, 1876: B,F,K,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. striatus* Smith and Radcliffe, 1912: [IAA; Flores to Lombok]; (BPBM, USNM).
- A. taeniophorus* Regan, 1908: A,F,K,M; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. talboti* Smith, 1961: A,F; [IWP; Papua to Flores]; (BPBM, USNM, WAM).
- A. thermalis* Cuvier, 1829: A,F,K,M,P,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. timorensis* Bleeker, 1854: A,B,M,T; [IWP; Papua to Sumatra]; (USNM, WAM).
- A. trimaculatus* Cuvier, 1828: A,F,P,R,T; [WCP; Papua to Sumatra]; (USNM, WAM).
- A. wassinki* Bleeker, 1860: A,B,T; [IAA; Papua to Bali and Sulawesi]; (BPBM, WAM).
- Apogonichthys ocellatus* (Weber, 1913): A; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. perdix* Bleeker, 1854: A,T; [IWCP; Papua to Sumatra]; (WAM).
- Archamia ataenia* Randall and Satapoomin, 1999: [EIO; Sumatra]; (BPBM).
- A. biguttata* Lachner, 1951: A,B,F,K,P; [WP; Papua to Java]; (USNM, WAM).
- A. bleekeri* (Günther, 1859): R; [IWP; Flores to Sumatra]; (WAM).
- A. buruensis* (Bleeker, 1856): B; [IAA; Papua to Moluccas]; (BPBM, USNM, WAM).
- A. fucata* (Cantor, 1850): A,B,F,K,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. macroptera* (Cuvier, 1828): A,B,F,K,M,P,R,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. zosterophora* (Bleeker, 1856): A,F,K,P,T,W; [WP; Papua to Sumatra]; (BPBM, USNM).
- Cercamia eremia* (Allen, 1987): A,B,F,S; [IWP; Papua to Sumatra]; (WAM).
- Cheilodipterus alleni* Gon, 1993: A,B,F,S,T; [IAA; Papua to Kalimantan]; (USNM, WAM, WAM).
- C. artus* Smith, 1961: A,B,F,K,M,P,R,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. intermedius* Gon, 1993: [WP; Java].
- C. isostigma* Schultz, 1940: F; [WP; Papua to Kalimantan].
- C. macrodon* (Lacepède, 1802): A,B,F,K,M,P,R,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
- C. nigrotaeniatus* Smith and Radcliffe, 1912: A,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- C. quinquelineatus* Cuvier, 1828: A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. singaporensis* Bleeker, 1859: A,F; [WP; Papua to Sumatra]; (USNM).
- Foa fo* Jordan and Seale, 1906: F; [EIWCP; Papua to Sumatra]; (USNM, WAM).
- F. hyalina* (Smith and Radcliffe, 1912): [IAA; Papua to Sulawesi]; (USNM).
- Fowleria aurita* (Valenciennes, 1831): A,F,T; [IWP; Papua to Sumatra]; (WAM).
- F. flammea* Allen, 1993: [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- F. marmorata* (Alleyne and Macleay, 1877): F,M; [IWCP; Papua to Sumatra]; (USNM, WAM).
- F. punctulata* (Rüppell, 1838): A,F; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- F. vaiulae* (Jordan and Seale, 1906): B,F,K,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- F. variegata* (Valenciennes, 1832): K,R,T; [IWCP; Papua to Sumatra]; (WAM).
- Gymnapogon philippinus* (Herre, 1939): K,P; [WP; Komodo to Java Sea]; (WAM).
- G. urospilotus* Lachner, 1953: A,F; [WCP; Papua to Flores]; (BPBM, USNM, WAM).
- Neamia octospina* Smith and Radcliffe, 1912: [IWP; Moluccas]; (USNM).
- Pseudamia amblyuroptera* (Bleeker, 1856): [IAA; Moluccas to Java]; (BPBM, USNM, WAM).
- P. gelatinosa* Smith, 1955: A,T; [IWCP; Papua to Sumatra]; (USNM, WAM).

- P. hayashii* Randall, Lachner, and Fraser, 1985: A,B,S; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. zonatus* Randall, Lachner, and Fraser, 1985: B; [IAA; Papua to Bali].
- Pterapogon kauderni* Koumans, 1933: T; [ENDEMIC; Banggai Islands]; (WAM).
- Rhabdamia cypselurus* Weber, 1909: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- R. gracilis* (Bleeker, 1856): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- R. spilota* Allen and Kuitert, 1994: B,F,K,M; [ENDEMIC; Flores to Bali and N. Sulawesi]; (USNM, WAM).
- Siphamia corallicola* Allen, 1993: B; [IAA; Papua to Bali].
- S. fistulosa* (Weber, 1909): [ENDEMIC; Sumbawa to Java Sea]; (BPBM, USNM).
- S. fuscilineata* Lachner, 1953: B [WCP; Biak to Bali]; (USNM, WAM).
- S. jebbi* Allen, 1993: T; [WP; Togeian Islands]; (BPBM, USNM, WAM).
- S. majimae* Matsubara and Iwai, 1958: K,T; [WP; Papua to Komodo and Togeian Islands]; (BPBM, WAM).
- S. tubifer* Weber, 1909: F; [WP; Papua to Flores]; (WAM).
- S. tubulata* (Weber, 1910); [IAA; Papua to Sumba].
- Sphaeramia nematoptera* (Bleeker, 1856): A,F,K,P,S,T; [WCP; Papua to Java]; (USNM).
- S. orbicularis* (Cuvier, 1828): A,F,K,P,R,T,W; [IWP; Papua to Sumatra]; (USNM, WAM).

Sillaginidae - Whiting (2 spp.)

Key reference: McKay, 1992.

- Sillago aeolus* Jordan and Evermann, 1909: R; [IWP; Java and Sumatra]; (WAM).
- S. sihama* (Forsskål, 1775): F,M,R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Branchiostegidae- Tilefishes (9 spp.)

Key references: Allen and Kuitert, 1989; Dooley, 1999; Kuitert and Tonozuka, 2001; Randall, 1981.

- Hoplotalilus chlupatyi* Klausewitz, McCosker, Randall and Zetzsche, 1978: B; [IAA; Bali].
- H. cuniculus* Randall and Dooley, 1974: A,B,F,W; [IWCP: Papua to Sumatra].
- H. luteus* Allen and Kuitert, 1989: F; [ENDEMIC; Flores to Bali]; (WAM).
- H. fronticinctus* (Günther, 1887): B; [IWP; Bali].
- H. marcosi* Burgess, 1978: B; [IAA; Bali].

- H. purpureus* Burgess, 1978: A,B; [IAA; Papua to Bali].
- H. starcki* Randall and Dooley, 1974: A,F,K,M,T; [WCP; Papua to Komodo and Sulawesi].
- Malacanthus brevirostris* Guichenot, 1848: A,B,F,K,M,T,W; [IP; Papua to Sumatra]; (WAM).
- M. latovittatus* (Lacepède, 1802): A,B,F,K,M,T,W; [IP; Papua to Sumatra].

Rachycentridae - Cobias (1 sp.)

Key reference: Collette, 1999b.

- Rachycentron canadum* (Linnaeus, 1766): F (IWP; Papua to Sumatra)

Echeneidae - Remoras (1 sp.)

Key reference: Collette, 1999b.

- Eceneis naucrates* Linnaeus, 1758: A,K,R,S; [Circumtropical ; Papua to Sumatra]; (USNM).

Carangidae - Trevallies (41 spp.)

Key reference: Smith-Vaniz, 1999.

- Alectis ciliaris* (Bloch, 1788): B,R; [Circumtropical; Papua to Sumatra]; (BPBM).
- A. indica* (Rüppell, 1830): [IWP; Papua to Sumatra].
- Alepes djedaba* (Forsskål, 1775): [IWP; Papua to Sumatra]; (BPBM).
- A. melanoptera* Swainson, 1839: R; [NIWP; Komodo to Sumatra].
- A. vari* (Cuvier, 1833): R; [NIWP; Papua to Sumatra].
- Atule mate* (Cuvier, 1833): F; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Carangoides bajad* (Forsskål, 1775): A,B,F,T; [NIWP; Papua to Sumatra]; (USNM).
- C. caeruleopinnatus* (Rüppell, 1830): F,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. chrysophrys* (Cuvier, 1833): F; [IWP; Papua to Sumatra].
- C. dinema* Bleeker, 1851: B; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- C. ferdau* (Forsskål, 1775): A,B,F,K,M,P,S,T; [IWCP; Papua to Sumatra]; (USNM).
- C. fulvoguttatus* (Forsskål, 1775): A,K,P,T; [IWP; Papua to Sumatra].
- C. gymnostethus* (Cuvier, 1833): M; [IWP; Papua to Sumatra].
- C. malabaricus* (Bloch and Schneider, 1801): [IWP; Papua to Sumatra].
- C. oblongus* (Cuvier, 1833): F; [IWP; Papua to Sumatra].
- C. orthogrammus* Jordan and Gilbert, 1881: B; [IP; Papua to Sumatra].

- C. plagiotaenia* Bleeker, 1857: A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
Caranx heberi (Bennett, 1830): B; [IWP; Moluccas to Sumatra].
C. ignobilis (Forsskål, 1775): A,B,F,K,S; [IWCP; Papua to Sumatra]; (WAM).
C. lugubris Poey, 1860: B; [Circumtropical; Papua to Sumatra].
C. melampygyus Cuvier, 1833: A,B,F,K,M,R,S,T,W; [IP; Papua to Sumatra]; (USNM).
C. papuensis Alleyne and Macleay, 1877: A,F,M,P,T; [IWCP; Papua to Sumatra]; (USNM).
C. sexfasciatus Quoy and Gaimard, 1824: A,B,F,T; [IP; Papua to Sumatra]; (USNM, WAM).
C. tile Cuvier, 1833: [IWP; Papua to Sumatra].
Elegatis bipinnulatus (Quoy and Gaimard, 1825): A,B,F,K,M,S,T; [Circumtropical; Papua to Sumatra]; (USNM).
Gnathanodon speciosus (Forsskål, 1775): A,K,M,R,T; [IP; Papua to Sumatra]; (USNM).
Scomberoides commersonianus Lacepède, 1801: R; [IWP; Papua to Sumatra].
S. lysan (Forsskål, 1775): A,B,M,T,W; [WCP; Papua to Sumatra]; (USNM).
S. tala (Cuvier, 1832): S; [IAA; Papua to Sumatra].
S. tol (Cuvier, 1832): F; [IWP; Moluccas to Sumatra].
Selar boops (Valenciennes, 1833): A,B,F; [IWP; Papua to Sumatra]; (USNM, WAM).
S. crumenophthalma (Bloch, 1793): A,F,K,P,W; [Circumtropical; Papua to Sumatra].
Selaroides leptolepis (Kuhl and Van Hasselt, 1833): A,B,R,T; [NIWP; Papua to Sumatra].
Seriola dumerilli (Risso, 1810): [Circumtropical; Komodo area].
S. rivoliiana Valenciennes, 1833: B,F; [Circumtropical; Timor to Bali].
Seriolina nigrofasciata (Rüppell, 1829): M; [IWP; Papua to Sumatra].
Trachinotus africanus Smith, 1967: [IO; Bali].
T. baillonii (Lacepède, 1801): B; [IWCP; Papua to Sumatra]; (USNM).
T. blochi (Lacepède, 1801): A,B,M,P; [IWCP; Papua to Sumatra].
T. botla (Shaw, 1803): [IO; W Java].
Ulua mentalis (Cuvier, 1833): F; [IWP; Papua to Sumatra]; (USNM, WAM).

Leiognathidae - Ponyfishes (2 spp.)

Key reference - Woodland et al., 2001.

- Gazza minuta* (Bloch, 1797): R; [IWP; Papua to

Sumatra]; (BPBM, WAM, USNM).

- Leiognathus daura* (Cuvier, 1829): R; [NIWP; Riau Islands]; (WAM).

Lutjanidae - Snappers (43 spp.)

Key references: Allen, 1985; Allen and Talbot, 1985; Anderson and Allen, 2001.

- Aphareus furca* (Lacepède, 1802): F,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
A. rutilans Cuvier, 1830: M; [IWCP; Papua to Sumatra]; (BPBM).
Aprion virescens Valenciennes, 1830: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
Lutjanus argentimaculatus (Forsskål, 1775): A,B,F,K,R,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
L. bengalensis (Bloch, 1790): B,M,T,W; [IOIAA; Moluccas to Sumatra]; (WAM).
L. biguttatus (Valenciennes, 1830): A,B,F,K,P,S,T; [EIIAA; Papua to Sumatra]; (USNM).
L. bitaeniatus (Valenciennes, 1830): [IAA; Sulawesi to Sumatra].
L. bohar (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
L. boutton (Lacepède, 1803): A,B,F,M,T; [IAA; Papua to Bali]; (BPBM, USNM).
L. carponotatus (Richardson, 1842): A,K,P,R,T; [EIIAA; Papua to Sumatra] (BPBM, USNM, WAM).
L. decussatus (Cuvier, 1828): A,B,F,K,M,P,R,S,T,W; [EIIAA; Papua to Sumatra]; (BPBM, USNM).
L. dodecacanthoides (Bleeker, 1854): [IAA; Moluccas to Sulawesi]; (BPBM).
L. ehrenbergii (Peters, 1869): A,F,K,M,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
L. erythropterus Bloch, 1790: B,P; [IWP; Papua to Sumatra]; (BPBM).
L. fulviflamma (Forsskål, 1775): A,B,F,K,M,P,R,T,W; [IWCP; Papua to Sumatra]; (USNM).
L. fulvus (Schneider, 1801): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
L. fuscescens (Valenciennes, 1830): F; [WP; Papua to Flores]; (WAM).
L. gibbus (Forsskål, 1775): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
L. johnii (Bloch, 1790): A,F,S; [IWP; Papua to Sumatra]; (BPBM, USNM).
L. kasmira (Forsskål, 1775): A,B,F,K,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
L. lemniscatus (Valenciennes, 1828): A,F,R; [EIIAA; Papua to Sumatra]; (BPBM, USNM).
L. lunulatus (Park, 1797): T; [NIIAA; Papua to

Sumatra]; (BPBM, WAM).

- L. lutjanus* Bloch, 1790: A,B,F,K,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- L. madras* (Valenciennes, 1831): B,R; [IWP; Papua to Sumatra]; (WAM).
- L. malabaricus* Schneider, 1801: B,F; [IWP; Papua to Sumatra]; (BPBM, WAM).
- L. mizenkoi* Allen and Talbot, 1985: B,F; [WCP; Papua to Sulawesi].
- L. monostigma* (Cuvier, 1828): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- L. quinquelineatus* (Bloch, 1790): A,B,F,K,T; [NIWP; Papua to Sumatra]; (BPBM, USNM).
- L. rivulatus* (Cuvier, 1828): A,B,F,K,M,P,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- L. rufolineatus* (Valenciennes, 1828): B,F,K,T,W; [WP; Papua to Sumatra].
- L. russelli* (Bleeker, 1849): A,F,K,R; [IWP; Papua to Sumatra]; (USNM, WAM).
- L. sebae* (Cuvier, 1828): B,F; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- L. semicinctus* Quoy and Gaimard, 1824: A,M; [WCP; Papua to Sulawesi].
- L. timorensis* (Quoy and Gaimard, 1824): B,F; [WP; Papua to Sumatra]; (USNM, WAM).
- L. vitta* (Quoy and Gaimard, 1824): A,B,F,K,M,P,R,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Macolor macularis* Fowler, 1931: A,B,F,K,M,S,T,W; [WCP; Papua to Sumatra]; (USNM).
- M. niger* (Forsskål, 1775): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].
- Paracaesio sordidus* Abe and Shinohara, 1962: A,B,F; [EIWCP; Papua to Sumatra].
- P. xanthurus* (Bleeker, 1854): B,F,K; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- Pinjalo lewisi* Randall, Allen, and Anderson, 1987: A; [IWP; Papua to Sumatra].
- P. pinjalo* (Bleeker, 1850): K; [IWP; Papua to Sumatra]; (BPBM, WAM).
- Symphorichthys spilurus* (Günther, 1874): A,B,F,M,S; [WP; Papua to Sumatra]; (USNM).
- Symphorus nematophorus* (Bleeker, 1860): B,F,K,R,T; [WP; Papua to Sumatra]; (BPBM, USNM).

Caesionidae - Fusilers (18 spp.)

Key references: Carpenter, 1987, 1988, 2001.

- Caesio carulaurea* Lacepède, 1801: A,B,F,K,M,R,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- C. cuning* (Bloch, 1792): A,B,F,K,M,P,R,S,T; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).

- C. lunaris* Cuvier, 1830: A,B,F,K,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. teres* Seale, 1906: A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- C. varilineata* Carpenter, 1987: B,W; [IO; W.Bali and W. Sumatra]; (BPBM).
- C. xanthonota* Bleeker, 1853: F,W; [IOIAA; Papua to Sumatra]; (BPBM).
- Dipterygonatus balteatus* (Valenciennes, 1830): A,B; [IWP; Papua to Sumatra]; (BPBM, USNM).
- Gymnoaesio gymnoptera* (Bleeker, 1856): B,F,K; [IWP; Papua to Sumatra]; (BPBM, USNM).
- Pterocaesio chrysozona* (Cuvier, 1830): B,F,M,P,R,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. digramma* (Bleeker, 1865): A,B,F,K,M,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. marri* Schultz, 1953: A,B,F,K,M,T; [IWCP; Papua to Sumatra].
- P. pisang* (Bleeker, 1853): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- P. randalli* Carpenter, 1987: F,M,T,W; [IAA; Moluccas to Sumatra]; (USNM).
- P. sp. 1* Kuitert and Tonozuka, 2001: W; [IO; Java and W. Sumatra].
- P. sp. 2* Randall and Kunzmann, 1998: W; [IO; W. Sumatra].
- P. tessellata* Carpenter, 1987: A,B,F,K,M,S,T; [EIIAA; Papua to Sumatra]; (BPBM, USNM).
- P. tile* (Cuvier, 1830): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- P. trilineata* Carpenter, 1987: B,F,K,M,S; [WCP; Papua to Kalimantan]; (BPBM, USNM).

Gerreidae - Silver Biddies (6 spp.)

Key references: Myers, 1999; Woodland, 2001.

- Gerres argyreus* (Bloch and Schneider, 1801): F,K,P,T; [IWCP; Papua to Sumatra].
- G. erythrourus* (Bloch, 1791): F,K,P,T; [EIWP; Papua to Sumatra]; (BPBM, USNM).
- G. filamentosus* Cuvier, 1829: A,F,M; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. longirostris* (Lacepède, 1801): P,W; [IWP; Papua to Sumatra].
- G. macracanthus* Bleeker, 1854: A,M; [IWP; Papua to Sumatra]; (USNM).
- G. oyena* (Forsskål, 1775): A,R,S,T; [IWCP; Papua to Sumatra]; (WAM).

Haemulidae - Sweetlips (13 spp.)

