



Dr. Burgess's **ATLAS** of
MARINE AQUARIUM
Fishes

THIRD EDITION



over 4000 fishes illustrated and discussed

Dr. Warren E. Burgess • Dr. Herbert R. Axelrod • Raymond E. Hunziker III

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ATLAS
OF
MARINE
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*Third
Edition*



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The page photo of *Chaetodon collaris* by K. Payson.



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Preface to the Third Edition

As you know, there have been two earlier editions of *Dr. Burgess's Atlas of Marine Aquarium Fishes*, each cast in the same basic mold as regards how the pages—in both the original edition and the supplemental pages that were added to make the second edition—are laid out. In this new edition, we've changed the way the supplemental pages are laid out. Instead of arranging them in the eight-to-the-page format that is now used throughout almost the entire *Atlas*, we have paid attention to the requests of hobbyists who have told us that some of the marine species that are now available are so beautifully colorful (or so odd-looking) that it's a shame to restrict photos of them to the relatively small space that the existing format permits. They've asked us why we don't use bigger photos on the pages added to each new edition, and to be entirely honest we didn't really have any answer other than to say that we've always done it that way.

That's not a very good answer, we know—especially when you consider that T.F.H. Publications has always been in the forefront of changes that result in better ways of doing things. Therefore we're giving up the method we've used traditionally for adding new sections to this book and its companion volume, *Dr. Axelrod's Atlas of Freshwater Aquarium Fishes*, and are using the new photos at a larger size. We are concurrently changing the format of the captions applied to the new photos in this book to eliminate the symbols and provide the name of the family of each fish right within each caption. Additionally, we're putting the common name for each of the new fishes right within the caption, which for many readers will be a welcome change indeed.

The new pages are at the back of the book on pages 657 through 672, so you won't have any trouble finding them. Additionally, we have indexed them separately from the existing major index, which will make it easier for readers to search for particular species that they know did not appear in the first two editions.

If you get a chance, please let us know whether you approve of the new style for the newly added pages; we'd be glad to hear from you.

INTRODUCTION

This *Atlas of Marine Fishes* is designed mainly as a pictorial aid for the identification of marine fishes. The thousands of photographs are all that will be needed for most aquarists to identify species that they are keeping in their tanks or that they have seen in their local marine fish store. They will also be able to find for the most part fishes that they are likely to collect along their own shores, including those that occur only in the cooler waters of temperate coasts. Further, many fishes are included that are too big for hobbyists but will be seen in the ever-popular public aquariums where large reef tanks or oceanariums house larger fishes, including sharks. Whenever possible, different aspects of a single species are shown. That is, where juveniles are different from adults or males differ from females, both (or even all three) are shown. Ichthyologists have even been fooled by some species that appear so different as a juvenile or as one or the other sex. This has prompted additional names for fishes that had already been named previously. The name applied to the fishes in these photographs is the name that as far as known is the currently accepted name for the fish and supersedes any name applied to it in our previous publications. The most recent scientific papers and books were used to determine the correct names. However, certain obstacles are always present that prevent identifying some of the species with absolute certainty. First of all, since the fish is represented in a photograph only and not "in the flesh" where some of the diagnostic counts or measurements could be made, educated guesses must be made using what available information there is. This information may be color pattern, geographic locality, or even identifications by a photographer who is knowledgeable in fish systematics and has actually seen the fish itself.

Whenever possible color proofs were sent to experts in the field for identification. Dr. Gerald R. Allen kindly identified members of the family Pomacentridae, Dr. Victor G. Springer did the same for the blennies, Dr. Guido Dingerkus identified the elasmobranchs, Dr. William N. Eschmeyer did the scorpionfishes, Dr. William F. Smith-Vaniz did the carangids and some blennies, and Dr. Douglas Hoese tackled the gobies. Unfortunately, some plates were not available to these experts at the time so these identifications were accomplished to the best of my (W.E.B.) ability and should not reflect on the expertise of these scientists.

The common names applied to these fishes were taken from current scientific literature whenever possible. Unfortunately, in some instances (as also happened in the scientific names) there was disagreement (even by the same author in two papers), so that one or the other name was selected. Space does not permit the inclusion of alternate common names or scientific synonyms.

