A Preliminary Account of Marine Fish Diversity and Exploitation at Kamiali Wildlife Management Area, Papua New Guinea

Prepared by

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Honolulu, Hawaii
October 2008

COVER

A view across Nassau Bay toward the village of Kamiali, Papua New Guinea. Homemade outrigger canoes such as the one in the foreground are the primary platform for subsistence fishing. Photograph by Holly Bolick.

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Final Report

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EXECUTIVE SUMMARY

Bishop Museum is leading an effort in partnership with the landowners of Kamiali Village in Morobe Province in Papua New Guinea (The Kamiali Initiative) to promote environmental conservation in this megadiverse country by establishing clear and direct economic benefits to villagers electing to protect their land and water. This self-sustaining model will use bench and lodging fees paid by researchers to create a trust to fund the village's modest economic development needs.

To promote research and conservation at Kamiali Wildlife Management Area, we performed a preliminary assessment of marine fish diversity and fishing effort. This information will inform researchers of biological resources in the area, document usage patterns necessary for management decisions, and establish important baseline information for future studies.

Kamiali Wildlife Management area encompasses 15,000 hectares of marine habitat adjacent to 32,000 hectares of tropical rain forest. The marine portion features extensive fringing reefs, plus numerous patch reefs and pinnacles. The majority of the area occurs over depths beyond the limits of conventional SCUBA but, based on fisher behavior and fish catch, probably features reef outcroppings on sandy sediments.

We performed in-water surveys to document fish diversity, and augmented this list with a literature review. Fish diversity is high and easily accessed. We encountered at least 212 species in just four SCUBA dives and a dozen snorkeling excursions. A literature review suggests at least 1184 coastal marine fish species representing 122 families from 21 orders are present at Kamiali.

Observations of fishing practices showed that a variety of techniques are used for subsistence fishing. These include bottomfishing with handlines in deeper bay waters, trolling in open bay waters, spearing from foot or canoe, and fish poisoning with *Derris* root. Targeted species appear to be lutjanids, serranids, carangids, and scombrids, although a much wider range of species are taken and consumed. Fishing pressure appears to be low. Most subsistence fishing is done from canoes on the deeper portions of bays. An average of only two percent of seaworthy canoes actively fish at any one time, and effort changes over the course of a day and week, such that fishers can take breaks at lunch and on Sundays. Fishing over reef flats is done primarily on foot, and follows a tidal cycle, with most activity occurring during extreme low tides. The apparent abundance of fishes at Kamiali, as suggested by the low effort required to obtain an adequate subsistence catch, is probably maintained by the low-technology, human-powered fishing methods employed in the area.

INTRODUCTION

Bishop Museum is leading the Kamiali Initiative, a project to develop a self-sustaining cycle of environmental conservation, economic development, and scientific research in the coastal community of Kamiali, Papua New Guinea. In 1996, the village established the Kamiali Wildlife Management Area, encompassing 32,000 ha of terrestrial habitat and 15,000 ha of the adjacent marine environment. In doing so Kamiali resisted the short-term financial lure of logging operations, which have had tragic environmental and social impacts elsewhere along the Huon Coast, and instead opted to preserve a traditional village lifestyle.

Subsistence fishing and farming is the basis of the Kamiali economy and the focus of village life. However, residents need cash for basics such as medicine and education; each Kamiali resident gets malaria an average of just over two times per year (National Fisheries Authority, 2007), and no family could afford to send its qualified child to high school last year. The village has attempted to meet its modest economic needs by developing an ecotourism lodge; however the ecotourism trade was hindered by ineffective marketing, lack of telephone and electronic mail for logistical planning, and a two-hour ride in an open skiff being the sole means of transportation to the village.

The isolation that hinders tourism is very attractive for biological research. In 2006, Bishop Museum and Kamiali leaders signed a memorandum of understanding outlining the development of a world-class remote research station. Plans include a coastal facility, a second facility at 500m, outposts at 1000 and 1500m, and a series of walking tracks among the sites. Visiting researchers will pay bench fees for laboratory use and room/board fees at the existing lodge. These fees will cover operating costs and fund a trust to pay for education and community development. The Kamiali Initiative thus establishes a link between economic benefit and environmental conservation, and provides a strong incentive for villagers to protect their land and water for perpetuity (Figure 1).

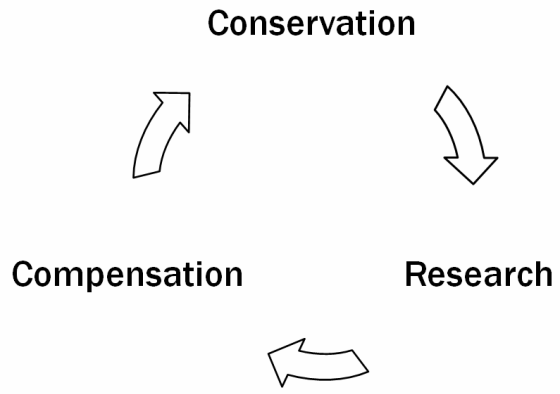

Figure 1. Conceptual illustration of Bishop Museum's conservation initiative at Kamiali, Papua New Guinea.

In early 2008, Bishop Museum began preliminary surveys of marine biodiversity and fishing practices at Kamiali. These surveys serve three important purposes. First, they will provide the information needed to guide local use of marine resources to ensure that they are being used sustainably. Second, they will help create a marine management plan. A ratified plan is required for uncontested recognition of the wildlife management area by the Papua New Guinea national government. Bishop Museum is working with Kamiali residents to combine culturally based management practices, which have successfully maintained resources for generations, with modern

conservation science to develop simple but powerful new approaches to sustainable natural resource use. To help attract research to the area, the management plan will likely feature (a) no-take area(s) reserved solely for scientific study. The cumulative no-take area must balance the conflicting needs of being large enough for meaningful research yet small enough that it does not impinge on the subsistence fishing needs of Kamiali residents. Third, the surveys provide crucial baseline data for future marine research. These data will provide an overview of the Kamiali Wildlife Management Area and help scientists plan research activities in the area. They will also serve as the basis for evaluation of the marine management plan and for studies of long-term environmental change.

Toward the above ends, this report provides: 1) a description of the marine environment in the Kamiali Wildlife Management Area, 2) a preliminary checklist of marine fishes at Kamiali, and 3) an outline of fishing practices employed at Kamiali, and 4) an estimate of fishing pressure.

METHODS

Study Area

Kamiali is one of six Kala-speaking villages in Papua New Guinea and is located on the Huon Coast, approximately 64 km SSE of the port city, Lae. Its approximately 600 residents control the distribution and use of land, adjacent marine areas, and the resources from both. Subsistence fishing provides the main source of dietary protein to Kamiali residents, whereas a small commercial fishing operation provides some cash income. The northern boundary of the Kamiali Wildlife Management Area is the mouth of the Bitoi River, wheras the Sela River is the southern limit. A third major river, the Alealer also drains into the management area. Nassau and Saschen Bays are wholly contained within the management area, as are Lababia and Jawani Islands and Capes Dinga and Roon. The northern part of Hessen Bay is also contained within the management area. Large portions of Nassau and Saschen Bay have not undergone hydrographic survey (Figure 2), however the surveyed area is known to contain extensive fringing reefs around the capes and islands, as well as numerous patch reefs and pinnacles.

Fish Resources

Underwater photography was used to document the more common and easily observed species occurring in depths that can be reached using conventional SCUBA. Photographs of freshly caught individuals documented some species occurring in deeper water. A tally of species observed but not photographed completed the list of fishes *known* to occur at Kamiali (assuming correct visual identifications). Tables 1 and 2 list the sites and transects surveyed. Site 16 was unintentionally surveyed twice. Transects C, D, and E front the location of the existing guesthouse and future marine laboratory and were surveyed repeatedly.

The fish checklist was expanded to include species *likely* to occur at Kamiali by reviewing literature. Although Papua New Guinea is home to approximately 2000 coastal marine fishes (Allen & Swainston, 1993), the Huon Coast lacks many species known to occur throughout most of New Guinea (see Figure 3). The checklist presented here includes fishes encountered in

surveys of the nearby areas of Kimbe Bay (Allen & Munday, 1995) and Madang (Allen & Swainston, 1993), plus those indicated as present along the Huon Coast in Carpenter & Niem (1998, 1999a, 1999b, 2001a, 2001b). Nomenclature used here follows Froese & Pauly (2008).

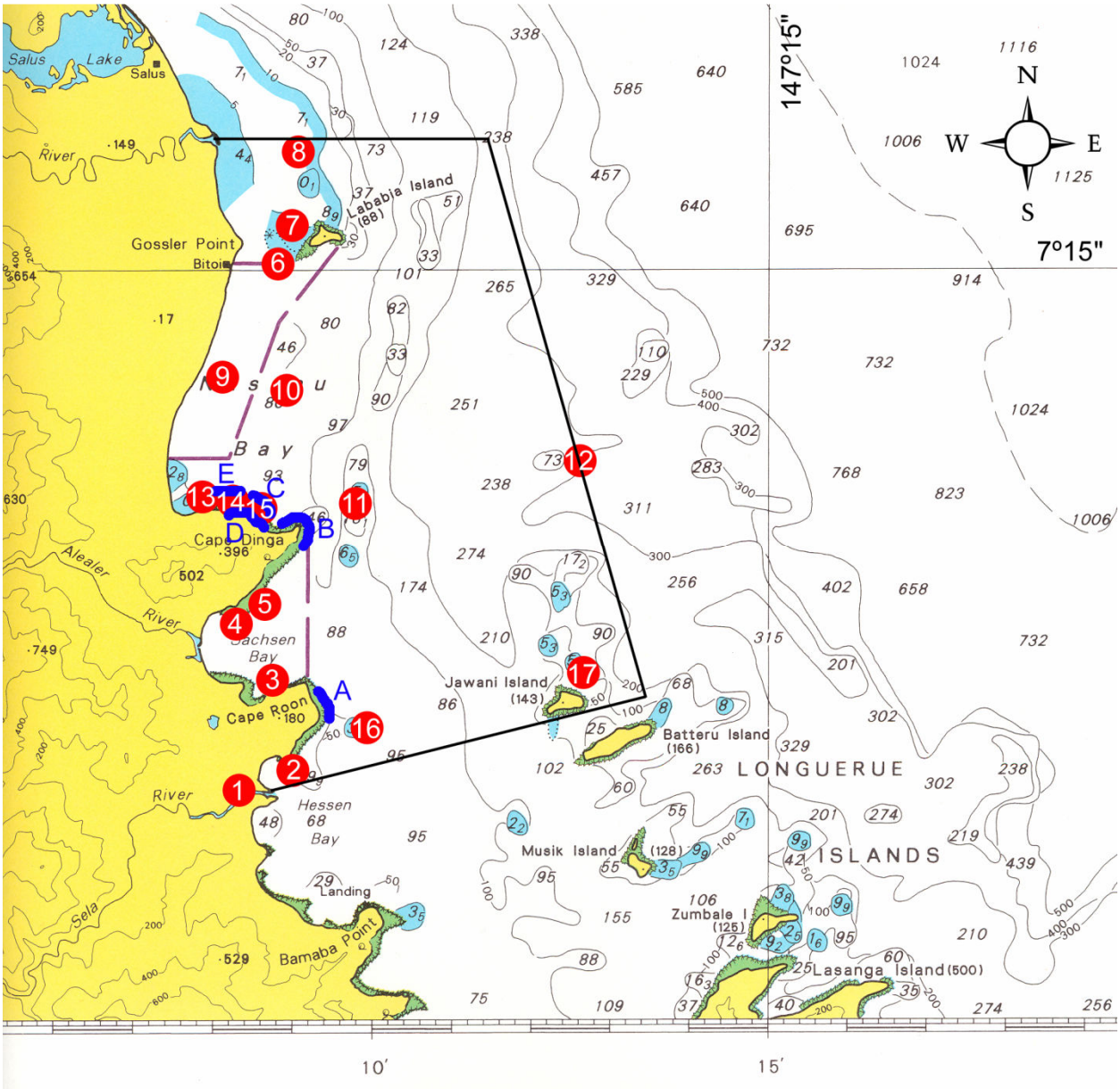

Figure 2. The marine portion of Kamial Wildlife Management Area (circumscribed in black). Red dots indicate locations of survey sites, blue curves indicate locations and approximate lengths of transects (coordinates are given in Tables 1 & 2). Adapted from chart Aus 523, published by the Australian Hydrographic Service. Depths are in meters.

Fishing Practices

Local fishing practices were described through a combination of interview and observation during a two-week period from late June through early July, 2008. Information summarized below includes species targeted and caught, gear employed, and methods used.

Fishing Pressure

Fishing activity on Nassau Bay was recorded every 15 minutes during daylight hours (0600 – 1800) from 21 June 2008 through 3 July 2008. Data were grouped into (1) number of canoes with active fishers and (2) number of fishers active on reef flats.

Table 1. List of marine survey sites at Kamiali Wildlife Management Area. Datum is WGS84.

ID	Latitute	Longitude	Place Name	Habitat
1	7°21'36.94"S	147° 08'24.65"E	Sela River	Salt Wedge
2	7°21'15.98"S	147° 08'56.88"E	Hessen Bay	Fringing Reef
3	7°20'16.41"S	147° 08'47.54"E	Saschen Bay	Fringing Reef
4	7°19'27.43"S	147° 08'20.03"E	Saschen Bay	Fringing Reef
5	7°19'16.45"S	147° 08'32.47"E	Saschen Bay	Fringing Reef
6	7°14'56.14"S	147° 08'54.09"E	Gossler Point	Patch Reef
7	7°14'41.14"S	147° 08'54.67"E	Gossler Point	Patch Reef
8	7°13'14.74"S	147° 09'18.56"E	Bitoi River	Patch Reef
9	7°16'35.33"S	147° 07'55.53"E	Nassau Bay	Sand Bottom
10	7°16'55.68"S	147° 08'43.44"E	Nassau Bay	Bottom Unknown
11	7°17'48.64"S	147° 09'51.87"E	Cape Dinga	Patch Reef
12	7°17'21.42"S	147°12'30.06"E	Huon Gulf	Pinnacle
13	7°17'58.23"S	147° 07'50.52"E	Nassau Bay	Sand Flat/Seagrass Bed
14	7°18'00.44"S	147° 07'56.88"E	Nassau Bay	Seagrass Bed
15	7°17'59.21"S	147° 08'14.40"E	Nassau Bay	Mangrove Stand
16	7°20'37.03"S	147° 09'54.02"E	Cape Roon	Patch Reef
17	7°20'06.25"S	147°12'28.56"E	Jawani Island	Pinnacle

Table 2. List of marine transects at Kamiali Wildlife Mangement Area. FR = Fringing Reef, IT = Intertidal, DO = Dropoff of Fringing Reef. Datum is WGS84.

ID	Start Latitude	Start Longitude	Stop Latitude	Stop Longitude	Place Name	Habitat
A	7°20'39.60"S	147° 09'34.60"E	7°20'23.63"S	147° 09'20.87"E	Cape Roon	FR
B	7°18'27.11"S	147° 09'08.72"E	7°18'17.02"S	147° 08'50.71"E	Cape Dinga	FR
C	7°17'57.81"S	147° 08'33.51"E	7°17'59.91"S	147° 08'04.49"E	Nassau Bay	FR
D	7°18'02.14"S	147° 08'05.73"E	7°18'20.07"S	147° 08'46.84"E	Cape Dinga	IT
E	7°17'55.63"S	147° 07'50.11"E	7°17'55.25"S	147° 07'57.22"E	Nassau Bay	DO

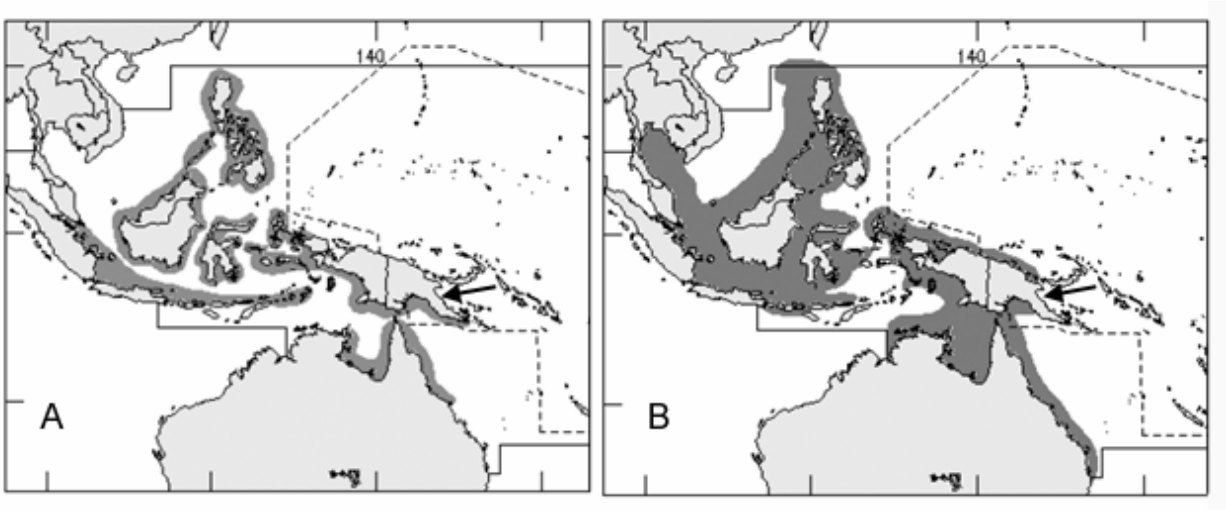

Figure 3. The Huon Coast (arrows) often lacks fishes known throughout much of the region. Distributions of (A) a sardine and (B) a catfish. From Carpenter & Niem, 1999a.

RESULTS

Marine Environment

The terrestrial portion of the Kamiali Wildlife Management Area is remarkably undeveloped and characterized by lush vegetation. Kamiali Village is concentrated along the northern portion, where the shoreline is exclusively sandy beach (Figure 4).

Figure 4. The marine portion of Kamial Wildlife Management Area is adjacent to 32,000 hectares of protected rain forest (left). Kamiali village is home to approximately 600 people and is located along the sandy shoreline of Nassau Bay (right).

The southern shoreline is dominated by fringing reefs on Capes Dinga and Roon. Fringing reefs also surround the islands of Lababia and Jawani. These reefs may abut rocky shoreline or sandy coves. The intertidal zone may be dominated by mangroves, mud flats, or seagrass beds (Figure 5). Seaward, the reef flats typically feature carbonate bench or coral beds with occasional

patches of sand or rubble (Figure 6). The reef crest is features a high abundance and diversity of corals, although occasional beds of rubble composed of coral fragments also occur (Figure 7). The reef face is steep, typically descends 20 to 30 meters, and features corals, consolidated carbonate substrate, and rubble (Figure 8).

Figure 5.Dominant features of tidal flats include mangroves (left), mudflats (right foreground) and seagrass beds (right background).

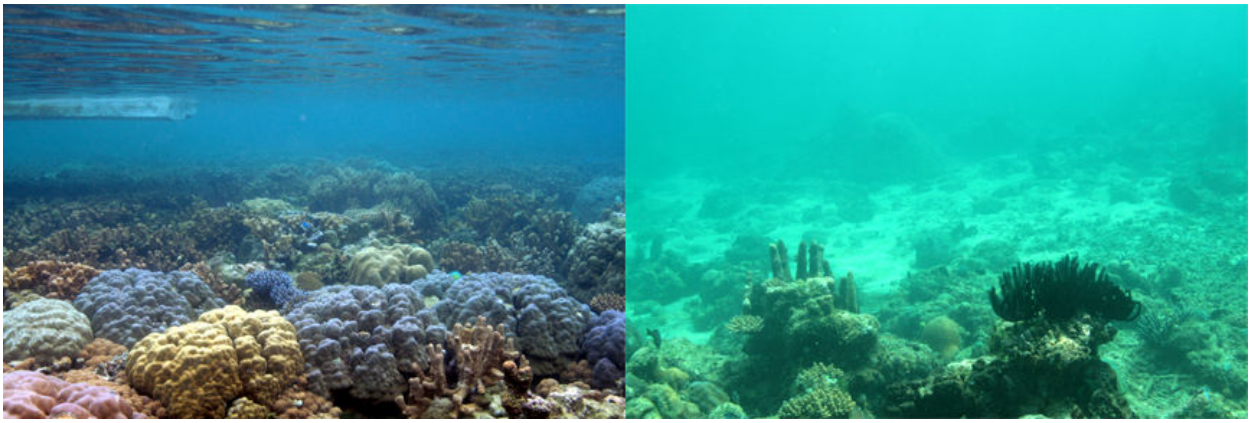

Figure 6. The seaward reef flat may feature dense coral beds (left) or a carbonate bench interspersed with sand and rubble (right).

At the base, fringing reefs give way to sandy sediment that presumably occupies the majority of the marine area. Some patch reefs and pinnacles are interspersed throughout this presumably sedimentary area, but the majority of the bottom beyond the fringing reefs is beyond the depth limits of conventional SCUBA. However, fishing behavior and known habitat association of targeted bottomfish species (described below) suggest reef outcrops occur throughout the deeper portions of the management area.

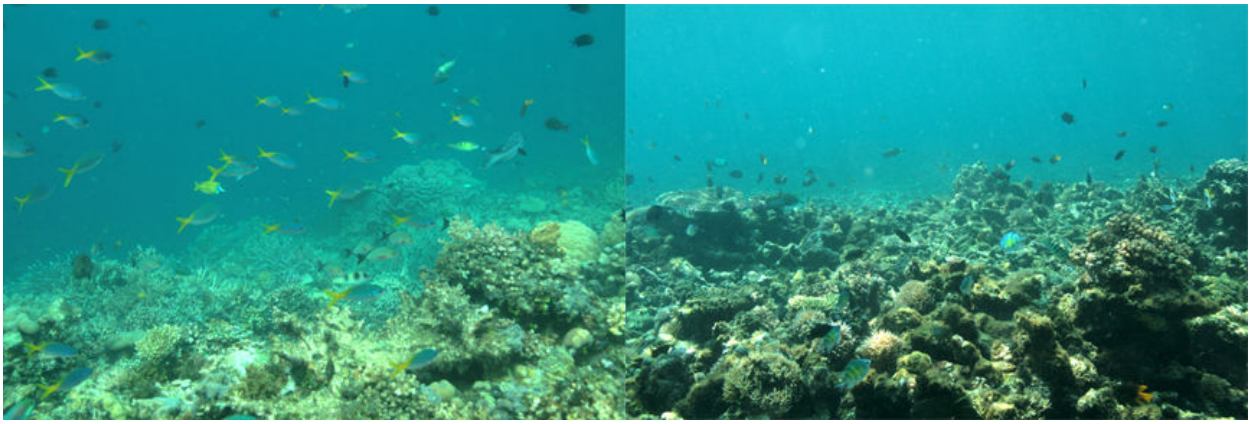

Figure 7. Reef crests are often sites of high fish abundance, and may feature abundant and diverse coral assemblages (left) or rubble beds (right).

Figure 8. The reef face is steep and descends 20 or 30 meters before abruptly giving way to sandy sediments. The reef face harbors high fish abundance and its substrate may be dense corals (left) or a mix of corals, rubble, and consolidated carbonate (right).

Fish Resources

A diverse coastal marine fish fauna is easily accessible at Kamiali Wildlife Management Area. Just four tanks-worth of SCUBA diving, and a few days of casual snorkeling yielded 155 species photographed and an additional 57 species observed. The latter number was limited more by the authors' unfamiliarity with the fish fauna of Papua New Guinea than by a lack of diversity. Fishes that were reasonably well photographed and able to be visually identified with reasonable certainty area illustrated in Plates 1-24. A literature review suggests that at least 1184 coastal marine fish species representing 122 families from 21 orders occur within the Kamiali Wildlife Management Area. These are listed in the appendix.

Fishing Practices

Fishing can be generally described as low-technology. Methods used depend on fishing location: in deeper water (off the fringing reefs), where most fishing occurrs, methods are canoe-based and performed by men; whereas in the shallower water of the fringing reefs methods are a combination of canoe- and foot-based and may be performed by men, women or children.