Key references: Myers, 1999; Randall et al., 1997;

- Johnson et al., 2001; McKay, 2001.
Diagramma pictum (Thunberg, 1792): A,B,F,K,M,R,T; [IAA; Papua to Sumatra]; (BPBM).
D. melanacrum Johnson, Randall and Chenoweth, 2001: [IAA; Papua to Kalimantan]; (BPBM).
Plectorhinchus albovittatus (Rüppell, 1838): A,B,F,K,P,S,W; [IWP; Papua to Sumatra].
P. chaetodonoides Lacepède, 1800: A,B,F,K,M,R,S,T,W; [IWP; Papua to Sumatra].
P. chrysotaenia (Bleeker, 1855): A,B,F; [WP; Papua to Flores]; (BPBM).
P. flavomaculatus (Cuvier, 1830): B,K; [IWP; Papua to Sumatra].
P. gibbosus (Lacepède, 1802): A,B,F,K,P,R,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
P. lessoni (Cuvier, 1830): A,B,F,K,S,T; [WP; Papua to Kalimantan]; (BPBM).
P. lineatus (Linnaeus, 1758): A,B,F,K,T; [WP; Papua to Komodo and Togean Islands]; (BPBM, USNM).
P. picus (Cuvier, 1830): B,F,M; [IWCP; Papua to Sumatra].
P. polytaenia (Bleeker, 1852): A,B,F,K,T; [IAA; Papua to Bali and Togean Islands]; (BPBM).
P. unicolor (Macleay, 1883): A,B; [IAA; Papua to Bali].
P. vittatus (Linnaeus, 1758): A,B,F,K,P,T,W; [IWCP; Papua to Sumatra]; (BPBM).

Lethrinidae - Emperors (26 spp.)

Key reference: Carpenter, 2001; Carpenter and Allen, 1989.

- Gnathodentex aurolineatus* (Lacepède, 1802): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
Gymnocranius fraenatus Bleeker, 1873: [IAA; Sulawesi to Java].
G. grandoculis (Valenciennes, 1830): A,B,K,W; [IWCP; Papua to Sumatra]; (BPBM).
G. griseus (Schlegel, 1844): B,F,K,S; [NIWP; Papua to Sumatra].
G. microdon (Bleeker, 1857): B; [WCP; Moluccas to Sumatra]; (BPBM).
G. sp. Carpenter and Allen, 1989: F; [WP; Flores].
Lethrinus amboinensis Bleeker, 1854: [WCP; Papua to Sumatra].
L. atkinsoni Seale, 1909: A,F,P,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM).
L. conchylatus (Smith, 1959): [IO; Timor to Sumatra].
L. erythracanthus (Valenciennes, 1830): A,B,F,

- K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
L. erythropterus (Valenciennes, 1830): A,B,F,K,M,P,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM).
L. genivittatus Valenciennes, 1830: B,F,K; [WP; Papua to Sumatra]; (USNM).
Lethrinus harak (Forsskål, 1775): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
L. laticaudis Alleyne and Macleay, 1877: A; [IAA; Timor to Bali].
L. lentjan (Lacepède, 1802): A,F,M,S,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
L. microdon Valenciennes, 1830: B,F; [IWP; Papua to Sumatra]; (USNM).
L. nebulosus (Forsskål, 1775): B,F,R; [IWCP; Papua to Sumatra]; (USNM).
L. obsoletus (Forsskål, 1775): A,B,F,K,M,R,T,W; [IWCP; Papua to Sumatra]; (USNM).
L. olivaceus Valenciennes, 1830: A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
L. ornatus Valenciennes, 1830: A,B,F,K,P,R,T; [EIWP; Papua to Sumatra]; (BPBM, USNM).
L. reticulatus Valenciennes, 1830: [EIWP; Papua to Kalimantan].
L. rubrioperculatus Sato, 1978: K; [IWCP; Papua to Sumatra].
L. semicinctus Valenciennes, 1830: A,B; [EIWCP; Papua to Sumatra].
L. sp. 1 Carpenter and Allen, 1989; [EIO; Bali to Sumatra].
L. variegatus Valenciennes, 1830: A,F,K; [IWP; Papua to Sumatra]; (USNM).
L. xanthocheilus Klunzinger, 1870: A,B,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
Monotaxis grandoculis (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].

Nemipteridae - Coral Breems (22 spp.)

Key reference: Kuitert and Tonozuka, 2001; Russell, 1990, 2001.

- Pentapodus bifasciatus* (Bleeker, 1848): B,R; [IAA; Bali and Kalimantan to Sumatra].
P. caninus (Cuvier, 1830): A,M,F; [WCP; Papua to Sumatra]; (BPBM, USNM).
P. emeryi (Richardson, 1843): F,K,M; [IAA; Flores to Kalimantan]; (BPBM, USNM).
P. nagasakiensis (Tanaka, 1915): [WP; Papua to Kalimantan].
P. setosus (Valenciennes, 1830): A,B,P,R; [IAA; Papua to Sumatra]; (BPBM, WAM).
P. sp. (Russell, 1990): A,B,K,S,T; [WCP; Papua to Kalimantan].
P. trivittatus (Bloch, 1791): A,F,K,M,P,R,T; [WP;

- Papua to Sumatra]; (BPBM,, WAM).
Scolopsis affinis Peters, 1877: A,B,F,K,M,P,S, T,W; [WP; Papua to Sumatra]; (BPBM).
S. aurata (Park, 1797): B,P; [EIO; Bali to W. Sumatra]; (BPBM).
S. bilineata (Bloch, 1793): A,B,F,K,M,P,R,S,T,W; [EIWP; Papua to Sumatra]; (USNM).
S. ciliata (Lacepède, 1802): A,B,F,K,M,P,R, S,T,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
S. lineata Quoy and Gaimard, 1824: A,B,F,K, M,P,R,S,T,W; [WCP; Papua to Sumatra]; (USNM).
S. margaritifer (Cuvier, 1830): A,B,F,K,M,P, R,S,T,W; [WP; Papua to Sumatra]; (BPBM, USNM).
S. monogramma (Cuvier, 1830): A,K,P,R,S,T; [WP; Papua to Sumatra]; (BPBM, WAM).
S. sp. Kuitert and Tonozuka, 2001: B,F; [IAA; Papua to Bali]; (WAM).
S. taenioptera (Valenciennes, 1830): F; [WP; Papua to Sumatra]; (USNM).
S. temporalis (Cuvier, 1830): A; [IAA; Papua to E. Sulawesi]; (USNM).
S. trilineata Kner, 1868: A,K,T; [WCP; Papua to E. Kalimantan]; (BPBM, USNM).
S. torquata (Cuvier, 1830): B,R; [IO; Bali to W. Sumatra]; WAM).
S. vosmeri (Bloch, 1792): A,B,R; [WP; Papua to Sumatra]; (USNM).
S. xenochrous (Günther, 1872): A,B,F,K,M,T,W; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Mullidae - Goatfishes (19 spp.)

- Key reference: Myers, 1999; Randall, 2001a; Randall et al., 1997.
Mulloidichthys flavolineatus (Lacepède, 1801): A,B,F,K,P,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
M. pflugeri (Steindachner, 1900); [WCP; Moluccas].
M. vanicolensis (Valenciennes, 1831): B,F,K, T,W; [IWCP; Papua to Sumatra].
Parupeneus barberinoides (Lacepède, 1801): A,B,F,K; [WCP; Papua to Kalimantan].
P. barberinus (Lacepède, 1801): A,B,F,K,M,P, S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
P. ciliatus (Lacepède, 1802): K; [IWP; E. Kalimantan].
P. crassilabris (Valenciennes, 1831): B; [WCP; Papua to Java]; (BPBM).
P. cyclostomus (Lacepède, 1801): A,B,F,K,M,S,

- T,W; [IWCP; Papua to Sumatra]; (USNM).
P. heptacanthus (Lacepède, 1801): A,B,F,K,M, P,R; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
P. indicus (Shaw, 1803): A,B,F,M,T,W; [IWP; Papua to Sumatra]; (USNM).
P. macronema (Lacepède, 1801): B,F,K,W; [NIIAA; Papua to Sumatra]; (USNM).
P. multifasciatus (Quoy and Gaimard, 1824): A,B,F,K,M,T; [WCP; Papua to Bali and Sulawesi]; (USNM).
P. pleurostigma (Bennett, 1831): A,B,F,K,S,T,W; [IWCP; Papua to Sumatra].
P. spilurus (Bleeker, 1854): K,M; [WP; N. Sulawesi]; (BPBM).
P. trifasciatus Lacepède, 1801: B,F,W; [IO; Flores to Sumatra].
Upeneus moluccensis (Bleeker, 1855): F; [IWP; Papua to Sumatra].
U. tragula Richardson, 1846: A,B,F,K,M,P,R, T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
U. sulphureus Cuvier, 1829: F; [IWP; Papua to Sumatra]; (BPBM).
U. vittatus (Forsskål, 1775): F,M; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Pempheridae - Sweepers (6 spp.)

Key reference: Mooi, 2001.

- Parapriacanthus ransonneti* Steindachner, 1870: A,B,F,K,S,T,W; [IWCP; Irian Jaya to Sumatra]; (BPBM, WAM).
Pempheris adusta Bleeker, 1877: B; [IWP; Papua to Sumatra].
P. mangula (Cuvier, 1829): F; [IWP; Papua to Sumatra].
P. otaitensis Lesson, 1830: B,F,M,T,W; [IWCP; Papua to Sumatra].
P. schwenkii Bleeker, 1855: F; [IWP; Papua to Sumatra].
P. vanicolensis Cuvier, 1831: A,F,K,M,R,T,W; [IWP; Papua to Sumatra]; (WAM).

Toxotidae - Archerfishes (1 sp.)

Key reference: Allen, 1978.

- Toxotes jaculatrix* (Pallas, 1767): A,T; [EIWP; Papua to Sumatra]; (USNM, WAM).

Kyphosidae - Rudderfishes (3 spp.)

Key references: Myers, 1999; Sakai, 2001.

- Kyphosus bigibbus* Lacepède, 1801: A,T; [IWCP; Papua to Sumatra].
K. cinerascens (Forsskål, 1775): A,B,F,K,P,R,S, T,W; [IWCP; Papua to Sumatra]; (BPBM,

USNM).

K. vaigiensis (Quoy and Gaimard, 1825): A,B, F,K,R,T,W; [IWCP; Papua to Sumatra].

Monodactylidae - Moonfishes (1 sp.)

Key reference: Myers, 1999; Kottelat, 2001.

Monodactylus argenteus (Linnaeus, 1758): A,B,F,M,R; [IWCP; Papua to Sumatra]; (USNM, WAM).

Chaetodontidae - Butterflyfishes (59 spp.)

Key references: Burgess, 1978; Allen et al., 1998; Pyle, 2001.

Chaetodon adiergastos Seale, 1910: A,B,F,K, R,S,T; [WP; Papua to Riau Islands]; (BPBM, USNM).

C. andamanensis Kuitert and Debelius, 1999: W; [N. Sumatra].

C. auriga (Forsskål, 1775): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).

C. baronessa Cuvier, 1831: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).

C. bennetti Cuvier, 1831: A,B,F,K,M,S,T; [IWCP; Papua to Kalimantan].

C. burgessi Allen and Starck, 1973: B,F,T; [WP; Flores to Togeian Islands].

C. citrinellus Cuvier, 1866: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].

C. collare Bloch, 1787: B,P,W; [NIO; Bali to Sumatra].

C. decussatus Cuvier, 1831: B,F,K,W; [IO; Flores to Sumatra]; (WAM).

C. ephippium Cuvier, 1831: A,B,F,K,M,T; [EIWCP; Papua to Sumatra].

C. falcula Bloch, 1795: W; [IO; W. Java to W. Sumatra].

C. gardineri Norman, 1939: W; [IO; N. Sumatra].

C. guentheri Ahl, 1923: B,K,M; [WP; Bali to N. Sulawesi].

C. guttatissimus Bennett, 1833: B,W; [IO; Bali to W. Sumatra].

C. interruptus Ahl, 1923: W; [IO; N. Sumatra].

C. kleinii Bloch, 1790: A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).

C. lineolatus Cuvier, 1830: A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM).

C. lunula (Lacepède, 1802): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).

C. lunulatus (Quoy and Gaimard, 1824): A,B,F,K,M,S,T; [WCP; Papua to Sumatra]; (USNM, WAM).

C. madagaskariensis Ahl, 1923: W; [IO; W.

Sumatra].

C. melannotus Bloch and Schneider, 1801: A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).

C. mertensii Cuvier, 1831; [WCP; Halmahera].

C. meyeri Bloch and Schneider, 1801: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).

C. ocellicauda Cuvier, 1831: A,B,F,K,M,T; [WP; Papua to Sumatra].

C. octofasciatus Bloch, 1787: A,K,R,S; [EIWP; Papua to Sumatra] (USNM, WAM).

C. ornatissimus Cuvier, 1831: A,B,F,K,S,T,W; [EIWCP; Papua to Sumatra].

C. oxycephalus Bleeker, 1853: A,B,F,K,M,T,W; [EIWP; Papua to Sumatra].

C. pelewensis Kner, 1868: M; [WCP; Papua to N. Sulawesi].

C. punctatofasciatus Cuvier, 1831: A,B,F,K,S,T; [WCP; Papua to Kalimantan]; (USNM).

C. rafflesi Bennett, 1830: A,B,F,K,M,P,S,T,W; [EIWCP; Papua to Sumatra]; (USNM, WAM).

C. reticulatus Cuvier, 1831: M; [WCP; Papua to Sulawesi].

C. selene Bleeker, 1853: A,B,F,K,M,T; [WP; Papua to Kalimantan]; (BPBM, WAM).

C. semeion Bleeker, 1855: A,B,F,M,S,T; [EIWCP; Papua to Sumatra].

C. speculum Cuvier, 1831: A,B,F,K,M,S,T; [WP; Papua to Kalimantan] (USNM).

C. triangulum Cuvier, 1831: P,W; [IO; Java Sea and W. Sumatra].

C. trifascialis Quoy and Gaimard, 1824: A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).

C. trifasciatus Park, 1797: B,W; [IO; Bali to W. Sumatra].

C. ulietensis Cuvier, 1831: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan].

C. unimaculatus Bloch, 1787: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan].

C. vagabundus Linnaeus, 1758: A,B,F,K,M,S, T,W; [IWCP; Papua to Sumatra].

C. weibli Kaup, 1863: [WP; Karimunjawa., Java Sea].

C. xanthocephalus Bennett, 1832: W; [IO; N. Sumatra].

C. xanthurus Bleeker, 1857: A,B,F,K,T; [WP; Papua to Kalimantan]; (USNM).

Chelmon rostratus (Linnaeus, 1758): A,B, F,K,P,R,T; [WP; Papua to Sumatra]; (BPBM, WAM).

Coradion altivelis McCulloch, 1916: B,K; [WP; Papua to Sumatra].

- C. chrysozonus* (Cuvier, 1831): B,F,K,M,P,R, S,T; [WP; Papua to Sumatra]; (WAM).
- C. melanopus* (Cuvier, 1831): B,F,K; [IAA; Papua to Komodo and Sulawesi]; (BPBM, WAM).
- Forcipiger flavissimus* Jordan and McGregor, 1898: A,B,F,K,M,R,S,T,W; [IP; Papua to Sumatra].
- F. longirostris* (Broussonet, 1782): A,B,F,M, S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Hemitaurichthys polylepis* (Bleeker, 1857): A,B,F,K,S,T; [IWCP; Papua to Kalimantan].
- H. zoster* (Bennett, 1831): W; [IO; S. Java to W. Sumatra]; (BPBM).
- Heniochus acuminatus* (Linnaeus, 1758): A,B,F,K,M,R,T,W; [IWCP; Papua to Sumatra]; (USNM).
- H. chrysostomus* Cuvier, 1831: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan].
- H. diphreutes* Jordan, 1903: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- H. monoceros* Cuvier, 1831: A; [IWCP; Papua to Sumatra].
- H. pleurotaenia* Ahl, 1923: P,W; [EIO; Java Sea to W. Sumatra].
- H. singularis* Smith and Radcliffe, 1911: A,B,F,K,M,S,T,W; [EIWCP; Papua to Sumatra]; (BPBM, USNM).
- H. varius* (Cuvier, 1829): A,B,F,K,M,P,S,T; [WCP; Papua to Kalimantan]; (USNM).
- Parachaetodon ocellatus* (Cuvier, 1829): A,F,K,R; [WP; Papua to Riau Islands]; (BPBM, USNM).

Pomacanthidae - Angelfishes (30 spp.)

Key reference: Allen et al., 1998; Kuitert and Tonozuka, 2001; Pyle, 2001.

- Apolemichthys griffisi* Carson and Taylor, 1981: [WCP; N. Sulawesi].
- A. trimaculatus* (Cuvier, 1831): A,B,F,K,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- Centropyge aurantia* Randall and Wass, 1974: M; [WCP; N. Sulawesi]; (USNM).
- C. bicolor* (Bloch, 1787): A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).
- C. bispinosa* (Günther, 1860): A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
- C. colini* Smith-Vaniz and Randall, 1974: [WCP; Lucipara Islands]; (BPBM).
- C. eibli* Klausewitz, 1963: B,F,P,W; [EIO; Flores to Sumatra]; (BPBM, USNM).
- C. flavicauda* Fraser-Brunner, 1933: A,B,F,K,M, S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).

- C. flavipectoralis* Randall and Klausewitz, 1977: W; [EIO; N. Sumatra].
- C. flavissimus* (Cuvier, 1831): [WCP; S. Java].
- C. multispinus* (Playfair and Günther, 1867): W; [IO; N. Sumatra].
- C. nox* (Bleeker, 1853): A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM).
- C. tibicen* (Cuvier, 1831): A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- C. vrolicki* (Bleeker, 1853): A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- Chaetodontoplus chrysocephalus* (Bleeker, 1854): [WP; Tonozuka photo, Karimun Is., Java Sea].
- C. dimidiatus* (Bleeker, 1860): A; [ENDEMIC; Papua to Sulawesi].
- C. melanosoma* (Bleeker, 1853): K; [IAA; Komodo and Bali].
- C. mesoleucus* (Bleeker, 1857): A,B,F,K,M, P,R,S,T; [WP; Papua to Riau Islands]; (BPBM, USNM).
- Genicanthus bellus* Randall, 1975: B; [WCP; Bali].
- G. caudovittatus* (Günther, 1860): W; [IO; N. Sumatra].
- G. lamarck* (Lacepède, 1802): A,B,F,K,M,T; [WP; Papua to Kalimantan]; (BPBM).
- G. melanospilos* (Bleeker, 1857): A,B,F,M,S; [WP; Papua to Kalimantan].
- Paracentropyge multifasciata* (Smith and Radcliffe, 1911): A,B,F,M,S,T; [IWCP; Papua to Kalimantan]; (USNM, WAM).
- Pomacanthus annularis* (Bloch, 1787): B,R; [IWP; Papua to Sumatra]; (USNM).
- P. imperator* (Bloch, 1787): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- P. navarchus* (Cuvier, 1831): A,B,F,K,M,S,T; [IAA; Papua to Sumatra]; (BPBM, USNM).
- P. semicirculatus* (Cuvier, 1831): A,B,F,K,P,S,W; [IWCP; Papua to Sumatra]; (USNM).
- P. sexstriatus* (Cuvier, 1831): A,B,F,K,M,P, R,S,T; [WP; Papua to Sumatra]; (USNM, WAM).
- P. xanathometon* (Bleeker, 1853): A,B,F,K,M,P,S,T; [EIWP; Papua to Sumatra]; (USNM).
- Pygoplites diacanthus* (Boddaert, 1772): A,B,F, K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (WAM).