In keeping with the intent of this book to provide the best means to identify the marine fishes, a section is devoted to presenting an out-

line drawing of a representative of many of the families. As a further aid to aquarists, a short description of the best means of keeping fishes of each family accompanies each drawing. Carrying this one step further, along with the scientific name under each photograph can be seen numerical and pictorial symbols giving a brief account of the species's basic requirements for living, a number indicating the range, and a family number so that each fish can be easily placed in its systematic position. An aquarist recognizing his fish in the photographs can utilize the information in the caption or can refer to the information in the general family care write-ups in the front part of this book. The fishes are presented in systematic order according to Nelson (1984, *Fishes of the World*, John Wiley & Sons, NY), with the cartilaginous fishes first and the plectognaths last.

The range given is approximate. This is partially due to inadequate knowledge of the true range of certain species as well as the limitations dictated by the space available in this book. For example, a species that is found only in the Hawaiian Islands unfortunately must be indicated as a "6" even though Hawaii encompasses only a small portion of the area covered by that number. On the other hand, when a species infringes only a small distance into the adjoining numbered range only the number for the greater area is given. For example, a Caribbean species that occasionally extends its range along the U.S. coastline to, perhaps, the Carolinas, will be indicated only as a "2". A map showing the numbered areas appears on page 23.

The symbols are also approximations. Depicting the type of feeding by a single symbol is virtually impossible. An omnivorous fish that is not particular about its diet should be accorded every feeding symbol. But space limitations force us to indicate only the most likely food(s) of a given fish. It should be remembered that a well-balanced diet is always best.

Like most things, there are sure to be changes, especially in the nomenclature of the fishes. Even so, this book should prove to be the standard for identifying marine aquarium fishes for some time to come.

AQUARISTIC SECTION

This section is provided as an introductory guide to the maintenance of marine fishes in the aquarium. Habits and requirements are given for each family, or in some cases related groups of families. Included are data such as temperament and compatibility, water conditions, relative hardness, size, aquascape type, and feeding habits. The family listings (names and numbers) are based on the systematic listing by Nelson (1984), which is found on pages 24-25.

For families that have representatives common in the aquarium hobby, a generalized drawing is included to help with identification. Each drawing immediately precedes the corresponding written entry. After narrowing an unidentified fish down to the family level using these drawings, turning to the pictorial section of the book should give you a good chance of identifying it down to the species level. The selection of families illustrated by drawings may seem somewhat arbitrary, but effort was made to include only those that often appear in pet shops or are commonly collected by hobbyists in coastal areas.

Not all of the families listed here are suitable for home aquaria, and the writeups indicate the reasons why—many are simply too large, others too delicate, others too dangerous! In general, fishes that commonly reach an adult size in excess of a foot or so are suitable only for large public aquaria, and information on many of these species is included for the benefit of such aquaria.

It should be noted that these entries are only generalizations; individual species of some families vary widely with regard to their aquarium care. The butterflyfishes of the family Chaetodontidae are a good example—some species are very hardy, eat almost anything, and are good fishes for the beginner. Others eat only live coral and other hard-to-get items, and these are almost impossible for the average hobbyist to maintain. It is always best to research each individual species, preferably before a specimen is purchased. A good reference for this purpose is *Exotic Marine Fishes* (T.F.H. H-93B), as well as much of the scientific literature.

1) MYXINIDAE

Hagfishes. Benthic predators and scavengers, consuming dead and dying fishes. Usually found in groups. Produce large volumes of mucus that may be troublesome in small systems. Not compatible with any other fishes. Dark tank, cool water.

2) PETROMYZONTIDAE

Lampreys. Parasitic predators on living fishes. Cool, well-oxygenated water. Not compatible with fishes not intended as prey.

4) CHIMAERIDAE

Chimaerids. Cool water, dim light. Feeds on crustaceans, benthic invertebrates and fishes. Good aquarium food include chopped fish, crab, and shrimp. Males are too large for home aquaria, though young specimens are sometimes kept. Compatible with fishes too large to be easy prey.

5) CHLAMYDOSELACHIDAE

Hilled sharks. Dark, cold tank. Foods include benthic invertebrates and fishes. Too large for home aquaria, rarely kept even by public aquaria.

7) HEXANCHIDAE

Sagitt sharks. Dark, cold tank. Sensitive to changes in water conditions. Eat fishes, crabs, shrimp. Will outgrow home aquaria but are unlikely to be seen outside of public aquaria displays.