Vessels used in deep water are home-made outrigger canoes. Canoe making is a time- and labor-intensive community event (Figure 9). Hulls are fashioned from trees planted specifically for canoe production, and these trees are planted years in advance of an anticipated need for new canoes. Trees are felled en masse (about 100 canoes were being built during June and July 2008). Hewing is done by hand, then the hulls are left to season. Canoes are completed with the addition of outriggers and cargo platforms. Ten plant species, each with its own application, are used in the construction of every canoe. A canoe is expected to last up to five years.

Figure 9. Fishing is done primarily from hand-fashioned outrigger canoes. A massive canoe-building effort was underway during late June and early July 2008.

Canoe-based fishing primarily involves handlining or trolling. Handlining is the more common activity and consists of one (sometimes two) individuals paddling to a favored and semi-exclusive location and lowering a baited hook to the bottom. Hooks are tied to approximately 20-lb monofilament line would around commercially produced plastic or hand-made wooden spools. Because of the water depth in the open bay (see Figure 2), fishers do not anchor, presumably because currents and wind will move a canoe anchored with suitable scope off the intended fishing site. Rather, individuals fish the site until moved too far by wind or current, then paddle back to the site and repeat the process.

Handlining may be done for subsistence or commercial purposes. Subsistence fishing appears to occur primarily in the bays of the wildlife management area (*i.e.*, closer to shore and near residences). Fishes targeted by nearshore handlining are lutjanids (especially the red emporer,

Lutjanus sebae), serranids, and carangids (Figure 10); however the catch may include a broader range of families, most of which are associated with reef outcroppings in sedimentary habitats.

Figure 10. Fish targeted by handlining include snappers and groupers (left), and jacks (right). The purple portion of the hanging scale in the right photograph is 205 mm long.

Commercial handlining occurs farther offshore and, during June and July 2008, was based from a fish camp located on the seaward reach of Cape Dinga. Here, a dealer supplies ice in an insulated box where fishers keep their catch until fish are transported to market in the port city of Lae. Fuel costs for boat transportation to Lae are high, and decisions on when to go to market are based on a trade-off between how fast the ice melts (there is no electrical system at Kamiali) and how quickly the box is filled with fish. Commercial handliners paddle offshore, fish in depths of about 200 meters, and their catch is composed primarily of deep-water lutjanids such as *Pristipomoides* species and *Aprion virescens*.

Trolling is an energy-intensive and sporadic event typically triggered by the appearance of pods of dolphins or flocks of frigate birds, or both, which usually indicate the presence of tuna. A call is raised when birds or dolphins are spotted and three to five canoes, each with two men paddling, head toward the animals. When the school is reached, fishing may commence with bait catching. This is accomplished by pole casting. Here an approximately 7 meter bamboo pole with an equivalent length of monofilament line is used to cast a hook into the school of fish. The hook is retrieved near the water surface by swinging the pole backwards (*i.e.*, a reel is not used). This method targets small scombrids, *Rastrelliger kanagurta*, which are used as bait. Trolling commences by baiting hooks attached to poles and handlines. Poles are secured outrigger-fashion and handlines are trailed behind the canoe as it is paddled along with the school of tuna. Trolling lasts as long as a concentration of fish can be followed. These schools may break up within 15 minutes or be followed across the width of a bay (~5.75 km in Nassau Bay, which fronts the village). Although trolling primarily targeted tunas, other pelagic fishes such as sailfish, *Istiophorus platypterus*, may occasionally be caught (Figure 11).

Figure 11. Trolling typically targets tunas, however exceptional catches do occur, such as this sailfish caught from a canoe approximately 200 meters from shore.

In the shallower water over and immediately adjacent to fringing reefs, the handlining and trolling methods described above may be employed to target shallow-water species, however a different suite of methods is more commonly employed. Most common is spearfishing, which is effective at any point during the tidal cycle. Here, an individual on foot or canoe throws a bamboo pole tipped with metal tines through the air at a targeted fish (Figure 12). Surface fishes (*e.g.*, belonids) were commonly targeted, although seagrass-associated species (*e.g.*, some siganids) were also caught.

Less-selective fishing occurs at lowest low tide, and includes gleaning for invertebrates (not covered here). Finfishes are harvested with *Derris*, a native terrestrial plant containing the ichthyocidal compound, rotenone. Here, a bundle of *Derris* roots is collected, pounded with rocks, and sap is expressed into a shallow pool of still water. This fishing method is commonly described as non-selective; however, mobile fishes tend to vacate the area before being killed by rotenone, so the method is most effective for site-attached fishes (Figure 13). Fishers will sometimes employ a gillnet to prevent escape of the more mobile species. After fish succumb to rotenone, they are collected by hand or spear. Fishes most commonly caught with *Derris* fishing during June and July 2008 were lutjanids, siganids, wrasses, holocentrids, mullids, and chaetodontids.

Figure 12. Spearfishing involves throwing a metal-tipped bamboo pole at fish sighted near the surface.

Village boys sometimes spearfish from wooden platforms built in shallow water near sandy beaches. Coconut inflorescences are hung from the platform and left submerged. These attract small fish (Figure 14), which are used as bait; however, the primary target appears to be squid, which are said to lay eggs in the inflorescences. These platforms are temporary; two platforms observed in February 2008 were absent in June 2008, and a third structure had been erected.

Fishing Pressure

Nassau Bay, on which Kamiali's approximately 600 residents live, is the primary location of subsistence fishing activity. A total of 101 canoes in working condition were present in the village on 29 June 2008. Figure 15 shows levels of canoe-based fishing activity, by time of day, for the two-week period during which fishing activities were observed. In general, no fishing occurred at daybreak (06:00), but numbers of actively fishing canoes increased until late morning, then dropped at noon. Fishing then resumed, and by 13:30 had typically resumed peak levels seen in the morning. The number of fishing canoes continued to increase through early evening (17:00), then dropped sharply as dark approached. Canoes were sometimes on the water after darkness prevented continued observations. Importantly, the number of actively fishing canoes at any one time was low. The morning peak averaged two canoes, and the afternoon peak averaged four.

Fishing effort also varied by day of the week. Figure 16 shows that, at any one time, an average of two canoes fish on Nassau Bay from Tuesday through Thursday. Effort nearly doubles on Saturday, drops to negligible levels on Sunday, and increases slightly on Monday. The weekend pattern appears to be driven by social expectations; nearly all village residents attend church followed by a village meeting on Sundays and fishing is discouraged on that day. High effort on Saturdays represents an effort to gather enough food so that individuals do not need to fish on Sundays. Villagers often have enough remaining fish, so that just a few individuals return to the water on Mondays. Overall, fishing pressure is low, with a mean of about 2% of seaworthy canoes engaged in fishing at any one time.

Figure 13. Derris root is sometimes used to collect fish on the reef flat. A bundle of roots is being pounded in preparation for use (left) and fish are often retrieved with a spear (right).

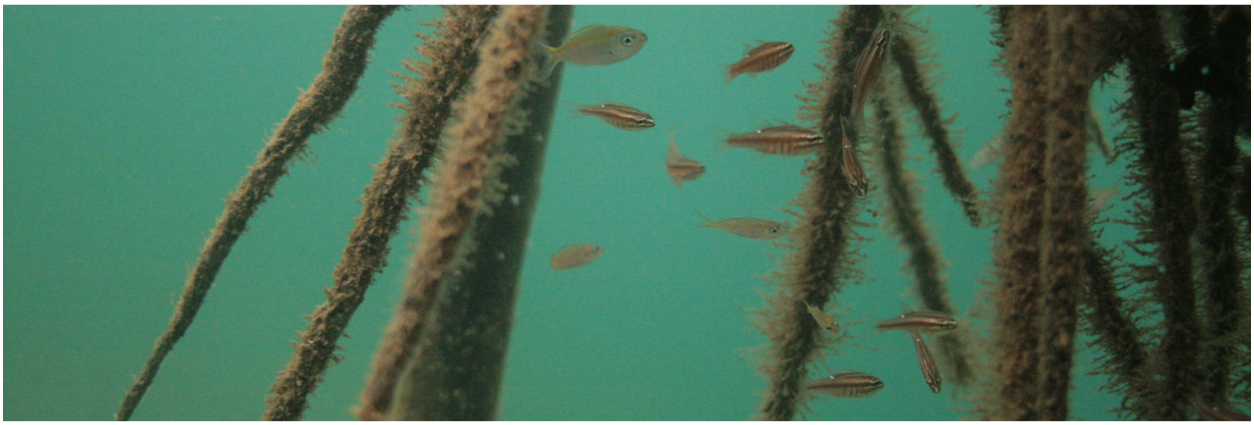

Figure 14. Small fishes are attracted to coconut inflorescences tied to spearfishing platforms.

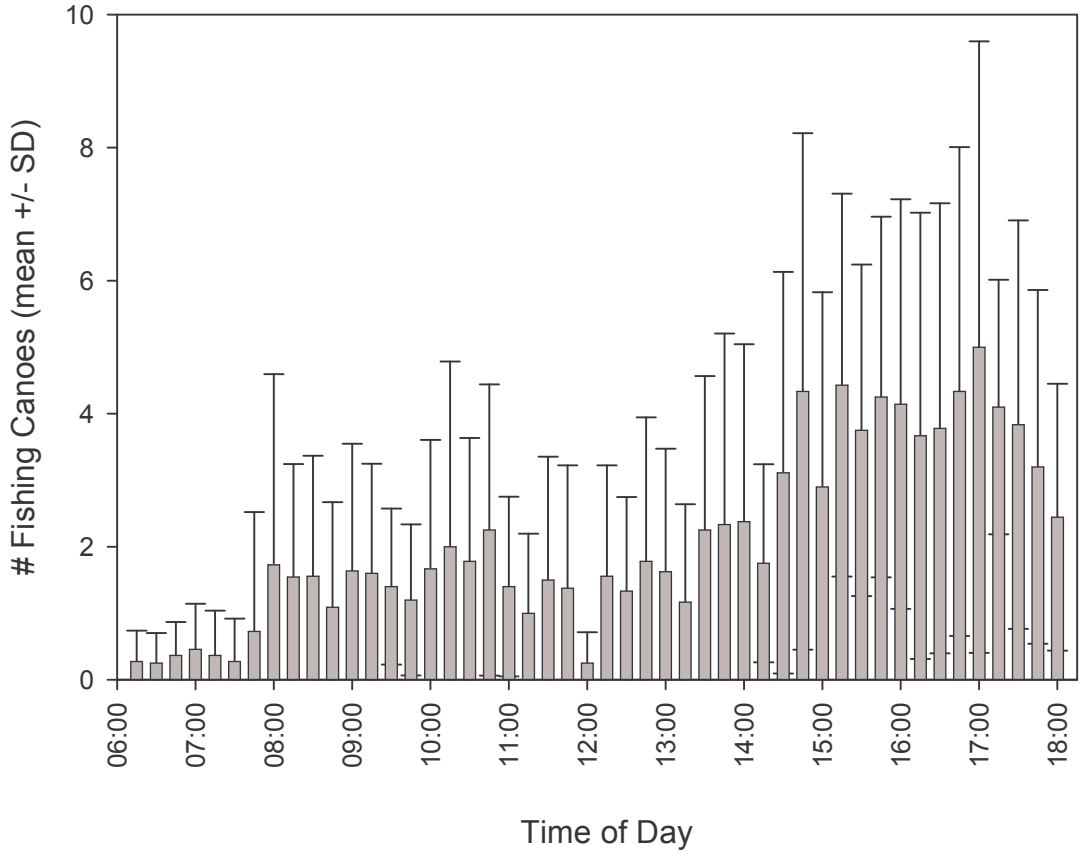

Figure 15. Number of canoes (mean ± SD) engaged in fishing on Nassau Bay.

Fishing from foot on reef flats follows a different pattern and appears to be driven by the tidal cycle. Beginning 30 June 2008, extreme low tides occurred at Kamiali Wildlife Management Area(Figure 17), with lowest tide later in the day as the week progressed. Figure 18 shows fishing on reef flats tracking lowest tides throughout the week. Prior to these extreme low tide events, fishing on the flats was negligible (two days, 6/28 and 6/29, are shown for an example). Women and children were often the primary fishers during these times, and harvest included invertebrates (molluscs, crustaceans, and holothuroids); however, approximately half of the individuals fishing at any one time were carrying spears, so finfish were also targeted during these times.

Fishing effort was not equally distributed across the reef flat. The observation post we used was located in front of the Kamiali Guesthouse, situated in the middle of the north side of Cape Dinga. The majority of activity on this reef flat was toward the seaward (eastern) side of this shore. Very little fishing was observed on the western side, which fronts the site where a coastal laboratory will be built.

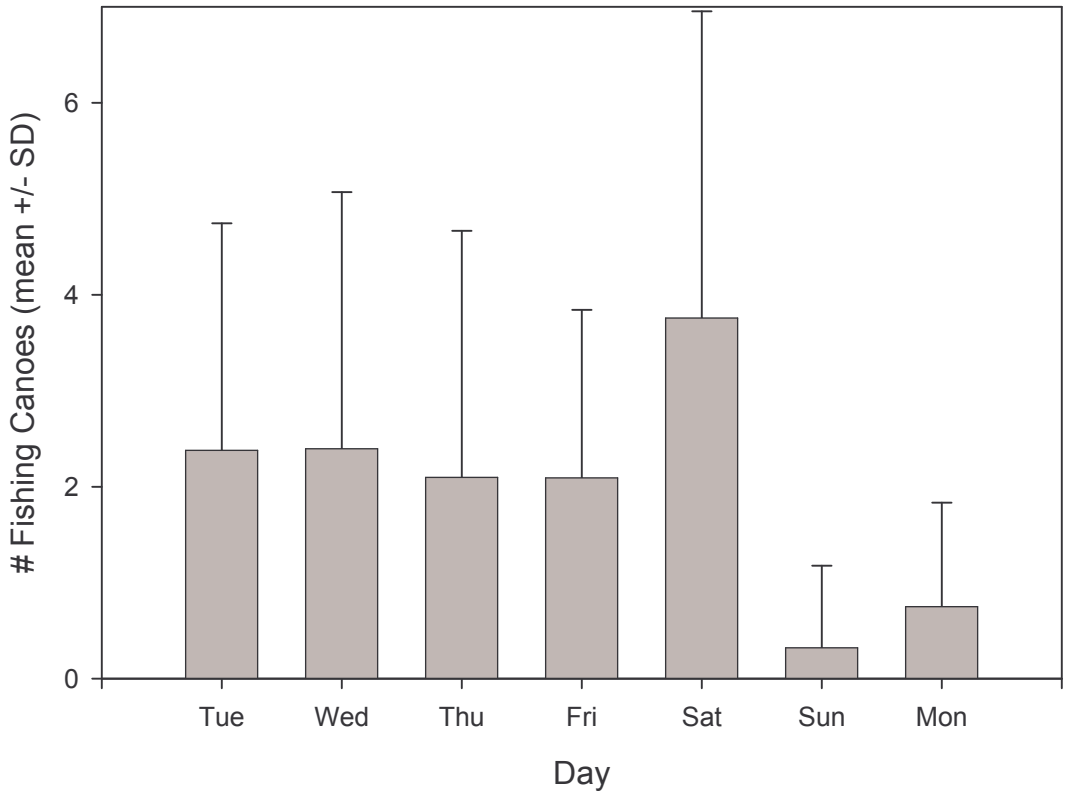

Figure 16. Fishing effort (average number of canoes per 15 minute period) by day of the week. Effort was relatively constant during weekdays, higher on Saturday, and low on Sunday.

Figure 17. Fringing reef flat during an extreme low tide on 30 June 2008.

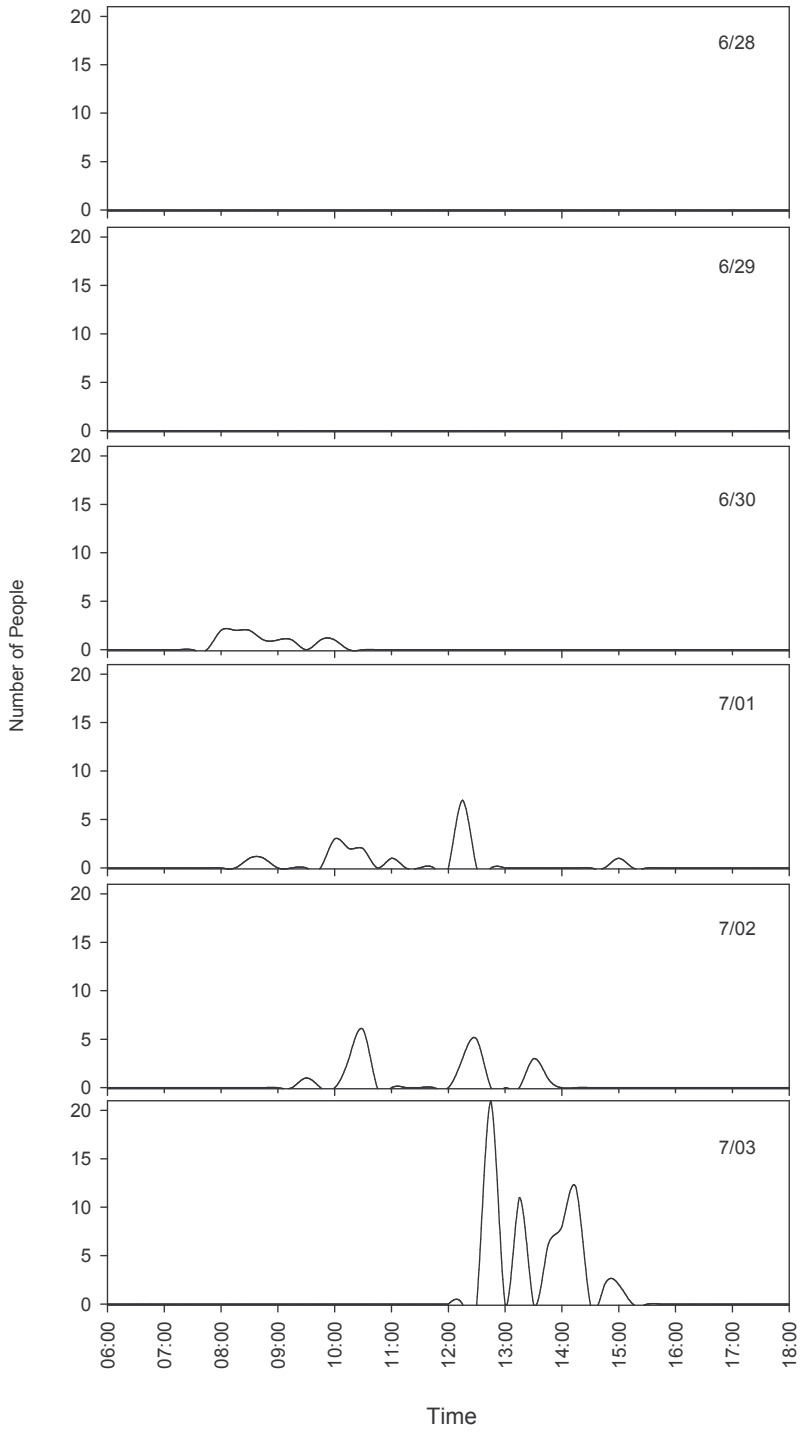

Figure 18. Foot-based fishing activity on reef flats, by day. Extreme low tides began on June 30 and occurred later each day through July 3.

DISCUSSION

The data presented here are based on a total 16 days on site at Kamiali Wildlife Management Area, using a small suite of field methods. Because of these limitations, some uncertainty about the environment, fish diversity, and fishing practices at Kamiali remain.

Although fringing and patch reefs are easily accessible and were reasonably well surveyed, the majority of the marine portion of the wildlife management area occurs in depths beyond the limits of conventional SCUBA and a large portion the bathymetry of the open bays has not been characterized (Figure 2). The bottom immediately adjacent to fringing reefs is sandy sediment; however, two lines of evidence suggest reef outcroppings occur throughout the deeper portions of the bays. Fishermen have favored fishing sites, which they locate using a set of landmarks (ranges). They will bottom-fish at these sites until wind or currents move their canoes off the site, then paddle back to continue fishing. This behavior suggests the substrate in the open bay is not uniform. The bottom-associated fishes caught at these sites are known to inhabit reefs. For instance, Randall *et al*. (1990) describe the favored fish, *Lutjanus sebae*, as occurring on lagoonal coral reefs found on sand flats. In the future, we expect to use advanced diving techniques to unambiguously characterize the deeper portions of the marine area.

Although remarkable and easily accessible fish diversity was encountered during the limited time spent in shallow water (< 20 m), much of checklist of 1184 fishes presented in Appendix I is based on the assumption that fishes found during surveys at nearby areas also occur at Kamiali. Despite the possibility that some of these fishes may not occur along the Huon Coast, the Kamiali fish checklist almost certainly underestimates total fish species richness; the literature used to construct the checklist under-represents cryptic groups such as moray eels and gobies. The latter is known to be the most speciose group of marine fishes, and several hundred species are expected to occur in Papua New Guinea (Allen & Swainson, 1993). The checklist of coastal marine fishes at Kamiali will undoubtedly change as the fish fauna is more thoroughly surveyed.

The information on fishing practices and effort presented here is a limited snapshot, even for the time spent on site. Observations were made only during daylight hours, but Kamiali residents are known to fish at night (Wagner, 2002). Darkness prevented the characterization of nocturnal fishing activity. It is highly possible that fishing patterns at Kamiali change seasonally. This could be driven by seasonal fish behavior, weather patterns, or both. For instance, observations of fishing practices were done during a two-week period of the rainy season. It is possible that the thick, persistent freshwater lens (nearly 2 m thick on some days) caused a change in shallow-water fish distributions, or that heavy rains discouraged fishing activities. Likewise, the extreme low tides observed during early July may be an annual or a monthly event. The frequency of these low tides probably influence the level of fishing on fringing reefs. Indeed, a Morobe-Province-wide analysis of fishing by the National Fisheries Authority (2007) shows that fishing for most species is heaviest during the early and late parts of a calendar year (*i.e.*, this study was conducted during a period when fishing effort is lightest). Likewise, the National Fisheries Authority (2007) showed that monthly fishing patterns are characterized by heaviest activity during the week of a new moon.

Fishing pressure appears low in Nassau Bay, even though fish from this area provide the primary source of dietary protein to approximately 600 residents. An average 2% of seaworthy canoes were involved in fishing at any one time. Further, fish appear to be caught in sufficient quantity to allow daily lunch breaks (Figure 15) and, with a bit of extra effort on Saturdays, near cessation of fishing on Sundays with Saturday's catch often lasting into Monday (Figure 16).

Notably rare in Kamiali Wildlife Mangement Area is fishing from motorized vessels. Two working skiffs were present in July 2008, but these were used in a business to transport villagers and cargo to and from Lae. The only times trolling from these vessels was observed in the wildlife management areas occurred when the authors hired the boats for survey work. The high initial cost purchasing a boat and motor combined with ongoing fuel costs appears prohibitive when the ease of obtaining an adequate catch using human-powered canoes is considered.

This use of human-powered vessels helps maintain a buffer from fishing in other areas of Kamiali Wildlife Management Area. Fishing in Saschen and Hessen Bays requires significantly more transportation effort than does fishing in Nassau Bay which fronts the village of Kamiali. Residents suggest that low fishing pressure in these bays keeps fish abundance high, and describe the infrequent fishing forays into these bays as being akin to taking a trip to the supermarket.

Despite the ease of procuring an adequate catch, some villagers expressed concern that the fishes being kept for consumption were too small. Bottom-associated fish caught in the open bay, where most fishing effort is concentrated, experience severe barotrauma when caught on handlines (see the protruding eyes of fishes on the left side of Figure 10). These fish are unlikely to survive if released. If Kamiali fishers wish to conserve the smaller individuals of these bottom-associated target species, opting to use larger hooks appears to be a viable option.