Cirrhitidae - Hawkfishes (10 spp.)

Key reference: Kuitert and Tonozuka, 2001;

Randall, 1963, 2001a.

- Amblycirrhitus bimacula* (Jenkins, 1903): B; [IWCP; Papua to Sumatra]; (USNM).
Cirrhitichthys aprinus (Cuvier, 1829): A,B,F,K,M,W; [WP; Papua to Sumatra]; (BPBM).
C. aureus (Temminck and Schlegel, 1842): B; [WP; Bali].
C. falco Randall, 1963: A,B,F,K,M,S; [EIWCP; Papua to Java and Kalimantan]; (BPBM, USNM, WAM).
C. oxycephalus (Bleeker, 1855): A,B,F,K,M,S,W; [IP; Papua to Sumatra]; (BPBM, USNM, WAM).
Cirrhitus pinnulatus (Forster, 1801): A,B,K,M,W; [IWCP; Papua to Sumatra]; (WAM).
Cyprinocirrhites polyactis (Bleeker, 1875): A,B,F,K,M,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
Oxycirrhites typus Bleeker, 1857: A,B,F,M; [IP; Papua to Sumatra]; (WAM).
Paracirrhites arcatus (Cuvier, 1829): A,B,F,M,S,W; [IWCP; Papua to Sumatra].
P. forsteri (Schneider, 1801): A,B,F,K,M,S,W; [IWCP; Papua to Sumatra]; (USNM).

Cepolidae - Bandfishes (4 spp.)

Key reference: Kuitert and Tono-zuka, 2001; Smith-Vaniz, 2001.

- Acanthocephala abbreviata* Valenciennes, 1835: [EIWP; Java and Sumatra].
A. krusensternii Temminck and Schlegel, 1845: F; [WP; Flores].
A. limbata (Valenciennes, 1836): B; [WP; Bali].
Cepola schlegelii Bleeker, 1854: F; [WP; Maumere Bay, Flores].

Mugilidae - Mulletts (4 spp.)

Key reference: Harrison and Senou, 1999.

- Crenimugil crenilabis* (Forsskål, 1775): A,B,F; [IWCP; Papua to Sumatra]; (BPBM).
Ellochelon vaigiensis (Quoy and Gaimard, 1825): A,F,K,P,R,S,T; [IWCP; Papua to Sumatra]; (USNM).
Moolgardia pedaraki (Valenciennes, 1836): K; [IWCP; Papua to Sumatra].
M. seheli (Forsskål, 1775): A,P; [IWCP; Papua to Sumatra]; (BPBM, USNM).

Pomacentridae - Damselfishes (152 spp.)

Key references: Allen, 1991, 1994, 1999b, 2001c; Allen and Adrim, 1992, 2000; Allen and Rayasuriya, 1995; Kuitert and Tono-zuka, 2001.

- Abudefduf bengalensis* (Bloch, 1787): A,P,R;

[NIWP; Moluccas to Sumatra]; (USNM, WAM).

- A. lorenzi* Hensley and Allen, 1977: A,B,F,K,M,S,T; [IAA; Papua to Bali]; (USNM).
A. notatus (Day, 1869): A,K,W; [IWP; Papua to Sumatra]; (BPBM, WAM).
A. septemfasciatus (Cuvier, 1830): A,B,F,K,M,R,W; [IWCP; Papua to Sumatra]; (USNM).
A. sexfasciatus (Lacepède, 1802): A,B,F,K,M,P,R,S,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
A. sordidus Forsskål, 1775: A,B,F,K,M,R,W; [IWCP; Papua to Sumatra]; (USNM).
A. vaigiensis (Quoy and Gaimard, 1824): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
Acanthochromis polyacanthus (Bleeker, 1855): A,F,K,P,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
Amblyglyphidodon aureus (Cuvier, 1830): A,B,F,K,M,P,S,T,W; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
A. batunai Allen, 1995: A,F,K,M; [EIWP; Papua to Java and Sumatra]; (BPBM, USNM, WAM).
A. curacao (Bloch, 1787): A,B,F,K,M,P,R,S,T; [WCP; Papua to Sumatra]; (USNM, WAM).
A. leucogaster (Bleeker, 1847): A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
A. ternatensis (Bleeker, 1853): A,B,F,M,P; [IAA; Papua to Java]; (BPBM, WAM).
A. indicus Allen and Randall, 2002.: W; [IO; N. Sumatra]; (BPBM, USNM, WAM).
Amblypomacentrus breviceps (Schlegel and Müller, 1839): A,B,F,K,T; [IAA; Papua to Bali]; (BPBM, USNM, WAM).
A. clarus Allen and Adrim, 2000: B,T; [ENDEMIC; Bali and Banggai Islands]; (WAM).
Amphiprion akallopisos Bleeker, 1853: B,P,W; [IO; Bali to Sumatra]; (USNM, WAM).
A. chrysopterus Cuvier, 1830: A; [WCP; Papua].
A. clarkii (Bennett, 1830): A,B,F,K,M,P,R,S,T,W; [IWP; Papua to Sumatra]; (USNM, WAM).
A. ephippium (Bloch, 1790): P,W; [WIAA; Java to Sumatra]; (BPBM, USNM, WAM).
A. frenatus (Brevoort, 1856): B,R,S; [WP; Bali to Sumatra and Kalimantan].
A. melanopus Bleeker, 1852: A,B,F,K,M; [WCP; Papua to Bali and Sulawesi]; (USNM).
A. ocellaris Cuvier, 1830: A,B,F,K,M,R,S,T,W; [WP; Papua to Sumatra]; (USNM, WAM).

- A. percula* (Lacepède, 1802): [IAA; Gulf of Tomini].
- A. perideraion* Bleeker, 1855: A,B,F,K,M,R,S,T; [WCP; Papua to Sumatra]; (USNM, WAM).
- A. polymnus* (Linnaeus, 1758): A,B,F,M,R,T; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. sandaracinos* Allen, 1972: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. sebae* Bleeker, 1853: [NIO; Java and Sumatra].
- Cheiloprion labiatus* (Day, 1877): A,F,K,M,P,R,T; [IAA; Papua to Sumatra]; (USNM).
- Chromis alpha* Randall, 1987: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (USNM).
- C. amboinensis* (Bleeker, 1873): A,B,F,K,M,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. analis* (Cuvier, 1830): A,B,F,K,M,T; [WP; Papua to Bali]; (BPBM, USNM, WAM).
- C. atripectoralis* Schultz and Welander, 1951: A,B,F,K,M,P,R,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. atripes* Fowler and Bean, 1928: A,B,F,K,M,T; [WP; Papua to Bali]; (BPBM, USNM, WAM).
- C. caudalis* Randall, 1987: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- C. cinerascens* (Cuvier, 1830): A,B,K,P,R,S; [EIIAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. delta* Randall, 1987: A,B,F,K,M,T,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. dimidata* (Klunzinger, 1871): W; [IO; W. Java and Sumatra]; (BPBM).
- C. elerae* Fowler and Bean, 1928: A,B,F,K,M,T,W; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. flavipectoralis* Randall, 1988: W; [EIO; Java to W. Sumatra]; (BPBM, USNM).
- C. fumea* (Tanaka, 1917): K; [WP; Komodo].
- C. lepidolepis* Bleeker, 1877: A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. leucura* Gilbert, 1903: W; [IWCP; N. Sumatra]; (WAM).
- C. lineata* Fowler and Bean, 1928: A,B,F,S,T; [IAA; Papua to Sumatra]; (BPBM, USNM).
- C. margaritifer* Fowler, 1946: A,B,F,K,M,T; [WCP; Papua to Bali]; (USNM).
- C. nigroanalis* Randall, 1988: [IO; Seribu Islands]; (USNM).
- C. nigrura* Smith, 1960: W; [IO; W. Sumatra].
- C. opercularis* (Günther, 1867): B,P,W; [IO; Bali to W. Sumatra]; (USNM).
- C. retrofasciata* Weber, 1913: A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- C. scotochilopterus* Fowler, 1918: A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, WAM).
- C. sp.*: **[ENDEMIC; Pura, Alor Islands]**; (BPBM).
- C. ternatensis* (Bleeker, 1856): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- C. viridis* (Cuvier, 1830): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. weberi* Fowler and Bean, 1928: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. xanthochira* (Bleeker, 1851): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (USNM).
- C. xanthura* (Bleeker, 1854): A,B,F,K,M,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM).
- C. xutha* Randall, 1988: P; [IO; Seribu Islands]; (USNM).
- Chrysiptera biocellata* (Quoy and Gaimard, 1824): A,B,F,P,R,S,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. bleekeri* (Fowler and Bean, 1928): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (WAM).
- C. brownriggi* (Bennett, 1828): A,B,K,P,W; [IWCP; Papua to Sumatra]; (USNM).
- C. caeruleolineata* (Allen, 1973): B,F,T; [WCP; Flores to Bali and Togean Islands].
- C. cyanea* (Quoy and Gaimard, 1824): A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- C. glauca* (Cuvier, 1830): F,M,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. hemicyanea* (Weber, 1913): A; [IAA; Papua]; (USNM, WAM).
- C. kuiteri* Allen and Rajasuriya, 1995: B; [EIO; Bali to Kalimantan].
- C. oxycephala* (Bleeker, 1877): A,F; [IAA; Papua to Flores]; (USNM, WAM).
- C. parasema* (Fowler, 1918): K,M,P,S,T; [WP; Sulawesi to Bali and Java]; (USNM).
- C. pricei* Allen, 1992: **[ENDEMIC; Papua]**; (WAM).
- C. rex* (Snyder, 1909): A,B,F,K,S; [WP; Papua to Kalimantan]; (USNM).
- C. rollandi* (Whitley, 1961): A,B,F,K,M,P,R,S,T,W; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. sp. 1* Kuitert and Tonzuka, 2001: T; (Togean Islands to E. Kalimantan).

- C. springeri* Allen and Lubbock, 1976: A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- C. talboti* (Allen, 1975): A,B,F,K,M,P,S,T,W; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. unimaculata* (Cuvier, 1830): A,B,F,K,M,P,R,S,T,W; [IWP; Papua to Sumatra]; (USNM, WAM).
- Dascyllus aruanus* (Linnaeus, 1758): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- D. carneus* Fischer, 1885: P,W; [IO; Java to W. Sumatra]; (WAM).
- D. melanurus* Bleeker, 1854: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (USNM).
- D. reticulatus* (Richardson, 1846): A,B,F,K,M,P,R,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM).
- D. trimaculatus* (Rüppell, 1828): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Dischistodus chrysopoecilus* (Schlegel and Müller, 1839): A,B,F,K,M,P,R,S,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- D. fasciatus* (Cuvier, 1830): A,B,F,K,M,P,R,S; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- D. melanotus* (Bleeker, 1857): A,B,F,K,M,P,S,T; [WP; Papua to Kalimantan]; (USNM).
- D. perspicillatus* (Cuvier, 1830): A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (USNM, WAM).
- D. prosopotaenia* (Bleeker, 1852): A,B,F,K,M,P,R,T; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- D. pseudochrysopoecilus* (Allen and Robertson, 1974): F, M; [IAA; Flores to N. Sulawesi]; (USNM).
- Hemiglyphidodon plagiometopon* (Bleeker, 1852): A,F,K,M,P,R,S,T; [IAA; Papua to Sumatra]; (USNM).
- Lepidozygus tapeinosoma* (Bleeker, 1856): A,B,F,K,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- Neoglyphidodon bonang* (Bleeker, 1852): K; [EIO; Komodo to W. Sumatra]; (BPBM).
- N. crossi* Allen, 1991: A,B,F,K,M,T; **[ENDEMIC]**; Papua to Bali and Sulawesi]; (USNM, WAM).
- N. melas* (Cuvier, 1830): A,B,F,K,M,P,R,S,T,W; [IWP; Papua to Sumatra]; (USNM, WAM).
- N. nigroris* (Cuvier, 1830): A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (USNM, WAM).
- N. oxyodon* (Bleeker, 1857): A,B,F,K,P,S,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- N. thoracotaeniatus* (Fowler and Bean, 1828): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- Neopomacentrus anabatooides* (Bleeker, 1847): B,P,R; [IAA; Bali to Sumatra]; (BPBM, USNM, WAM).
- N. azysron* (Bleeker, 1877): B,F,K,M,P,W; [IWP; Papua to Sumatra]; (USNM, WAM).
- N. bankieri* (Richardson, 1846): P; [WP; Seribu Islands]; (USNM, WAM).
- N. cyanomos* (Bleeker, 1856): A,B,K,M,R,S,T,W; [IWP; Papua to Sumatra]; (USNM, WAM).
- N. filamentous* (Macleay, 1882): A,P,R,T; [IAA; Papua to Sumatra]; (USNM, WAM).
- N. nemurus* (Bleeker, 1857): A,F,K,T; [IAA; Papua to Komodo]; (USNM).
- N. taeniurus* (Bleeker, 1856): A; [IWP; Papua]; (BPBM, USNM, WAM).
- N. violascens* (Bleeker, 1848): B,F,K,M,T; [IAA; Papua to Bali]; (BPBM, USNM, WAM).
- Plectroglyphidodon dickii* (Liénard, 1839): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- P. johnstonianus* Fowler and Ball, 1924: F; [IWCP; Flores]; (USNM).
- P. lacrymatus* (Quoy and Gaimard, 1825): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. leucozonus* (Bleeker, 1859): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- P. phoenixensis* (Schultz, 1943): K; [IWCP; Papua to Komodo].
- Pomacentrus adelus* Allen, 1991: A,B,F,K,M,P,S,T,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. alexanderae* Evermann and Seale, 1907: B,F,K,P,R,S,T; [WP; Flores to Sumatra]; (BPBM, USNM, WAM).
- P. alleni* Burgess, 1981: W; [EIO; Java and W. Sumatra].
- P. amboinensis* Bleeker, 1868: A,B,F,K,M,P,R,S,T,W; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. armillatus* Allen, 1993: [IAA; Sangihe Islands].
- P. auriventris* Allen, 1991: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM, WAM).
- P. azuremaculatus* Allen, 1991: W; [IAA; Seribu Islands to N. Sumatra]; (USNM).
- P. bankanensis* Bleeker, 1853: A,B,F,K,M,S,T,W; [WP; Papua to Sumatra]; (USNM).
- P. bintanensis* Allen, 1999: R; **[ENDEMIC]**; Riau

- Islands]; (WAM).
- P. brachialis* Cuvier, 1830: A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- P. burroughi* Fowler, 1918: A,F,K,M,P,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- P. chrysurus* Cuvier, 1830: A,B,F,K,M,P,R,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. coelestis* Jordan and Starks, 1901: A,B,F,K,M,S,T; [EIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. cuneatus* Allen, 1991: A,B,K,P,T; [IAA; Papua to Java Sea]; (BPBM, WAM).
- P. emarginatus* Cuvier, 1829: [IAA; Waigeo Island].
- P. grammorhynchus* Fowler, 1918: A,M,P,S,T; [IAA; Papua to Kalimantan]; (USNM).
- P. javanicus* Allen, 1991: P; [**ENDEMIC**; Java Sea]; (BPBM, WAM).
- P. komodoensis* Allen, 1999: K; [**ENDEMIC**; Komodo area]; (WAM).
- P. lepidogenys* Fowler and Bean, 1928: A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (USNM).
- P. littoralis* Cuvier, 1830: A,K,R; [IAA; Papua to Sumatra]; (USNM, WAM).
- P. melanochir* Bleeker, 1877: B; [**ENDEMIC**; Moluccas to Bali]; (BPNM, WAM).
- P. moluccensis* Bleeker, 1853: A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (USNM, WAM).
- P. nagasakiensis* Tanaka, 1917: A,B,F,K,M,R,T,W; [IWP; Papua to Sumatra].
- P. nigromanus* Weber, 1913: A,M; [IAA; Papua to Sulawesi]; (USNM).
- P. nigromarginatus* Allen, 1973: A,B,F,K,S,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. opisthostigma* Fowler, 1918: A,T; [IAA; Papua to E. Sulawesi]; (USNM, WAM).
- P. pavo* (Bloch, 1787): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. philippinus* Evermann and Seale, 1907: A,B,F,K,M,P,R,T,W; [EIWP; Moluccas to Sumatra]; (USNM, WAM).
- P. reidi* Fowler and Bean, 1928: A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- P. sakonoi* Allen, 1995: P; [**ENDEMIC**; Java Sea]; (WAM).
- P. similis* Allen, 1991: W; [EIO; N. Sumatra]; (WAM).
- P. simsiang* Bleeker, 1856: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (USNM).
- P. smithi* Fowler and Bean, 1928: A,F,K,P,T; [IAA; Papua to Java]; (BPBM, USNM, WAM).
- P. sp. 1* Kuitert and Tonozuka, 2001: [**ENDEMIC**; Derawan I., Kalimantan].
- P. stigma* Fowler and Bean, 1928: S; [IAA; N. Kalimantan].
- P. taeniometopon* Bleeker, 1852: A,F,M,T; [WP; Papua to Sulawesi]; (BPBM, USNM, WAM).
- P. tripunctatus* (Cuvier, 1830): A,F,K,M,P,R,T; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. vaiuli* Jordan and Seale, 1906: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- P. xanthosternus* Allen, 1991: P; [**ENDEMIC**; Java and Sumatra]; (BPBM, WAM).
- Premnas biaculeatus* (Bloch, 1790): A,B,F,M,P,R,S,T; [IAA; Papua to Sumatra]; (USNM, WAM).
- Pristotis obtusirostris* (Günther, 1862): F,K,R,T; [IWP; Flores to Sumatra].
- Stegastes albifasciatus* Schlegel and Müller, 1844: A,F; [IWCP; Papua to Flores]; (WAM).
- S. fasciolatus* (Ogilby, 1889): A,B,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- S. lividus* (Bloch and Schneider, 1801): A,B,F,K,M,P,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- S. nigricans* (Lacepède, 1803): A,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- S. obreptus* (Whitley, 1948): A,P,R; [EIWP; Papua to Sumatra]; (WAM).

Labridae - Wrasses (178 spp.)

- Key references: Allen, 2000a; Allen and Kuitert, 1999; Kuitert and Allen, 1999; Kuitert and Tonozuka, 2001; Parenti and Randall, 2000; Westneat, 2001.
- Anampses caeruleopunctatus* Rüppell, 1829: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].
- A. geographicus* Valenciennes, 1840: A,B,F,K,M,T; [IWP; Papua to Sumatra]; (BPBM).
- A. lineatus* Randall, 1972: W; [IO; Bali to W. Sumatra].
- A. melanurus* Bleeker, 1857: A,B,F,K,T; [IWCP; Papua to Bali].
- A. meleagrides* Valenciennes, 1839: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- A. neoguinaicus* Bleeker, 1878: A,S; [WP; Papua to Kalimantan].
- A. twistii* Bleeker, 1856: A,B,F,K,M,S,W; [IWCP; Papua to Sumatra]; (USNM).
- Bodianus anthioides* (Bennett, 1831): A,B,F,K,M,T; [IWCP; Papua to Sumatra].