8) HETERODONTIDAE

Horn sharks. Relatively inactive, often resting on the bottom. Provide sheltered areas for shelter. Eat fishes, crustaceans. In captivity will accept live goldfish, chopped crab, shrimp, etc. Parasitic with fishes too large to swallow whole. Species can cause injury; handle with care.

9) RHINCODONTIDAE

Whale sharks. Passively plankton feeders. Too large for any aquarium.

**10) ORECTOLOBIDAE**

Hammer sharks and relatives. Feed on benthic invertebrates. Good aquarium foods include live goldfish, chopped clam, crab, shrimp. Warm, well-oiled tank. Passively with fishes too large to swallow, but should not be kept with any invertebrates not intended as food. Active and fast-growing, reaching a large size, large tank necessary. Relatively hardy.

11) ODONTASPIDAE

Sword tiger sharks. Aggressive fish eaters. Large tanks needed, only suitable for public aquaria.

12) LAMNIDAE

Mackerel sharks. Pelagic. Very large, often aggressive. Wide variety in size within this family. Various species feed on plankton, fishes, marine mammals. Not suitable for home aquaria and not yet kept with success in public aquaria.

**13) SCYLIORHINIDAE**

Catsharks. Among the best sharks for home aquaria. Sensitive to adverse changes in water quality, but otherwise hardy. Many are quite reticent, and many remain indefinitely small. Goldfish, shrimp or prawn, chopped clam, and beef heart are good foods. Large tanks with caves preferred. Passively with most fishes, but may attempt to eat many invertebrates.

14) CARCHARHINIDAE

Requiem sharks. Active, aggressive predators with powerful jaws and sharp teeth. Very sensitive and generally make poor captives. Very large tanks with no sharp corners are required. These sharks swim laterally. Will eat live or chopped fish as well as squid, shrimp, crab.

15) SPHYRNIDAE

Hammerhead sharks. Pelagic; extremely poor captives in captivity. Extended head bones easily damaged. Very sensitive to any change in water conditions. Fish wastes will also take stain.

16) SQUALIDAE

Dogfish sharks. Early hardy in captivity; not usually prone to disease and not too sensitive to changes in water quality. Venomous dorsal spines in some species; handle with care. Good foods include goldfish or chopped fish, chopped clam, squid, shrimp, crab. Large tanks with no sharp edges and fish observations. Passively with fishes of like size.

19) PRISTIDAE

Sawfishes. Very large, and small specimens are fast-growing. This generally unsuitable for home aquaria, but are often kept in public aquaria. Sensitive; "use" is easily injured. Fish wastes will spoil chopped fish and squid. Soft substrate needed, as these rays will sometimes bury themselves.

20) TORPEDINIDAE

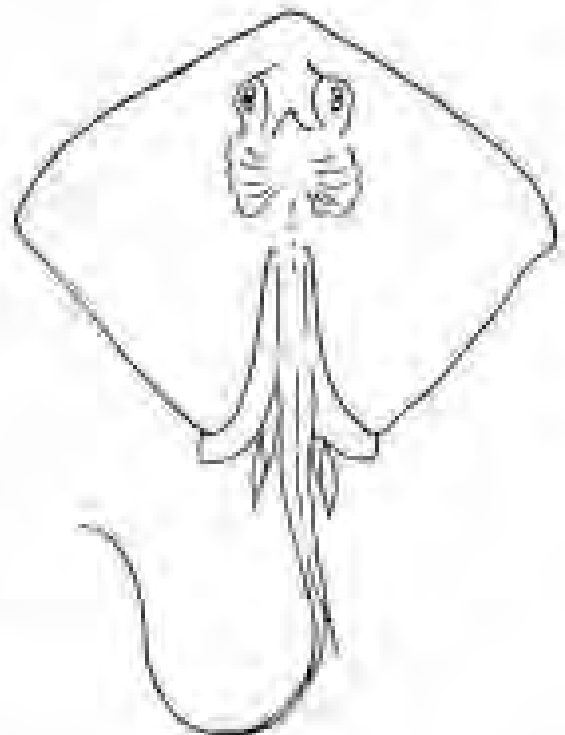
Torpedo rays. Sluggish bottom dwellers and slow burrowers. Not overly sensitive to water quality. Eat small fishes and benthic invertebrates—foods: chopped fish, crab, shrimp, worms, squid. Electric organs present, which can deliver a startling but harmless shock.