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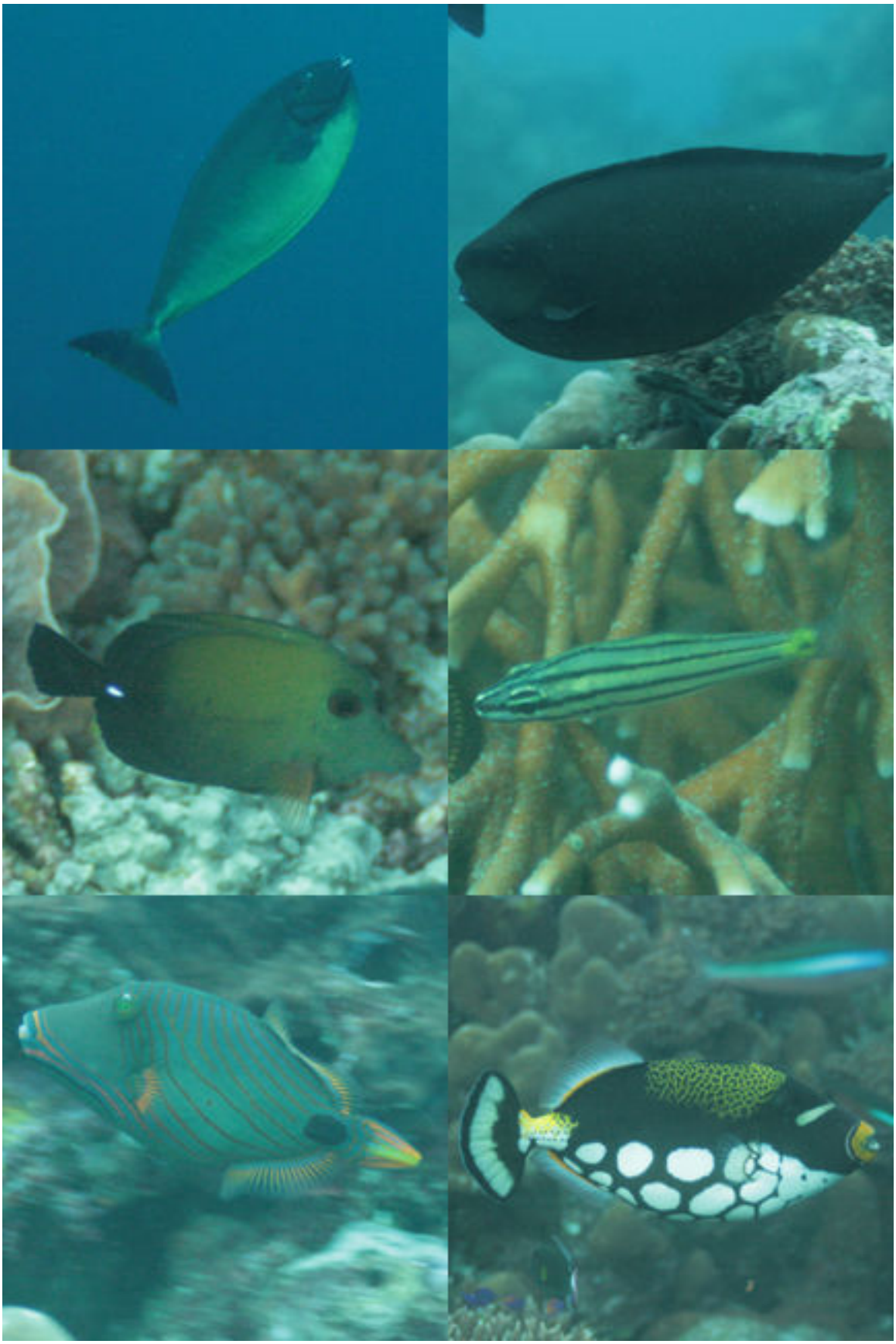
PLATES

Plate 1. Acanthuridae. Acanthurus dussumieri, Acanthurus lineatus, Acanthurus mata, Acanthurus pyroferus, Acanthurus triostegus, Ctenochaetus tomeniensis.

Plate 2. Acanthuridae, Apogonidae and Balistidae. *Naso hexacanthus*, *Naso vlamingii*, *Zebrasoma scopas*, *Cheilodipterus quinquelineatus*, *Balistapus undulatus*, *Balistoides conspicillum*.



Plaate 3. Balistidae, Blenniidae and Caesionidae. *Odonus niger*, *Escenius prooculis*, *Meiacanthus grammistes*, *Plagiotremus laudandus*, *Caesio caerulaurea*.

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Plate 6. Chaetodontidae. *Chaetodon vagabundus*, *Choradion chrysozonus*, *Forcipiger flavissimus*, *Forcipiger longirostrus*, *Heniochus acuminatus*, *Heniochus chrysostomus*.

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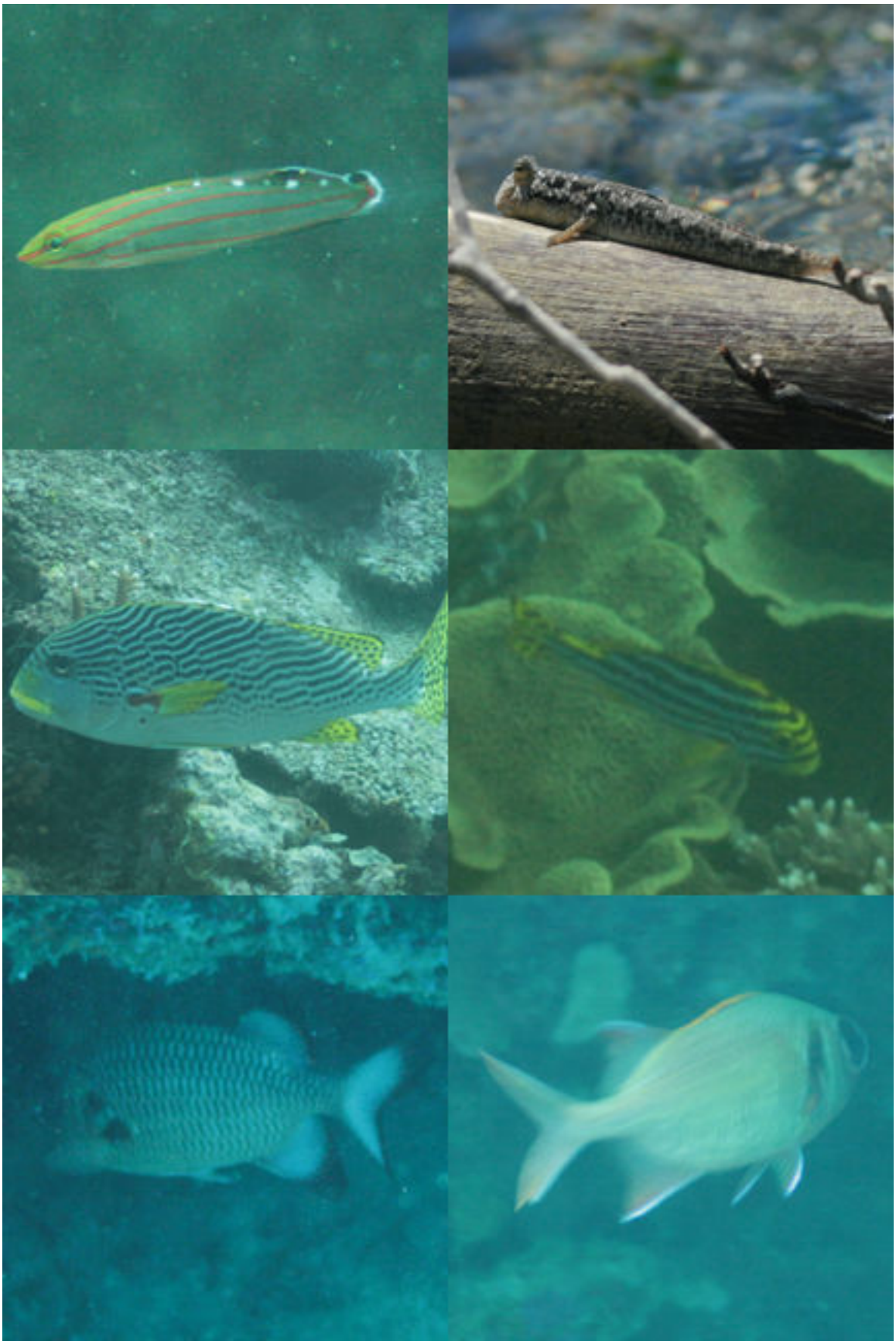

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Plate 10. Labridae. Cheilinus fasciatus, *Choerodon anchorago*, *Gomphosus varius*, *Halichoeres hortulanus*, *Halichoeres prosopeion*, *Halichoeres pupurescens*.

Plate 11. Labridae. *Labroides dimidiatus*, *Oxycheilinus celebicus*, *Pseudocheilinus hexataenia*, *Thalassoma amblycephalum*, *Thalassoma hardwicke*, *Thalassoma jansenii*.

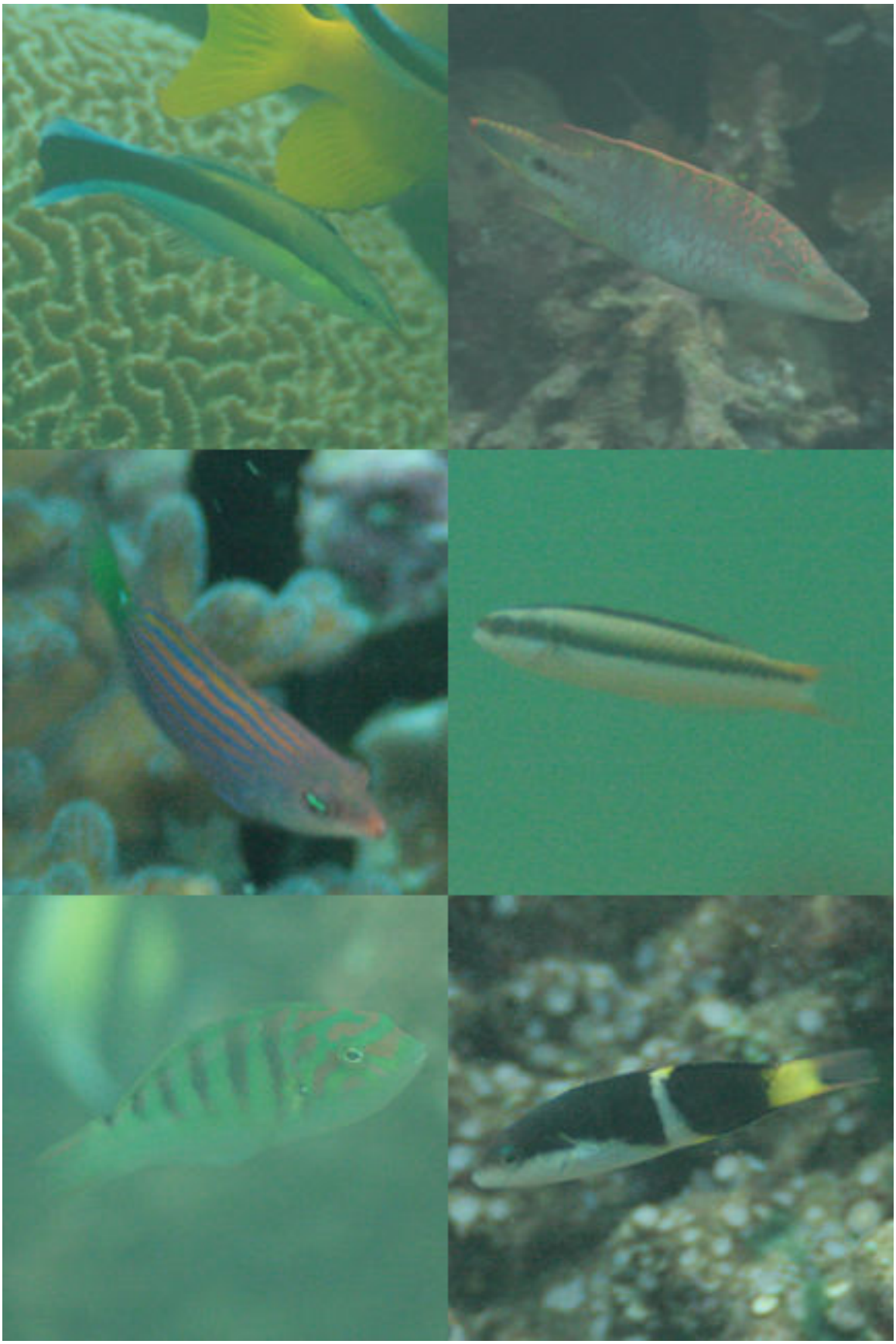

Plate 12. Labridae, Lethrinidae and Lutjanidae. *Thalassoma lunare*, *Thalassoma lunare* (juvenile), *Gnathodentex aurolineatus*, *Lethrinus harak*, *Monotaxis grandoculis*, *Lutjanus biguttatus*.

Plate 13. Lutjanidae. *Lutjanus carponotatus*, *Lutjanus fulvus*, *Lutjanus gibbus*, *Lutjanus semicinctus*, *Macolor macularis*, *Macolor macularis* (juvenile).

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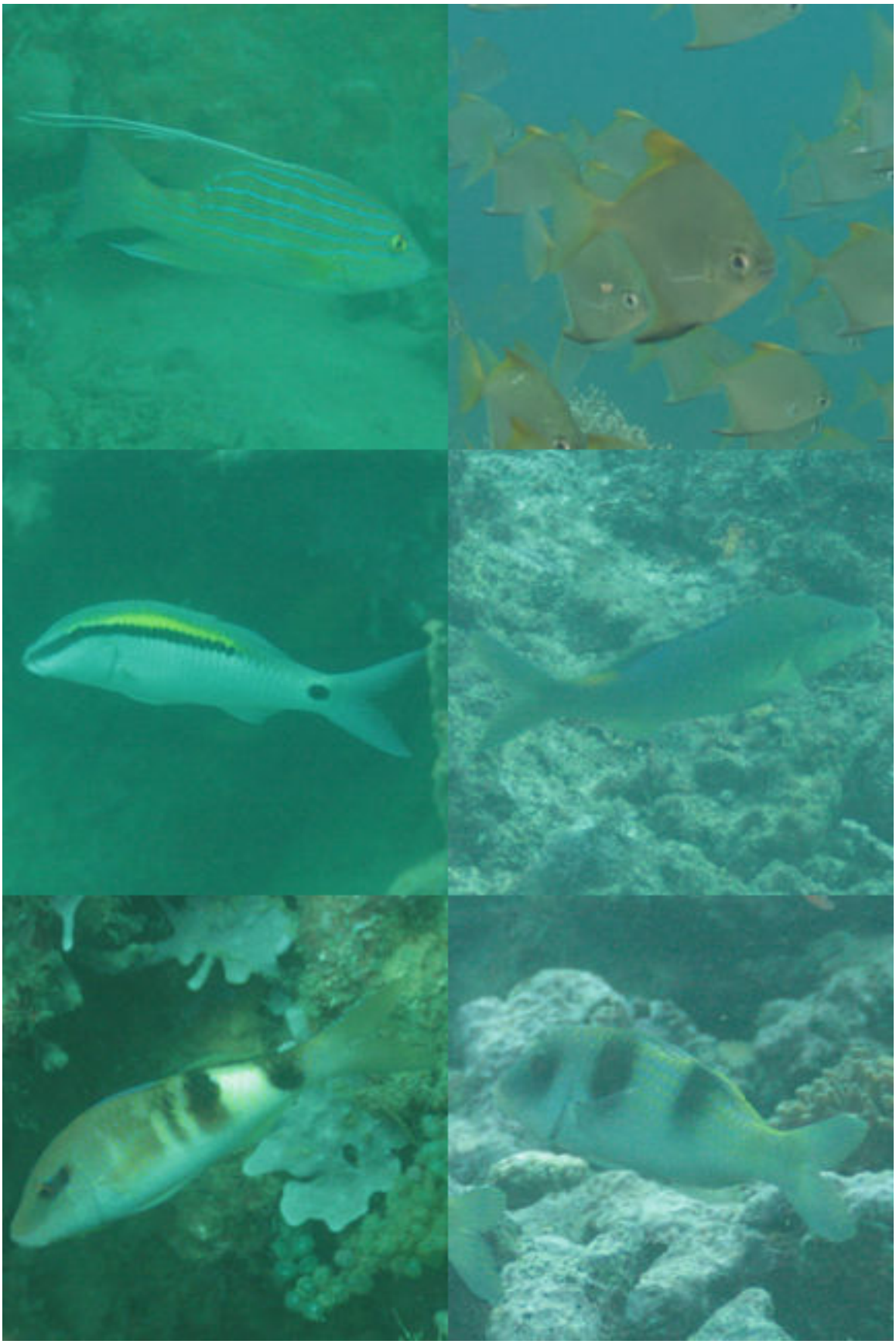


Plate 15. Nemipteridae, Pempheridae, Pinguipedidae and Pomacanthidae. *Scolopsis bilineata*, *Scolopsis ciliata*, *Pempheris oualensis*, *Parapercis xanthozona*, *Centropyge bicolor*, *Centropyge vroliki*.

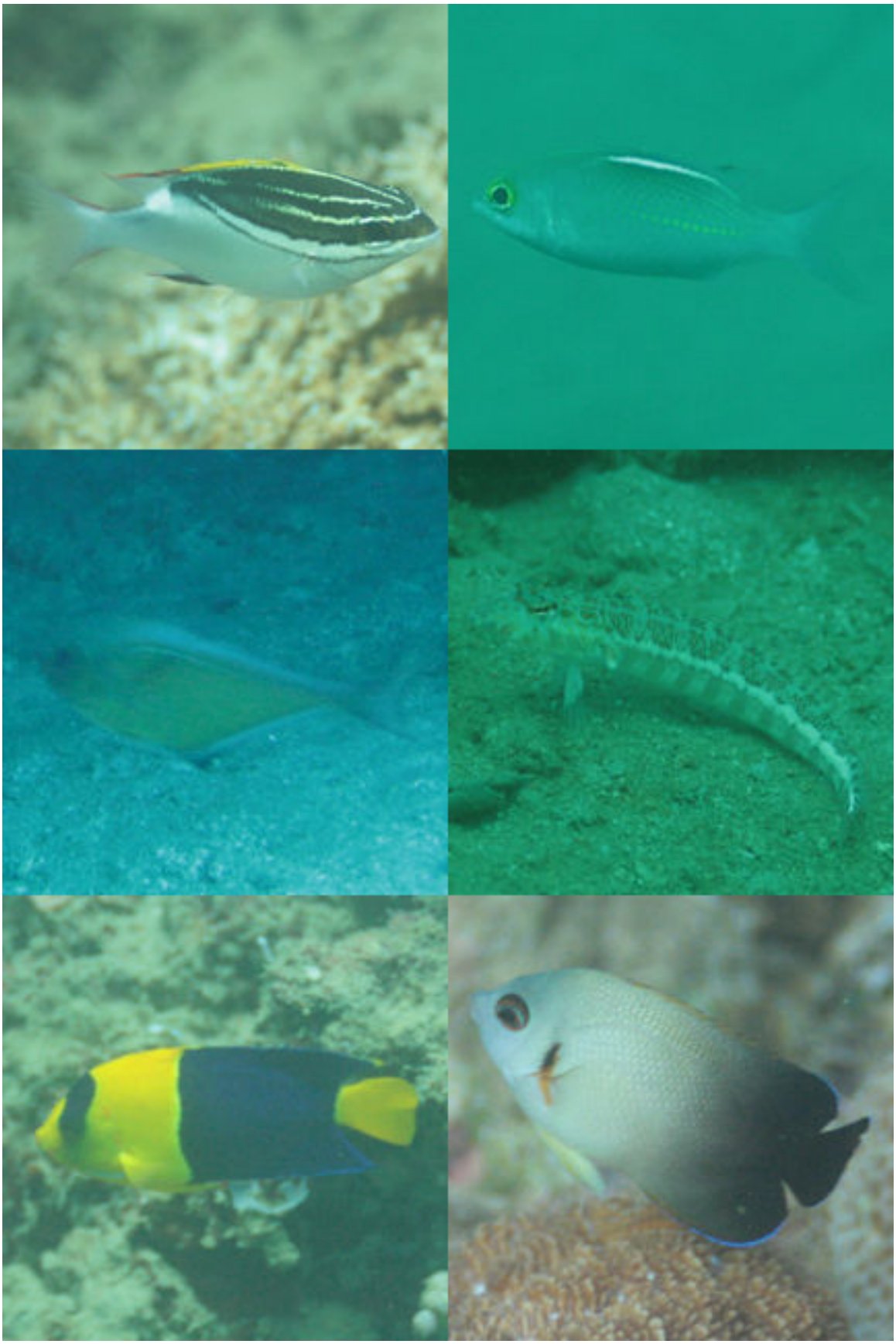


Plate 16. Pomacanthidae and Pomacentridae. *Chaetodontoplus mesoleucus*, *Pomacanthus navarchus*, *Pygoplites diacanthus*, *Abudefduf sexfasciatus*, *Abudefduf vaigiensis*, *Acanthochromis polyacanthus*.

Plate 17. Pomacentridae. *Amblyglyphidodon aureus*, *Amblyglyphidodon curacao*, *Amblyglyphidodon leucogaster*, *Amphiprion clarkii*, *Amphiprion percula*, *Amphiprion perideraion*.

Plate 18. Pomacentridae. *Chrysiptera flavipinnis*, *Chromis ambionensis*, *Chromis atripes*, *Chromis lineata*, *Chromis margaritifer*, *Chromis retrofasciata*.

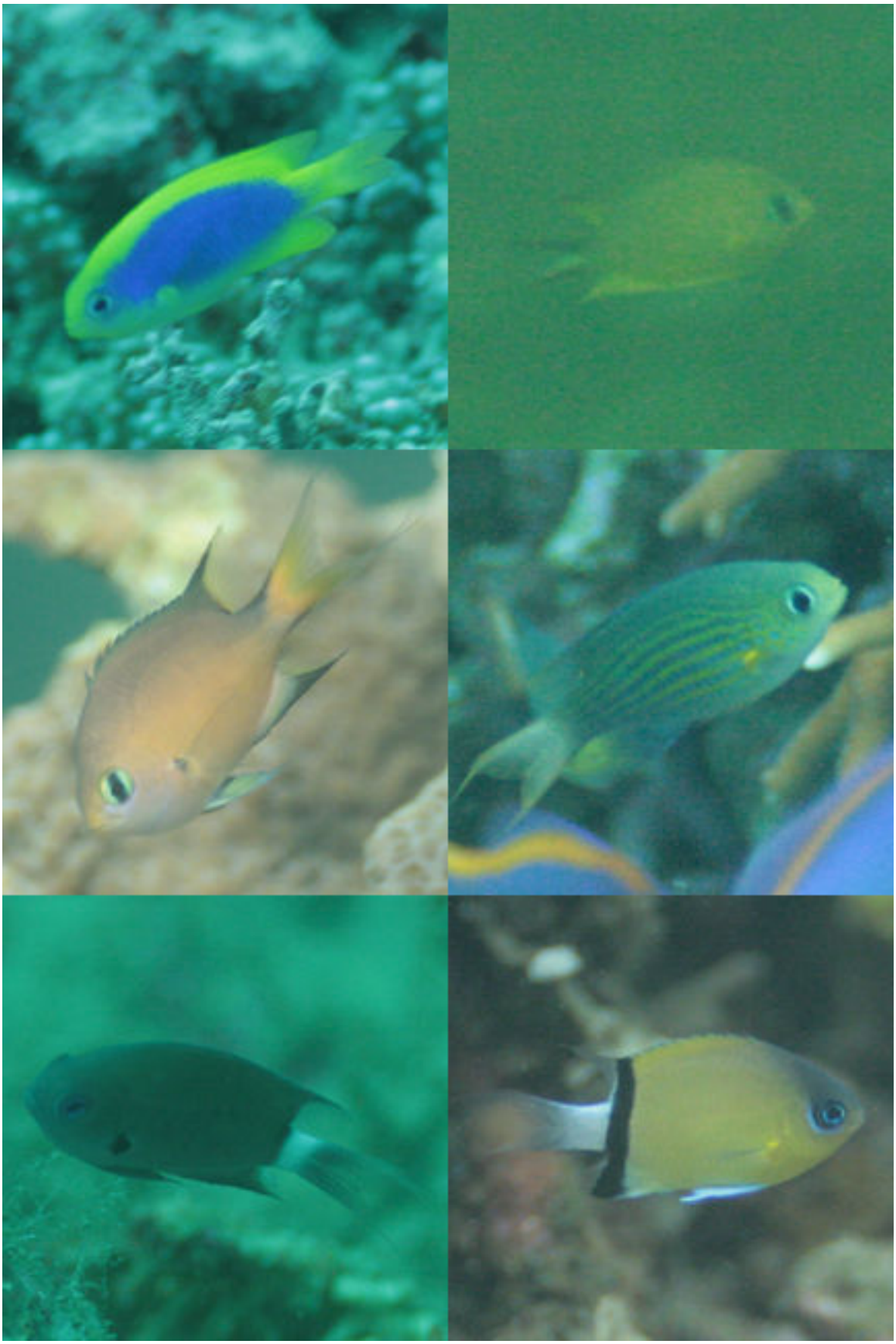


Plate 19. Pomacentridae. *Chromis xanthura*, *Chrysiptera biocellata* (juvenile), *Chrysiptera cyanea*, *Chrysiptera parasema*, *Chrysiptera rollandi*, *Chrysiptera talboti*.