- B. axillaris* (Bennett, 1831): A,B,F,K,W; [IWCP; Papua to Sumatra]; (USNM).
- B. bilunulatus* (Lacepède, 1801): A,B,F,K,T; [IWCP; Papua to Sumatra]; (USNM).
- B. bimaculatus* Allen, 1973: A,B,F,M,T; [IWP; Papua to Bali and Sulawesi]; (BPBM, WAM).
- B. diana* (Lacepède, 1802): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- B. leucostictus* (Bennett, 1832): B; [IWP; Bali].
- B. loxozonus* (Snyder, 1908): B; [WCP; Bali].
- B. mesothorax* (Bloch and Schneider, 1801): A,B,F,K,P,S,T,W; [WP; Papua to Sumatra]; (USNM).
- B. sp. 2* Kuitert and Tonozuka, 2001: B,F; [WCP; Flores to Bali and Gulf of Tomini].
- Cheilinus chlorurus* (Bloch, 1791): A,B,F,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. fasciatus* (Bloch, 1791): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra].
- C. oxycephalus* Bleeker, 1853: A,B,F,M,P,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- C. trilobatus* Lacepède, 1802: A,B,F,K,M,P,R,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- C. undulatus* Rüppell, 1835: A,B,F,K,M,P,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Cheilio inermis* (Forsskål, 1775): A,B,F,K,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Choerodon anchorago* (Bloch, 1791): A,B,F,K,M,P,R,S,T; [EIWP; Papua to Sumatra]; (USNM, WAM).
- C. jordani* (Snyder, 1908): F; [WCP; Flores].
- C. oligocanthus* (Bleeker, 1851): R; [IAA; Riau Islands]; (BPBM).
- C. schoenleinii* (Valenciennes, 1830): A,R; [IAA; Papua to Sumatra]; (WAM).
- C. gomoni* Allen and Randall, 2002: T; [WP; Banggai Islands]; (WAM).
- C. zamboangae* (Seale and Bean, 1907): K,T; [WP; Togeian Islands]; (BPBM).
- C. zosterophorus* (Bleeker, 1868): A,F,K,T; [IAA; Papua to Komodo and Sulawesi]; (BPBM).
- Cirrhilabrus adornatus* Randall and Kunzmann, 1998: [ENDEMIC; W. Sumatra]; (BPBM, USNM).
- C. aurantidorsalis* Allen and Kuitert, 1999: T; [ENDEMIC; Togeian Islands];
- C. cyanopleura* (Bleeker, 1851): B,P,W; [EIO; Bali to W. Sumatra]; (WAM).
- C. exquisitus* Smith, 1957: W; [IO; N. Sumatra]; (BPBM).
- C. filamentosus* (Klausewitz, 1976): B,F,K; [ENDEMIC; Flores to Java]; (BPBM, WAM).
- C. flavidorsalis* Randall and Carpenter, 1980: A,F; [IAA; Papua to Flores and Sulawesi]; (BPBM, USNM).
- C. joanalleneae* Allen, 2000: W; [ENDEMIC; N. Sumatra]; (WAM).
- C. lubbocki* Randall and Carpenter, 1980: B,F,K,M,S,T; [IAA; Flores to Kalimantan]; (BPBM).
- C. lunatus* Randall and Masuda, 1991: B; [WP; Bali and Sangihe Islands].
- C. lyukyuensis* Ishigawa, 1904: B,S; [WP; Sulawesi to Bali and Kalimantan].
- C. pylei* Allen and Randall, 1996: B; [IAA; Papua to Bali].
- C. rubrimarginatus* Randall, 1992: B,F; [WP; Flores to Bali]; (BPBM).
- C. rubripinnis* Randall and Carpenter, 1980: S; [IAA; N. Sulawesi and Kalimantan].
- C. solorensis* Bleeker, 1853: A,K,B; [ENDEMIC; Papua to Bali]; (WAM).
- C. sp. 2* Kuitert and Tonozuka, 2001: A,B,F, S,T; [IAA; Papua to Bali]; (BPBM).
- C. temminckii* Bleeker, 1853: B,S; [WP; Bali and Kalimantan].
- C. tonozukai* Allen and Kuitert, 1999: A,T; [ENDEMIC; Papua to Togeian Islands]; (WAM).
- Coris aygula* Lacepède, 1801: B; [IWCP; Papua to Sumatra].
- C. batuensis* (Bleeker, 1856): A,B,F,K,M,P,S,T,W; [EIWCP; Papua to Sumatra]; (USNM).
- C. caudimacula* (Quoy and Gaimard, 1834): [IO; Bali to Sumatra].
- C. cuvieri* (Bennett, 1831): W; [IO; Java to W. Sumatra].
- C. dorsomacula* Fowler, 1908: B,F,K,M,S,T; [WP; Flores to Kalimantan]; (BPBM).
- C. gaimard* (Quoy and Gaimard, 1824): A,B,F,K,M,S,T; [IWCP; Papua to Kalimantan]; (USNM).
- C. pictoides* Randall and Kuitert, 1982: A,B,F,K,T; [IAA; Papua to Bali and Sulawesi]; (BPBM).
- Cymolutes praetextatus* (Quoy and Gaimard, 1834): M; [IWCP; Papua to Sumatra].
- C. torquatus* (Valenciennes, 1839): B,F,M; [IWCP; Papua to Sumatra].
- Diproctacanthus xanthurus* (Bleeker, 1856): A,B,F,K,M,R,S,T; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- Epibulus insidiator* (Pallas, 1770): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM).

- E. sp.* Carlson and Randall, MS: B; [IAA; Papua to Sumatra].
- Gomphosus caeruleus* Lacepède, 1801: W; [IO; Java and W. Sumatra].
- G. varius* Lacepède, 1802: A,B,F,K,M,P,R,S,T; [WCP; Papua to E. Sumatra]; (BPBM).
- Halichoeres argus* (Bloch and Schneider, 1791): A,B,F,M,P,R,T; [WP; Papua to E. Sumatra]; (BPBM, USNM).
- H. bicolor* (Bloch and Schneider, 1801): P,R; [Sulawesi to Sumatra]; (USNM).
- H. binotopsis* (Bleeker, 1849): B,F; [IAA; Papua to Bali]; (USNM).
- H. biocellatus* Schultz, 1960: A,B,F,K,M; [WCP; Papua to Bali and Sulawesi].
- H. chlorocephalus* Kuitert and Randall, 1995: T; [IAA; Papua to Java and Togeian Islands].
- H. chloropterus* (Bloch, 1791): A,F,K,M,P,R,S,T; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- H. chrysoaenia* (Bleeker, 1853): R,W; [EIO; Java and W. Sumatra].
- H. chrysus* Randall, 1981: A,B,F,K,M,T; [WCP; Papua to Komodo and Sulawesi]; (BPBM, USNM).
- H. cosmetus* Randall and Smith, 1982: W; [IO; N. Sumatra]; (WAM).
- H. hartzfeldi* (Bleeker, 1852): A,B,F,K,M,T; [WP; Papua to Komodo and Sulawesi]; (BPBM, USNM, WAM).
- H. hortulanus* (Lacepède, 1802): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- H. kneri* Bleeker, 1862: B,P,R; [**ENDEMIC**; Bali to Sumatra and N. Sulawesi].
- H. leucoxanthus* Randall and Smith, 1982: W; [IO; Java to W. Sumatra]; (BPBM).
- H. leucurus* (Walbaum, 1792): A,B,F,K,P,R,S,T,W; [IAA; Papua to Sumatra]; (USNM).
- H. margaritaceus* (Valenciennes, 1839): A,F,K,M,P,S,T; [WCP; Papua to Kalimantan]; (USNM).
- H. marginatus* Rüppell, 1835: A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- H. melanochir* Fowler and Bean, 1928: A,M,R; [WP; Papua to Riau Islands]; (USNM).
- H. melanurus* (Bleeker, 1851): A,B,F,K,S,T; [WCP; Papua to Kalimantan]; (WAM).
- H. melasmapomus* Randall, 1980: A,B,F,T; [WCP; Flores to Bali and Togeian Islands]; (BPBM, WAM).
- H. miniatus* (Valenciennes, 1839): A,B,F,M,R,T; [WP; Papua to Bali and N. Sulawesi]; (BPBM).
- H. nebulosus* (Valenciennes, 1839): A,B,F,K,S,T,W; [IWP; Papua to Sumatra]; (WAM).
- H. nigrescens* (Bloch and Schneider, 1801): A,B,P,R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- H. ornatissimus* (Garrett, 1863): F,K,M,T,W; [IWCP; Papua to Sumatra].
- H. pallidus* Kuitert and Randall, 1994: A,F; [WCP; Papua to Sumbawa]; (BPBM, USNM).
- H. papilionaceus* (Valenciennes, 1839): A,B,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- H. pardaleocephalus* (Bleeker, 1849): [EIIAA; Bali and Sumatra]; (BPBM).
- H. podostigma* (Bleeker, 1854): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM).
- H. prosopeion* (Bleeker, 1853): A,B,F,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).
- H. richmondi* Fowler and Bean, 1928: A,B,F,P,T; [WCP; Papua to Java]; (BPBM).
- H. rubricephalus* Kuitert and Randall, 1994: F; [**ENDEMIC**; Flores and Banggai Islands]; (BPBM).
- H. scapularis* (Bennett, 1831): A,B,F,K,M,P,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- H. solorensis* (Bleeker, 1853): A,B,F,K,M,T; [IAA; Papua to Bali and N. Sulawesi]; (BPBM, USNM, WAM).
- H. timorensis* (Bleeker, 1852): F,K,M; [IAA; Papua to Sumatra]; (USNM).
- H. trimaculatus* (Quoy and Gaimard, 1834): B,F,K,S,T; [WCP; Papua to Kalimantan]; (USNM).
- H. trispilus* Randall and Smith, 1982: W; [IO; Java and W. Sumatra]; (WAM).
- H. zeylonicus* (Bennett, 1833): B,P,W; [IO; Bali to Sumatra].
- Hemigymnus fasciatus* (Bloch, 1792): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].
- H. melapterus* (Bloch, 1791): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM).
- Hologymnosus annulatus* (Lacepède, 1801): B,F,K,T,W; [IWCP; Papua to Sumatra]; (USNM).
- H. doliatus* (Lacepède, 1801): A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- H. rhodonotus* Randall and Yamakawa, 1988; [IAA; Lombok].
- Iniistius aneitensis* (Günther, 1862): B,F,M,S; [EIWCP; Papua to Sumatra]; (BPBM).

- I. bimaculatus* Rüppell, 1829: [IWP; Sulawesi].
- I. celebicus* (Bleeker, 1856): [WCP; Papua to Sumatra].
- I. dea* Temminck and Schlegel, 1846: F; [WP; Papua to Sumatra].
- I. javanicus* (Bleeker, 1862): [IWP; Java and Sumatra].
- I. melanopus* (Bleeker, 1857): F,M; [IWP; Moluccas to Sumatra].
- I. pavo* Valenciennes, 1839: A,B,F,K,W; [IP; Papua to Sumatra]; (BPBM).
- I. pentadactylus* (Linnaeus, 1758): B,F,K,T,W; [IWP; Flores to Sumatra]; (BPBM, WAM).
- I. spilonotus* (Bleeker, 1857): F; [IAA; Papua to Flores].
- I. tetrazona* (Bleeker, 1859): B,M; **[ENDEMIC]**; Bali to N. Sulawesi].
- I. twistii* (Bleeker, 1856): B; [WP; Papua to Bali].
- Labrichthys unilineatus* (Guichenot, 1847): A,B,F,K,M,P,S,T,W; (IWCP; Papua to Sumatra]; (USNM).
- Labroides bicolor* Fowler and Bean, 1928: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- L. dimidiatus* (Valenciennes, 1839): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- L. pectoralis* Randall and Springer, 1975: A,B,F,K,M,S,T,W; [WCP; Papua to Sumatra]; (USNM, WAM).
- Labropsis alleni* Randall, 1981: A,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM).
- L. manabei* Schmidt, 1930: B,F,K,M,S; [WP; Flores to Kalimantan].
- L. xanthonota* Randall, 1981: F,M,W; [IWCP; Flores to Sumatra]; (BPBM).
- Leptojulius chrysotaenia* Randall and Ferraris, 1996: [EIIAA; Bali and Lombok]; (BPBM).
- L. cyanopleura* (Bleeker, 1853): A,B,F,K,M,R,T; [NIWP; Papua to Sumatra]; (BPBM, WAM).
- L. polylepis* Randall, 1996: B,F; [IAA; Flores to Bali]; (BPBM).
- L. urostigma* Randall, 1996: B,F; [IAA; Papua to Bali]; (BPBM).
- Macropharyngodon meleagris* (Valenciennes, 1839): A,B,S,T; [WCP; Papua to Kalimantan].
- M. negrosensis* Herre, 1932: A,B,F,K,M,T,W; [WCP; Papua to Sumatra] (BPBM).
- M. ornatus* Randall, 1978: B,F,K,M,P,W; [IWP; Flores to Sumatra]; (BPBM, USNM).
- Novaculichthys macrolepidotus* (Bloch, 1791): A,B,F,T; [IWP; Papua to Sumatra]; (BPBM, WAM).
- N. taeniourus* (Lacepède, 1802): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Oxycheilinus arenatus* (Valenciennes, 1840): B,F,S; [IWCP; Flores].
- O. bimaculatus* (Valenciennes, 1840): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM).
- O. celebicus* (Bleeker, 1853): A,B,F,K,P,S,T; [WP; Papua to Sulawesi]; (BPBM, USNM).
- O. digrammus* (Lacepède, 1801): A,B,F,K,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- O. orientalis* (Günther, 1862): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (BPBM).
- O. sp. 1* Kuitert and Tonozuka, 2001: A,B,F; [IAA; Papua to Java].
- O. sp. 2* Kuitert and Tonozuka, 2001: B,M,P; [IAA; Sulawesi to Java].
- O. unifasciatus* (Streets, 1878): A,B,F,M,S; [WCP; Papua to Kalimantan]; (USNM).
- Paracheilinus angulatus* Randall and Lubbock, 1981: S; [IAA; NE Kalimantan].
- Paracheilinus carpenteri* Randall and Lubbock, 1981: B,F; [IAA; Flores to Bali]; (BPBM).
- P. cyaneus* Kuitert and Allen, 1999: A,S,T; **[ENDEMIC]**; Papua to Kalimantan]; (WAM).
- P. filamentosus* Allen, 1974: A,B,F,K,M,P,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- P. flavianalis* Kuitert and Allen, 1974: B,F,T; [WP; Flores to Bali and Togeian Islands].
- P. mccoskeri* Randall and Harmelin-Vivien, 1977: W; [IO; W. Sumatra]; (BPBM, WAM).
- P. togeanensis* Kuitert and Allen, 1999: T; **[ENDEMIC]**; Togeian Islands].
- Pseudocheilinus ataenia* Schultz, 1960: A,F,T; [WP; Papua to Flores and Togeian Islands]; (BPBM, USNM).
- Pseudocheilinus evanidus* Jordan and Evermann, 1903: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. hexataenia* (Bleeker, 1857): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. octotaenia* Jenkins, 1901: B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Pseudocoris aurantiofasciata* Fourmanoir, 1971: B,F; [WCP; Flores].
- P. bleekeri* (Hubrecht, 1876): A,B,F,T; [WP; Papua to Bali and Togeian Islands].
- P. heteroptera* (Bleeker, 1857): A,B,F,K,S,T; [IWCP; Papua to Kalimantan]; (BPBM).
- P. yamashiroi* (Schmidt, 1930): A,B,F,K,M,S,T; [EIWCP; Papua to Sumatra].
- Pseudodax moluccanus* (Valenciennes, 1839): A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).

- Pseudojuloides cerasinus* (Snyder, 1904): B,M; [IWCP, Papua to Bali].
- P. kaleidos* Kuitert and Randall, 1994: F,W; [EIO; Flores to Sumatra].
- P. severnsi* Bellwood and Randall, 2000: [EIWP; Alor and Sumba].
- Pterogogus cryptus* Randall, 1981: A,F,P; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- P. enneacanthus* (Bleeker, 1853): A,B,F,K,M,R,S; [IAA; Papua to Kalimantan]; (WAM).
- P. flagellifera* (Valenciennes, 1839): [IWP; Papua to Sumatra]; (BPBM, USNM).
- P. guttatus* (Fowler and Bean, 1928): B,P; [WP; Bali and Java].
- Stethojulis albovittatus* (Bonaterre, 1788): B,W; [IO; Bali to W. Sumatra]; (WAM).
- S. bandanensis* (Bleeker, 1851): A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).
- S. interrupta* (Bleeker, 1851): A,B,F,K,M,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM).
- S. strigiventer* (Bennett, 1832): A,B,F,K,M,P,R,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- S. trilineata* (Bloch and Schneider, 1801): A,B,F,K,M,P,R,S,T,W; [EIWCP; Papua to Sumatra]; (BPBM, USNM).
- Terelabrus rubrovittatus* Randall and Fourmanoir, 1998: B; [WP; Papua to Bali].
- Thalassoma amblycephalum* (Bleeker, 1856): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- T. hardwicke* (Bennett, 1830): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- T. janseni* (Bleeker, 1856): A,B,F,K,M,S,T,W; [EIWCP; Papua to Sumatra]; (USNM).
- T. lunare* (Linnaeus, 1758): A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- T. lutescens* (Lay and Bennett, 1839): F; [Indo-Pacific; Papua to Flores].
- T. purpureum* (Forsskål, 1775): A,B,F,K,W; [IWCP; Papua to Sumatra]; (USNM).
- T. quinquevittatum* (Lay and Bennett, 1839): A,B,F,M; [IWCP; Papua to Sumatra]; (USNM).
- T. trilobatum* (Lacepède, 1801): B,K,T,W; [IWCP; Papua to Sumatra].
- Wetmorella albofasciata* Schultz and Marshall, 1954: A,F,S,T; [IWCP; Papua to Sumatra]; (WAM).
- W. nigropinnata* (Seale, 1901): F; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- W. triocellata* Schultz and Marshall, 1954: F; [IAA; Flores].
- Xiphocheilus quadrimaculatus* Bleeker, 1856: [EIWP; Timor to Sumatra]; (USNM).
- Xyrichtys* sp. (*Novaculops* sp. in Kuitert and Tonzuka, 2001): [IAA; Kalimantan].

Scaridae - Parrotfishes (39 spp.)