21) RHINOBATIDAE

Stingfishes. Inactive rays, need soft substrate for burying. Early hardy and not disease-prone. Like the ray. Eat mostly benthic invertebrates; almost any crustacean moll and chopped fish will be accepted. Some rather large—big tanks needed. Passively with most other fishes.

22) RAJIDAE

Skates. Bottom dwellers, need soft sand for burying themselves. Eat shellfish and invertebrates; good foods include crab, shrimp, prawn, chopped clam, squid. Passively with other fishes. Large tanks necessary—many grow large. Early hardy (and not too sensitive to changes in water quality).

**23) DASYATIDAE**

Stringrays. Bottom dwellers, need soft substrate. Most grow very large and require big tanks. Barbed tail spine is dangerous—handle with extreme care. Will eat most meaty foods and will devour any invertebrate small enough to swallow.

26) MYLIOBATIDAE

Eagle rays. Pelagic, often schooling. Unsuitable for all but the largest public aquaria. Foods include most shellfish and crustaceans. Warm water, very sensitive to any change in water quality. Venomous tail spine present.

27) MOBULIDAE

Mantas. Huge, plankton-eating pelagic rays. Very placid. Very sensitive, not suitable for aquaria.

31) LATIMERIIDAE

Dobsonichth. Never kept in aquaria. Dim light preferred. Eat fishes, crustaceans.

43) ELOPIDAE

Ladyfishes. Fast-moving schooling fishes. Large, spacious aquaria needed. Warm water. Eat crustaceans and small fishes. Peaceful. Somewhat sensitive in captivity.

44) MEGALOPIDAE

Tarpoms. Very active, feisty if large tanks with no obstructions needed. Eat any fishes small enough to swallow. Hardy and long-lived. Peaceful with fishes of its size. Very large, large tanks needed.

45) ALBULIDAE

Bonellish. Large and spacious aquaria needed. Soft substrate a must, bonellish root about for benthic invertebrates. Foods: shrimp, mussels, chopped clam, small live feeder fish. Peaceful, but very nervous and sensitive to the slightest environmental change.

**49) ANGUILLIDAE**

Eels. Very hardy and disease prone. Will eat anything seemingly edible. Relatively peaceful with fishes too large to swallow. Resist many invertebrates, however. Grow very quickly and will outgrow many home aquaria. Not sensitive to water quality, and can withstand any salinity from freshwater to full marine.

51) MORINGUIDAE

Small, wormlike burrowing eels. Feed mainly on worms and small crustaceans. Delicate; rarely kept in captivity.

**54) MURAENIDAE**

Moray eels. Large, with powerful jaws and teeth. Can bite harder than cars. Warm water. Hardy, but disease prone. Large tanks needed for most species. Will eat any fishes or crustaceans that can be captured, but generally placid with larger fishes. Foods: goldfish, chopped fish, scallops, shrimp, crabs, squid. Provide caves and rockwork for shelter.

58) OPHICHTHIDAE

Snake eels. Large but slayer than morays. Many burrow, provide soft sand or fine gravel. Peaceful but may eat small fishes. Primarily in shallow and reef-like waters. Very hardy.

**62) CONGRIDAE**

Conger eels. Large, active, aggressive. Provide rockwork for shelter. Mainly fish eaters. Good foods for captives include feeder fish, chopped fish, shrimp, clam, shrimp, squid. Large tanks necessary.

69) CLUPEIDAE

Herrings. Active schooling fishes. Keep in large groups to keep species alive. Delicate tissue and fins easily damaged. Very disease prone. Eat mostly planktonic crustaceans—live brine shrimp is a good substitute for captives. Peaceful.

70) ENGRAULIDAE

Anchovies. Pelagic schooling fishes, need to be kept in large groups in large tanks. Delicate and easily stressed; difficult to keep. Eat planktonic crustaceans; food live brine shrimp. Peaceful.

72) CHANIDAE

Milfish. Large and active, do not last well in aquaria. Feed on crustaceans, small fishes, eggs.

137) OSMERIDAE

Smelts. Large schools, large tanks. Delicate and disease prone. Will eat small fishes or chopped fish or crustaceans meat.