Plate 20. Pomacentridae. *Dascyllus reticulatus*, *Dascyllus trimaculatus*, *Neoglyphidodon nigroris*, *Neopomacentrus azysron*, *Pomacentrus bankanensis*, *Pomacentrus lepidogenys*.

Plate 21. Pomacentridae and Scaridae. *Pomacentrus moluccensis*, *Pomacentrus nigromanus*, *Pomacentrus reidi*, *Premnas biaculeatus*, *Cetoscarus bicolor*, *Chlorurus bleekeri* (female).

Plate 22. Scaridae, Scombridae, Scorpaenidae and Serranidae. *Chlorurus bleekeri* (male), *Scarus flavipectoralis* (female), *Scarus flavipectoralis* (male), *Rastrelliger kanagurta*, *Pterois volitans*, *Cephalopholis cyanostigma*.

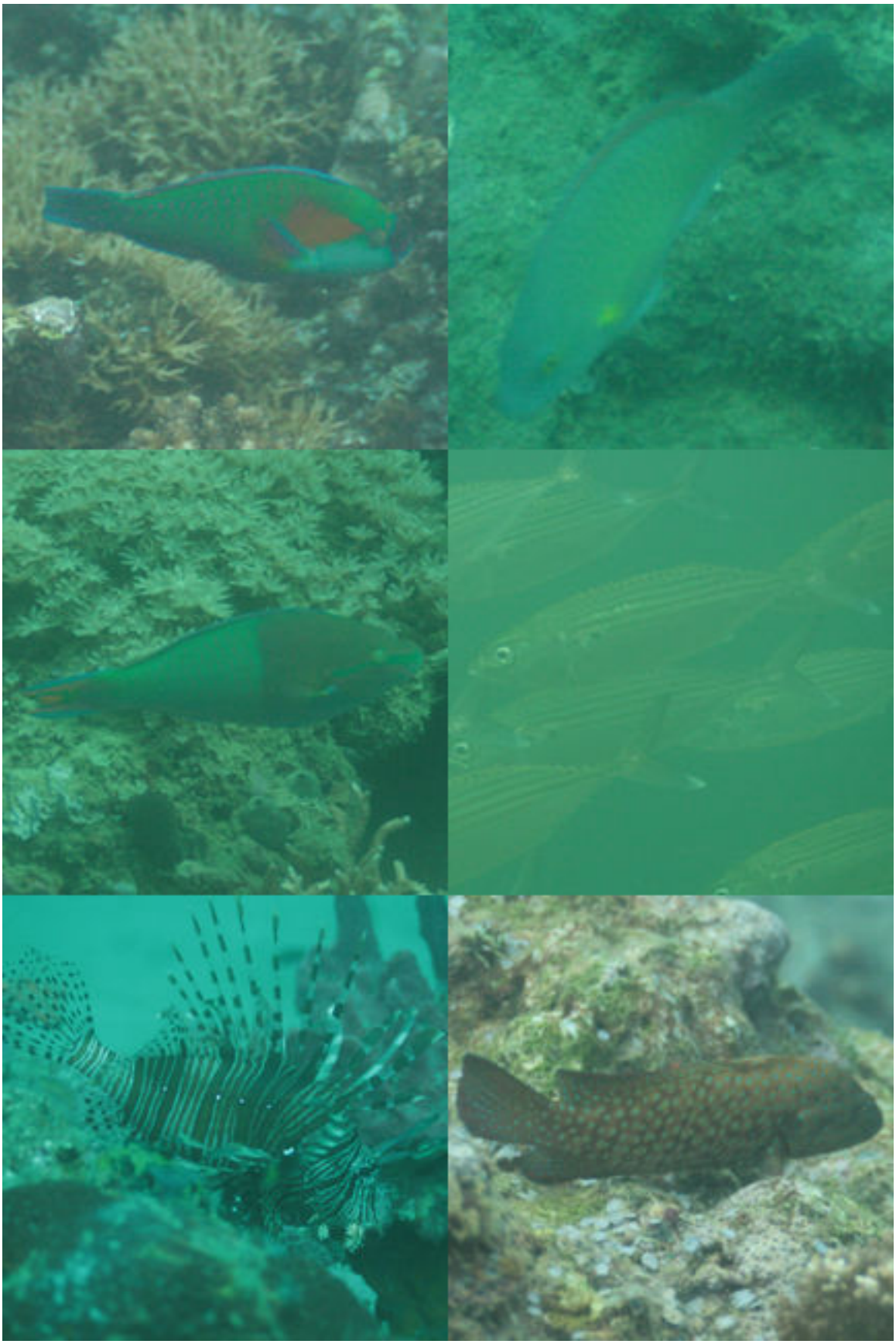
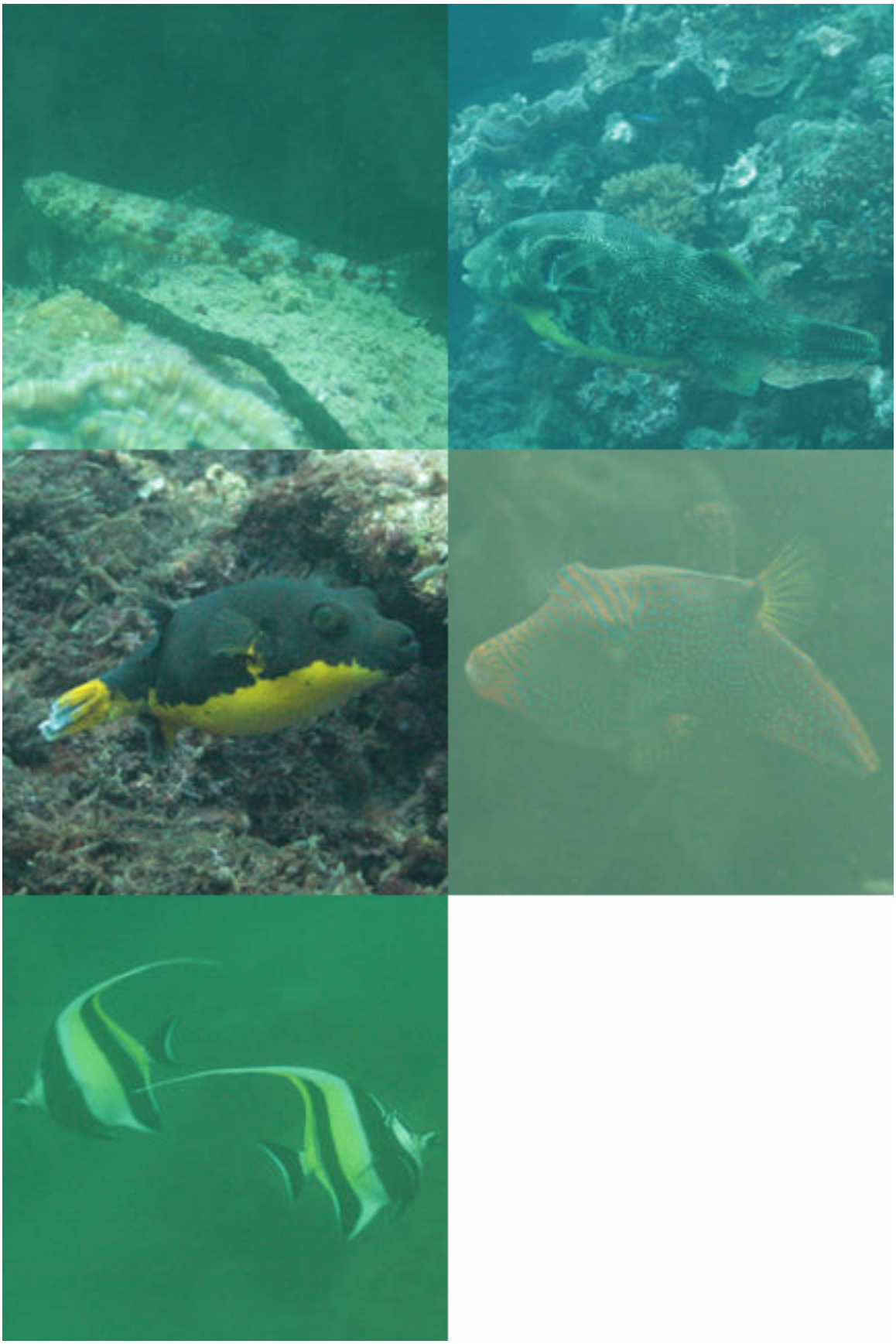


Plate 23. Serranidae and Siganidae. *Cephalopholis microprion*, *Cephalopholis urodeta*, *Pseudanthias pleurotania*, *Pseudanthias tuka*, *Variola louti*, *Siganus doliatus*.

Plate 24. Synodontidae, Tetraodontidae and Zanclidae. *Synodus variegatus*, *Arothron mappa*, *Arothron nigropunctatus*, *Canthiaster solandri*, *Zanclus cornutus*.



APPENDIX

APPENDIX. COASTAL MARINE FISHES LIKELY PRESENT AT KAMIALI WILDLIFE MANAGEMENT AREA

ORDER	FAMILY	GENUS	SPECIES	AUTHOR	COMMON NAME
Orectolobiformes					
	Orectolobidae				
		Eucrossorhinus	*dasypogon*	(Bleeker, 1876)	Tasselled Wobbegong
		Orectolobus	*ornatus*	(De Vis, 1883)	Ornate Wobbegong
	Hemiscylliidae				
		Chiloscyllium	*griseum*	Muller & Henle, 1838	Grey Bambooshark
		Hemiscyllium	*freycineti*	(Quoy & Gaimard, 1824)	Indonesian Speckled Carpetshark
		Hemiscyllium	*hallstromi*	Whitley, 1967	Papuan Epaulette Shark
		Hemiscyllium	*ocellatum*	(Bonnaterre, 1788)	Epaulette Shark
		Hemiscyllium	*strahani*	Whitley, 1967	Hooded Carpetshark
		Hemiscyllium	*trispeculare*	Richardson, 1843	Speckled Carpetshark
	Ginglymostematidae				
		Nebrius	*ferrugineus*	(Lesson, 1831)	Tawny Nurse Shark
	Stegostomatidae				
		Stegostoma	*fasciatum*	(Hermann, 1783)	Leopard Shark
	Rhincodontidae				
		Rhincodon	*typus*	Smith, 1828	Whale Shark
Carcharhiniformes					
	Scyliorhinidae				
		Atelomycterus	*marmoratus*	(Anonymous [Bennett], 1830)	Coral Catshark
		Scyliorhinus	*garmani*	(Fowler, 1934)	Brownspotted Catshark
	Hemigaleidae				
		Hemigaleus	*microstoma*	Bleeker, 1852	Sicklefin Weasel Shark
	Carcharhinidae				

		Carcharhinus	*albimarginatus*	(Ruppell, 1837)	Silvertip Shark
		Carcharhinus	*amblyrhynchoides*	(Whitley, 1934)	Graceful Shark
		Carcharhinus	*amblyrhynchos*	(Bleeker, 1856)	Grey Reef Shark
		Carcharhinus	*amboinensis*	(Muller & Henle, 1839)	Pigeye Shark
		Carcharhinus	*dussumieri*	(Muller & Henle, 1839)	Whitecheek Shark
		Carcharhinus	*falciformis*	(Muller & Henle, 1839)	Silky Shark
		Carcharhinus	*hemiodon*	(Muller & Henle, 1839)	Pondicherry Shark
		Carcharhinus	*leucas*	(Muller & Henle, 1839)	Bull Shark
		Carcharhinus	*limbatus*	(Muller & Henle, 1839)	Blacktip Shark
		Carcharhinus	*longimanus*	(Poey, 1861)	Oceanic Whitetip Shark
		Carcharhinus	*macloti*	(Muller & Henle, 1839)	Hardnose Shark
		Carcharhinus	*melanopterus*	(Quoy & Gaimard, 1824)	Blacktip Reef Shark
		Carcharhinus	*sealei*	(Pietschmann, 1913)	Blackspot Shark
		Galeocerdo	*cuvier*	(Peron & Leseur, 1822)	Tiger Shark
		Negaprion	*acutidens*	(Ruppell, 1837)	Sicklefin Lemon Shark
		Prionace	*glauca*	(Linnaeus, 1758)	Blue Shark
		Rhizoprionodon	*acutus*	(Ruppell, 1837)	Milk Shark
		Triaenodon	*obesus*	(Ruppell, 1837)	Whitetip Reef Shark
	Sphyrnidae				
		Eusphyra	*blochii*	(Cuvier, 1816)	Winghead Shark
		Sphyrna	*lewini*	(Griffith & Smith, 1834)	Scalloped Hammerhead
		Sphyrna	*mokarran*	(Ruppell, 1837)	Great Hammerhead
Lamniformes					
	Lamnidae				
		Isurus	*oxyrinchus*	Rafinesque, 1810	Shortfin Mako
Squaliformes					
	Centrophoridae				
		Centrophorus	*granulosus*	(Bloch & Schneider, 1801)	Gulper Shark

Rajiformes					
	Pristidae				
		Anoxypristis	*cuspidata*	(Latham, 1794)	Knifetooth Sawfish
		Pristis	*microdon*	Latham, 1794	Largetooth Sawfish
		Pristis	*zijsron*	Bleeker, 1851	Longcomb Sawfish
	Rhinobatidae				
		Glaucostegus	*typus*	(Anonymous [Bennett], 1830)	Giant Shovelnose Ray
		Rhina	*ancylostoma*	Bloch & Schneider, 1801	Bowmouth Guitarfish
	Dasyatidae				
		Himantura	*fai*	Jordan & Seale, 1906	Pink Whipray
		Himantura	*granulata*	(Macleay, 1883)	Mangrove Whipray
		Himantura	*jenkinsii*	(Annandale, 1909)	Ponted-nose Stingray
		Himantura	*uarnak*	(Forsskål, 1775)	Honeycomb Stingray
		Himantura	*undulata*	(Bleeker, 1852)	Leopard Whipray
		Neotrygon	*kuhlii*	(Muller & Henle, 1841)	Bluespotted Stingray
		Pastinachus	*sephen*	(Forsskål, 1775)	Cowtail Stingray
		Taeniura	*lymma*	(Forsskål, 1775)	Bluespotted Ribbontail Ray
		Taeniura	*meyeni*	Muller & Henle, 1841	Blotched Fantail Ray
		Urogymnus	*asperrinus*	(Bloch & Schneider, 1801)	Porcupine Ray
	Myliobatidae				
		Aetobatus	*narinari*	(Euphrasen, 1790)	Spotted Eagle Ray
		Manta	*birostris*	(Walbaum, 1792)	Giant Manta
		Mobula	*eregoodootenkee*	(Bleeker, 1859)	Pygmy Devilray
Angulliformes					
	Muraenidae				
		Echidna	*nebulosa*	(Ahl, 1789)	Snowflake Moray
		Echidna	*polyzona*	(Richardson, 1845)	Barred Moray
		Echidna	*rhodochilus*	Bleeker, 1863	Pink-lipped Moray Eel

		Enchelycore	*bayeri*	(Schultz, 1953)	Hookjaw Moray
		Gymnomuraena	*zebra*	(Shaw, 1797)	Zebra Moray
		Gymnothorax	*favagineus*	Bloch & Schneider, 1801	Laced Moray
		Gymnothorax	*flavimarginatus*	(Ruppell, 1830)	Yellow-edged Moray
		Gymnothorax	*javanicus*	(Bleeker, 1859)	Giant Moray
		Gymnothorax	*meleagris*	(Shaw, 1795)	Turkey Moray
		Gymnothorax	*pictus*	(Ahl, 1789)	Peppered Moray
		Gymnothorax	*rueppellii*	(McClelland, 1844)	Banded Moray
		Gymnothorax	*undulatus*	(Lacepède, 1803)	Undulated Moray
		Rhinomuraena	*quaesita*	Garman, 1888	Ribbon Moray
	Ophichthidae				
		Brachysomophis	*crocodilinus*	(Bennett, 1833)	Crocodile Snake Eel
		Leiuranus	*semicinctus*	(Lay & Bennett, 1839)	Saddled Snake Eel
		Myrichthys	*colubrinus*	(Boddaert, 1781)	Harlequin Snake Eel
	Muraenesocidae				
		Muraenesox	*bagio*	(Hamilton, 1822)	Common Pike Conger
	Congridae				
		Conger	*cinereus*	Ruppell, 1830	Longfin African Conger
		Heteroconger	*hassi*	(Klausewitz & Eibl-Eibesfeldt, 1959)	Spotted Garden Eel
Clupeiformes					
	Engraulidae				
		Encrasicholina	*devisi*	(Whitley, 1940)	Devis' Anchovy
		Encrasicholina	*heteroloba*	(Ruppell, 1837)	Shorthead Anchovy
		Encrasicholina	*punctifer*	Fowler, 1938	Buccaneer Anchovy
		Stolephorus	*commersonnii*	Lacepède, 1803	Commerson's Anchovy
		Stolephorus	*indicus*	(van Hasselt, 1823)	Indian Anchovy
		Thryssa	*baelama*	(Forsskål, 1775)	Baelama Anchovy
		Thryssa	*setirostris*	(Broussonet, 1782)	Longjaw Thryssa

	Chirocentridae				
		Chirocentrus	*dorab*	(Forsskål, 1775)	Dorab Wolf-herring
		Chirocentrus	*nudus*	Swainson, 1839	Whitefin Wolf-herring
	Clupeidae				
		Amblygaster	*sirm*	(Walbaum, 1792)	Spotted Sardinella
		Anodontostoma	*chacunda*	(Hamilton, 1822)	Chacunda Gizzard Shad
		Dussumieria	*elopsoides*	Bleeker, 1849	Slender Rainbow Sardine
		Herklotsichthys	*quadrimaculatus*	(Ruppell, 1837)	Bluestripe Herring
		Hilsa	*kelee*	(Cuvier, 1829)	Kelee Shad
		Sardinella	*albella*	(Valenciennes, 1847)	White Sardinella
		Sardinella	*fijiense*	(Fowler & Bean, 1923)	Fiji Sardinella
		Sardinella	*fimbriata*	(Valenciennes, 1847)	Fringescale Sardinella
		Sardinella	*melanura*	(Cuvier, 1829)	Blacktip Sardinella
		Spratelloides	*delicatulus*	(Bennett, 1832)	Delicate Round Herring
		Spratelloides	*gracilis*	(Temminck & Schlegel, 1846)	Silver-stripe Round Herring
		Spratelloides	*lewisi*	Wongratana, 1983	Lewis' Round Herring
Gonorhynchiformes					
	Chanidae				
		Chanos	*chanos*	(Forsskål, 1775)	Milkfish
Siluriformes					
	Plotosidae				
		Plotosus	*canius*	Hamilton, 1822	Gray Eel-catfish
		Plotosus	*lineatus*	(Thunberg, 1787)	Striped Eel Catfish
Aulopiformes					
	Synodontidae				
		Harpadon	*nehereus*	(Hamilton, 1822)	Bombay-duck
		Saurida	*gracilis*	(Quoy & Gaimard, 1824)	Gracile Lizardfish
		Saurida	*tumbil*	(Bloch, 1795)	Greater Lizardfish

		Saurida	*undosquamis*	(Richardson, 1848)	Brishtooth Lizardfish
		Synodus	*binotatus*	Schultz, 1953	Two-spot Lizard Fish
		Synodus	*dermatogenys*	Fowler, 1912	Sand Lizardfish
		Synodus	*jaculum*	Russell & Cressey, 1979	Lighthouse Lizardfish
		Synodus	*variegatus*	(Lacepede, 1803)	Variegated Lizardfish
		Trachinocephalus	*myops*	(Forster, 1801)	Snakefish
Ophidiiformes					
	Ophidiidae				
		Brotula	*multibarbata*	Temminck & Schlegel, 1846	Goatsbeard Brotula
Lophiiformes					
	Lophiidae				
		Lophiodes	*mutilus*	(Alcock, 1894)	Smooth Angler
		Lophiomus	*setigerus*	(Vahl, 1797)	Blackmouth Angler
	Antennariidae				
		Antennarius	*nummifer*	(Cuvier, 1817)	Spotfin Frogfish
Mugiliformes					
	Mugilidae				
		Cestraeus	*goldiei*	(Macleay, 1883)	Goldie River Mullet
		Cestraeus	*oxyrhyncus*	Valenciennes, 1836	Sharp-nosed River Mullet
		Crenimugil	*crenilabis*	(Forsskål, 1775)	Fringelip Mullet
		Crenimugil	*heterocheilos*	(Bleeker, 1855)	Half Fringelip Mullet
		Liza	*alata*	(Steindachner, 1892)	Diamond Mullet
		Liza	*macrolepis*	(Smith, 1846)	Largescale Mullet
		Liza	*melinoptera*	(Valenciennes, 1836)	Otemobora Mullet
		Liza	*parmata*	(Cantor, 1849)	Broad-mouthed Mullet
		Liza	*subviridis*	(Valenciennes, 1836)	Greenback Mullet
		Liza	*tade*	(Forsskål, 1775)	Tade Mullet
		Liza	*vaigiensis*	(Quoy & Gaimard, 1825)	Squaretail Mullet

		Moolgarda	*perusii*	(Valenciennes, 1836)	Longfinned Mullet
		Mugil	*cephalus*	Linnaeus, 1758	Flathead Mullet
		Oedalechilus	*labiosus*	(Valenciennes, 1836)	Hornlip Mullet
		Rhinomugil	*nasatus*	(De Vis, 1883)	Shark Mullet
		Valamugil	*buchanani*	(Bleeker, 1854)	Bluetail Mullet
		Valamugil	*cunnesius*	(Valenciennes, 1836)	Longarm Mullet
		Valamugil	*engeli*	(Bleeker, 1859)	Kanda
		Valamugil	*seheli*	(Forsskål, 1775)	Bluespot Mullet
		Valamugil	*speigleri*	(Bleeker, 1858-59)	Speigler's Mullet
Atheriniformes					
	Atherinidae				
		Atherinomorus	*duodecimalis*	(Valenciennes, 1835)	Tropical Silverside
		Atherinomorus	*endrachtensis*	(Quoy & Gaimard, 1825)	Eendracht Land Silverside
		Atherion	*elymus*	Jordan & Starks, 1901	Bearded Silverside
		Hypoatherina	*barnesi*	Schultz, 1953	Barnes's Silverside
		Hypoatherina	*temminckii*	(Bleeker, 1853)	Samoan Silverside
		Stenatherina	*panatela*	(Jordan & Richardson, 1908)	Panatella Silverside
Beloniformes					
	Belonidae				
		Ablennes	*hians*	(Valenciennes, 1846)	Flat Needlefish
		Platybelone	*argalus*	(Bennett, 1832)	Keeled Needlefish
		Strongulura	*incisa*	(Valenciennes, 1846)	Reef Needlefish
		Strongulura	*leiura*	(Bleeker, 1850)	Banded Needlefish
		Strongylura	*urvillii*	(Valenciennes, 1846)	
		Tylosurus	*acus*	(Bleeker, 1850)	Keel-jawed Needle Fish
		Tylosurus	*crocodilus*	(Peron & Leseur, 1821)	Hound Needlefish
		Tylosurus	*punctulatus*	(Günther, 1872)	Spotted Long-tom
	Exocoetidae				