- Key references: Bellwood, 2001; Kuitert and Tonzuka, 2001; Parenti and Randall, 2000.
- Bolbometopon muricatum* (Valenciennes, 1840): A,B,F,K,M,S,T; [IWCP; Papua to Sumatra]; (USNM).
- Calotomus carolinus* (Valenciennes, 1839): A,B,F,M; [IWCP; Papua to Sumatra]; (USNM).
- C. spinidens* (Quoy and Gaimard, 1824): A,K; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Cetoscarus bicolor* (Rüppell, 1829): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Chlorurus bleekeri* (de Beaufort, 1940): A,B,F,K,S,T; [WCP; Papua to Kalimantan].
- C. bowersi* (Snyder, 1909): A; [WP; Papua to Java].
- C. capistratoides* (Bleeker, 1847): B,F; [EIO; Flores to Sumatra]; (BPBM, USNM).
- C. enneacanthus* Lacepède, 1802: W; [IO; N. Sumatra].
- C. japonensis* (Bloch, 1789): A,M; [WCP; Papua to Java].
- C. microrhinos* (Bleeker, 1854): A,B,F,S,T; [WCP; Papua to Kalimantan]; (USNM).
- C. oedema* (Snyder, 1909): [WP; Sulawesi]; (USNM).
- C. sordidus* (Forsskål, 1775): A,F,K,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- C. strongycephalus* (Bleeker, 1854): W; [IO; Java to W. Sumatra].
- C. troschellii* (Bleeker, 1853): [IAA; Java to W. Sumatra]; (BPBM, USNM).
- Hipposcarus longiceps* (Valenciennes, 1839): A,B,F,K,M,S,T; [WCP; Papua to Sumatra].
- Leptoscarus vaigiensis* (Quoy and Gaimard, 1824): B,K,S; [IWCP; Papua to Sumatra]; (BPBM).
- S. chameleon* Choat and Randall, 1986: A,F,K,M,T; [WP; Papua, Komodo and Sulawesi].
- S. dimidiatus* Bleeker, 1859: A,B,F,K,M,P,R,S,T; [IWCP; Papua to Sumatra]; (USNM).
- S. flavipectoralis* Schultz, 1958: A,B,F,K,M,S,T,W; [WCP; Papua to Sumatra].
- S. festivus* Valenciennes, 1840: F,T; [IWCP; Papua to Sumatra]; (USNM).
- S. forsteni* (Bleeker, 1861): A,F,K,M,S,T; [WCP;

Papua to Kalimantan].

- S. frenatus* Lacepède, 1801: A,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
S. fuscocaudalis Randall and Myers, 1999: B,F; [WP; Papua to Kalimantan].
S. ghobban Forsskål, 1775: A,B,F,K,M,P,R,S,T,W; [IP; Papua to Sumatra]; (USNM).
S. globiceps Valenciennes, 1840: A,F; [IWCP; Papua to Sumatra]; (USNM).
S. hypselopterus Bleeker, 1853: A,M,P,S; [WP; Papua to Sumatra].
S. niger Forsskål, 1775: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
S. oviceps Valenciennes, 1839: A,F,T; [WCP; Papua to Sulawesi]; (USNM).
S. prasiognathos Valenciennes, 1839: A,B,F,K,P,R,T,W; [EIWP; Papua to Sumatra]; (USNM).
S. psittacus Forsskål, 1775: A,B,F,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
S. quoyi Valenciennes, 1840: A,B,F,K,R,S,T,W; [NIWP; Papua to Sumatra]; (BPBM).
S. rivulatus Valenciennes, 1839: A,B,F,K,M,R,T; [WP; Papua to Sumatra]; (USNM).
S. rubroviolaceus Bleeker, 1847: A,B,F,K,M,T,W; [IP; Papua to Sumatra]; (USNM).
S. scaber Valenciennes, 1840: W; [IO; W. Sumatra]; (USNM).
S. schlegeli Bleeker, 1861: A,B,F,K,T; [WCP; Papua to Bali].
S. spinus (Kner, 1868): A,B,F,K,M,T; [WCP; Papua to Bali and Sulawesi].
S. tricolor Bleeker, 1849: A,B,F,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
S. viridifucatus (Smith, 1956): B,W; [IO; Bali to W. Sumatra].
S. xanthopleura Bleeker, 1853: B,F,T; [WCP; Papua to Sulawesi]; (USNM).

Uranoscopidae - Stargazers (2 spp.)

Key reference: Kishimoto, 2001.

- Uranoscopus bicinctus* Temminck and Schlegel, 1843: M; [WP; Moluccas].
U. sulphureus Valenciennes, 1832: B; [WP; Papua to Bali].

Trichonotidae - Sanddivers (4 spp.)

Key references: Kuitert and Tonzuka, 2001; Nelson, 2001.

- Trichonotus elegans* Shimada and Yoshino, 1984: A,B,F,M,S,W; [EIWP; Papua to Sumatra]; (WAM).
T. setiger (Bloch and Schneider, 1801): A,F,M,R,T; [WP; Papua to Sumatra]; (USNM, WAM).

T. sp. Kuitert and Tonzuka, 2001: [undetermined; Lembah Strait, N. Sulawesi].

T. filamentosus (Steindachner, 1867): B; [WP; Bali].

Creediidae - Sand Burrowers (1 sp.)

Key references: Nelson, 1978, 2001.

Limnichthys nitidus Smith, 1958: B,K; [WCP; Papua to Bali].

Percophididae - Duckbills (1 sp.)

Key reference: Kuitert and Tonzuka, 2001.

undetermined genus and species: B,F; [WP; Flores to Bali]; (BPBM, WAM).

Pinguipedidae - Sandperches (14 spp.)

Key references: Kuitert and Tonzuka, 2001; Myers, 1999; Randall, 2001b.

P. clathrata Ogilby, 1910: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).

P. cylindrica (Bloch, 1797): A,B,F,K,P,T,W; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).

P. hexophthalma (Cuvier, 1829): A,B,F,K,M,P,S,W; [IWP; Papua to Sumatra].

P. maculata (Bloch and Schneider, 1801): B,P; [NIIAA; Flores to Sumatra].

P. millepunctata (Günther, 1860): A,B,F,KW; [EIWCP; Bali to W. Sumatra].

P. multiplicata Randall, 1984: B,K; [WP; Bali and Komodo]; (BPBM).

P. schauinslandi (Steindachner, 1900): A,B,F,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).

P. snyderi Jordan and Starks, 1905: A,B,M,P,W; [WP; Papua to Sumatra].

P. somaliensis Schultz, 1968: B; [IWP; Bali].

P. tetracantha (Lacepède, 1801): A,B,F,K,M,S,T,W; [NIWP; Papua to Sumatra]; (BPBM).

P. xanthozona (Bleeker, 1849): B,F; [IWP; Java and Bali]; (BPBM, USNM).

P. sp. 1 Kuitert and Tonzuka, 2001: A,B,K,M,S,R; [**ENDEMIC**; Papua to Bali and N. Sulawesi]; (BPBM, WAM).

P. sp. 2 Kuitert and Tonzuka, 2001: A,B,F,P; [IAA; Papua to Java].

P. sp. 6 Kuitert and Tonzuka, 2001: B,F; [WP; Papua to Sumatra].

Pholidichthyidae - Convict Blennies (1 sp.)

Key references: Springer, 2001; Springer and Larson, 1996.

Pholidichthys leucotaenia Bleeker, 1856: A,M,T; [IAA; Papua to Sulawesi]; (BPBM, USNM,

WAM).

Tripterygiidae - Triplefins (27 spp.)

Key reference: Fricke, 1997.

- Ceratobregma helenae* (Holleman, 1987): B,K; [WP; Papua to Bali]; (USNM, WAM).
Enneapterygius bahasa Fricke, 1987: [WP; Moluccas to Kalimantan]; (USNM).
E. elegans (Peters, 1877): R; [IWP; Riau Islands to Mentawai Islands]; (USNM, WAM).
E. fasciatus (Weber, 1909): F; [IWP; Papua to Sumatra]; (BPBM, USNM).
E. flavoccipitis Shen and Wu, 1994: [WP; Moluccas to Java]; (BPBM, USNM).
E. hemimelas (Kner and Steindachner, 1867): B,K; [WCP; Moluccas to Bali]; (BPBM, USNM, WAM).
E. mirabilis Fricke, 1994: M; [WP; N. Sulawesi].
E. nanus (Schultz, 1960): B; [WCP; Papua to Java]; (BPBM, USNM).
E. philippinus (Peters, 1869): A,F; [IWCP; Papua to Sumatra]; (USNM, WAM).
E. rubricauda Shen and Wu, 1994: A; [WP; Raja Ampat Islands, Papua] (WAM).
E. similis Fricke, 1997: [WP; Moluccas]; (BPBM).
E. tutuilae Jordan and Seale, 1906: B,K,T; [IWCP; Papua to Sumatra]; (BPBM, WAM, USNM).
E. unimaculatus Fricke, 1994: [IAA; Moluccas to Bali]; (USNM).
E. zieglerei Fricke, 1994: A; [IAA; Moluccas to Bali]; (BPBM, WAM).
Helcogramma fuscipectoris (Fowler, 1946): [WP; N. Sulawesi].
H. gymnauchen (Weber, 1909): [IAA; Timor].
H. kranos Fricke, 1994: **[ENDEMIC]**; Komodo-Lombok]; (BPBM).
H. rhinoceros Hansen, 1986: B,F; [WP; Flores to Sumatra]; (BPBM).
H. solorensis Fricke, 1994: **[ENDEMIC]**; Solor Island]; (BPBM).
H. springeri Hansen, 1986: [IAA; Moluccas to Java]; (BPBM, USNM).
H. striatum Hansen, 1986: A,B,F,K,M,S,T,W; [EIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
H. trigloides (Bleeker, 1858): F,T; [WP; Moluccas to Sumatra]; (USNM, WAM).
H. vulcanum Randall and Clark, 1993: B; **[ENDEMIC]**; Moluccas to Bali]; (BPBM, USNM).
H. sp. 1 Fricke, 1994: [IAA; N. Sulawesi].
H. sp. 7 Fricke, 1994: [WCP; E. Nusa Tenggara

Islands and Moluccas]; (BPBM).

Norfolkia brachylepis (Schultz, 1960): K; [IWCP; Papua to Sumatra]; (BPBM, WAM).

Ucla xenogrammicus Holleman, 1993: F,K; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Clinidae - Weedfishes (1 sp.)

Key reference: de Beaufort and Chapman, 1951.

Springeratus xanthosoma (Bleeker, 1857): [WP; Bali and Java].

Blenniidae - Blennies (107 spp.)

- Key references: Bath 1992a, b, c; Bath and Randall, 1991; Myers, 1999; Smith-Vaniz 1976, 1987; Smith-Vaniz and Springer 1971; Smith-Vaniz et al., 2001; Springer 1967, 1972, 1988, 1991, 2001; Springer and Allen, 2001; Springer and Gomon, 1975; Springer and Randall, 1999; Springer and Williams 1994; Williams 1988.
Alticus saliens (Forster, 1788): F; [EIWCP. Papua to Sumatra].
Andamia heteroptera (Bleeker, 1857): [IAA; Papua to Kalimantan]; (BPBM).
A. tetradactylus (Bleeker, 1858): M; **[ENDEMIC]**; Moluccas to Belitung].
Aspidontus dussumieri (Valenciennes, 1836): A,B,F; [IWCP; Papua to Sulawesi]; (BPBM, USNM).
A. taeniatus Quoy and Gaimard, 1834: B,F,K,T,W; [IWCP; Papua to Sumatra]; (USNM).
Atrosalarias fuscus (Rüppell, 1835): A,F,M,S,T; [NIWCP; Papua to Sumatra]; (USNM).
Blenniella bilitonensis (Bleeker, 1858): F,R; [WP; Moluccas to Sumatra]; (USNM, WAM).
B. chrysospilos (Bleeker, 1857): B,T,W; [IWCP; Papua]; (BPBM, USNM, WAM).
B. cyanostigma (Bleeker, 1849): [IO; Bali to Sumatra]; (USNM).
B. caudolineata (Günther, 1877); [WCP; Ambon]; (USNM).
B. interrupta (Bleeker, 1857): [IAA; Papua to Bali]; (USNM).
B. leopardus (Fowler, 1904): W; [EIO; W. Sumatra]; (USNM, WAM).
B. periophthalmus (Valenciennes, 1836): K,M; [IWP; Papua to Sumatra]; (USNM, WAM).
Cirripectes auritus Carlson, 1981: B,F,K,W; [IWCP; Flores to Sumatra]; (BPBM).
C. castaneus (Valenciennes, 1836): A,B,F,K,M,S,T,W; [IWP; Papua to Sumatra]; (USNM).
C. filamentosus (Alleyne and Macleay, 1877): A; [IWP; Papua to Sumatra]; (USNM).
C. gilberti Williams, 1988: W; [IO; N. Sumatra];

- (USNM).
- C. perustus* Smith, 1959: [IWCP; Papua to Sumatra]; (USNM).
- C. polyzona* (Bleeker, 1868): A,K,T,W; [IWCP; Papua to Sumatra]; (USNM).
- C. quagga* (Fowler and Ball, 1924): A; [IWCP; Moluccas].
- C. springeri* Williams, 1988: B,F; [IAA; Papua to Bali]; (USNM).
- C. stigmaticus* Strasburg and Schultz, 1953: A,M,B; [IWCP; Papua to Sumatra]; (USNM).
- Crossosalarias macrospilus* Smith-Vaniz and Springer, 1971: A,F,M; [WP; Papua to Sumatra]; (BPBM, USNM).
- Ecsenius axelrodi* Springer, 1988: M; [IAA; Papua to Sulawesi]; (BPBM).
- E. bandanus* Springer, 1971: A,F,K,M,P; [**ENDEMIC**; Papua to Java]; (BPBM, USNM).
- E. bathi* Springer, 1988: A,B,F,K,M,T; [**ENDEMIC**; Papua to Bali and N. Sulawesi]; (BPBM, USNM, WAM).
- E. bicolor* (Day, 1888): A,B,F,K,M,S,T,W; [EIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. bimaculatus* Springer, 1971: M,S,T; [IAA; N. Sulawesi and NE Kalimantan].
- E. lineatus* Klausewitz, 1962: B,F,T; [IWP; Flores to Bali and Togeans Islands]; (BPBM).
- E. lividanalisis* Chapman and Schultz, 1952: A,K,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- E. lubbocki* Springer, 1988: B,W; [EIO; Bali to W. Sumatra].
- E. melarchus* McKinney and Springer, 1976: P; [IAA; Java Sea and Kalimantan]; (BPBM, USNM).
- E. midas* Starck, 1969: B,F,M,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- E. monoculus* Springer, 1988: [IAA; Raja Ampat Islands to Moluccas]; (BPBM, USNM).
- E. namiyei* (Jordan and Evermann, 1903): A,B,F,K,M,S,T; [IAA; Papua to Kalimantan]; (BPBM, USNM, WAM).
- E. ops* Springer and Allen, 2001: T; [**ENDEMIC**; Flores to Bali and Gulf of Tomini]; (BPBM, USNM, WAM).
- E. paroculus* Springer, 1988: [IAA; Java Sea to Sumatra]; (USNM).
- E. pictus* McKinney and Springer, 1976: F,T; [IAA; Papua to Bali and Togeans Islands]; (BPBM, USNM).
- E. polystictus* Springer and Randall, 1999: W; [**ENDEMIC**; W. Sumatra]; (USNM).
- E. randalli* Springer, 1991: [**ENDEMIC**; Halmahera]; (BPBM).
- E. schroederi* McKinney and Springer, 1976: [IAA; Moluccas]; (USNM).
- E. sp.*: (Togeans) T; [**ENDEMIC**; Togeans and Sangehe Islands].
- E. stigmatura* Fowler, 1952: A; [IAA; Papua and Moluccas]; (USNM, WAM).
- E. tricolor* Springer and Allen, 2001: [IAA; Derawan I., Kalimantan].
- E. trilineatus* Springer, 1972: A,B,F,T; [IAA; Papua to Bali]; (BPBM, USNM).
- E. yaeyamaensis* (Aoyagi, 1954): A,F,M,T; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Enchelyurus flavipes* Peters, 1868: [IAA; Sulawesi]; (USNM).
- E. kraussi* (Klunzinger, 1871): [IWP; Moluccas to Sumatra]; (USNM).
- Entomacrodus caudofasciatus* (Regan, 1909): [WCP; Papua]; (BPBM, USNM).
- E. decussatus* (Bleeker, 1857): [IWCP; Sulawesi to Sumatra].
- E. epalzeocheilus* (Bleeker, 1859): [IWP; Java]; (USNM).
- E. striatus* (Quoy and Gaimard, 1836): A,F,R; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. thalassinus* (Jordan and Seale, 1906): P; [IWCP; Java Sea]; (USNM).
- E. vermiculatus* (Valenciennes, 1836): B; [IO; Malacca Strait]; (USNM).
- E. williamsi* Springer and Fricke, 2000: [IAA; Ternate]; (USNM).
- Exallias brevis* (Kner, 1868): B,F,K,M; [IWCP; Papua to Sumatra]; (USNM).
- Glyptoparus delicatulus* Smith, 1959: F; [IWP; Flores]; (USNM).
- Istiblennius dussumieri* (Valenciennes, 1836): [IWP; Papua to Sumatra]; (BPBM, USNM).
- I. edentulus* (Forster, 1801): A,B,F,K; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- I. lineatus* (Valenciennes, 1836): A,F; [EIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- I. muelleri* (Klunzinger, 1880): [IAA; Papua and Moluccas]; (USNM).
- Laiphognathus multimaculatus* Smith, 1955: R; [IWP; Riau Islands]; (USNM, WAM).
- Litobranchius fowleri* (Herre, 1926): [IAA; Papua to Lombok]; (BPBM, USNM).
- Meiacanthus abditus* Smith-Vaniz, 1987: F; [IAA; Flores to NE Kalimantan]; (BPBM).
- M. atrodorsalis* (Günther, 1877): A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).