139) SALANGIDAE

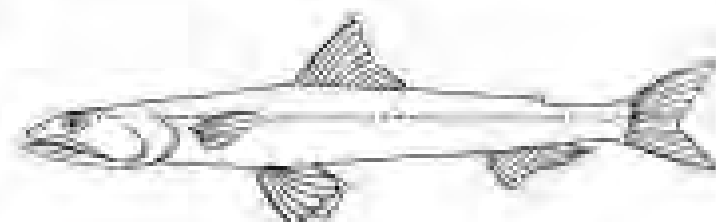
Lancelets. Small and active. Delicate in captivity. Large schools, large tanks. Eat planktonic crustaceans.

144) GONOSTOMATIDAE, 147) CHAULINODONTIDAE, 148) STOMIDAE, 150) MELANOSTOMIDAE

Viperfishes, dragonfishes, and allies. Deepsea fishes. Tooty and slow. Because of used for darkness, cold, and pressure, never kept in captivity.

153) AULOPIDAE

Benthic predators similar to lizardfishes. Will eat all fishes small enough to swallow, may attack larger ones. Also eat crustaceans. Good foods for captives include chopped fish and shrimp. Large tanks necessary for many species.

**157) SYNGOONTIDAE**

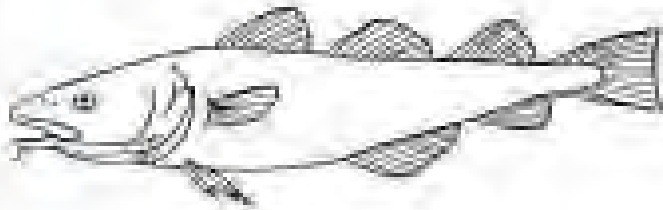
Lizardfishes. Benthic predators, often lie partly buried in sand and very aggressive, will eat most fish and crustaceans. Live fish and shrimp preferred as food—will rarely accept nonliving foods. Very delicate and subject to invasion shock—excellent as prey, as possible. Water quality must be excellent.

163) ALEPIBAURIDAE

Lancefishes. Pelagic predators. Hardy kept even in public aquaria and unlikely to adapt to captivity.

166) MYCTOPHIDAE

Lightfishes. Baskin-school midwater fishes superficially sardine-like. Very delicate; sensitive to water quality and prone to disease crises. Plankton feeding—eye band striped is a good substitute.

**171) MORIDAE, 174) GADIDAE, 178) MACROURIDAE**

Codfishes and haddock. Mostly available often deepwater; often large. Spacious tanks required. Groups preferred. Feeds fish, crustaceans. Most commercial cultured fish farms are kept in public aquaria.

**177) OPHIDIIDAE**

Clark eye and brotulids. Usually sluggish bottom dwellers. Food mostly benthic invertebrates: live shrimp, crab, chopped clam, squid. Dim tank with cover and other hollows preferred. Initially peaceful with fishes too large to swallow.

178) CARAPIDAE

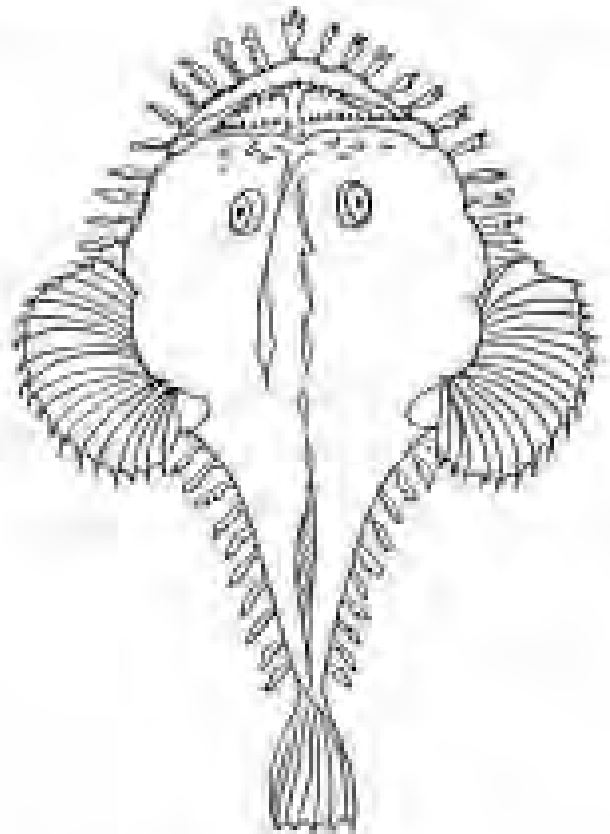
Parrotfishes. Inhabits body cavities of sea cucumbers and sometimes molluscs. Emerges to feed on small invertebrates; good foods would be live shrimp, bloodworms, glassworms, Psephenid fly larvae and any.