	Cheilopogon	*abei*	Parin, 1996	
	Cheilopogon	*arcticeps*	(Günther, 1866)	White-finned Flyginfish
	Cheilopogon	*atrisignis*	(Jenkins, 1903)	Glider Flyingfish
	Cheilopogon	*cyanopterus*	(Valenciennes, 1847)	Margined Flyingfish
	Cheilopogon	*intermedius*	Parin, 1961	
	Cheilopogon	*spilonotopterus*	(Bleeker, 1865)	Stained Flyingfish
	Cheilopogon	*spilopterus*	(Valeciennes, 1847)	Manyspotted Flyingfish
	Cheilopogon	*suttoni*	(Whitley & Colefax, 1938)	Sutton's Flyingfish
	Cheilopogon	*unicolor*	(Valenciennes, 1847)	
	Cypselurus	*angusticeps*	Nichols & Breder, 1935	Narrowhead Flyingfish
	Cypselurus	*naresii*	(Günther, 1889)	Pharao Flyingfish
	Cypselurus	*oligolepis*	(Bleeker, 1865)	Largescale Flyingfish
	Cypselurus	*opisthopus*	(Bleeker, 1865)	Black-finned Flyingfish
	Cypselurus	*poecilopterus*	(Valenciennes, 1847)	Yello-wing Flyingfish
	Exocoetus	*monocirrhus*	Richardson, 1846	Barbel Flyingfish
	Exocoetus	*volitans*	Linnaeus, 1758	Tropical Two-wing Flyingfish
	Hirundichthys	*oxycephalus*	(Bleeker, 1852)	Bony Flyingfish
	Parexocoetus	*brachypterus*	(Richardson, 1846)	Sailfin Flyingfish
	Parexocoetus	*mento*	(Valenciennes, 1847)	African Sailfin Flyingfish
	Prognichthys	*brevipinnis*	(Valenciennes, 1846)	Shortfin Flyingfish
	Prognichthys	*sealei*	Abe, 1955	Sailor Flyingfish
Hemiramphidae				
	Euleptorhamphus	*viridis*	(van Hasselt, 1823)	Ribbon Halfbeak
	Hemiramphus	*archipelagicus*	Collette & Parin, 1978	Jumping Halfbeak
	Hemiramphus	*far*	(Forsskål, 1775)	Blackbarred Halfbeak
	Hemiramphus	*lutkei*	Valenciennes, 1847	Lutke's Halfbeak
	Hyporhamphus	*affinis*	(Günther, 1866)	Tropical Halfbeak
	Hyporhamphus	*balinensis*	(Bleeker, 1859)	Balinese Garfish

		Hyporhamphus	*dussumieri*	(Valenciennes, 1847)	Dussumier's Halfbeak
		Hyporhamphus	*neglectissimus*	Parin *et al.*, 1980	Black-tipped Garfish
		Hyporhamphus	*quoyi*	(Valenciennes, 1847)	Quoy's Garfish
		Oxyporhamphus	*convexus*	(Weber & de Beaufort, 1922)	Halfbeak
		Oxyporhamphus	*micropterus*	(Valenciennes, 1847)	Bigwing Halfbeak
		Rhynchorhamphus	*georgii*	(Valenciennes, 1847)	Long Billed Half Beak
		Zenarchopterus	*dispar*	(Valenciennes, 1847)	Feathered River-garfish
		Zenarchopterus	*dunckeri*	Mohr, 1926	Duncker's River Garfish
Beryciformes					
	Anomalopidae				
		Anomalops	*katoptron*	(Bleeker, 1856)	Splitfin Flashlightfish
	Holocentridae				
		Myripristis	*adusta*	Bleeker, 1853	Shadowfin Soldierfish
		Myripristis	*berndti*	Jordan & Evermann, 1903	Blotcheye Soldierfish
		Myripristis	*hexagonatus*	(Lacepède, 1802)	Doubletooth Soldierfish
		Myripristis	*kuntee*	Valenciennes, 1831	Shoulderbar Soldierfish
		Myripristis	*murdjan*	(Forsskål, 1775)	Pinecone Soldierfish
		Myripristis	*pralinia*	Cuvier, 1829	Scarlet Soldierfish
		Myripristis	*violacea*	Bleeker, 1851	Lattice Soldierfish
		Myripristis	*vittata*	Valenciennes, 1831	Whitetip Soldierfish
		Neoniphon	*argenteus*	(Valenciennes, 1831)	Clearfin Squirrelfish
		Neoniphon	*opercularis*	(Valenciennes, 1831)	Blackfin Squirrelfish
		Neoniphon	*sammara*	(Forsskål, 1775)	Sammara Squirrelfish
		Sargocentron	*caudimaculatum*	(Ruppell, 1838)	Silverspot Squirrelfish
		Sargocentron	*cornutum*	(Bleeker, 1853)	Threespot Squirrelfish
		Sargocentron	*diadema*	(Lacepède, 1802)	Crown Squirrelfish
		Sargocentron	*melanospilos*	(Bleeker, 1858)	Blackblotch Squirrelfish
		Sargocentron	*microstoma*	(Günther, 1859)	Smallmouth Squirrelfish

		Sargocentron	*praslin*	(Lacepède, 1802)	Dark-striped Squirrelfish
		Sargocentron	*rubrum*	(Forsskål, 1775)	Redcoat
		Sargocentron	*spiniferum*	(Forsskål, 1775)	Sabre Squirrelfish
		Sargocentron	*tiere*	(Cuvier, 1829)	Blue Lined Squirrelfish
		Sargocentron	*tieroides*	(Bleeker, 1853)	Pink Squirrelfish
		Sargocentron	*violaceum*	(Bleeker, 1853)	Violet Squirrelfish
Gasterosteiformes					
	Solenostomidae				
		Solenostomus	*paradoxus*	(Pallas, 1770)	Harlequin Ghost Pipefish
	Syngnathidae				
		Corythoichthys	*flavofasciatus*	(Ruppell, 1838)	Network Pipefish
		Corythoichthys	*haematopterus*	(Bleeker, 1851)	Messmate Pipefish
		Corythoichthys	*intestinalis*	(Ramsay, 1881)	Scribbled Pipefish
		Corythoichthys	*ocellatus*	Herald, 1953	Ocellated Pipefish
		Doryrhamphus	*dactyliophorus*	(Bleeker, 1853)	Ringed Pipefish
		Doryrhamphus	*excisus*	Kaup, 1856	Bluestripe Pipefish
		Hippocampus	*histrix*	Kaup, 1856	Thorny Seahorse
		Syngnathoides	*biaculeatus*	(Bloch, 1785)	Alligator pipefish
	Aulostomidae				
		Aulostomus	*chinenesis*	(Linnaeus, 1766)	Chinese Trumpetfish
	Fistulariidae				
		Fistularia	*commersonii*	Ruppell, 1838	Bluespotted Cornetfish
	Macrorhamphosidae				
		Macrorhamphosus	*scolopax*	(Linnaeus, 1758)	Longspine Snipefish
	Centriscidae				
		Aeoliscus	*strigatus*	(Günther, 1861)	Razorfish
		Centriscus	*cristatus*	(De Vis, 1885)	Smooth Razor-fish
		Centriscus	*scutatus*	Linnaeus, 1758	Grooved Razor-fish

Scorpaeniformes				
	Dactylopteridae			
		Dactyloptena	*orientalis*	(Cuvier, 1829)	Oriental Flying Gurnard
	Scorpaenidae			
		Dendrochirus	*brachypterus*	(Cuvier, 1829)	Shortfin Turkeyfish
		Dendrochirus	*zebra*	(Cuvier, 1829)	Zebra Turkeyfish
		Inimicus	*didactylus*	(Pallas, 1796)	Bearded Ghoul
		Parascorpaena	*picta*	(Cuvier, 1829)	Northern Scorpionfish
		Pterois	*antennata*	(Bloch, 1787)	Broadbarred Firefish
		Pterois	*radiata*	Cuvier, 1829	Radial Firefish
		Pterois	*volitans*	(Linnaeus, 1758)	Red Lionfish
		Rhinopias	*aphanes*	Eschmeyer, 1973	Lacy Scorpionfish
		Scorpaenodes	*guamensis*	(Quoy & Gaimard, 1824)	Guam Scorpionfish
		Scorpaenopsis	*brevifrons*	Eschmeyer & Randall, 1975	Bigmouth Scorpionfish
		Scorpaenopsis	*diabolus*	(Cuvier, 1829)	False Stonefish
		Scorpaenopsis	*oxycephala*	(Bleeker, 1849)	Tassled Scorpionfish
		Sebastapistes	*cyanostigma*	(Bleeker, 1856)	Yellowspotted Scorpionfish
		Sebastapistes	*mauritiana*	(Cuvier, 1829)	Spineblotch Scorpionfish
		Taenianotus	*triacanthus*	Lacepède, 1802	Leaf Scorpionfish
		Tetraroge	*niger*	(Cuvier, 1829)	
	Caracanthidae			
		Caracanthus	*maculatus*	(Gray, 1831)	Spotted Coral Croucher
	Synanceiidae			
		Synanceia	*verrucosa*	Bloch & Schneider, 1801	Stonefish
	Tetrarogidae			
		Ablabys	*taenianotus*	(Cuvier, 1829)	Cockatoo Waspfish
		Neovespicula	*depressifrons*	(Richardson, 1848)	Leaf Goblinfish
	Platycephalidae			

		Cymbacephalus	*beauforti*	(Knapp, 1973)	Crocodile Fish
		Rogadius	*pristiger*	(Cuvier, 1829)	Thorny Flathead
		Sunagocia	*otaitensis*	(Cuvier, 1829)	Fringelip Flathead
		Thysanophrys	*chiltonae*	Schultz, 1966	Longsnout Flathead
Perciformes					
	Ambassidae				
		Ambassis	*nalua*	(Hamilton, 1822)	Scalloped Perchlet
	Serranidae				
		Aethaloperca	*rogaa*	(Forsskål, 1775)	Redmouth Grouper
		Anyperodon	*leucogrammicus*	(Valenciennes, 1828)	Slender Grouper
		Belonoperca	*chabanaudi*	Fowler & Bean, 1930	Arrowhead Soapfish
		Cephalopholis	*argus*	Bloch & Schneider, 1801	Peacock Hind
		Cephalopholis	*boenak*	(Bloch, 1790)	Chocolate Hind
		Cephalopholis	*cyanostigma*	(Valenciennes, 1828)	Bluespotted Hind
		Cephalopholis	*leopardus*	(Lacepède, 1801)	Leopard Hind
		Cephalopholis	*microprion*	(Bleeker, 1852)	Freckled Hind
		Cephalopholis	*miniata*	(Forsskål, 1775)	Coral Hind
		Cephalopholis	*polleni*	(Bleeker, 1868)	Harlequin Hind
		Cephalopholis	*sexmaculata*	(Ruppell, 1830)	Sixblotch Hind
		Cephalopholis	*sonnerati*	(Valenciennes, 1828)	Tomato Hind
		Cephalopholis	*spiloparaea*	(Valenciennes, 1828)	Strawberry Hind
		Cephalopholis	*urodeta*	(Forster, 1801)	Darkfin Hind
		Cromileptes	*altivelis*	(Valenciennes, 1828)	Humpback Grouper
		Diploprion	*bifasciatum*	Cuvier, 1828	Barred Soapfish
		Epinephelus	*amblycephalus*	(Bleeker, 1857)	Banded Grouper
		Epinephelus	*areolatus*	(Forsskål, 1775)	Areolate Grouper
		Epinephelus	*chlorostigma*	(Valenciennes, 1828)	Brownspotted Grouper
		Epinephelus	*coeruleopunctatus*	(Bloch, 1790)	Whitespotted Grouper

Epinephelus	*coioides*	(Hamilton, 1822)	Orange-spotted Grouper
Epinephelus	*corallicola*	(Valenciennes, 1828)	Coral Grouper
Epinephelus	*cyanopodus*	(Richardson, 1846)	Speckled Blue Grouper
Epinephelus	*epistictus*	(Temminck & Schlegel, 1842	Dotted Grouper
Epinephelus	*fasciatus*	(Forsskål, 1775)	Blacktip Grouper
Epinephelus	*fuscoguttatus*	(Forsskål, 1775)	Brown-marbled Grouper
Epinephelus	*hexagonatus*	(Forster, 1801)	Starspotted Grouper
Epinephelus	*howlandi*	(Günther, 1873)	Blacksaddle Grouper
Epinephelus	*lanceolatus*	(Bloch, 1790)	Giant Grouper
Epinephelus	*maculatus*	(Bloch, 1790)	Highfin Grouper
Epinephelus	*merra*	Bloch, 1793	Honeycomb Grouper
Epinephelus	*miliaris*	(Valenciennes, 1830)	Netfin Grouper
Epinephelus	*ongus*	(Bloch, 1790)	White-streaked Grouper
Epinephelus	*polyphekadion*	(Bleeker, 1849)	Camouflage Grouper
Epinephelus	*polystigma*	(Bleeker, 1853)	White-dotted Grouper
Epinephelus	*quoyanus*	(Valenciennes, 1830)	Longfin Grouper
Epinephelus	*rivulatus*	(Valenciennes, 1830)	Halfmoon Grouper
Epinephelus	*sexfasciatus*	(Valenciennes, 1828)	Sixbar Grouper
Epinephelus	*spilotoceps*	Schultz, 1953	Foursaddle Grouper
Epinephelus	*tauvina*	(Forsskål, 1775)	Greasy Grouper
Epinephelus	*undulosus*	(Quoy & Gaimard, 1824)	Wavy-lined Grouper
Gracila	*albomarginata*	(Fowler & Bean, 1930)	Masked Grouper
Grammistes	*sexlineatus*	(Thunberg, 1792)	Sixline Soapfish
Luzonichthys	*waitei*	(Fowler, 1931)	Waite's Splitfin
Plectropomus	*areolatus*	(Ruppell, 1830)	Squaretail Coralgrouper
Plectropomus	*laevis*	(Lacepède, 1801)	Blacksaddled Coralgrouper
Plectropomus	*leopardus*	(Lacepède, 1802)	Leopard Coralgrouper
Plectropomus	*maculatus*	(Bloch, 1790)	Spotted Coralgrouper

	Plectropomus	*oligacanthus*	(Bleeker, 1854)	Highfin Coralgrouper
	Pseudanthias	*bicolor*	(Randall, 1979)	Bicolor Anthias
	Pseudanthias	*cooperi*	(Regan, 1902)	Red-bar Anthias
	Pseudanthias	*dispar*	(Herre, 1955)	Peach Fairy Basslet
	Pseudanthias	*huchtii*	(Bleeker, 1857)	Red-cheecked Fairy Basslet
	Pseudanthias	*hypselosoma*	Bleeker, 1878	Stocky Anthias
	Pseudanthias	*luzonensis*	(Katayama & Masuda, 1983)	Yellowlined Anthias
	Pseudanthias	*parvirostris*	(Randall & Lubbock, 1981)	Sunset Anthias
	Pseudanthias	*pleurotaenia*	(Bleeker, 1857)	Square-spot Fairy Basslet
	Pseudanthias	*rubrizonatus*	(Randall, 1983)	Red-belted Anthias
	Pseudanthias	*smithvanizi*	(Randall & Lubbock, 1981)	Princess Anthias
	Pseudanthias	*squamipinnis*	(Peters, 1855)	Sea Goldie
	Pseudanthias	*tuka*	(Herre & Montalban, 1927)	Yellowstriped Fairy Basslet
	Variola	*albimarginata*	Baissac, 1953	White-edged Lyretail
	Variola	*louti*	(Forsskål, 1775)	Yellow-edged Lyretail
Centrogenyidae				
	Centrogenys	*vaigiensis*	(Quoy & Gaimard, 1824)	False Scorpionfish
Pseudochromidae				
	Cypho	*purpurascens*	(De Vis, 1884)	Oblique-lined Dottyback
	Pictichromis	*paccagnellae*	(Axelrod, 1973)	Royal Dottyback
	Pseudochromis	*bitaeniatus*	(Fowler, 1931)	Double-striped Dottyback
	Pseudochromis	*cyanotaenia*	Bleeker, 1857	Surge Dottyback
	Pseudochromis	*fuscus*	Muller & Troschel, 1849	Brown Dottyback
	Pseudochromis	*marshallensis*	Schultz, 1953	Marshall Islands Dottyback
	Pseudoplesiops	*typus*	Bleeker, 1858	Hidden Basslet
Plesiopidae				
	Calloplesiops	*altivelis*	(Steindachner, 1903)	Comet
Priacanthidae				

	Cookeolus	*japonicus*	(Cuvier, 1829)	Longfinned Bullseye
	Heteropriacanthus	*cruentatus*	(Lacepède, 1801)	Glasseye
	Priacanthus	*blochii*	Bleeker, 1853	Paeony Bulleye
	Priacanthus	*hamrur*	(Forsskål, 1775)	Moontail Bullseye
	Priacanthus	*macracanthus*	Cuvier, 1829	Red Bigeye
	Pristigenys	*niphonia*	(Cuvier, 1829)	Japanese Bigeye
Apogonidae				
	Apogon	*angustatus*	(Smith & Radcliffe, 1911)	Broadstriped Cardinalfish
	Apogon	*apogonoides*	(Bleeker, 1856)	Short-tooth Cardinalfish
	Apogon	*aureus*	(Lacepède, 1802)	Ring-tailed Cardinalfish
	Apogon	*compressus*	(Smith & Radcliffe, 1911)	Ochre-striped Cardinalfish
	Apogon	*cyanosoma*	Bleeker, 1853	Yellowstriped Cardinalfish
	Apogon	*dispar*	Fraser & Randall, 1976	Redspot Cardinalfish
	Apogon	*exostigma*	(Jordan & Starks, 1906)	Narrowstripe Cardinalfish
	Apogon	*fraenatus*	Valenciennes, 1832	Bridled Cardinalfish
	Apogon	*guamensis*	Valenciennes, 1832	Guam Cardinalfish
	Apogon	*hartzfeldii*	Bleeker, 1852	Hartzfeld's Cardinalfish
	Apogon	*kallopterus*	Bleeker, 1856	Iridescent Cardinalfish
	Apogon	*lateralis*	Valenciennes, 1832	Humpback Cardinal
	Apogon	*multilineatus*	(Bleeker, 1874)	Many-lined Cardinalfish
	Apogon	*nanus*	Allen, Kuiter & Randall, 1994	
	Apogon	*neotes*	Allen, Kuiter & Randall, 1994	Mini Cardinalfish
	Apogon	*nigrofasciatus*	Lachner, 1953	Blackstripe Cardinalfish
	Apogon	*novemfasciatus*	Cuvier, 1828	Sevenstriped Cardinalfish
	Apogon	*ocellicaudus*	Allen, Kuiter & Randall, 1994	
	Apogon	*sangiensis*	Bleeker, 1857	Sangi Cardinalfish
	Apogon	*selas*	Randall & Hayashi, 1990	Meteor Cardinalfish
	Apogon	*taeniophorus*	Regan, 1908	Reef-flat Cardinalfish

	Apogon	*trimaculatus*	Cuvier, 1828	Three-spot Cardinalfish
	Apogon	*ventrifasciatus*	Allen, Kuiter & Randall, 1994	
	Archamia	*biguttata*	Lachner, 1951	Twinspot Cardinalfish
	Archamia	*fucata*	(Cantor, 1849)	Orangelined Cardinalfish
	Archamia	*macroptera*	(Cuvier, 1828)	Dusky-tailed Cardinalfish
	Archamia	*zosterophora*	(Bleeker, 1856)	Blackbelted Cardinalfish
	Cheilodipterus	*alleni*	Gon, 1993	
	Cheilodipterus	*artus*	Smith, 1961	Wolf Cardinalfish
	Cheilodipterus	*macrodon*	(Lacepede, 1802)	Large Toothed Cardinalfish
	Cheilodipterus	*quinquelineatus*	Cuvier, 1828	Five-lined Cardinalfish
	Cheilodipterus	*singapurensis*	Bleeker, 1859-60	Truncate Cardinalfish
	Foa	*brachygramma*	(Jenkins, 1903)	Weed Cardinalfish
	Fowleria	*variegata*	(Valenciennes, 1832)	Variegated Cardinalfish
	Nectamia	*fusca*	(Quoy & Gaimard, 1825)	
	Nectamia	*savayensis*	(Gunther, 1872)	Samoan Cardinalfish
	Pseudamia	*zonata*	Randall, Lachner & Fraser, 1985	Paddlefish Cardinalfish
	Rhabdamia	*cypselura*	Weber, 1909	Swallowtail Cardinalfish
	Siphamia	*jebbi*	Allen, 1993	
	Siphamia	*versicolor*	(Smith & Radcliffe, 1911)	Sea Urchin Cardinalfish
	Sphaeramia	*nematoptera*	(Bleeker, 1856)	Pajama Cardinalfish
	Sphaeramia	*orbicularis*	(Cuvier, 1828)	Orbiculate Cardinalfish
	Zoramia	*fragilis*	(Smith, 1961)	Fragile Cardinalfish
	Zoramia	*leptacantha*	(Bleeker, 1856-57)	Threadfin Cardinalfish
Sillaginidae				
	Sillago	*macrolepis*	Bleeker, 1859	Large-scale Sillago
	Sillago	*sihama*	(Forsskål, 1775)	Silver Sillago
Malacanthidae				
	Hoplolatilus	*cuniculus*	Randall & Dooley, 1974	Dusky Tilefish

	Hoplolatilus	*starcki*	Randall & Dooley, 1974	Starck's Tilefish
	Malacanthus	*brevirostris*	Guichenot, 1848	Quakerfish
	Malacanthus	*latovittatus*	(Lacepède, 1801)	Blue Blanquillo
Echeneidae				
	Echeneis	*naucrates*	Linnaeus, 1758	Live Sharksucker
Rachycentridae				
	Rachycentron	*canadum*	(Linnaeus, 1766)	Cobia
Coryphaenidae				
	Coryphaena	*equiselis*	Linnaeus, 1758	Pompano Dolphinfish
	Coryphaena	*hippurus*	Linnaeus, 1758	Common Dolphinfish
Carangidae				
	Alectis	*ciliaris*	(Bloch, 1787)	African Pompano
	Alepes	*kleinii*	(Bloch, 1793)	Razorbelly Scad
	Carangoides	*bajad*	(Forsskål, 1775)	Orangespotted Trevally
	Carangoides	*ferdau*	(Forsskål, 1775)	Blue Trevally
	Carangoides	*fulvoguttatus*	(Forsskål, 1775)	Yellowspotted Trevally
	Carangoides	*oblongus*	(Cuvier, 1833)	Coachwhip Trevally
	Carangoides	*orthogrammus*	(Jordan & Gilbert, 1882)	Island Trevally
	Carangoides	*plagiotaenia*	Bleeker, 1857	Barcheek Trevally
	Carangoides	*tala*	(Cuvier, 1832)	Barred Queenfish
	Carangoides	*tol*	(Cuvier, 1832)	Needlescaled Queenfish
	Caranx	*ignobilis*	(Forsskål, 1775)	Giant Trevally
	Caranx	*lugubris*	Poey, 1860	Black Jack
	Caranx	*melampygus*	Cuvier, 1833	Bluefin Trevally
	Caranx	*papuensis*	Alleyne & MacLeay, 1877	Brassy Trevally
	Caranx	*sexfasciatus*	Quoy & Gaimard, 1825	Bigeye Trevally
	Caranx	*tille*	Cuvier, 1833	Tille Trevally
	Decapterus	*macarellus*	(Cuvier, 1833)	Mackerel Scad