- M. crinitus* Smith-Vaniz, 1987: A; [**ENDEMIC**; Papua and N. Sulawesi]; (USNM, WAM).
- M. ditrema* Smith-Vaniz, 1976: A,B,F,K,S,T; [WP; Papua to Komodo and Kalimantan]; (BPBM, USNM).
- M. grammistes* (Valenciennes, 1836): A,B,F, K,M,T; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- M. smithi* Klausewitz, 1962: B,P,W; [EIO; Bali to W. Sumatra]; (USNM).
- M. sp. 1*: [**ENDEMIC**; Banggai Islands].
- M. sp. 2*: [**ENDEMIC**; Togean Islands].
- M. urostigma* Smith-Vaniz, Satapoomin, and Allen, 2001: W; [EIO; N. Sumatra]; (WAM).
- M. vicinus* Smith-Vaniz, 1987: T; [**ENDEMIC**; SE Sulawesi]; (WAM).
- Mimoblennius atrocinctus* (Regan, 1909): M; [EIWP; N. Sulawesi].
- Nannosalarias nativitatus* (Regan, 1909): B; [WCP; Moluccas to Java Sea]; (USNM).
- Omobranchus elongatus* (Peters, 1855): R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- O. germaini* (Sauvage, 1883): [WP; Halmahera and Moluccas to Flores]; (USNM).
- O. hikkaduensis* Bath, 1983: [EIO; Bali].
- O. punctatus* (Valenciennes, 1836): [IWP; Halmahera]; (USNM).
- O. obliquus* (Garmann, 1903): B; [EIWCP; Papua to Flores]; (BPBM, USNM).
- Paralticus amboinensis* (Bleeker, 1857): B,F,K,T,S; [IAA; Papua to Kalimantan]; (USNM, WAM).
- Parenchlyurus hepburni* (Snyder, 1908): F; [IWCP; Moluccas to Flores]; (USNM).
- Petroscirtes breviceps* (Valenciennes, 1836): A,B,F,K,P,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. mitratus* Rüppell, 1828: B,F,K,P; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. variabilis* Cantor, 1850: B,F; [EIWP; Papua to Sumatra]; (BPBM, USNM).
- P. xestus* Jordan and Seale, 1906: F,P; [IWCP; Moluccas to Java]; (USNM).
- Plagiotremus laudandus* (Whitley, 1961): B,F,K, M,S,T; [WP; Papua to Kalimantan]; (USNM).
- P. phenax* Smith-Vaniz, 1976: W; [EIO; N. Sumatra].
- P. rhinorhynchus* (Bleeker, 1852): A,B,F,K,S,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. spillistius* Gill, 1865: [WP; N. Sulawesi].
- P. tapeinosoma* (Bleeker, 1857): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (WAM).
- Praealticus bilineatus* (Peters, 1868): F; [WP; Moluccas].
- P. oortii* (Bleeker, 1851): [EIIAA; Papua to Sumatra].
- P. triangulus* (Chapman, 1951): [EIIAA; Java to Sumatra].
- Rhabdoblennius snowi* (Fowler, 1928): A; [IWCP; Papua].
- Salarias ceramensis* Bleeker, 1852: B; [IAA; Papua to Sumatra]; (BPBM, USNM).
- S. fasciatus* (Bloch, 1786): A,B,F,K,M,R,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- S. guttatus* Valenciennes, 1836: B,F,K,W; [IAA; Papua to Sumatra]; (BPBM, USNM, WAM).
- S. patzneri* Bath, 1992: A,F,M,R,S,T; [IAA; Papua to Sumatra]; (USNM, WAM).
- S. ramosus* Bath, 1992: A,K,M,T; [IAA; Komodo and Bali to N. Sulawesi]; (BPBM).
- S. segmentatus* Bath and Randall, 1991: A,F,T; [IAA; Papua to Kalimantan]; (USNM).
- S. sexfilum* Günther, 1861: [IAA; Lucipara Islands and Sumba].
- S. sibogai* Bath, 1992: A; [**ENDEMIC**; Papua to Flores]; (WAM).
- S. sinuosus* Snyder, 1908: [WP; Bali to Sulawesi]; (BPBM, USNM).
- Stanulus seychellensis* Smith, 1969: [IWCP; Molucca Islands]; (USNM).
- Xiphasia matsubarai* Okada and Suzuki, 1952; [IWP; S. Flores].
- X. setifer* Swainson, 1839: B,F; [IWP; Papua to Sumatra].

Callionymidae - Dragonets (29 spp.)

Key reference: Fricke, 1983.

- Anaroa tentaculata* Gray, 1835: A,F,K; [IAA; Papua to Komodo]; (WAM).
- Callionymus amboina* Swardji, 1965: [**ENDEMIC**; Moluccas]; (USNM).
- C. annulatus* Weber, 1913: F; [IAA; Timor to Bali].
- C. bleekeri* Fricke, 1983: [**ENDEMIC**; Java].
- C. brevianalis* Fricke, 1983: [**ENDEMIC**; W. Papua].
- C. delicatulus* Smith, 1963: F,W; [IWP; Papua to Sumatra]; (WAM).
- C. enneactis* Bleeker, 1879: A,F,K; [WP; Papua to Java]; (USNM, WAM).
- C. filamentosus* Valenciennes, 1837: [IWP; Papua to Sumatra]; (BPBM, USNM).
- C. keeleyi* Fowler, 1941: [IAA; Papua to Kai Islands].
- C. neptunius* (Seale, 1910): B; [IAA; Papua to

Bali].

- C. parvus* (Nakabo, 1984): B,M; [WP; Bali to N. Sulawesi].
- C. pleurostictus* Fricke, 1992: A,K; [IAA; Papua to Komodo]; (BPBM, USNM, WAM).
- C. schaapi* Bleeker, 1852: F; [EIWP; Flores to Sumatra].
- C. simplicicornis* Valenciennes, 1837: F; [WCP; Flores].
- C. superbus* Fricke, 1983: F; [ENDEMIC; Moluccas to Sulawesi]; (BPBM).
- Dactylopus dactylopus* (Bennett, 1837): B,F,P; [EIWP; Moluccas to Bali]; (BPBM).
- D. kuiteri* (Fricke, 1992): B,F; [ENDEMIC; Flores to Bali].
- Diplogrammus goramensis* (Bleeker, 1858): F; [WCP; Moluccas to Flores]; (BPBM, USNM).
- D. xenicus* (Jordan and Thompson, 1914): W; [WP; W. Sumatra]; (WAM).
- Eleutherochir opercularis* (Valenciennes, 1837): B; [EIIAA; Papua to Sumatra].
- Synchiropus bartelsi* Fricke, 1981: B,F; [IAA; Papua to Bali and Sulawesi]; (USNM).
- S. grinnelli* Fowler, 1941: F; [IAA; Flores].
- S. laddi* Schultz, 1960: F; [WCP; Flores].
- S. morrisoni* Schultz, 1960: A,B,F,K,M,S; [WCP; Papua to Kalimantan]; (BPBM, WAM).
- S. moyeri* Zaiser and Fricke, 1985: B; [WP; Papua to Bali].
- S. ocellatus* (Pallas, 1770): A,B,K,M; [WCP; Papua to Komodo]; (BPBM, USNM, WAM).
- S. picturatus* (Peters, 1877): B; [IAA; Papua to Komodo].
- S. splendidus* (Herre, 1927): A,B,F,M,S; [WP; Papua to Kalimantan]; (USNM, WAM).
- S. stellatus* Smith, 1963: W; [IO; N. Sumatra].

Eleotridae - Gudgeons (2 spp.)

Key reference: Larson and Hoese, 1980.

- Calumia godeffroyi* (Günther, 1877): F; [IWCP; Flores]; (WAM).
- C. profunda* Larson and Hoese, 1980: S,T; [IAA; Togean Islands and Kalimantan]; (BPBM, WAM, USNM).

Gobiidae - Gobies (272 spp.)

Key references: Allen, 2001b; Hoese and Larson, 1994, 2001; Hoese and Randall, 1982; Kuitert and Tonzuka, 2001; Koumans, 1953; Lachner and Karanella, 1980; Lachner and McKinney, 1978, 1979; Larson, 1985; Larson, 1986; Larson, 1990; Larson and Murdy, 2001; Murdy, 1985; Murdy and Hoese, 1985; Myers, 1999; Winterbottom and Emery, 1986.

- Amblyeleotris arcupinna* Mohlmann and Munday, 1999: A,B,F; [IAA; Papua to Bali].
- A. aurora* Polunin and Lubbock, 1979: W; [IO; N. Sumatra].
- A. diagonalis* Polunin and Lubbock, 1979: B,F,K,M,W; [IWCP; Papua to Sumatra]; (BPBM).
- A. downingi* Randall, 1994: W; [NIO; W. Sumatra]; (BPBM).
- A. fasciata* (Herre, 1953): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- A. fontanesii* (Bleeker, 1852): A,B,F; [EIWP; Papua to Bali]; (BPBM).
- A. guttata* (Fowler, 1938): A,B,F,K,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- A. gymnocephala* (Bleeker, 1853): A,B,F,R,T; [WP; Papua to Sumatra]; (BPBM).
- A. latifasciata* Polunin and Lubbock, 1979: A,B,F,T; [IAA; Papua to Bali and N. Sulawesi]; (BPBM).
- A. melanocephala* Aonuma, Iwata, and Yoshino, 2000: B; [WP; Bali].
- A. ogasawarensis* Yanagisawa, 1978: F; [WP; Moluccas to Flores]; (BPBM).
- A. periophtalma* (Bleeker, 1853): A,B,F,M,R,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- A. randalli* Hoese and Steene, 1978: B,F,M,S,T; [WCP; Papua to Kalimantan]; (USNM, WAM).
- A. steinitzi* (Klausewitz, 1974): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- A. spp.* (at least 4 undescribed spp. - see Kuitert and Tonzuka, 2001).
- A. yanoi* Aonuma and Yoshino, 1996: A,B,T; [WP; Papua to Bali and Sulawesi]; (BPBM).
- Amblygobius buanensis* (Herre, 1927): T; [IAA; Java and Togean Islands].
- A. bynoensis* (Richardson, 1844): A,B,R; [WP; Papua to Sumatra]; (USNM, WAM).
- A. decussatus* (Bleeker, 1855): A,B,F,K,M,P,S,T; [WCP; Papua to Kalimantan]; (USNM, WAM).
- A. esakiae* (Herre, 1927): A,B; [IWP; Papua to Sumatra]; (WAM).
- A. nocturnus* (Herre, 1945): A,B,F,K,M; [NIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. phalaena* (Valenciennes, 1837): A,B,F,K,M,P,R,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. semicinctus* (Bennett, 1833): B,P,W; [IO; Bali to W. Sumatra]; (USNM).
- A. sp. 1* Kuitert and Tonzuka, 2001: B,F; [undetermined; Flores to Bali].
- A. sphynx* (Valenciennes, 1837): B,F; [IWP;

- Papua to Sumatra]; (BPBM, USNM).
- Asterropteryx bipuncatus* Allen and Munday, 1996: A,B,T; [IWP; Papua to Bali]; (WAM).
- A. ensifer* (Bleeker, 1874): B; [IWCP; Papua to Sumatra]; (USNM, WAM).
- A. semipunctatus* Rüppell, 1830: A,B,K,R,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- A. spinosus* (Goren, 1981): [WCP; Papua to Bali]; (BPBM, USNM).
- A. striatus* Allen and Munday, 1996: F,K,S,T; [IAA; Flores to Kalimantan]; (BPBM, USNM, WAM).
- Barbuligobius boehlkei* Lachner and McKinney, 1974: [IWP; Papua to Sumatra].
- Bathygobius coalitus* (Bennett, 1832): F; [IWCP; Papua to Sumatra].
- B. cocosensis* (Bleeker, 1854): A,B; [IWCP; Papua to Sumatra]; (USNM, WAM).
- B. cotticeps* (Steindachner, 1880): [IWCP; Papua to Sumatra].
- B. cyclopterus* (Valenciennes, 1837): A,B,K; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- B. fuscus* (Rüppell, 1830): B,F,R; [IWP; Papua to Sumatra]; (USNM, WAM).
- B. laddi* (Fowler, 1931): R; [IWCP; Papua to Sumatra]; (WAM).
- B. petrophilus* (Bleeker, 1853): B; [WP; Papua to Bali].
- Bryaninops amplus* Larson, 1985: A,R,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- B. loki* Larson, 1985: A,B,F,R,T,W; [IWCP; Papua to Sumatra]; (BPBM, WAM).
- B. natans* Larson, 1985: A,B,F,T; [IWP; Flores to Togeian Islands].
- B. nexus* Larson, 1987: F,S; [WP; Flores to Kalimantan].
- B. tigris* Larson, 1985: A,B,F,T; [IWCP; Flores to Bali]; (BPBM).
- B. yongei* (Davis and Cohen, 1969): A,B,K,M,S; [IWCP; Papua to Sumatra]; (BPBM).
- Cabillus macrophthalmus* (Weber, 1909): [WP; Papua to Sumatra].
- Callogobius centrolepis* (Weber, 1909): [IOIAA; Sulawesi]; (USNM).
- C. clitellus* McKinney and Lachner, 1978: F; [IAA: Banda Islands]; (BPBM, USNM).
- C. crassus* McKinney and Lachner, 1984: [IAA; Moluccas]; (BPBM).
- C. hasselti* (Bleeker, 1851): F,R,W; [WP; Papua to Sumatra]; (USNM, WAM).
- C. maculipinnis* (Fowler, 1918): A; [IWCP; Papua to Sumatra]; (USNM) (WAM).
- C. sclateri* (Steindachner, 1880): B,F; [IWCP; Papua to Sumatra]; (USNM).
- C. spp.* (at least 4 undescribed spp. - see Kuitert and Tonozuka, 2001).
- Cryptocentroides insignis* Seale, 1910: A; [WP; Papua and Halmahera]; (USNM, WAM).
- Cryptocentrus albidorsus* (Yanagisawa, 1978): F,R; [WP; Flores to Sumatra]; (WAM).
- C. caeruleomaculatus* (Herre, 1933): A,B,F,K,R; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. cinctus* (Herre, 1936): A,B,F,K,M,P,R,S,T; [WP; Papua to Sumatra]; (USNM, WAM).
- C. cyanotaenia* (Bleeker, 1853): B,F; [IAA; Papua to Flores].
- C. fasciatus* (Playfair, 1866): A,B,F,K,P,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- C. inexplicatus* (Herre, 1931): B,P; [WP; Bali to Sumatra].
- C. leptocephalus* Bleeker, 1876: A,B,F,K,R; [WP; Papua to Sumatra]; (WAM).
- C. leucostictus* (Günther, 1871): A,B,F; [WCP; Papua to Bali]; (BPBM, USNM).
- C. maudae* Fowler, 1937: [IAA; Papua to Kalimantan].
- C. nigrocellatus* (Yanagisawa, 1978): B,F,R; [WP; Flores to Sumatra]; (USNM).
- C. pavoninoides* (Bleeker, 1849): B,M; [IAA; Bali and Java to N. Sulawesi].
- C. polyophthalmus* (Bleeker, 1853): F; [ENDEMIC; S. Sulawesi to Bali and Java].
- C. strigilliceptus* (Jordan and Seale, 1906): A,B,F,K,P,R,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- C. sp. 1* (sp. B in Myers, 1999): B,P,R,S,T; [WP; Papua to Sumatra]; (WAM).
- C. sp. 2* (sp. C in Myers, 1999): A,F (WP; Papua to Flores) (WAM).
- Ctenogobiops aurocingulus* (Herre, 1935): A,F,M; [WCP; Papua to Flores and Sulawesi]; (BPBM).
- C. crocineus* Smith, 1959: B,T,W; [IWP; Papua to Sumatra].
- C. feroculus* Lubbock and Polunin, 1977: A,F,M,S; [IWP; Papua to Sumatra].
- C. pomastictus* Lubbock and Polunin, 1977: A,B,F,K,M,P,R,W; [WP; Papua to Sumatra]; (USNM, WAM).
- C. tangaroai* Lubbock and Polunin, 1977: B,F,K,T; [WCP; Papua to Bali and Togeian Islands].
- Discordipinna griessingeri* (Hoese and Fourmanoir, 1978): F; [IWCP; Flores].
- Eviota afelei* Jordan and Seale, 1906: [WCP:

- unspecified locality]; (USNM).
- E. albolineatus* Jewett and Lachner, 1983: A,B,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. bifasciata* Lachner and Karnella, 1980: A,F,K,T; [(IAA; Irian Jaya to Java Sea)]; (BPBM, USNM, WAM).
- E. cometa* Jewett and Lachner, 1983: B; [WP; Bali].
- E. distigma* Jordan and Seale, 1906: [IWCP; Moluccas]; (USNM).
- E. guttata* Lachner and Karnella, 1878: A,T,W; [IWCP; Papua to Sumatra]; (BPBM).
- E. herrei* Jordan and Seale, 1906: [WCP; Moluccas to Java Sea]; (BPBM, USNM).
- E. infulata* (Smith, 1957): P; [IWCP; Java].
- E. lachdebereri* Giltay, 1933: A,T; [WCP; Papua to Sulawesi]; (USNM).
- E. latifasciata* Jewett and Lachner, 1983: T; [WP; Wetar to Togeian Islands]; (BPBM, WAM).
- E. melasma* Lachner and Karanella, 1980: B,F,T; [WCP; Papua to Komodo and Sulawesi]; (BPBM, USNM, WAM).
- E. mikiae* Allen, 2001: W; [EIO; N. Sumatra].
- E. nebulosa* Smith, 1958: [IWCP; Papua to Sumatra]; (USNM).
- E. nigriventris* Giltay, 1933: A,B,F,K,T; [IAA; Papua to Java Sea]; (USNM).
- E. pellucida* Larson, 1976: A,B,F,K,M,T; [WCP; Papua to Bali and Sulawesi]; (USNM, WAM).
- E. prasina* (Klunzinger, 1871): A,M,R,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. prasites* Jordan and Seale, 1906: A,B,F,T; [IWCP; Papua to Bali]; (BPBM, USNM).
- E. punctulata* Jewett and Lachner, 1983: [WCP; Bawean Island]; (USNM).
- E. queenslandica* Whitley, 1932: K,M,R,W; [WP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. raja* Allen, 2001: A; **[ENDEMIC; Papua]**.
- E. sebreei* Jordan and Seale, 1906: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- E. sigillata* Jewett and Lachner, 1983: B,F,R,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- E. spp.* (at least 6 undescribed spp. - see Kuitert and Tonzuka, 2001)
- E. sparsa* Jewett and Lachner, 1983: A; [WCP; Papua to Moluccas]; (USNM, WAM).
- E. spilota* Lachner and Karanella, 1980: [WP; Papua to Sumatra]; (BPBM, USNM).
- E. storthynx* (Rofen, 1959): P; [WCP; Java Sea]; (USNM).
- E. zebrina* (Lachner and Karanella, 1978): B,W; [IWP; N. Sumatra]; (WAM).
- E. zonura* Jordan and Seale, 1906: [WCP; Ataoru I. and Waigeo I.]; (BPBM).
- Exyrias belissimus* (Smith, 1959): B,F,M,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- E. ferrarisi* Murdy, 1985: B; [IAA; Bali].
- E. sp.*: B,M; [IAA; Bali].
- E. puntang* (Bleeker, 1851): B,F,S; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- Favonigobius melanobranchus* (Fowler, 1934): B,F; [IAA; Papua to Bali].
- F. reichei* (Bleeker, 1853): A,B,F; [IWP; Papua to Sumatra]; (USNM, WAM).
- Feia nympa* Smith, 1959: [IWP; Papua to Sumatra]; (BPBM, USNM).
- Flabelligobius latruncularius* (Klausewitz, 1974): [IWP; Karimunjawa, Java Sea].
- F. sp. 1* Kuitert and Tonzuka, 2001: [WP; Derawan, E. Kalimantan].
- Fusigobius aureus* Chen and Shao, 1997: A,B; [IAA; Papua to Bali].
- F. duospilus* Hoese and Reader, 1985: A,B,F; [IWCP; Papua to Sumatra]; (USNM, WAM).
- F. humeralis* (Randall, 2001): K; [EIWCP; Banda Sea to Komodo]; (BPBM).
- F. inframaculatus* Randall, 1994: A,B,F,K,S,T,W; [IWP; Papua to Sumatra]; (BPBM, WAM).
- F. maximus* (Randall, 2001): [IWP; Moluccas]; (BPBM).
- F. melacron* (Randall, 2001): F; [EIWP; Papua to Sumatra]; (BPBM, USNM).
- F. neophytus* (Günther, 1877): A,F,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- F. pallidus* (Randall, 2001): [IWP; Banda Sea]; (BPBM).
- F. signipinnis* Hoese and Obika, 1988: A,B,F,K,T; [WP; Papua to Komodo and Sulawesi]; (BPBM, USNM, WAM).
- Gladigobius ensifer* Herre, 1933: B,M; [EIWP; Papua to Sumatra]; (USNM, WAM).
- G. sp.*: B; **[ENDEMIC; Bali]**; (WAM).
- Gnatholepis anjerensis*. (Bleeker, 1850): B,K,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- G. cauerensis* (Bleeker, 1853): F,K,M,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM). Note: *G. davaoensis* (Seale, 1910) is a junior synonym.
- G. ophthalmotaenia* Bleeker, 1854: B,F; [WP; Flores, Ambon, and Halmahera]; (BPBM, USNM).
- Gobiodon ceramensis* (Bleeker, 1852): [WP; Papua to Moluccas].