179) BYTHITIDAE

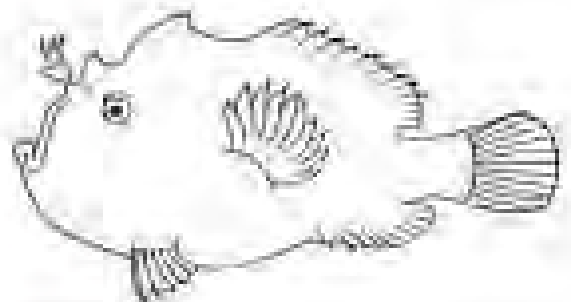
Livebearing beetles. Benthic, peaceful, fairly hardy. Will eat chopped clam, shrimp, bloodworms, live shrimp, prepared foods. Dim tank with hollows.

**181) BATRACHOIDIDAE**

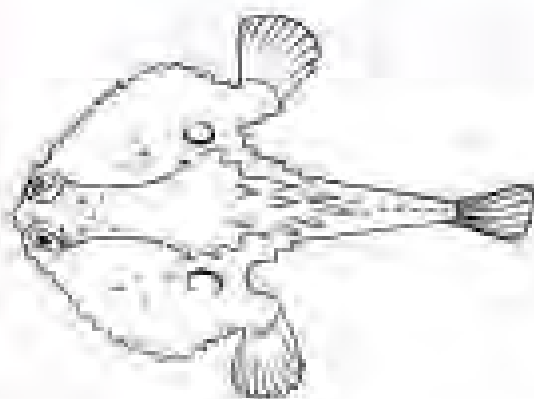
Toadfishes. Big-headed benthic predators; will eat anything that can be swallowed. Large teeth and strong jaws—handle with care. Especially fond of crustaceans and molluscs. Like hollows; like place decor with care. In touchless like to dig and may undermine decorations.

**182) LOPHIIDAE**

Goodfishes. Large, bony anglerfishes—handle with care. Will eat anything—no compatible tankmates. Very large. Need soft substrate. Not too sensitive to water quality variations.

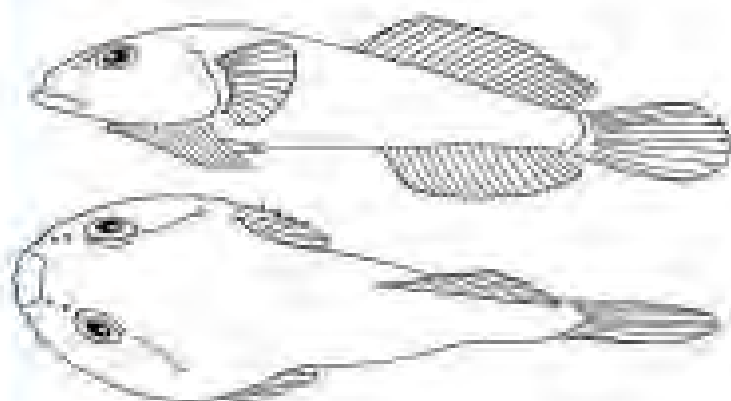
**183) ANTENNARIIDAE**

Frogfishes. Lethargic benthic anglerfishes; fish like and devour floating fishes. Can swallow prey nearly as large as themselves. Carnivorous. Hardy, but prone to fungus crises if overfed. Provide coral ledges for perching.



188) OGCOEPHALIDAE

Balloonfish. Glove hovers. Darter. Very peaceful and shy. Food mostly small crustaceans and polychaete worms but also larger bristly fishes. Many refuse to feed in captivity, but sometimes live for 60 days in glass tanks with the smallest. Current husbandry with Mediterranean fishes. Don't tank with soft substrate (ponies)



198) GOBIESOCIIDAE

Oglossini. Benthic. Very hardy. Very tolerant of AMM (usually 10mg/L); very resistant to disease. Generally peaceful, but very small fishes may be eaten. Often become tame. Foods: green, beta shrimp, bloodworms, chopped clam, chopped squid.