	Decapterus	*macrosoma*	Bleeker, 1851	Shortfin Scad
	Elagatis	*bipinnulata*	(Quoy & Gaimard, 1825)	Rainbow Runner
	Gnathanodon	*speciosus*	(Forsskål, 1775)	Golden Trevally
	Scomberoides	*commersonnianus*	Lacepède, 1801	Talang Queenfish
	Scomberoides	*lysan*	(Forsskål, 1775)	Doublespotted Queenfish
	Selar	*boops*	(Cuvier, 1833)	Oxeye Scad
	Selar	*crumenophthalmus*	(Bloch, 1793)	Bigeye Scad
	Selaroides	*leptolepis*	(Cuvier, 1833)	Yellowstripe Scad
	Seriola	*rivoliana*	Valenciennes, 1833	Almaco Jack
	Trachinotus	*baillonii*	(Lacepède, 1801)	Smallspotted Dart
	Trachinotus	*blochii*	(Lacepède, 1801)	Snubnose Pompano
	Trachinotus	*botla*	(Shaw, 1803)	Largespotted Dart
Menidae				
	Mene	*maculata*	(Bloch & Schneider, 1801)	Moonfish
Leiognathidae				
	Equulites	*leuciscus*	(Günther, 1860)	Whipfin Ponyfish
	Eubleekeria	*splendens*	(Cuvier, 1829)	Splendid Ponyfish
	Gazza	*achlamys*	Jordan & Starks, 1917	Smalltoothed Ponyfish
	Gazza	*minuta*	(Bloch, 1795)	Toothpony
	Leiognathus	*equulus*	(Forsskål, 1775)	Common Ponyfish
	Leiognathus	*fasciatus*	(Lacepède, 1803)	Striped Ponyfish
	Leiognathus	*longispinis*	(Valenciennes, 1835)	
	Nuchequula	*gerreoides*	(Bleeker, 1851)	Decorated Ponyfish
	Photopectoralis	*bindus*	(Valenciennes, 1835)	Orangefin Ponyfish
	Secutor	*ruconius*	(Hamilton, 1822)	Deep Pugnose Ponyfish
Lutjanidae				
	Aphareus	*furca*	(Lacepède, 1801)	Small Toothed Jobfish
	Aphareus	*rutilans*	Cuvier, 1830	Rusty Jobfish

Aprion	*virescens*	Valenciennes, 1830	Green Jobfish
Etelis	*carbunculus*	Cuvier, 1828	Ruby Snapper
Etelis	*coruscans*	Valenciennes, 1862	Flame Snapper
Etelis	*radiosus*	Anderson, 1981	Scarlet Snapper
Lipocheilus	*carnolabrum*	(Chan, 1970)	Tang's Snapper
Lutjanus	*arentimaculatus*	(Forsskål, 1775)	Mangrove Red Snapper
Lutjanus	*biguttatus*	(Valenciennes, 1830)	Two-spot Banded Snapper
Lutjanus	*bohar*	(Forsskål, 1775)	Two-spot Red Snapper
Lutjanus	*boutton*	(Lacepède, 1802)	Moluccan Snapper
Lutjanus	*carponotatus*	(Richardson, 1842)	Spanish Flag Snapper
Lutjanus	*ehrenbergii*	(Peters, 1869)	Blackspot Snapper
Lutjanus	*erythropterus*	Bloch, 1790	Crimson Snapper
Lutjanus	*fulviflamma*	(Forsskål, 1775)	Dory Snapper
Lutjanus	*fulvus*	(Forster, 1801)	Blacktail Snapper
Lutjanus	*fuscescens*	(Valenciennes, 1830)	Freshwater Snapper
Lutjanus	*gibbus*	(Forsskål, 1775)	Humpback Red Snapper
Lutjanus	*johnii*	(Bloch, 1792)	John's Snapper
Lutjanus	*kasmira*	(Forsskål, 1775)	Common Bluestripe Snapper
Lutjanus	*lunulatus*	(Park, 1797)	Lunartail Snapper
Lutjanus	*lutjanus*	Bloch, 1790	Bigeye Snapper
Lutjanus	*madras*	(Valenciennes, 1831)	Indian Snapper
Lutjanus	*malabaricus*	(Bloch & Schneider, 1801)	Malabar Blood Snapper
Lutjanus	*maxweberi*	Popta, 1921	Pygmy Snapper
Lutjanus	*mizenkoi*	Allen & Talbot, 1985	Samoan Snapper
Lutjanus	*monostigma*	(Cuvier, 1828)	Onespot Snapper
Lutjanus	*quinquelineatus*	(Bloch, 1790)	Five-lined Snapper
Lutjanus	*rivulatus*	(Cuvier, 1828)	Blubberlip Snapper
Lutjanus	*rufolineatus*	(Valenciennes, 1830)	Yellow-lined Snapper

	Lutjanus	*russellii*	(Bleeker, 1849)	Russell's Snapper
	Lutjanus	*sebae*	(Cuvier, 1816)	Emporer Red Snapper
	Lutjanus	*semicinctus*	Quoy & Gaimard, 1824	Black-banded Snapper
	Lutjanus	*timorensis*	(Quoy & Gaimard, 1824)	Timor Snapper
	Lutjanus	*vitta*	(Quoy & Gaimard, 1824)	Brownstripe Red Snapper
	Macolor	*macularis*	Fowler, 1931	Midnight Snapper
	Macolor	*niger*	(Forsskål, 1775)	Black and White Snapper
	Paracaesio	*sordida*	Abe & Shinohara, 1962	Dirty Ordure Snapper
	Paracaesio	*xanthura*	(Bleeker, 1869)	Yellowtail Blue Snapper
	Pinjalo	*lewisi*	Randall, Allen & Anderson, 1987	Slender Pinjalo
	Pinjalo	*pinjalo*	(Bleeker, 1850)	Pinjalo
	Pristipomoides	*argyrogrammicus*	(Valenciennes, 1832)	Ornate Jobfish
	Pristipomoides	*auricilla*	(Jordan *et al.* , 1927)	Goldflag Jobfish
	Pristipomoides	*filamentosus*	(Valenciennes, 1830)	Crimson Jobfish
	Pristipomoides	*flavipinnis*	Shinohara, 1963	Golden Eye Jobfish
	Pristipomoides	*multidens*	(Day, 1871)	Goldbanded Jobfish
	Pristipomoides	*seiboldii*	(Bleeker, 1854)	Lavender Jobfish
	Pristipomoides	*typus*	Bleeker, 1852	Sharptooth Jobfish
	Pristipomoides	*zonatus*	(Valenciennes, 1830)	Oblique-banded Snapper
	Symphorichthys	*spilurus*	(Günther, 1874)	Sailfin Snapper
	Symphorus	*nematophorus*	(Bleeker, 1860)	Chinamanfish
Bramidae				
	Brama	*dussumieri*	Cuvier, 1831	Lesser Bream
	Brama	*orcini*	Cuvier, 1831	Bigtooth Pomfret
	Pteraclis	*aesticola*	(Jordan & Snyder, 1901)	Pacific Fanfish
	Pterycombus	*petersii*	(Hilgendorf, 1878)	Prickly Pomfret
	Taractes	*rubescens*	(Jordan & Evermann, 1887)	Pomfret
	Taractichthys	*steindachneri*	(Doderlein, 1883)	Sickle Pomfret

Caesionidae				
	Caesio	*caerulaurea*	Lacepède, 1801	Blue and Gold Fusilier
	Caesio	*cuning*	(Bloch, 1791)	Redbelly Yellowtail Fusilier
	Caesio	*lunaris*	Cuvier, 1830	Lunar Fusilier
	Caesio	*teres*	Seale, 1906	Yellow and Blueback Fusilier
	Dipterygonotus	*balteatus*	(Valenciennes, 1830)	Mottled Fusilier
	Gymnocaesio	*gymnoptera*	(Bleeker, 1856)	Slender Fusilier
	Pterocaesio	*chrysozona*	(Cuvier, 1830)	Goldband Fusilier
	Pterocaesio	*digramma*	(Bleeker, 1864)	Double-lined Fusilier
	Pterocaesio	*lativittata*	Carpenter, 1987	Wide-band Fusilier
	Pterocaesio	*marri*	Schultz, 1953	Marr's Fusilier
	Pterocaesio	*pisang*	(Bleeker, 1853)	Banana Fusilier
	Pterocaesio	*tessellata*	Carpenter, 1987	One-stripe Fusilier
	Pterocaesio	*tile*	(Cuvier, 1830)	Dard-banded Fusilier
	Pterocaesio	*trilineata*	Carpenter, 1987	Three-stripe Fusilier
Lobotidae				
	Lobotes	*surnamensis*	(Bloch, 1790)	Atlantic Tripletail
Datnioididae				
	Datnioides	*campbelli*	Whitley, 1939	
Gerreidae				
	Gerres	*argyreus*	(Forster, 1801)	Common Mojarra
	Gerres	*erythrourus*	(Bloch, 1791)	Deep-bodied Mojarra
	Gerres	*filamentosus*	Cuvier, 1829	Whipfin Silverbiddy
	Gerres	*kapas*	Bleeker, 1851	Singapore Silver-biddy
	Gerres	*longirostris*	Cuvier, 1830	Longtail Silverbiddy
	Gerres	*oblongus*	(Lacepède, 1801)	Slender Silverbiddy
	Gerres	*oyena*	(Forsskål, 1775)	Common Silver-biddy
	Pentaprion	*longimanus*	(Cantor, 1849)	Longfin Mojarra

Haemulidae				
	Diagramma	*pictum*	(Thunberg, 1792)	Painted Sweetlips
	Plectorhinchus	*chaetodonoides*	Lacepède, 1801	Harlequin Sweetlips
	Plectorhinchus	*flavomaculatus*	(Cuvier, 1830)	Lemon Sweetlip
	Plectorhinchus	*gibbosus*	(Lacepède, 1802)	Harry Hotlips
	Plectorhinchus	*lineatus*	(Linnaeus, 1758)	Yellowbanded Sweetlips
	Plectorhinchus	*obscurus*	(Günther, 1872)	Giant Sweetlips
	Plectorhinchus	*orientalis*	(Bloch, 1793)	Oriental Sweetlips
	Plectorhinchus	*picus*	(Cuvier, 1830)	Painted Sweetlips
	Plectorhinchus	*polytaenia*	(Bleeker, 1852)	Ribboned Sweetlips
	Plectorhinchus	*vittatus*	(Linnaeus, 1758)	Indian Ocean Oriental Sweetlips
	Pomadasys	*argyreus*	(Valenciennes, 1833)	Bluecheek Silver Grunt
	Pomadasys	*kaakan*	(Cuvier, 1830)	Javelin Grunter
	Pomadasys	*maculatus*	(Bloch, 1793)	Saddle Grunt
Sparidae				
	Acanthopagrus	*berda*	(Forsskål, 1775)	Picnic Seabream
	Argyrops	*spinifer*	(Forsskål, 1775)	King Soldierbream
Lethrinidae				
	Gnathodentex	*aureolineatus*	(Lacepède, 1802)	Striped Large-eye Bream
	Gymnocranius	*elongatus*	Senta, 1973	Forktail Large-eye Bream
	Gymnocranius	*euanus*	(Günther, 1879)	Japanese Large-eye Bream
	Gymnocranius	*grandoculis*	(Valenciennes, 1830)	Blue-lined Large-eye Bream
	Lethrinus	*amboinensis*	Bleeker, 1854	Ambon Emporer
	Lethrinus	*atkinsoni*	Seale, 1910	Pacific Yellowtail Emporer
	Lethrinus	*erythracanthus*	Valenciennes, 1830	Orange-spotted Emporer
	Lethrinus	*erythropterus*	Valenciennes, 1830	Longfin Emporer
	Lethrinus	*genivittatus*	Valenciennes, 1830	Longspine Emporer
	Lethrinus	*harak*	(Forsskål, 1775)	Thumbprint Emporer

	Lethrinus	*laticaudis*	Alleyne & MacLeay, 1877	Grass Emporer
	Lethrinus	*lentjan*	(Lacepède, 1802)	Pink Ear Emporer
	Lethrinus	*microdon*	Valenciennes, 1830	Smalltooth Emporer
	Lethrinus	*nebulosus*	(Forsskål, 1775)	Spangled Emporer
	Lethrinus	*obsoletus*	(Forsskål, 1775)	Orange-striped Emporer
	Lethrinus	*olivaceus*	Valenciennes, 1830	Longface Emporer
	Lethrinus	*ornatus*	Valenciennes, 1830	Ornate Emporer
	Lethrinus	*rubrioperculatus*	Sato, 1978	Spotcheeck Emporer
	Lethrinus	*semicinctus*	Valenciennes, 1830	Black Blotch Emporer
	Lethrinus	*variegatus*	Valenciennes, 1830	Slender Emporer
	Lethrinus	*xanthochilus*	Klunzinger, 1870	Yellowlip Emporer
	Monotaxis	*grandoculis*	(Forsskål, 1775)	Humpnose Big-eye Bream
	Wattsia	*mossambica*	(Smith, 1957)	Mozambique Large-eye Bream
Nemipteridae				
	Nemipterus	*hexodon*	(Quoy & Gaimard, 1824)	Ornate Threadfin Bream
	Nemipterus	*peronii*	(Valenciennes, 1830)	Notchedfin Threadfin Bream
	Pentapodus	*caninus*	(Cuvier, 1830)	Small-toothed Whiptail
	Pentapodus	*paradiseus*	(Günther, 1859)	Paradise Whiptail
	Pentapodus	*trivittatus*	(Block, 1791)	Three-striped Whiptail
	Scolopsis	*affinis*	Peters, 1877	Peter's Monocle Bream
	Scolopsis	*bilineata*	(Bloch, 1793)	Two-lined Monocle Bream
	Scolopsis	*ciliata*	(Lacepède, 1802)	Saw-jawed Monocle Bream
	Scolopsis	*lineata*	Quoy & Gaimard, 1824	Striped Monocle Bream
	Scolopsis	*margaritifera*	(Cuvier, 1830)	Pearly Monocle Bream
	Scolopsis	*temporalis*	(Cuvier, 1830)	Bald-spot Monocle Bream
	Scolopsis	*trilineata*	Kner, 1868	Three-lined Monocle Bream
	Scolopsis	*xenochrous*	Günther, 1872	Oblique-barred Monocle Bream
Polynemidae				

	Filimanus	*sealei*	(Jordan & Richardson, 1910)	Eightfinger Threadfin
	Polydactylus	*microstomus*	(Bleeker, 1851)	Small-mouthed Threadfin
	Polydactylus	*plebeius*	(Broussonet, 1782)	Striped Threadfin
Sciaenidae				
	Atrobucca	*adusta*	Sasaki & Kailola, 1988	Scorched Croaker
	Johnius	*amblycephalus*	(Bleeker, 1855)	Bearded Croaker
	Johnius	*borneensis*	(Bleeker, 1851)	Sharpnose Hammer Croaker
	Johnius	*pacificus*	Hardenberg, 1941	Pacific Croaker
Mullidae				
	Mulloidichthys	*flavolineatus*	(Lacepède, 1801)	Yellowstripe Goatfish
	Mulloidichthys	*vanicolensis*	(Valenciennes, 1831)	Yellowfin Goatfish
	Parupeneus	*barberinoides*	(Bleeker, 1852)	Bicolor Goatfish
	Parupeneus	*barberinus*	(Lacepède, 1801)	Dash-and-dot Goatfish
	Parupeneus	*ciliatus*	(Lacepède, 1802)	Whitesaddle Goatfish
	Parupeneus	*crassilabris*	(Valenciennes, 1831)	Doublebar Goatfish
	Parupeneus	*cyclostomus*	(Lacepède, 1801)	Goldsaddle Goatfish
	Parupeneus	*heptacanthus*	(Lacepède, 1802)	Cinnabar Goatfish
	Parupeneus	*indicus*	(Shaw, 1803)	Indian Goatfish
	Parupeneus	*macronemus*	(Lacepède, 1801)	Longbarbel Goatfish
	Parupeneus	*multifasciatus*	(Quoy & Gaimard, 1825)	Manybar Goatfish
	Parupeneus	*pleurostigma*	(Bennett, 1831)	Sidespot Goatfish
	Parupeneus	*trifasciatus*	(Lacepède, 1801)	
	Upeneus	*moluccensis*	(Bleeker, 1855)	Goldband Goatfish
	Upeneus	*sulphureus*	Cuvier, 1829	Sulphur Goatfish
	Upeneus	*sundaicus*	(Bleeker, 1855)	Ochre-banded Goatfish
	Upeneus	*tragula*	Richardson, 1846	Freckled Goatfish
	Upeneus	*vittatus*	(Forsskål, 1775)	Yellowstripted Goatfish
Pempheridae				

	Parapriacanthus	*ransonneti*	Steindachner, 1870	Pigmy Sweeper
	Pempheris	*oualensis*	Cuvier, 1831	Silver Sweeper
	Pempheris	*vanicolensis*	Cuvier, 1831	Vanikoro Sweeper
Monodactylidae				
	Monodactylus	*argenteus*	(Linnaeus, 1758)	Silver Moony
Toxotidae				
	Toxotes	*jaculatrix*	(Pallas, 1767)	Banded Archerfish
Drepaneidae				
	Drepane	*longimana*	(Bloch & Schneider, 1801)	Concertina Fish
	Drepane	*punctata*	(Linnaeus, 1758)	Spotted Sicklefish
Chaetodontidae				
	Chaetodon	*aureofasciatus*	Macleay, 1878	Golden Butterflyfish
	Chaetodon	*auriga*	Forsskål, 1775	Threadfin Butterflyfish
	Chaetodon	*baronessa*	Cuvier, 1829	Eastern Triangular Butterflyfish
	Chaetodon	*bennetti*	Cuvier, 1831	Bluelashed Butterflyfish
	Chaetodon	*burgessi*	Allen & Starck, 1973	Burgess' Butterflyfish
	Chaetodon	*citrinellus*	Cuvier, 1831	Speckled Butterflyfish
	Chaetodon	*ephippium*	Cuvier, 1831	Saddle Butterflyfish
	Chaetodon	*guentheri*	Ahl, 1923	Crochet Butterflyfish
	Chaetodon	*kleinii*	Bloch, 1790	Sunburst Butterflyfish
	Chaetodon	*lineolatus*	Cuvier, 1831	Lined Butterflyfish
	Chaetodon	*lunula*	(Lacepède, 1802)	Raccoon Butterflyfish
	Chaetodon	*melannotus*	Bloch & Schneider, 1801	Blackback Butterflyfish
	Chaetodon	*mertensii*	Cuvier, 1831	Atoll Butterflyfish
	Chaetodon	*meyeri*	Bloch & Schneider, 1801	Scrawled Butterflyfish
	Chaetodon	*ocellicaudus*	Cuvier, 1831	Spot-tail Butterflyfish
	Chaetodon	*octofasciatus*	Bloch, 1787	Eightband Butterflyfish
	Chaetodon	*ornatissimus*	Cuvier, 1831	Ornate Butterflyfish

Chaetodon	*oxycephalus*	Bleeker, 1853	Spot-nape Butterflyfish
Chaetodon	*pelewensis*	Kner, 1868	Sunset Butterflyfish
Chaetodon	*plebeius*	Cuvier, 1831	Blueblotch Butterflyfish
Chaetodon	*punctatofasciatus*	Cuvier, 1831	Spotband Butterflyfish
Chaetodon	*rafflesi*	Anonymous [Bennett], 1830	Latticed Butterflyfish
Chaetodon	*rainfordi*	McCulloch, 1923	Rainford's Butterflyfish
Chaetodon	*reticulatus*	Cuvier, 1831	Mailed Butterflyfish
Chaetodon	*selene*	Bleeker, 1853	Yellow-dotted Butterflyfish
Chaetodon	*semeion*	Bleeker, 1855	Dotted Butterflyfish
Chaetodon	*speculum*	Cuvier, 1831	Mirror Butterflyfish
Chaetodon	*trifascialis*	Quoy & Gaimard, 1825	Chevron Butterflyfish
Chaetodon	*trifasciatus*	Park, 1797	Melon Butterflyfish
Chaetodon	*ulietensis*	Cuvier, 1831	Pac. Double-saddle Butterflyfish
Chaetodon	*unimaculatus*	Bloch, 1787	Teardrop Butterflyfish
Chaetodon	*vagabundus*	Linnaeus, 1758	Vagabond Butterflyfish
Chelmon	*rostratus*	(Linnaeus, 1758)	Copperband Butterflyfish
Coradion	*altivelis*	McCulloch, 1916	Highfin Coralfish
Coradion	*chrysozonus*	(Cuvier, 1831)	Goldengirdled Coralfish
Coradion	*melanopus*	(Cuvier, 1831)	Twospot Coralfish
Forcipiger	*flavissimus*	Jordan & McGregor, 1898	Longnose Butterflyfish
Forcipiger	*longirostris*	(Broussonet, 1782)	Longnose Butterflyfish
Hemitaurichthys	*polylepis*	(Bleeker, 1857)	Pyramid Butterflyfish
Heniochus	*acuminatus*	(Linnaeus, 1758)	Pennant Coralfish
Heniochus	*chrysostomus*	Cuvier, 1831	Threeband Pennantfish
Heniochus	*diphreutes*	Jordan, 1903	False Moorish Idol
Heniochus	*monoceros*	Cuvier, 1831	Masked Bannerfish
Heniochus	*singularius*	Smith & Radcliffe, 1911	Singular Bannerfish
Heniochus	*varius*	(Cuvier, 1829)	Horned Bannerfish

	Parachaetodon	*ocellatus*	(Cuvier, 1831)	Sixspine Butterflyfish
Pomacanthidae				
	Apolemichthys	*griffisi*	(Carlson & Taylor, 1981)	Griffis Angelfish
	Apolemichthys	*trimaculatus*	(Cuvier, 1831)	Threespot Angelfish
	Centropyge	*aurantia*	Randall & Wass, 1974	Golden Angelfish
	Centropyge	*bicolor*	(Bloch, 1787)	Bicolor Angelfish
	Centropyge	*bispinosa*	(Günther, 1860)	Twospined Angelfish
	Centropyge	*flavicauda*	Fraser-Brunner, 1933	Whitetail Angelfish
	Centropyge	*heraldi*	Woods & Schultz, 1953	Yellow Angelfish
	Centropyge	*loricula*	(Günther, 1874)	Flame Angel
	Centropyge	*multifasciata*	(Smith & Radcliffe, 1911)	Barred Angelfish
	Centropyge	*nox*	(Bleeker, 1853)	Midnight Angelfish
	Centropyge	*tibicen*	(Cuvier, 1831)	Keyhole Angelfish
	Centropyge	*vroliki*	(Bleeker, 1853)	Pearlscale Angelfish
	Chaetodontoplus	*mesoleucus*	(Bloch, 1787)	Vermiculated Angelfish
	Genicanthus	*lamarck*	(Lacepède, 1802)	Blackstriped Angelfish
	Genicanthus	*melanospilos*	(Bleeker, 1857)	Spotbreast Angelfish
	Genicanthus	*watanabei*	(Yasuda & Tominaga, 1970)	Blackedged Angelfish
	Pomacanthus	*annularis*	(Bloch, 1787)	Bluering Angelfish
	Pomacanthus	*imperator*	(Bloch, 1787)	Emporer Angelfish
	Pomacanthus	*navarchus*	(Cuvier, 1831)	Royal Angelfish
	Pomacanthus	*semicirculatus*	(Cuvier, 1831)	Semicircle Angelfish
	Pomacanthus	*sexstriatus*	(Cuvier, 1831)	Sixbar Angelfish
	Pomacanthus	*xanthometopon*	(Bleeker, 1853)	Yellowface Angelfish
	Pygoplites	*diacanthus*	(Boddaert, 1772)	Royal Angelfish
Kyphosidae				
	Kyphosus	*bigibbus*	Lacepède, 1801	Grey Sea Chub
	Kyphosus	*cinerascens*	(Forsskål, 1775)	Blue Seachub