- G. citrinus* (Rüppell, 1838): B,M,W; [IWCP; Papua to Sumatra]; (WAM).
- G. erythrospilus* Bleeker, 1875: [EIWP; Papua to Sumatra].
- G. heterospilos* Bleeker, 1856: [WP; Irian Jaya to Kalimantan].
- G. histrio* (Valenciennes, 1837): F,M,R; [IWCP; Papua to Sumatra]; (WAM).
- G. okinawae* Sawada, Arai, and Abe, 1972: A,B,F,K,M,T; [IWCP; Komodo and Sulawesi].
- G. quinquestrigatus* (Valenciennes, 1837): B,T; [IWCP; Papua to Sumatra].
- G. rivulatus* (Rüppell, 1830): [IWP; Papua to Sumatra].
- G. spilophthalmus* Fowler, 1944: T; [WP; Papua to Sulawesi].
- G. unicolor* (Castelnau, 1873): A; [IAA; Papua].
- Gobiopsis angustifrons* Lachner and McKinney, 1978: [IAA; Sulawesi and Ceram]; (USNM).
- G. aporia* Lachner and McKinney, 1978: [WP; Papua to Moluccas]; (USNM).
- G. bravoii* (Herre, 1940): [WP; Saparua]; (USNM).
- G. springeri* Lachner and McKinney, 1979: [ENDEMIC; Ceram]; (USNM).
- Hazeus atherinoides* (Peters, 1855): B,F; [IWP; Flores to Bali].
- H. diacanthus* (Schultz, 1943): F; [WCP; Papua to Flores].
- Istigobius decoratus* (Herre, 1927): A,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- I. diadema* (Steindachner, 1877): B,P; [EIIAA; Bali and Sumatra].
- I. goldmanni* (Bleeker, 1852): F; [IWCP; Papua to Flores]; (USNM, WAM).
- I. nigroocellatus* (Günther, 1873): F; [WP; Papua to Flores]; (BPBM, USNM, WAM).
- I. ornatus* (Rüppell, 1830): B,F,K,M,R,T,W; [IWCP; Papua to Sumatra] (USNM, WAM).
- I. rigilius* (Herre, 1953): A,F,K,M,S,T,W; [WCP; Papua to Sumatra]; (USNM).
- I. spencei* (Smith, 1947): F,W; [IWCP; Flores to Sumatra]; (USNM).
- Koumansetta hectori* (Smith, 1957): B,M,W; [IWP; Bali and Sulawesi to Sumatra]; (USNM).
- K. rainfordi* (Whitley, 1940): A,B,F,M,T; [WP; Papua to Bali]; (USNM, WAM).
- Lotilia graciliosa* Klausewitz, 1960: B,F,M,S; [IWCP; Flores to Kalimantan].
- Lubricogobius exiguus* Tanaka, 1915: B,F; [WP; Flores to Bali].
- Lubulogobius morriganus* Larson, 1983: B; [IAA; Bali].
- Luposicya lupus* Smith, 1959: A,B,F,M; [IWP; Papua to Sumatra]; (USNM).
- Macrodontigobius wilburi* Herre, 1936: A,F,K,M,P,R,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Mahidolia mystacina* (Valenciennes, 1837): A,B,F; [IWP; Papua to Sumatra]; (BPBM, USNM).
- Myersina lachneri* Hoese and Lubbock, 1982: B; [IAA; Bali].
- M. nigrivirgata* Akihito and Meguro, 1983: B,F,P; [WP; Irian Java to Java Sea]; (BPBM, WAM).
- M. sp. 1* (*Myersina sp. 1* in Kuitert and Tonzuka, 2001): B,M; [undetermined; Bali and N. Sulawesi].
- M. sp. 2* (*Myersina sp. 2* in Kuitert and Tonzuka, 2001): B,M; [undetermined; Bali].
- Oplopomus caninoides* (Bleeker, 1852): B; [IWP; Papua to Sumatra].
- O. oplopomus* (Valenciennes, 1837): A,B,F,K,P,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Oxyurichthys auchenolepis* (Bleeker, 1876): [WP; Java].
- O. cornutus* (McCulloch and Waite, 1918): [WP; Sulawesi].
- O. microlepis* (Bleeker, 1849): B; [EIWP; Flores and Sulawesi to Java].
- O. nototema* (Weber, 1909): B; [IWCP; Timor to Bali and Lombok].
- O. ophthalmoneuma* Bleeker, 1856: B,F; [IWP; Ternate to Java]; (USNM).
- O. papuensis* (Valenciennes, 1837): F,M; [IWP; Papua to Flores and Sulawesi]; (BPBM).
- O. tentacularis* (Valenciennes, 1837): [WP; Lombok and Java].
- O. uronema* (Weber, 1909); [WP; Sumbawa].
- Pandaka pusilla* Herre, 1927: K; [IAA; Komodo]; (WAM).
- Paragobiodon echinocephalus* (Rüppell, 1830): F,M,R,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. melanosoma* (Bleeker, 1852): [IWCP; Papua to Moluccas]; (USNM).
- P. xanthosoma* (Bleeker, 1852): M; [IWCP; Papua to Sumatra]; (USNM).
- Phyllogobius platycephalops* (Smith, 1964): A,B,F,M,T; [IWP; Papua to Flores and Togeian Islands].
- Platygobiopsis akihito* Springer and Randall, 1992: F; [ENDEMIC; Flores]; (BPBM, USNM).
- Pleurosicya boldinghi* Weber, 1913: B; [IWP; Papua to Bali]; (BPBM).

- P. coerulea* Larson, 1990: [IWCP; Papua to Sumatra]; (USNM).
- P. elongata* Larson, 1990: A,B,F,K,M; [WP; Papua to Bali and Sulawesi]; (BPBM, USNM, WAM).
- P. labiata* (Weber, 1913): A,B,T; [EIIAA; Papua to Sulawesi]; (USNM).
- P. micheli* Fourmanoir, 1971: B,F,T; [IWCP; Papua to Sumatra]; (BPBM).
- P. mossambica* Smith, 1959: A,B,F,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- P. muscarum* (Jordan and Seale, 1906): T; [IWCP; Papua to Sumatra]; (USNM).
- P. plicata* Larson, 1990: B; [IWCP; Papua to Sumatra]; (USNM, WAM).
- P. spongicola* Larson, 1990: **[ENDEMIC]**; Bali and Lombok to N. Sulawesi].
- Priolepis aithops* Winterbottom and Burrige, 1992: F; **[ENDEMIC]**; Flores]; (BPBM).
- P. cincta* (Regan, 1908): F,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. compita* Winterbottom, 1985: [IWCP; Moluccas]; (USNM, WAM).
- P. fallacincta* Winterbottom and Burrige, 1992: A,B; [WP; Papua to Bali]; (USNM,WAM).
- P. kappa* Winterbottom and Burrige, 1993: [IWP; Papua to Moluccas]; (USNM).
- P. nocturna* (Smith, 1956): [IWCP; Moluccas]; (BPBM).
- P. nuchifasciatus* (Günther, 1874): R; [IAA; Papua to Sumatra]; (USNM, WAM).
- P. profunda* (Weber, 1909): [IAA; Nusa Tenggara Islands].
- P. semidoliatus* (Valenciennes, 1837): F,K,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- P. sticta* Winterbottom and Burrige, 1992: F; **[ENDEMIC]**; Flores]; (BPBM).
- P. vexilla* Winterbottom and Burrige, 1993: [IAA; Moluccas to Sulawesi]; (BPBM, USNM, WAM).
- Signigobius biocellatus* Hoese and Allen, 1977: A,K,S,T; [IAA; Papua to Kalimantan]; (USNM, WAM).
- Stonogobiops nematodes* Hoese and Randall, 1982: B,F,K,T; [IAA; Flores to Bali and Togean Islands].
- S. yasha* Yoshino and Shimada, 2001: B; [WP; Bali].
- S. xanthorhinica* Hoese and Randall, 1982: A,B,F; [WP; Papua to Bali].
- Sueviota atrinasa* Winterbottom and Hoese, 1988: A,M; [IAA; Sulawesi]; (WAM).
- Tomiyamichthys oni* (Tomiyama, 1936): A,B,F, M,W; [EIWP; Papua to Sumatra]; (BPBM).
- T. sp.* Kuitert and Tonzuka, 2001: [WP; E. Kalimantan].
- Trimma anaima* Winterbottom 2000: A,B,F,S,T; [IWP; Papua to Sumatra]; (USNM).
- T. benjamini* Winterbottom, 1996: A,F,T; [IWP; Papua to Flores and Togean Islands]; (BPBM, WAM).
- T. griffithsi* Winterbottom, 1984: A,B,T; [EIWP; Papua to Sumatra]; (USNM).
- T. halonevum* Winterbottom, 2000: A,B,F; [EIWP; Papua to Sumatra].
- T. hoesei* Winterbottom, 1983: A,F; [EIWP; Papua to Sumatra]; (BPBM).
- T. macrophthalma* (Tomiyama, 1936): A,B,F, K,M; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- T. miita* Winterbottom, 2002: [WCP; Papua to Flores].
- T. naudei* Smith, 1956: A,F,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- T. okinawae* (Aoyagi, 1949): A,B,F,T; [WCP; Papua to Bali]; (BPBM, USNM, WAM).
- T. pharus* Winterbottom 2001: [IWCP; Papua to Sumatra]; (USNM).
- T. rubromaculata* Allen and Munday, 1995: A,B,T; [IAA; Papua Bali and N. Sulawesi]; (BPBM, WAM).
- T. stobbsi* Winterbottom, 2001: [IWCP; Papua to Sumatra].
- T. striata* (Herre, 1945): A,F,K,P,T,W; [EIWCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- T. spp.* (17 undescribed spp. known from Indonesia; R. Winterbottom, pers.comm)
- T. taylori* Lobel, 1979: A,B,F,M,T; [IWCP; Flores to N. Sulawesi]; (BPBM, USNM, WAM).
- T. tevegae* Cohen and Davis, 1969: A,B,F,K,M, T; [IWCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
- Trimmaton nanus* Winterbottom and Emery, 1981: F; [EIWCP; Moluccas to Flores]; (WAM).
- T. saga* Winterbottom, 1989: [EIWP; Moluccas]; (USNM).
- Trysogobius colini* Larson and Hoese, 2001: B,F; [IAA; Papua to Bali].
- Valenciennesa bella* Hoese and Larson, 1994: A,T; [WP; Togean Islands].
- V. helsdingenii* (Bleeker, 1858): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (WAM).
- V. immaculata* Ni Yong, 1981: K,R; [WP; Komodo to Sumatra]; (WAM).
- V. limicola* Hoese and Larson, 1994: B; [EIWP; Banda Sea to Sumatra].

- V. longipinnis* (Lay and Bennett, 1839): F,K,P,R; [WP; Papua to Sumatra]; (BPBM, USNM).
- V. muralis* (Valenciennes, 1837): A,F,K,P,R,T; [IAA; Papua to Sumatra]; (USNM, WAM).
- V. parva* Hoese and Larson, 1994: B,F; [IWCP; Flores]; (BPBM).
- V. puellaris* Tomiyama, 1956: A,B,F,K,M,R,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM, WAM).
- V. sexguttatus* (Valenciennes, 1837): A,B,F,K,P,S,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
- V. strigata* (Broussonet, 1872): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- V. randalli* Hoese and Larson, 1994: A,F,P,T; [WP; Flores to Java Sea and Togeian Islands].
- V. wardi* (Playfair, 1867): B,M; [IWP; N. Sulawesi].
- Vanderhorstia ambonoro* (Fourmanoir, 1957): B,F,W; [IWP; Papua to Sumatra]; (BPBM, WAM).
- V. lanceolata* Yanagisawa, 1978: A,B,F,W; [WP; Papua to Sumatra].
- V. ornatissima* Smith, 1959: B,K,S,W; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
- V. spp.* (possibly as many as 7 undescribed species, see Kuitert and Tonzuka, 2001)
- Yongeichthys nebulosus* (Forsskål, 1775): B,F,K,P; [IWP; Flores to Java Sea]; (BPBM, USNM).

Microdesmidae - Worm Gobies (4 spp.)

Key references: Dawson, 1973; Kuitert and Tonzuka, 2001.

- Gunnelichthys curiosus* Dawson, 1968: B,F,K,T,W; [IWCP; Papua to Sumatra].
- G. monostigma* Smith, 1958: B,F,K,S; [IWCP; Papua to Sumatra]; (USNM).
- G. pleurotaenia* Bleeker, 1858: A,B,F,W; [WCP; Papua to Sumatra]; (USNM, WAM).
- G. viridescens* Dawson, 1968: B,F; [IWCP; Flores to Bali].

Ptereleotridae - Dartfishes (21 spp.)

Key references: Klausewitz and Conde, 1981; Kuitert and Tonzuka, 2001; Randall and Allen, 1973; Randall and Hoese, 1985; Rennis and Hoese, 1985, 1987;

- Aioliops megastigma* Rennis and Hoese, 1987: A,K,T; [IAA; Papua to Java and Togeian Islands]; (USNM, WAM).
- A. novaeguineae* Rennis and Hoese, 1987: A,P; [New Guinea; Papua]; (USNM). New Guinea

- Nemateleotris decora* Randall and Allen, 1973: B,F,K,M,T,W; [IWCP; Papua to Sumatra].
- N. magnifica* Fowler, 1928: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Oxymetopon compressus* Chan, 1966: F; [WP; Flores]; (BPBM).
- O. cyanoctenosum* Klausewitz and Conde, 1981: F; [IAA; Flores]; (BPBM).
- O. typus* Bleeker, 1861: F; [ENDEMIC; Timor to Java].
- Parioglossus aporos* Rennis and Hoese, 1985: [ENDEMIC; Buton]; (USNM).
- P. formosus* (Smith, 1931): A,F,K,T; [WP; Papua to Komodo and Sulawesi]; (USNM, WAM).
- P. palustris* (Herre, 1945): K; [WP; Komodo and Kalimantan]; (WAM).
- P. philippinus* (Herre, 1945): A; [IWP; Papua to Sumatra].
- P. raoi* (Herre, 1939): F,K; [EIWP; Papua to Komodo]; (USNM, WAM).
- Ptereleotris evides* (Jordan and Hubbs, 1925): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- P. grammica* Randall and Lubbock, 1982: B,F; [IWP; Halmahera to Bali]; (BMNH).
- P. hanae* (Jordan and Snyder, 1901): A,B,F,M,R; [WCP; Papua to Kalimantan]; (BPBM).
- P. heteroptera* (Bleeker, 1855): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- P. microlepis* (Bleeker, 1856): A,B,F,K,P,R,S,W; [IWCP; Papua to Sumatra]; (USNM).
- P. monoptera* Randall and Hoese, 1985: B,F,M,T,W; [IWCP; Papua to Sumatra]; (WAM).
- P. sp. 1* Kuitert and Tonzuka, 2001: A,B,M; [Papua to Bali and N. Sulawesi].
- P. uroditaenia* Randall and Hoese, 1985: B,F; [IAA; Flores to Bali].
- P. zebra* (Fowler, 1938): F,M; [IWCP; Papua to Sumatra]; (USNM).

Xenisthmidae - Wrigglers (2 spp.)

Key references: Myers, 1999; Springer, 1983.

- Tyson belos* Springer, 1983: F; [IAA; Flores].
- Xenisthmus polyzonatus* (Klunzinger, 1877): A,K; [IWCP; Komodo]; (USNM, WAM).

Ehippidae - Spadefishes (6 spp.)

Key references: Heemstra, 2001; Kishimoto et al., 1988; Kuitert and Debelius, 2001; Myers, 1999.

- Platax batavianus* Cuvier, 1831: B,P; [IAA; Papua to Java Sea].
- P. boersi* Bleeker, 1852: A,B,F,K,P,R,T,W; [IWP; Papua to Sumatra].

P. orbicularis (Forsskål, 1775): A,F,M,P,R,S, T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

P. pinnatus (Linnaeus, 1758): A,B,F,M,P,R,T,W; [EIWP; Papua to Sumatra]; (USNM).

P. teira (Forsskål, 1775): B,F,K,M,P,R,S,T; [IWP; Papua to Sumatra]; (BPBM, USNM).

Zabidius novemaculeatus (McCulloch, 1916): [IAA; Papua to Moluccas]; (BPBM, WAM).

Scatophagidae - Scats (1 sp.)

Key references: Kottelat, 2001; Kuitert and Debelius, 2001; Myers, 1999.

Scatophagus argus (Bloch, 1788): A,F,R; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).

Siganidae - Spinefeet (18 spp.)

Key references: Kuitert and Debelius, 2001; Woodland, 1990, 2001.

Siganus argenteus (Quoy and Gaimard, 1825): A,B,F,K,M,R,T,W; [IWCP; Papua to Sumatra].

S. canaliculatus (Park, 1797): A,B,F,K,S,T; [EIWP; Papua to Sumatra]; (BPBM, WAM).

S. corallinus (Valenciennes, 1835): W; [IO; Java and W. Sumatra]; (USNM).

S. doliatus Cuvier, 1830: [WP; Papua and Moluccas]; (BPBM, USNM).

S. guttatus (Bloch, 1787): A,B,F,K,M,P,R,S,T,W; [WP; Papua to Sumatra]; (BPBM, USNM).

S. javus (Linnaeus, 1766): A,B,F,P,R; [NIIAA; Papua to Sumatra]; (WAM).

S. labyrinthodes (Bleeker, 1853): **[ENDEMIC]**; Bali and Java].

S. lineatus (Valenciennes, 1835): A,T; [EIWP; Papua to NE Kalimantan].

S. magnificus (Burgess, 1977): [EIO; Java and W. Sumatra].

S. puellus (Schlegel, 1852): A,B,F,K,M,P,S; [WCP; Papua to Java Sea]; (USNM).

S. punctatus (Forster, 1801): A,B,F,K,M,P,S,T; [WCP; Irian Java to Sumatra].

S. punctitissimus Fowler and Bean, 1929: A,B,F,R,T; [IAA; Papua to Kalimantan].

S. spinus (Linnaeus, 1758): A,B,F,K,M,P,S,W; [EIWCP; Papua to Sumatra]; (BPBM, WAM).

S. stellatus (Forsskål, 1775): W; [IO; Java to N. Sumatra]; (USNM).

S. tetrazonus (Bleeker, 1855): A,B,F,K,M,P,S,T; [WP; Papua to Sumatra]; (USNM).

S. vermiculatus (Valenciennes, 1835): B,F,M; [EIWP; Papua to Sumatra]; (BPBM, USNM).

S. virgatus (Valenciennes, 1835): A,B,F,K,M,R, S,T; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).

S. vulpinus (Schlegel and Müller, 1845): A,B,F,K,M,P,S,T; [WCP; Papua to Sumatra]; (BPBM, USNM).

Zanclidae - Moorish Idol (1 sp.)