	Kyphosus	*vaigiensis*	(Quoy & Gaimard, 1825)	Brassy Chub
Terapontidae				
	Mesopristes	*argenteus*	(Cuvier, 1829)	Silver Grunter
	Mesopristes	*cancellatus*	(Cuvier, 1829)	Tapiroid Grunter
	Pelates	*quadrilineatus*	(Bloch, 1790)	Fourlined Terapon
	Terapon	*jarbua*	(Forsskål, 1775)	Jarbua Terapon
	Terapon	*puta*	Cuvier, 1829	Small-scaled Terapon
	Terapon	*theraps*	Cuvier, 1829	Largescaled Therapon
Kuhliidae				
	Kuhlia	*marginata*	(Cuvier, 1829)	Dark-margined Flagtail
	Kuhlia	*mugil*	(Forster, 1801)	Barred Flagtail
	Kuhlia	*rupestris*	(Lacepède, 1802)	Rock Flagtail
Cirrhitidae				
	Amblycirrhitus	*bimacula*	(Jenkins, 1903)	Twospot Hawkfish
	Cirrhitichthys	*falco*	Randall, 1963	Dwarf Hawkfish
	Cirrhitichthys	*oxycephalus*	(Bleeker, 1855)	Coral Hawkfish
	Cirrhitus	*pinnulatus*	(Forster, 1801)	Stocky Hawkfish
	Cyprinochirrhites	*polyactis*	(Bleeker, 1874)	Swallowtail Hawkfish
	Oxycirrhites	*typus*	Bleeker, 1857	Longnose Hawkfish
	Paracirrhites	*arcatus*	(Cuvier, 1829)	Arc-eye Hawkfish
	Paracirrhites	*forsteri*	(Schneider, 1801)	Blackside Hawkfish
	Paracirrhites	*hemistictus*	(Gunther, 1874)	Whitespot Hawkfish
Pomacentridae				
	Abudefduf	*lorenzi*	Hensley & Allen, 1977	Black-tail Sergeant
	Abudefduf	*septemfasciatus*	(Cuvier, 1830)	Banded Sergeant
	Abudefduf	*sexfasciatus*	(Lacepède, 1801)	Scissortail Sergeant
	Abudefduf	*sordidus*	(Forsskål, 1775)	Blackspot Sergeant
	Abudefduf	*vaigiensis*	(Quoy & Gaimard, 1825)	Indo-Pacific Sergeant

Acanthochromis	*polyacanthus*	(Bleeker, 1855)	Spiny Chromis
Amblyglyphidodon	*aureus*	(Cuvier, 1830)	Golden Damselfish
Amblyglyphidodon	*curacao*	(Bloch, 1787)	Staghorn Damselfish
Amblyglyphidodon	*leucogaster*	(Bleeker, 1847)	Yellowbelly Damselfish
Amblyglyphidodon	*ternatensis*	(Bleeker, 1853)	Ternate Damsel
Amphiprion	*chrysopterus*	Cuvier, 1830	Orangefin Anemonefish
Amphiprion	*clarkii*	(Bennett, 1830)	Yellowtail Clownfish
Amphiprion	*leucokranos*	Allen, 1973	Whitebonnet Anemonefish
Amphiprion	*melanopus*	Bleeker, 1852	Fire Clownfish
Amphiprion	*percula*	(Lacepède, 1802)	Orange Clownfish
Amphiprion	*perideraion*	Bleeker, 1855	Pink Anemonefish
Amphiprion	*polymnus*	(Linnaeus, 1758)	Saddleback Clownfish
Amphiprion	*sandaracinos*	Allen, 1972	Yellow Clownfish
Amplypomacentrus	*breviceps*	(Schlegel & Muller, 1839)	Black-banded Demoiselle
Cheiloprion	*labiatus*	(Day, 1877)	Big-lip Damsel
Chromis	*alpha*	Randall, 1988	Yellow-speckled Chromis
Chromis	*amboinensis*	(Bleeker, 1871)	Ambon Chromis
Chromis	*analis*	(Cuvier, 1830)	Yellow Chromis
Chromis	*atripectoralis*	Welander & Schultz, 1951	Black-axil Chromis
Chromis	*atripes*	Fowler & Bean, 1928	Dark-fin Chromis
Chromis	*delta*	Randall, 1988	Deep Reef Chromis
Chromis	*elerae*	Fowler & Bean, 1928	Twinspot Chromis
Chromis	*lepidolepis*	Bleeker, 1877	Scaly Chromis
Chromis	*lineata*	Fowler & Bean, 1928	Lined Chromis
Chromis	*margaritifer*	Fowler, 1946	Bicolor Chromis
Chromis	*retrofasciata*	Weber, 1913	Black-bar Chromis
Chromis	*ternatensis*	(Bleeker, 1856)	Ternate Chromis
Chromis	*viridis*	(Cuvier, 1830)	Blue Green Damselfish

Chromis	*weberi*	Fowler & Bean, 1928	Weber's Chromis
Chromis	*xanthochira*	(Bleeker, 1851)	Yellow-axil Chromis
Chromis	*xanthura*	(Bleeker, 1854)	Paletail Chromis
Chrysiptera	*biocellata*	(Quoy & Gaimard, 1825)	Twinspot Damselfish
Chrysiptera	*brownriggii*	(Bennett, 1828)	Surge Damselfish
Chrysiptera	*caeruleolineata*	(Allen, 1973)	Blueline Demoiselle
Chrysiptera	*cyanea*	(Quoy & Gaimard, 1825)	Sapphire Devil
Chrysiptera	*glauca*	(Cuvier, 1830)	Grey Demoiselle
Chrysiptera	*oxycephala*	(Bleeker, 1877)	Blue-spot Demoiselle
Chrysiptera	*parasema*	(Fowler, 1918)	Goldtail Demoiselle
Chrysiptera	*rex*	(Snyder, 1909)	King Demoiselle
Chrysiptera	*rollandi*	(Whitley, 1961)	Rolland's Demoiselle
Chrysiptera	*talboti*	(Allen, 1975)	Talbot's Demoiselle
Chrysiptera	*unimaculata*	(Cuvier, 1830)	Onespot Demoiselle
Dascyllus	*aruanus*	(Linnaeus, 1758)	Whitetail Dascyllus
Dascyllus	*melanurus*	Bleeker, 1854	Blacktail Humbug
Dascyllus	*reticulatus*	(Richardson, 1846)	Reticulate Dascyllus
Dascyllus	*trimaculatus*	(Ruppell, 1829)	Threespot Dascyllus
Dischistodus	*chrysopoecilus*	(Schlegel & Muller, 1839)	Lagoon Damsel
Dischistodus	*melanotus*	(Bleeker, 1858)	Black-vent Damsel
Dischistodus	*perspicillatus*	(Cuvier, 1830)	White Damsel
Dischistodus	*prosopotaenia*	(Bleeker, 1852)	Honey-head Damsel
Hemiglyphidodon	*plagiometopom*	(Bleeker, 1852)	Lagoon Damselfish
Lepidozygus	*tapeinosoma*	(Bleeker, 1856)	Fusilier Damselfish
Neoglyphidodon	*melas*	(Cuvier, 1830)	Bowtie Damselfish
Neoglyphidodon	*nigroris*	(Cuvier, 1830)	Black-and-gold Chromis
Neoglyphidodon	*thoracotaeniatus*	(Fowler & Bean, 1928)	Barhead Damsel
Neopomacentrus	*azysron*	(Bleeker, 1877)	Yellow-tail Demoiselle

Neopomacentrus	*cyanomos*	(Bleeker, 1856)	Regal Demoiselle
Neopomacentrus	*nemurus*	(Bleeker, 1857)	Coral Demoiselle
Neopomacentrus	*taeniurus*	(Bleeker, 1856)	Freshwater Demoiselle
Neopomacentrus	*violascens*	(Bleeker, 1848)	Violet Demoiselle
Plectroglyphidodon	*dickii*	(Leinard, 1839)	Blackbar Devil
Plectroglyphidodon	*johnstonianus*	Fowler & Ball, 1924	Johnston Island Damsel
Plectroglyphidodon	*lacrymatus*	(Quoy & Gaimard, 1825)	Whitespotted Devil
Plectroglyphidodon	*leucozonus*	(Bleeker, 1859)	Singlebar Devil
Pomacentrus	*adelus*	Allen, 1991	Obscure Damsel
Pomacentrus	*albimaculus*	Allen, 1975	Whitespot Damsel
Pomacentrus	*amboinensis*	Bleeker, 1868	Ambon Damsel
Pomacentrus	*bankanensis*	Bleeker, 1853	Speckled Damselfish
Pomacentrus	*brachialis*	Cuvier, 1830	Charcoal Damsel
Pomacentrus	*burroughi*	Fowler, 1918	Burrough's Damsel
Pomacentrus	*chrysurus*	Cuvier, 1830	Whitetail Damsel
Pomacentrus	*coelestis*	Jordan & Starks, 1901	Neon Damselfish
Pomacentrus	*lepidogenys*	Fowler & Bean, 1928	Scaly Damsel
Pomacentrus	*moluccensis*	Bleeker, 1853	Lemon Damsel
Pomacentrus	*nagasakiensis*	Tanaka, 1917	Nagasaki Damsel
Pomacentrus	*nigromanus*	Weber, 1913	Goldback Damsel
Pomacentrus	*nigromarginatus*	Allen, 1973	Blackmargined Damsel
Pomacentrus	*pavo*	(Bloch, 1787)	Sapphire Damsel
Pomacentrus	*philippinus*	Evermann & Seale, 1907	Philippine Damsel
Pomacentrus	*reidi*	Fowler & Bean, 1928	Reid's Damsel
Pomacentrus	*simsiang*	Bleeker, 1856	Blueback Damsel
Pomacentrus	*smithi*	Fowler & Bean, 1928	Smith's Damsel
Pomacentrus	*tripunctatus*	Cuvier, 1830	Threespot Damsel
Pomacentrus	*vaiuli*	Jordan & Seale, 1906	Ocellate Damselfish

	Premnas	*biaculeatus*	(Bloch, 1790)	Spinecheeck Anemonefish
	Stegastes	*albifasciatus*	(Schlegel & Muller, 1839)	Whitebar Gregory
	Stegastes	*fasciolatus*	(Ogilby, 1889)	Pacific Gregory
	Stegastes	*lividus*	(Forster, 1801)	Blunt Snout Gregory
	Stegastes	*nigricans*	(Lacepède, 1802)	Dusky Farmerfish
Labridae				
	Anampses	*caeruleopunctatus*	Ruppell, 1829	Bluespotted Wrasse
	Anampses	*geographicus*	Valenciennes, 1840	Geographic Wrasse
	Anampses	*melanurus*	Bleeker, 1857	White-spotted Wrasse
	Anampses	*meleagrides*	Valenciennes, 1840	Spotted Wrasse
	Anampses	*neoguinaicus*	Bleeker, 1878	New Guinea Wrasse
	Anampses	*twistii*	Bleeker, 1856	Yellowbreasted Wrasse
	Bodianus	*anthioides*	(Bennett, 1832)	Lyretail Hogfish
	Bodianus	*axillaris*	(Bennett, 1832)	Axilspot Hogfish
	Bodianus	*bimaculatus*	Allen, 1973	Twospot Hogfish
	Bodianus	*diana*	(Lacepède, 1801)	Diana's Hogfish
	Bodianus	*loxozonus*	(Snyder, 1908)	Blackfin Hogfish
	Bodianus	*mesothorax*	(Bloch & Schneider, 1801)	Splitlevel Hogfish
	Cheilinus	*chlorourus*	(Bloch, 1791)	Floral Wrasse
	Cheilinus	*fasciatus*	(Bloch, 1791)	Redbreast Wrasse
	Cheilinus	*oxycephalus*	Bleeker, 1853	Snooty Wrasse
	Cheilinus	*trilobatus*	Lacepède, 1801	Tripletail Wrasse
	Cheilinus	*undulatus*	Ruppell, 1835	Humphead Wrasse
	Cheilio	*inermis*	(Forsskål, 1775)	Cigar Wrasse
	Choerodon	*anchorago*	(Bloch, 1791)	Orange-dotted Tuskfish
	Choerodon	*cephalotes*	(Castelnau, 1875)	Purple Tuskfish
	Choerodon	*schoenleinii*	(Valenciennes, 1839)	Blackspot Tuskfish
	Cirrhilabrus	*cyanopleura*	(Bleeker, 1851)	Blueside Wrasse

Cirrhilabrus	*exquisitus*	Smith, 1957	Exquisite Wrasse
Cirrhilabrus	*solorensis*	Bleeker, 1853	Solor Wrasse
Cirrhilabrus	*walindi*	Allen & Randall, 1996	
Coris	*aygula*	Lacepède, 1801	Clown Coris
Coris	*batuensis*	(Bleeker, 1856-57)	Batu Coris
Coris	*gaimard*	(Quoy & Gaimard, 1824)	Yellowtail Coris
Cymolutes	*praetextatus*	(Quoy & Gaimard, 1834)	Knife Razorfish
Diproctacanthus	*xanthurus*	(Bleeker, 1856)	Yellowtail Tubelip
Epibulus	*insidiator*	(Pallas, 1770)	Slingjaw Wrasse
Gomphosus	*varius*	Lacepède, 1801	Bird Wrasse
Halichoeres	*argus*	(Bloch & Schneider, 1801)	Argus Wrasse
Halichoeres	*biocellatus*	Schultz, 1960	Red-lined Wrasse
Halichoeres	*chloropterus*	(Bloch, 1791)	Pastel-green Wrasse
Halichoeres	*chrysus*	Randall, 1981	Canary Wrasse
Halichoeres	*hartzfeldii*	(Bleeker, 1852)	Hartzfeld's Wrasse
Halichoeres	*hortulanus*	(Lacepède, 1801)	Checkerboard Wrasse
Halichoeres	*margariaceus*	(Valenciennes, 1839)	Pink-belly Wrasse
Halichoeres	*marginatus*	Ruppell, 1835	Dusky Wrasse
Halichoeres	*melanurus*	(Bleeker, 1851)	Tail-spot Wrasse
Halichoeres	*melasmapomus*	Randall, 1981	Cheekspot Wrasse
Halichoeres	*nebulosus*	(Valenciennes, 1839)	Nebolous Wrasse
Halichoeres	*prosopeion*	(Bleeker, 1853)	Twotone Wrasse
Halichoeres	*purpurescens*	(Bloch & Schneider, 1801)	Silty Wrasse
Halichoeres	*richmondi*	Fowler & Bean, 1928	Richmond's Wrasse
Halichoeres	*scapularis*	(Bennett, 1832)	Zigzag Wrasse
Halichoeres	*solorensis*	(Bleeker, 1853)	Green Wrasse
Halichoeres	*trimaculatus*	(Quoy & Gaimard, 1834)	Threespot Wrasse
Hemigymnus	*fasciatus*	(Bloch, 1792)	Barred Thicklip

Hemigymnus	*melapterus*	(Bloch, 1791)	Blackeye Thicklip
Hologymnosus	*annulatus*	(Lacepède, 1801)	Ring Wrasse
Hologymnosus	*doliatus*	(Lacepède, 1801)	Pastel Ringwrasse
Iniistius	*aneitensis*	(Günther, 1862)	Yellowblotch Razorfish
Iniistius	*pavo*	(Valenciennes, 1840)	Peacock Wrasse
Iniistius	*pentadactylus*	(Linnaeus, 1758)	Fivefinger Wrasse
Labrichthys	*unilineatus*	(Guichenot, 1847)	Tubelip Wrasse
Labroides	*bicolor*	Fowler & Bean, 1928	Bicolor Cleaner Wrasse
Labroides	*dimidiatus*	(Valenciennes, 1839)	Bluestreak Cleaner Wrasse
Labroides	*pectoralis*	Randall & Springer, 1975	Blackspot Cleaner Wrasse
Labropsis	*alleni*	Randall, 1981	Allen's Tubelip
Labropsis	*australis*	Randall, 1981	Southern Tubelip
Labropsis	*manabei*	Schmidt, 1931	Northern Tubelip
Labropsis	*xanthonota*	Randall, 1981	Yellowback Tubelip
Leptojulis	*cyanopleura*	(Bleeker, 1853)	Shoulder-spot Wrasse
Macropharyngodon	*meleagris*	(Valenciennes, 1839)	Blackspotted Wrasse
Macropharyngodon	*negrosensis*	Herre, 1932	Yellowspotted Wrasse
Novaculichthys	*taeniourus*	(Lacepède, 1801)	Rockmover Wrasse
Oxycheilinus	*arenatus*	(Valenciennes, 1840)	Speckled Maori Wrasse
Oxycheilinus	*bimaculatus*	(Valenciennes, 1840)	Two-spot Wrasse
Oxycheilinus	*celebicus*	(Bleeker, 1853)	Celebes Wrasse
Oxycheilinus	*digramma*	(Lacepède, 1801)	Cheeklined Wrasse
Oxycheilinus	*orientalis*	(Günther, 1862)	Oriental Maori Wrasse
Oxycheilinus	*unifasciatus*	(Streets, 1877)	Ringtail Maori Wrasse
Paracheilinus	*filamentosus*	Allen, 1974	Filamentous Wrasse
Pseudocheilinops	*ataenia*	Schultz, 1960	Pelvic-spot Wrasse
Pseudocheilinus	*evanidus*	Jordan & Evermann, 1903	Striated Wrasse
Pseudocheilinus	*hexataenia*	(Bleeker, 1857)	Sixline Wrasse

	Pseudocheilinus	*octotaenia*	Jenkins, 1901	Eight-lined Wrasse
	Pseudocoris	*yamashiroi*	(Schmidt, 1931)	Redspot Wrasse
	Pseudodax	*moluccanus*	(Valenciennes, 1840)	Chiseltooth Wrasse
	Pseudojuloides	*cerasinus*	(Snyder, 1904)	Smalltail Wrasse
	Pteragogus	*cryptus*	Randall, 1981	Cryptic Wrasse
	Stethojulis	*bandanensis*	(Bleeker, 1851)	Red Shoulder Wrasse
	Stethojulis	*strigiventer*	(Bennett, 1833)	Three-ribbon Wrasse
	Stethojulis	*trilineata*	(Bloch & Schneider, 1801)	Three-lined Rainbowfish
	Thalassoma	*amblycephalum*	(Bleeker, 1856)	Bluntheaded Wrasse
	Thalassoma	*hardwicke*	(Bennett, 1830)	Sixbar Wrasse
	Thalassoma	*jansenii*	(Bleeker, 1856)	Jansen's Wrasse
	Thalassoma	*lunare*	(Linnaeus, 1758)	Moon Wrasse
	Thalassoma	*lutescens*	(Lay & Bennett, 1839)	Yellow-brown Wrasse
	Thalassoma	*purpureum*	(Forsskål, 1775)	Surge Wrasse
	Thalassoma	*quinquevittatum*	(Lay & Bennett, 1839)	Fivestripe Wrasse
	Thalassoma	*trilobatum*	(Lacepède, 1801)	Christmas Wrasse
	Wetmorella	*nigropinnata*	(Seale, 1901)	Sharpnose Wrasse
Scaridae				
	Bolbometopon	*muricatum*	(Valenciennes, 1840)	Green Humphead Parrotfish
	Calotomus	*carolinus*	(Valenciennes, 1840)	Carolines Parrotfish
	Calotomus	*spinidens*	(Quoy & Gaimard, 1824)	Spinytooth Parrotfish
	Cetoscarus	*bicolor*	(Ruppell, 1829)	Bicolour Parrotfish
	Chlorurus	*bleekeri*	(de Beaufort, 1940)	Bleeker's Parrotfish
	Chlorurus	*japanensis*	(Bloch, 1789)	Palecheeck Parrotfish
	Chlorurus	*microrhinos*	(Bleeker, 1854)	Steephead Parrotfish
	Chlorurus	*sordidus*	(Forsskål, 1775)	Daisy Parrotfish
	Hipposcarus	*longiceps*	(Valenciennes, 1840)	Pacific Longnose Parrotfish
	Leptoscarus	*vaigiensis*	(Quoy & Gaimard, 1824)	Marbled Parrotfish

	Scarus	*altipinnis*	(Steindachner, 1879)	Filament-finned Parrotfish
	Scarus	*chameleon*	Choat & Randall, 1986	Chameleon Parrotfish
	Scarus	*dimidiatus*	Bleeker, 1859-60	Yellowbarred Parrotfish
	Scarus	*flavipectoralis*	Schultz, 1958	Yellowfin Parrotfish
	Scarus	*forsteni*	(Bleeker, 1861)	Forsten's Parrotfish
	Scarus	*frenatus*	Lacepède, 1802	Bridled Parrotfish
	Scarus	*ghobban*	Forsskål, 1775	Blue-barred Parrotfish
	Scarus	*globiceps*	Valenciennes, 1840	Globehead Parrotfish
	Scarus	*niger*	Forsskål, 1775	Dusky Parrotfish
	Scarus	*oviceps*	Valenciennes, 1840	Dark Capped Parrotfish
	Scarus	*prasiognathos*	Valenciennes, 1840	Singapore Parrotfish
	Scarus	*psittacus*	Forsskål, 1775	Common Parrotfish
	Scarus	*quoyi*	Valenciennes, 1840	Quoy's Parrotfish
	Scarus	*rivulatus*	Valenciennes, 1840	Rivulated Parrotfish
	Scarus	*rubroviolaceus*	Bleeker, 1847	Ember Parrotfish
	Scarus	*schlegeli*	(Bleeker, 1861)	Yellowband Parrotfish
	Scarus	*spinus*	(Kner, 1868)	Greensnout Parrotfish
	Scarus	*tricolor*	Bleeker, 1847	Tricolour Parrotfish
Pinguipedidae				
	Parapercis	*clathrata*	Ogilby, 1910	Latticed Sandperch
	Parapercis	*cylindrica*	(Bloch, 1792)	Cylindrical Sandperch
	Parapercis	*hexophtalma*	(Cuvier, 1829)	Speckled Sandperch
	Parapercis	*millepunctata*	(Günther, 1860)	Black Dotted Sand Perch
	Parapercis	*multiplicata*	Randall, 1984	Redbarred Sandperch
	Parapercis	*schauinslandii*	(Steindachner, 1900)	Redspotted Sandperch
	Parapercis	*snyderi*	Jordan & Starks, 1905	U-mark Sandperch
	Parapercis	*tetracantha*	(Lacepède, 1801)	Reticulated Sandperch
	Parapercis	*xanthozona*	(Bleeker, 1849)	Yellowbar Sandperch

Trichonotidae				
	Trichonotus	*elegans*	Shimada & Yoshino, 1984	Long-rayed Sand-diver
	Trichonotus	*setiger*	Bloch & Schneider, 1801	Spotted Sand-diver
Uranoscopidae				
	Uranoscopus	*sulphureus*	Valenciennes, 1832	Whitemargin Stargazer
Tripterygiidae				
	Helcogramma	*striatum*	Hansen, 1986	Tropical Striped Triplefin
Blenniidae				
	Aspidontus	*dussumieri*	(Valenciennes, 1836)	Lance Blenny
	Aspidontus	*taeniatus*	Quoy & Gaimard, 1834	False Cleanerfish
	Atrosalarias	*fuscus*	(Ruppell, 1838)	Brown Coral Blenny
	Blenniella	*periophthalmus*	(Valenciennes, 1836)	Blue-dashed Rockskipper
	Cirripectes	*polyzona*	(Bleeker, 1868)	Barred Blenny
	Cirripectes	*springeri*	Williams, 1988	Springer's Blenny
	Cirripectes	*stigmaticus*	Strasburg & Schultz, 1953	Red-streaked Blenny
	Crossosalarias	*macrospilus*	Smith-Vaniz & Springer, 1971	Triplespot Blenny
	Ecsenius	*axelrodi*	Springer, 1988	Axelrod's Clown Blenny
	Ecsenius	*bicolor*	(Day, 1888)	Bicolor Blenny
	Ecsenius	*collettei*	Springer, 1972	Collette's Blenny
	Ecsenius	*midas*	Starck, 1969	Persian Blenny
	Ecsenius	*pictus*	McKinney & Springer, 1976	White-lined Comb-tooth
	Ecsenius	*prooculis*	Chapman & Schultz, 1952	Striped Blenny
	Ecsenius	*trilineatus*	Springer, 1972	Three-lined Blenny
	Ecsenius	*yaeyamaensis*	(Aoyagi, 1954)	Yaeyama Blenny
	Entomacrodus	*decussatus*	(Bleeker, 1858)	Wavy-lined Blenny
	Entomacrodus	*striatus*	(Valenciennes, 1836)	Reef Margin Blenny
	Exallias	*brevis*	(Kner, 1868)	Leopard Blenny
	Istiblennius	*edentulus*	(Forster & Schneider, 1801)	Rippled Rockskipper

	Istiblennius	*lineatus*	(Valenciennes, 1836)	Lined Rockskipper
	Meiacanthus	*atrodorsalis*	(Günther, 1877)	Forktail Blenny
	Meiacanthus	*grammistes*	(Valenciennes, 1836)	Striped Poison-fang Blenny
	Meiacanthus	*vittatus*	Smith-Vaniz, 1976	One-striped Fangblenny
	Petroscirtes	*mitratus*	Ruppell, 1830	Floral Blenny
	Petroscirtes	*thepassii*	Bleeker, 1853	Thepas' Sabretooth Blenny
	Petroscirtes	*xestus*	Jordan & Seale, 1906	Xestus Sabretooth Blenny
	Plagiotremus	*laudandus*	(Whitley, 1961)	Bicolour Fangblenny
	Plagiotremus	*rhinorhynchos*	(Bleeker, 1852)	Bluestriped Fangblenny
	Plagiotremus	*tapeinosoma*	(Bleeker, 1857)	Piano Fangblenny
	Salarias	*fasciatus*	(Bloch, 1786)	Jewelled Blenny
	Salarias	*guttatus*	Valenciennes, 1836	Breast-spot Blenny
	Salarias	*segmentatus*	Bath & Randall, 1991	Segmented Blenny
Gobiesocidae				
	Diademichthys	*lineatus*	(Sauvage, 1883)	Urchin Clingfish
	Discotrema	*monogrammum*	Craig & Randall, 2008	
Callionymidae				
	Anaora	*tentaculata*	Gray, 1835	Tentacled Dragonet
	Callionymus	*belcheri*	Richardson, 1844	
	Callionymus	*enneactis*	Bleeker, 1879	Mangrove Dragonet
	Callionymus	*filamentosus*	Valenciennes, 1837	Blotchfin Dragonet
	Callionymus	*japonicus*	Houttuyn, 1782	
	Callionymus	*octostigmatus*	Fricke, 1981	
	Dactylopus	*dactylopus*	(Valenciennes, 1837)	Fingered Dragonet
	Eleutherochir	*opercularis*	(Valenciennes, 1837)	Flap-gilled Dragonet
	Synchiropus	*splendidus*	(Herre, 1927)	Mandarinfish
Gobiidae				
	Amblyeleotris	*fasciata*	(Herre, 1953)	Red-banded Prawn-goby

Amblyeleotris	*guttata*	(Fowler, 1938)	Spotted Prawn-goby
Amblyeleotris	*gymnocephala*	(Bleeker, 1853)	Masked Shrimpgoby
Amblyeleotris	*periophthalma*	(Bleeker, 1853)	Periophthalma Prawn-goby
Amblyeleotris	*randalli*	Hoese & Steene, 1978	Randall's Prawn-goby
Amblyeleotris	*wheeleri*	(Polunin & Lubbock, 1977)	Gorgeous Prawn-goby
Amblygobius	*decussatus*	(Bleeker, 1855)	Orange-striped Goby
Amblygobius	*nocturnus*	(Herre, 1945)	Nocturn Goby
Amblygobius	*phalaena*	(Valenciennes, 1837)	Banded Goby
Amblygobius	*rainfordi*	(Whitley, 1940)	Old Glory
Asterropteryx	*semipunctata*	Ruppell, 1830	Starry Goby
Bryaninops	*loki*	Larson, 1985	Loki Whip-goby
Bryaninops	*natans*	Larson, 1985	Redeye Goby
Bryaninops	*yongei*	(Davis & Cohen, 1969)	Whip Coral Goby
Cryptocentrus	*cinctus*	(Herre, 1936)	Yellow Prawn-goby
Cryptocentrus	*leucostictus*	(Günther, 1872)	Saddled Prawn-goby
Cryptocentrus	*octofasciatus*	Regan, 1908	Blue-speckled Prawn Goby
Cryptocentrus	*strigilliceps*	(Jordan & Seale, 1906)	Target Shrimp Goby
Ctenogobiops	*aurocingulus*	(Herre, 1935)	Gold-streaked Prawn-goby
Ctenogobiops	*pomastictus*	Lubbock & Polunin, 1977	Gold-speckled Prawn-goby
Eviota	*bifasciata*	Lachner & Karnella, 1980	Twostripe Pygmy Goby
Eviota	*nigriventris*	Giltay, 1933	Blackbelly Goby
Eviota	*pellucida*	Larson, 1976	Pellucida Pygmy Goby
Eviota	*prasites*	Jordan & Seale, 1906	Prasites Pygmy Goby
Eviota	*sebreei*	Jordan & Seale, 1906	Sebree's Pygmy Goby
Exyrias	*bellissimus*	(Smith, 1959)	Mud Reef-goby
Fusigobius	*neophytus*	(Günther, 1877)	Common Fusegoby
Fusigobius	*signipinnis*	Hoese & Obika, 1988	Signalfin Goby
Gnatholepis	*cauerensis*	(Bleeker, 1853)	Eyebar Goby

Gobiodon	*albofasciatus*	Sawada & Arai, 1972	Whitelined Coral Goby
Gobiodon	*histrio*	(Valenciennes, 1837)	Broad-barred Goby
Gobiodon	*okinawae*	Sawada, Arai & Abe, 1972	Okinawa Goby
Gobiodon	*quinquestrigatus*	(Valenciennes, 1837)	Five-lined Coral Goby
Istigobius	*decoratus*	(Herre, 1927)	Decorated Goby
Istigobius	*ornatus*	(Ruppell, 1830)	Ornate Goby
Istigobius	*rigilius*	(Herre, 1953)	Rigilius Goby
Lotilia	*graciliosa*	Klausewitz, 1960	Whitecap Goby
Macrodontogobius	*wilburi*	Herre, 1936	Largetooth Goby
Mahidolia	*mystacina*	(Valenciennes, 1837)	Flagfin Prawn Goby
Oplopomus	*oplopomus*	(Valenciennes, 1837)	Spinecheeck Goby
Paragobiodon	*echinocephalus*	(Ruppell, 1830)	Redhead Goby
Phyllogobius	*platycephalops*	(Smith, 1964)	Slender Spongegoby
Pleurosicya	*elongata*	Larson, 1990	Cling Goby
Signigobius	*biocellatus*	Hoese & Allen, 1977	Twinspot Goby
Stonogobiops	*xanthorhinica*	Hoese & Randall, 1982	Yellownose Prawn-goby
Trimma	*caesiura*	Jordan & Seale, 1906	Caesiura Dwarfgoby
Trimma	*griffithsi*	Winterbottom, 1984	
Trimma	*macrophthalma*	(Tomiyama, 1936)	Flame Goby
Trimma	*striata*	(Herre, 1945)	Stripehead Goby
Trimma	*taylori*	Lobel, 1979	Yellow Cave Goby
Trimma	*tevegae*	Cohen & Davis, 1969	Blue-striped Cave Goby
Valenciennea	*helsdingenii*	(Bleeker, 1858)	Twostripe Goby
Valenciennea	*muralis*	(Valenciennes, 1837)	Mural Goby
Valenciennea	*puellaris*	(Tomiyama, 1956)	Maiden Goby
Valenciennea	*randalli*	Hoese & Larson, 1994	Greenband Goby
Valenciennea	*sexguttata*	(Valenciennes, 1837)	Sixspot Goby
Valenciennea	*strigata*	(Broussonet, 1782)	Blueband Goby

	Vanderhorstia	*ambanaro*	(Fourmanoir, 1957)	Twin-spotted Shrimp-goby
	Yongeichthys	*nebulosus*	(Forsskål, 1775)	Shadow Goby
Ptereleotridae				
	Nemateleotris	*decora*	Randall & Allen, 1973	Elegant Firefish
	Nemateleotris	*magnifica*	Fowler, 1938	Fire Goby
	Parioglossus	*nudus*	Rennis & Hoese, 1985	Naked Hover Goby
	Ptereleotris	*evides*	(Jordan & Hubbs, 1925)	Blackfin Dartfish
	Ptereleotris	*hanae*	(Jordan & Snyder, 1901)	Blue Hana Goby
	Ptereleotris	*heteroptera*	(Bleeker, 1855)	Blacktail Goby
	Ptereleotris	*microlepis*	(Bleeker, 1856)	Blue Gudgeon
	Ptereleotris	*zebra*	(Fowler, 1938)	Chinese Zebra Goby
Microdesmidae				
	Gunnellichthys	*curiosus*	Dawson, 1968	Curioius Wormfish
	Gunnellichthys	*monostigma*	Smith, 1958	Onespot Wormfish
Pholidichthyidae				
	Pholidichthys	*leucotaenia*	Bleeker, 1856	Convict Blenny
Ephippidae				
	Platax	*batavianus*	Cuvier, 1831	Humpback Batfish
	Platax	*boersii*	Bleeker, 1852	Golden Spadefish
	Platax	*orbicularis*	(Forsskål, 1775)	Orbicular Batfish
	Platax	*pinnatus*	(Linnaeus, 1758)	Dusky Batfish
	Platax	*teira*	(Forsskål, 1775)	Tiera Batfish
Scatophagidae				
	Scatophagus	*argus*	(Linnaeus, 1766)	Spotted Scat
	Selenotoca	*multifasciata*	(Richardson, 1846)	Spotbanded Scat
Siganidae				
	Siganus	*argenteus*	(Quoy & Gaimard, 1825)	Streamlined Spinefoot
	Siganus	*corallinus*	(Valenciennes, 1835)	Blue-spotted Spinefoot

	Siganus	*doliatus*	Guérin-Méneville, 1829-38	Barred Spinefoot
	Siganus	*fuscescens*	(Houttuyn, 1782)	Mottled Spinefoot
	Siganus	*javus*	(Linnaeus, 1766)	Streaked Spinefoot
	Siganus	*lineatus*	(Valenciennes, 1835)	Golden-lined Spinefoot
	Siganus	*puellus*	(Schlegel, 1852)	Masked Spinefoot
	Siganus	*punctatissimus*	Fowler & Bean, 1929	Peppered Spinefoot
	Siganus	*punctatus*	(Schneider & Forster, 1801)	Goldspotted Spinefoot
	Siganus	*randalli*	Woodland, 1990	Variegated Spinefoot
	Siganus	*spinus*	(Linnaeus, 1758)	Little Spinefoot
	Siganus	*vermiculatus*	(Valenciennes, 1835)	Vermiculated Spinefoot
	Siganus	*vulpinus*	(Schlegel & Muller, 1845)	Foxface
Zanclidae				
	Zanclus	*cornutus*	(Linnaeus, 1758)	Moorish Idol
Acanthuridae				
	Acanthurus	*blochii*	Valenciennes, 1835	Ringtail Surgeonfish
	Acanthurus	*dussumieri*	Valenciennes, 1835	Eyestripe Surgeonfish
	Acanthurus	*fowleri*	de Beaufort, 1951	Fowler's Surgeonfish
	Acanthurus	*lineatus*	(Linnaeus, 1758)	Lined Surgeonfish
	Acanthurus	*maculiceps*	(Ahl, 1923)	White-freckled Surgeonfish
	Acanthurus	*mata*	(Cuvier, 1829)	Elongate Surgeonfish
	Acanthurus	*nigricans*	(Linnaeus, 1758)	Whitecheek Surgeonfish
	Acanthurus	*nigricauda*	Duncker & Mohr, 1929	Epaulette Surgeonfish
	Acanthurus	*nigrofuscus*	(Forsskål, 1775)	Brown Surgeonfish
	Acanthurus	*nubilus*	(Fowler & Bean, 1929)	Bluelined Surgeon
	Acanthurus	*olivaceus*	Bloch & Schneider, 1801	Orangespot Surgeonfish
	Acanthurus	*pyroferus*	Kittlitz, 1834	Chocolate Surgeonfish
	Acanthurus	*thompsoni*	(Fowler, 1923)	Thompson's Surgeonfish
	Acanthurus	*triostegus*	(Linnaeus, 1758)	Convict Surgeonfish

	Acanthurus	*xanthopterus*	Valenciennes, 1835	Yellowfin Surgeonfish
	Ctenochaetus	*binotatus*	Randall, 1955	Twospot Surgeonfish
	Ctenochaetus	*striatus*	(Quoy & Gaimard, 1825)	Striated Surgeonfish
	Ctenochaetus	*tominiensis*	Randall, 1955	Tomini Surgeonfish
	Naso	*annulatus*	(Quoy & Gaimard, 1825)	Whitemargin Unicornfish
	Naso	*brachycentron*	(Valenciennes, 1835)	Humback Unicornfish
	Naso	*brevirostris*	(Cuvier, 1829)	Spotted Unicornfish
	Naso	*hexacanthus*	(Bleeker, 1855)	Sleek Unicornfish
	Naso	*lituratus*	(Forster, 1801)	Orangespine Unicornfish
	Naso	*lopezi*	Herre, 1927	Elongate Unicornfish
	Naso	*tuberosus*	Lacepède, 1801	Humpnose Unicornfish
	Naso	*unicornis*	(Forsskål, 1775)	Bluespine Unicornfish
	Naso	*vlamingii*	(Valenciennes, 1835)	Bignose Unicornfish
	Paracanthurus	*hepatus*	(Linnaeus, 1766)	Palette Surgeonfish
	Zebrasoma	*scopas*	(Cuvier, 1829)	Twotone Tang
	Zebrasoma	*veliferum*	(Bloch, 1795)	Sailfin Tang
Sphyraenidae				
	Sphyraena	*barracuda*	(Edwards, 1771)	Great Barracuda
	Sphyraena	*flavicauda*	Ruppell, 1838	Yellowtail Barracuda
	Sphyraena	*forsteri*	Cuvier, 1829	Bigeye Barracuda
	Sphyraena	*helleri*	Jenkins, 1901	Heller's Barracuda
	Sphyraena	*jello*	Cuvier, 1829	Pickhandle Barracuda
	Sphyraena	*obtusata*	Cuvier, 1829	Obtuse Barracuda
	Sphyraena	*putnamae*	Jordan & Seale, 1905	Sawtooth Barracuda
	Sphyraena	*qenie*	Klunzinger, 1870	Blackfin Barracuda
Gempylidae				
	Gempylus	*serpens*	Cuvier, 1829	Snake Mackerel
	Nealotus	*tripes*	Johnson, 1865	Black Snake Mackerel

	Promethichthys	*prometheus*	(Cuvier, 1832)	Roudi Escolar
Trichiuridae				
	Benthodesmus	*neglectus*	Parin, 1976	Neglected Frostfish
	Lepturacanthus	*savala*	(Cuvier, 1829)	Savalani Hairtail
	Trichiurus	*lepturus*	Linnaeus, 1758	Largehead Hairtail
Scombridae				
	Acanthocybium	*solandri*	(Cuvier, 1832)	Wahoo
	Auxis	*rochei*	(Risso, 1810)	Bullet Tuna
	Auxis	*thazard*	(Lacepède, 1800)	Frigate Tuna
	Euthynnus	*affinis*	(Cantor, 1849)	Kawakawa
	Grammatorcynus	*bilineatus*	(Ruppell, 1836)	Double-lined Mackerel
	Gymnosarda	*unicolor*	(Ruppell, 1838)	Dogtooth Tuna
	Katsuwonus	*pelamis*	(Linnaeus, 1758)	Skipjack Tuna
	Rastrelliger	*brachysoma*	(Bleeker, 1851)	Short Mackerel
	Rastrelliger	*faughni*	Matsui, 1967	Island Mackerel
	Rastrelliger	*kanagurta*	(Cuvier, 1816)	Indian Mackerel
	Scomber	*australasicus*	Cuvier, 1832	Blue Mackerel
	Scomberomorus	*commerson*	(Lacepède, 1800)	Narrow-barred Spanish Mackerel
	Thunnus	*albacares*	(Bonnaterre, 1788)	Yellowfin Tuna
	Thunnus	*tonggol*	(Bleeker, 1851)	Longtail Tuna
Istiophoridae				
	Istiophorus	*platypterus*	(Shaw, 1792)	Indo-Pacific Sailfish
	Makaira	*indica*	(Cuvier, 1832)	Black Marlin
Centrolophidae				
	Psenopsis	*humerosa*	Munro, 1958	Blackspot Butterfish
Nomeidae				
	Cubiceps	*baxteri*	McCulloch, 1923	Black Fathead
	Cubiceps	*capensis*	(Smith, 1845)	Cape Fathead

		Cubiceps	*pauciradiatus*	Günther, 1872	Longfin Fathead
		Cubiceps	*whiteleggii*	(Waite, 1894)	Shadow Driftfish
		Nomeus	*gronovii*	(Gmelin, 1789)	Man-of-war Fish
		Psenes	*arafurensis*	Gunther, 1889	Banded Driftfish
		Psenes	*cyanophrys*	Valenciennes, 1833	Freckled Driftfish
		Psenes	*pellucidus*	Lutken, 1880	Bluefin Driftfish
Pleuronectiformes					
	Psettodidae				
		Psettodes	*erumei*	(Bloch & Schneider, 1801)	Indian Spiny Turbot
	Bothidae				
		Asterorhombus	*intermedius*	(Bleeker, 1865)	Intermediate Flounder
		Bothus	*mancus*	(Broussonet, 1782)	Flowery Flounder
		Bothus	*pantherinus*	(Ruppell, 1830)	Leopard Flounder
		Chascanopsetta	*lugubris*	Alcock, 1894	Pelican Flounder
		Engyprosopon	*grandisquama*	(Temminck & Schlegel, 1846)	Largescale Flounder
	Paralichthyidae				
		Pseudorhombus	*arsius*	(Hamilton, 1822)	Largetooth Flounder
		Pseudorhombus	*elevatus*	Ogilby, 1912	Deep Flounder
	Soleidae				
		Brachirus	*muelleri*	(Steindachner, 1879)	Tufted Sole
		Brachirus	*orientalis*	(Bloch & Schneider, 1801)	Oriental Sole
		Pardachirus	*pavoninus*	(Lacepède, 1802)	Peacock Sole
	Cynoglossidae				
		Cynoglossus	*bilineatus*	(Lacepède, 1802)	Fourlined Tonguesole
		Cynoglossus	*punticeps*	(Richardson, 1846)	Speckled Tonguesole
		Paraplagusia	*bilineata*	(Bloch, 1787)	Doublelined Tonguesole
Tetraodontiformes					
	Balistidae				

	Abalistes	*stellatus*	(Anonymous, 1798)	Starry Triggerfish
	Balistapus	*undulatus*	(Park, 1797)	Orange-lined Triggerfish
	Balistoides	*conspicillum*	(Bloch & Schneider, 1801)	Clown Triggerfish
	Balistoides	*viridescens*	(Bloch & Schneider, 1801)	Titan Triggerfish
	Canthidermis	*maculata*	(Bloch, 1786)	Spotted Oceanic Triggerfish
	Melichthys	*niger*	(Bloch, 1786)	Black Triggerfish
	Melichthys	*vidua*	(Richardson, 1845)	Pinktail Triggerfish
	Odonus	*niger*	(Ruppell, 1836)	Redtoothed Triggerfish
	Pseudobalistes	*flavimarginatus*	(Ruppell, 1829)	Yellowman Triggerfish
	Pseudobalistes	*fuscus*	(Bloch & Schneider, 1801)	Yellow-spotted Triggerfish
	Rhinecanthus	*aculeatus*	(Linnaeus, 1758)	Blackbar Triggerfish
	Rhinecanthus	*rectangulus*	(Bloch & Schneider, 1801)	Wedge-tail Triggerfish
	Rhinecanthus	*verrucosus*	(Linnaeus, 1758)	Blackbelly Triggerfish
	Sufflamen	*bursa*	(Bloch & Schneider, 1801)	Boomerang Triggerfish
	Sufflamen	*chrysopterum*	(Bloch & Schneider, 1801)	Halfmoon Triggerfish
	Sufflamen	*fraenatum*	(Latreille, 1804)	Masked Triggerfish
	Xanthichthys	*auromarginatus*	(Bennett, 1832)	Gilded Triggerfish
	Xanthichthys	*caeruleolineatus*	Randall, Matsuura & Zama, 1978	Bluelined Triggerfish
Monacanthidae				
	Acreichthys	*tomentosus*	(Linnaeus, 1758)	Bristle-tail File-fish
	Aluterus	*monoceros*	(Linnaeus, 1758)	Unicorn Leatherjacket
	Aluterus	*scriptus*	(Osbeck, 1756)	Scrawled Filefish
	Amanses	*scopas*	(Cuvier, 1829)	Broom Filefish
	Brachaluteres	*taylori*	Woods, 1966	Taylor's Inflator Filefish
	Cantherhines	*dumerilii*	(Hollard, 1854)	Whitespotted Filefish
	Cantherhines	*pardalis*	(Ruppell, 1837)	Honeycomb Filefish
	Chaetodermis	*penicilligerus*	(Cuvier, 1816)	Prickly Leatherjacket
	Monacanthus	*chinensis*	(Osbeck, 1765)	Fan-bellied Leatherjacket

	Oxymonacanthus	*longirostris*	(Bloch & Schneider, 1801)	Harlequin Filefish
	Paraluteres	*prionurus*	(Bleeker, 1851)	Blacksaddle Filefish
	Paramonacanthus	*choirocephalus*	(Bleeker, 1852)	Pig Faced Leather Jacket
	Paramonacanthus	*japonicus*	(Tilesius, 1809)	Hairfinned Leatherjacket
	Pervagor	*janthinosoma*	(Bleeker, 1854)	Blackbar Filefish
	Pervagor	*melanocephalus*	(Bleeker, 1853)	Redtail Filefish
	Pervagor	*nigrolineatus*	(Herre, 1927)	Blacklined Filefish
	Pseudalutarius	*nasicornis*	(Temminck & Schlegel, 1850)	Rhino Leatherjacket
	Pseudomonacanthus	*macrurus*	(Bleeker, 1857)	Strap-weed File-fish
	Rudarius	*minutus*	Tyler, 1970	Minute Leatherjacket
Ostraciidae				
	Lactoria	*cornuta*	(Linnaeus, 1758)	Longhorn Cowfish
	Lactoria	*diaphana*	(Bloch & Schneider, 1801)	Roundbelly Cowfish
	Ostracion	*cubicus*	Linnaeus, 1758	Yellow Boxfish
	Ostracion	*melegris*	Shaw, 1796	Whitespotted Boxfish
	Ostracion	*solorensis*	Bleeker, 1853	Reticulate Boxfish
	Tetrosomus	*reipublicae*	(Whitley, 1930)	Smallspine Turretfish
Tetraodontidae				
	Arothron	*hispidus*	(Linnaeus, 1758)	White-spotted Puffer
	Arothron	*manilensis*	(Marion de Proce, 1822)	Narrow-lined Puffer
	Arothron	*mappa*	(Lesson, 1831)	Map Puffer
	Arothron	*meleagris*	(Lacepède, 1798)	Guineafowl Puffer
	Arothron	*nigropunctatus*	(Bloch & Schneider, 1801)	Blackspotted Puffer
	Arothron	*stellatus*	(Bloch & Schneider, 1801)	Starry Pufferfish
	Canthigaster	*amboinensis*	(Bleeker, 1864)	Spider-eye Puffer
	Canthigaster	*bennetti*	(Bleeker, 1854)	Bennett's Sharpnose Puffer
	Canthigaster	*compressa*	(Marion de Proce, 1822)	Compressed Toby
	Canthigaster	*janthinoptera*	(Bleeker, 1855)	Honeycomb Toby

	Canthigaster	*solandri*	(Richardson, 1845)	Spotted Sharpnose
	Canthigaster	*valentini*	(Bleeker, 1853)	Valentinni's Sharpnose Puffer
	Chelonodon	*patoca*	(Hamilton, 1822)	Milkspotted Puffer
Diodontidae				
	Chilomycterus	*reticulatus*	(Linnaeus, 1758)	Spotfin Burrfish
	Diodon	*holocanthus*	Linnaeus, 1758	Long-spine Porcupinefish
	Diodon	*hystrix*	Linnaeus, 1758	Spot-fin Porcupinefish
	Diodon	*liturosus*	Shaw, 1804	Black-blotched Porcupinefish
Molidae				
	Masturus	*lanceolatus*	(Lienard, 1840	Sharptail Mola
	Mola	*mola*	(Linnaeus, 1758)	Ocean Sunfish
	Mola	*ramsayi*	(Giglioli, 1883)	Southern Sunfish
	Ranzania	*laevis*	(Pennant, 1776)	Slender Sunfish