Key reference: Randall et al., 1997.

Zanclus cornutus (Linnaeus, 1758): A,B,F,K,M, S,T,W; [IP; Papua to Sumatra]; (USNM).

Acanthuridae - Surgeonfishes (49 spp.)

Key references: Kuitert and Debelius, 2001; Randall and Clements, 2001; Randall, in press.

Acanthurus auranticavus Randall, 1956: B,F,T; [IWP; Flores to Togeian Islands].

A. bariene Lesson, 1830: A,B,F,K,W; [EIWP; Papua to Sumatra].

A. blochii Valenciennes, 1835: A,F,K,M,S,T; [IWCP; Papua to Sumatra].

A. dussumieri Valenciennes, 1835: F,K; [IWCP; Papua to Sumatra].

A. fowleri de Beaufort, 1951: A,F,T; [IAA; Papua to Flores and Togeian Islands].

A. guttatus Forster, 1801: M,W; [IWCP; Papua to Sumatra].

A. japonicus (Schmidt, 1931): [WP; Sulawesi]. rec. by Randall

A. leucocheilus Herre, 1927: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].

A. leucosternon Bennett, 1833: B,W; [IO.; Bali to W. Sumatra].

A. lineatus (Linnaeus, 1758): A,B,F,K,M,R, S,T,W; [IWCP; Papua to Sumatra]; (USNM).

A. maculiceps (Ahl, 1923): A,B,K,T,W; [EIWCP; Papua to Sumatra]; (USNM).

A. mata Cuvier, 1829: A,B,F,K,M,T,W; [IWCP; Papua to Sumatra].

A. nigricans (Linnaeus, 1758): A,B,F,K,M,S,T; [IWCP; Papua to Kalimantan].

A. nigricaudus Duncker and Mohr, 1929: A,B,F, S,T,W; [IWCP; Papua to Sumatra].

A. nigrofuscus (Forsskål, 1775): F,K,M,S,T,W; [IWCP; Papua to Sumatra].

A. nigroris Valenciennes, 1835; [IWCP; Talaud Islands].

A. nubilus (Fowler and Bean, 1929): F; [WCP; Papua to Flores]; (USNM).

A. olivaceous Forster, 1801: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (BPBM, USNM).

A. pyroferus Kittlitz, 1834: A,B,F,K,M,S,T; [WCP; Papua to Kalimantan].

A. tennentii Günther, 1861: B,W; [IO.; Bali and W. Sumatra].

A. thompsoni (Fowler, 1923): A,B,F,K,M,S,T,W;

- [IWCP; Papua to Sumatra]; (USNM).
- A. triostegus* (Linnaeus, 1758): A,B,F,K,P,T,W; [IP; Papua to Sumatra] (WAM).
- A. tristis* Randall, 1993: W; [EIO; Bali to W. Sumatra].
- A. xanthopterus* Valenciennes, 1835: A,B,F,K,P,S,T,W; [IP; Papua to Sumatra]; (USNM).
- Ctenochaetus binotatus* Randall, 1955: A,B,F,K,M,W; [IWCP; Papua to Sumatra].
- C. cyanocheilus* Randall and Clements, 2001: F; [WCP; Papua to Flores].
- C. striatus* (Quoy and Gaimard, 1825): A,B,F,K,M,S,W; [IWCP; Papua to Sumatra]; (USNM).
- C. tominiensis* Randall, 1955: B,F,M; [WP; Papua to Bali and Sulawesi]; (USNM).
- C. truncatus* Randall and Clements, 2001: W; [IO; N. Sumatra]; (BPBM, USNM).
- Naso annulatus* (Quoy and Gaimard, 1825): A,B,K; [IP; Papua to Sumatra]; (USNM).
- N. brachycentron* (Valenciennes, 1835): A,B,M,S,W; [IWCP; Papua to Sumatra].
- N. brevirostris* (Valenciennes, 1835): A,B,F,K,M,P,S,T,W; [IP; Papua to Sumatra].
- N. caeruleocauda* Randall, 1994: A,B,F,T,W; [IAA; Papua to Sumatra].
- N. elegans* (Rüppell, 1829): B,W; [IO; Bali and W. Sumatra].
- N. hexacanthus* (Bleeker, 1855): A,B,F,K,M,S,T,W; [IP; Papua to Sumatra]; (BPBM, USNM).
- N. lituratus* (Forster, 1801): A,B,F,K,M,T; [WCP; Papua to Bali and Sulawesi]; (USNM).
- N. lopezi* Herre, 1927: A,B,F,K,M,S,T; [WP; Papua to Kalimantan]; (BPBM).
- N. mcdadei* Johnson, 2002: [IWP; Papua to Sumatra].
- N. minor* (Smith, 1966): A,B,F,T; [WP; Flores and Togeian Islands]; (BPBM).
- N. reticulatus* Randall, 2001: [WP; S. Sumatra]; (USNM).
- N. tonganus* (Valenciennes, 1835) : F,T; [IWCP; Flores to Togeian Islands].
- N. thynnoides* (Valenciennes, 1835): A,B,F,K,M,S,T,W; [IWP; Papua to Sumatra]; (BPBM, USNM).
- N. unicornis* (Forsskål, 1775): A,B,F,K,M,S,T; [IWCP; Papua to Sumatra].
- N. vlamingii* (Valenciennes, 1835): A,B,F,K,S,T,W; [IP; Papua to Sumatra]; (USNM).
- Paracanthurus hepatus* (Linnaeus, 1766): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
- Prionurus chrysurus* Randall, 2001: B; [ENDEMIC; Komodo and Bali]; (BPBM, USNM).

- Zebrasoma desjardini* (Bennett, 1835): W; [IO; Java and W. Sumatra].
- Z. scopas* (Cuvier, 1829): A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Z. veliferum* (Bloch, 1797): A,B,F,K,M,S,T; [WCP; Papua to Kalimantan]; (USNM).

Sphyraenidae - Barracudas (8 spp.)

Key references: Myers, 1999; Senou, 2001.

- Sphyraena barracuda* (Walbaum, 1792): A,B,F,M,P,T,W; [IWCPA; Papua to Sumatra]; (BPBM).
- S. flavicauda* Rüppell, 1838: A,F,K,M,R,T; [IWP; Papua to Sumatra]; (WAM).
- S. forsteri* Cuvier, 1829: F; [IWCP; Papua to Sumatra]; (BPBM).
- S. helleri* Jenkins, 1901: [IWCP; Papua to Sumatra].
- S. jello* Cuvier, 1829: A,T,W; [IWP; Papua to Sumatra].
- S. obtusata* Cuvier, 1829: B,F; [IWP; Papua to Sumatra]; (BPBM).
- S. putnamae* Jordan and Seale, 1905: [IWP; Papua to Sumatra]; (BPBM).
- S. qenie* Klunzinger, 1870: A,F,R; [IP; Papua to Sumatra].

Scombridae - Tunas (4 spp.)

Key reference: Collette and Nauen, 1983; Collette, 2001.

- Grammatorcynus bilineatus* (Rüppell, 1836): A,B,F,K,M,T,W; [IWCP; Papua to Sumatra]; (USNM).
- Gymnosarda unicolor* (Rüppell, 1838): A,F,K,T; [IWCP; Papua to Sumatra].
- Rastrelliger kanagurta* (Cuvier, 1817): A,F,K,M,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
- Scomberomorus commerson* (Lacepède, 1800): A,F,R,T; [IWP; Papua to Sumatra]; (BPBM, USNM).

Bothidae - Lefteye Flounders (2 spp.)

Key reference: Randall et al., 1997.

- Bothus mancus* (Broussonet, 1782): A,B,F,K,M,P; [IP; Papua to Sumatra]; (WAM).
- B. pantherinus* (Rüppell, 1830): A,B,F,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM, WAM).

Samaridae - Righteye Flounders (1 sp.)

Key reference: Hensley, 2001 (as Pleuronectidae).

- Samariscus triocellatus* Woods, 1966: F,K; [IWCP; Papua to Sumatra]; (USNM, WAM).

Soleidae - Soles (4 spp.)

Key reference: Munroe, 2001.

- Aseraggodes melanostictus* (Peters, 1876): B,K,M; [WCP; Papua to Komodo]; (USNM, WAM).
Pardachirus pavoninus (Lacepède, 1802): F,P,R; [EIWCP; Papua to Sumatra]; (BPBM, WAM).
Soleichthys heterorhinos (Bleeker, 1856): A,B,M; [IWCP; Papua to Sumatra]; (USNM).
Synaptura marginata Boulenger, 1900: M; [IWP; Papua to Sumatra]; (USNM).

Balistidae - Triggerfishes (19 spp.)

Key references: Matsuura, 2001; Myers, 1999; Randall and Zama, 1978.

- Abalistes stellatus* (Bloch and Schneider, 1801): B,F,P; [IWP; Papua to Sumatra]; (BPBM).
Balistapus undulatus (Park, 1797): A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
Balistoides conspicillum (Bloch and Schneider, 1801): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
B. viridescens (Bloch and Schneider, 1801): A,B,F,K,M,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
Canthidermis maculatus (Bleeker, 1865): A,F,W; [Circumtropical; Papua to Sumatra]; (BPBM).
Melichthys indicus Randall and Klauswitz, 1973: W; [IO; Java and W. Sumatra]; (BPBM).
M. niger (Bloch, 1786): K,M,T,W; [Circumtropical; Komodo and Sulawesi to Sumatra].
M. vidua (Solander, 1844): A,B,,F,K,S,T; [IWCP; Papua to Sumatra]; (USNM, WAM).
Odonus niger (Rüppell, 1837) A,B,F,K,M,S,T W (IWCP; Papua to Sumatra) (USNM, WAM)
Pseudobalistes flavimarginatus (Rüppell, 1829): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
P. fuscus (Bloch and Schneider, 1801): A,B,K,M,T,W; [IWCP; Papua to Sumatra].
Rhinecanthus aculeatus (Linnaeus, 1758): A,K,S,W; [IWCP; Papua to Sumatra]; (USNM).
R. rectangulus (Bloch and Schneider, 1801): A,K,W; [IWCP; Papua to Sumatra].
R. verrucosus (Linnaeus, 1758): A,B,F,K,M,P,S,T,W; [IWP; Papua to Sumatra]; (USNM).
Sufflamen bursa (Bloch and Schneider, 1801): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
S. chrysopterus (Bloch and Schneider, 1801):

- A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
S. fraenatus (Latreille, 1804): A,B,F,K,W; [IWCP; Papua to Sumatra] (WAM).
Xanthichthys auromarginatus (Bennett, 1831): B,F,K,M,W; [IWCP; Papua to Sumatra].
X. caeruleolineatus Randall, Matsuura, and Zama, 1978: W; [IWCP; Papua to Sumatra]; (BPBM).

Monacanthidae - Leatherjackets (25 spp.)

Key references: de Beaufort and Briggs, 1962; Hutchins, 1986, 1997, 2001.

- Acreichthys radiatus* (Popta, 1900): B,S; [WP; Papua to Kalimantan].
A. tomentosus (Linnaeus, 1758): A,B,F,K,P,R,T; [IWP; Papua to Sumatra]; (BPBM, USNM, WAM).
Aluterus monoceros (Linnaeus, 1758): F,M; [Circumtropical; Papua to Sumatra]; (WAM).
A. scriptus (Osbeck, 1765): A,B,F,M,P,S,T; [Circumtropical, Papua to Sumatra]; (USNM).
Amanses scopas Cuvier, 1829: A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
Anacanthus barbatus Gray, 1830: B; [NIIAA; Papua to Sumatra].
Brachaluteres taylori Woods, 1966: B,M; [WCP; Bali to N. Sulawesi].
Cantherhines dumerilii (Hollard, 1854): A,K,M,S,W; [IP; Papua to Sumatra]; (USNM).
C. fronticinctus (Günther, 1867): A,B,K,M,T; [IWCP; Papua to Sumatra]; (WAM).
C. pardalis (Rüppell, 1837): A,F,K,M,P,S,W; [IWCP; Papua to Sumatra].
Chaetodermis penicilligera (Cuvier, 1816): B; [WP; Papua to Sumatra].
Monacanthus chinensis (Osbeck, 1765): B; [WP; Papua to Sumatra].
Oxymonacanthus longirostris (Bloch and Schneider, 1801): A,B,F,K,M,S,T,W; [IWCP; Papua to Sumatra].
Paraluteres prionurus (Bleeker, 1851): A,B,F,K,T,W; [IWCP; Papua to Sumatra]; (WAM).
Paramonacanthus choircephalus Bleeker, 1852: P; [IAA; Papua to Java].
P. japonicus (Tilesius, 1801): A,B,F,M; [EIWCP; Moluccas to Sumatra]; (WAM).
P. pusillus (Rüppell, 1828): F; [IWP; Flores to Sumatra].
P. sulcatus (Hollard, 1854): F,P; [WP; Moluccas to Sumatra].
P. tricuspis (Hollard, 1854): B; [IO; Bali to Sumatra].
Pervagor janthinosoma (Bleeker, 1854):

- A,B,F,K,M,S; [IWCP; Papua to Sumatra].
P. melanocephalus (Bleeker, 1853): A,B,F,S; [WCP; Papua to Sumatra]; (BPBM, USNM).
P. nigrolineatus (Herre, 1927): A,B,F,K,M,T; [IAA; Papua to Sumatra]; (BPBM, USNM).
Pseudalutarius nasicornis (Temminck and Schlegel, 1950): B,F,K,M; [IWP; Papua to Sumatra]; (BPBM, WAM).
Pseudomonacanthus macrurus (Bleeker, 1856): A,B,F,M,P,R; [IAA; Papua to Sumatra]; (BPBM, WAM).
Rudarius minutus Tyler, 1970: F; [IAA; Kalimantan].

Ostraciidae - Boxfishes (9 spp.)

- Key references: Matsuura, 2001; Myers, 1999; Randall et al., 1997.
Lactoria cornuta (Linnaeus, 1758): B,F; [IWCP; Papua to Sumatra]; (BPBM).
L. diaphana (Bloch and Schneider, 1801): B,F; [IP; Papua to Sumatra].
L. fornasini (Bianconi, 1846): B,F,K,T,W; [IWCP; Papua to Sumatra].
Ostracion cubicus Linnaeus, 1758: A,B,F,K,M,P,R,S,T,W; [IWCP; Papua to Sumatra]; (USNM).
O. meleagris Shaw, 1796: A,B,F,K,M,S,T,W; [IP; Papua to Sumatra]; (USNM).
O. nasus Bloch, 1785: R; [NIWP; Papua to Sumatra].
O. rhinorhynchus Bleeker, 1852: R; [IWP; Moluccas to Sumatra].
O. solorensis Bleeker, 1853: A,B,F,K,M,S,T,W; [WP; Papua to Sumatra]; (BPBM).
Tetrasomus gibbosus (Linnaeus, 1758): B; [IWP; Papua to Sumatra].

Tetraodontidae - Puffers (23 spp.)

- Key references: Allen and Randall, 1977; Matsuura, 2001; Myers, 1999.
Arothron caeruleopunctatus Matsuura, 1994: A,B,F,K,T,W; [IWCP; Papua to Sumatra].
A. hispidus (Linnaeus, 1758): A,B,F,K,M,T; [IP; Papua to Sumatra]; (WAM).
A. immaculatus (Bloch and Schneider, 1801): B,F,R,W; [IWP; Flores to Sumatra]; (USNM).
A. manillensis (de Proce, 1822): A,B,F,K,T; [IWCP; Papua to Kalimantan]; (BPBM, USNM, WAM).
A. mappa (Lesson, 1830): A,B,F,K,P,R; [IWCP; Papua to Sumatra]; (BPBM, WAM).
A. meleagris (Lacepède, 1798): B,F; [IP; Papua to Sumatra].
A. nigropunctatus (Bloch and Schneider, 1801):

- A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
A. reticularis (Bloch and Schneider, 1801): F,R; [EIWP; Papua to Sumatra]; (BPBM, USNM, WAM).
A. stellatus (Bloch and Schneider, 1801): A,B,F,K,R,S,T,W; [IWCP; Papua to Sumatra]; (BPBM, USNM).
Canthigaster amboinensis (Bleeker, 1865): B,F,K,W; [IP; Papua to Sumatra].
C. bennetti (Bleeker, 1854): A,B,F,K,M,P,S,T; [IWCP; Papua to Sumatra]; (BPBM, USNM).
C. compressa (de Proce, 1822): A,B,F,K,M,T; [WP; Papua to Bali and Sulawesi]; (BPBM, WAM).
C. coronata (Vaillant, 1875): B,F,K,T,W; [IWCP; Papua to Sumatra].
C. epilampra (Jenkins, 1903): B,F,M; [WCP; Flores to Bali and Sulawesi].
C. janthinoptera (Bleeker, 1855): A,B,F,M,W; [IWCP; Papua to Sumatra]; (USNM).
C. leoparda Lubbock and Allen, 1979: B; [WP; Moluccas to Bali]; (WAM).
C. ocellicincta Allen and Randall, 1977: F,T; [WP; Papua to Kalimantan]; (BPBM).
C. papua (Bleeker, 1848): A,B, F,K,M,T,W; [IAA; Papua to Sumatra]; (USNM).
C. rivulata (Schlegel, 1850): B; [IWCP; Bali].
C. smithae Allen and Randall, 1977: W; [IO; N. Sumatra].
C. solandri (Richardson, 1844): W; [IWCP; N. Sumatra]; (WAM).
C. tyleri Allen and Randall, 1977: [IO-IAA; Moluccas]; (WAM).
C. valentini (Bleeker, 1853): A,B,F,K,M,P,S,T,W; [IWCP; Papua to Sumatra]; (USNM, WAM).

Diodontidae - Porcupinefishes (6 spp.)

- Key references: Leis, 1978, 2001; Randall, et al., 1997.
Chilomycterus reticulatus (Linnaeus, 1775): B; [Circumtropical; Papua to Sumatra].
Cyclichthys orbicularis (Bloch, 1785): B,F,M; [IWP; Papua to Sumatra]; (USNM).
C. spilostylus Leis and Randall, 1982: B; [IP; Papua to Sumatra].
Diodon holocanthus Linnaeus, 1758: F; [Circumtropical; Papua to Sumatra]; (BPBM).
D. hystrix Linnaeus, 1758: A,B,F,K,M,R,T,W; [Circumtropical; Papua to Sumatra]; (USNM).
D. liturosus Shaw, 1804: A,B,F,M,R,T,W; [IWCP; Papua to Sumatra]; (USNM).

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