200) EXOCOETIDAE

Flyingfishes. Not really confined, but small specimens sometimes adapt to aquaria. Jampers. Keep tank lightly covered. Peaceful, but will eat small fishes. Wide, dorsal fins without obstructions. Feed bloodworms, beta shrimp, glassworms, fake food.

201) HEMIRAMPHIDAE, 202) BELONIDAE

Halfbeaks and needlefishes. Swift surface predators. Good jumpers. Very delicate and prone to capture and transport shock. Elevator bills easily damaged. Very nervous and prone to panic in aquaria. Round tanks with no sharp corners preferred.

213) ATHERINIDAE, 214) ISCHIDAE

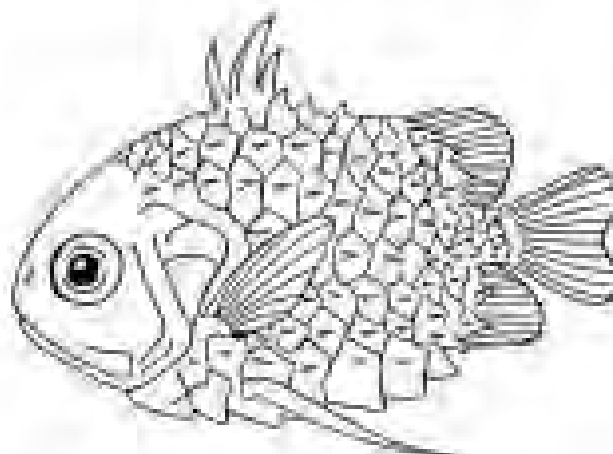
Silverfishes and relatives. Surface-to-midwater planktivores. Large schools preferred. Large, spacious tanks needed. Very sensitive to any change in water quality. Deckchairs/bowls easily damaged. Very prone to fungus. Easily killed by transport shock. Foods: beta shrimp, bloodworms, glassworms.

218) LAMPRIDIDAE

Diplo. Warrasse. Very large. Feed mostly on small fishes. Peaceful.

223) REGALECIDAE

Clarifishes. Elongate, very delicate. Feed on small fishes and (also) benthic invertebrates. Never eat!

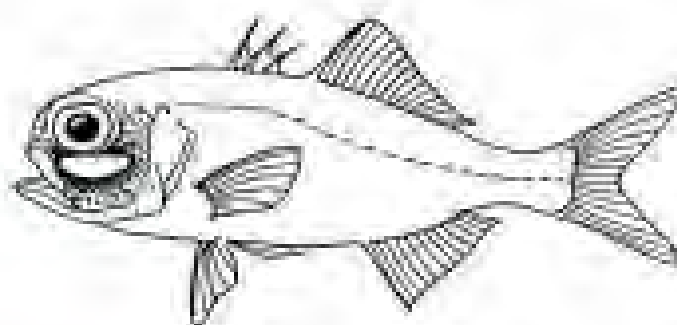


229) MONOCENTRIDAE

Pillayer fishes. Warrasse. Very sensitive to water quality. Possess bioluminescent organs. Prefer dim tank. Feed mostly on small crustaceans, but often refuse to feed in captivity. Fry live long periods, but glass shrimp, bloodworms, glassworms.

230) TRACHICHTHYIDAE

Slimfishes. Similar to squirrelfishes, nocturnal predators. Generally peaceful but will eat small fish and crustaceans. Hardy. May be aggressive with conspecifics.

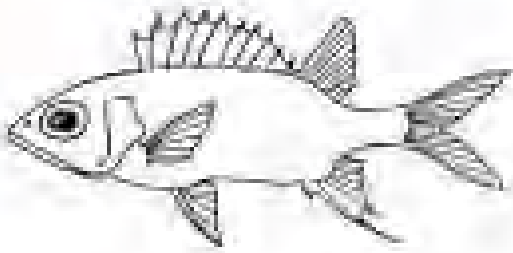


231) ANOMALOPIDAE

Flashlight fishes. Possess bioluminescent organs. Can tank. Prone to be kept in groups. Not overly sensitive. Feed on small crustaceans, fishes. Practice. Feed guppies, beta shrimp, bloodworms, prepared foods.

234) BERYCIDAE

Attenuate. Squirrelfish-like. Peaceful but will eat small fishes and invertebrates. Foods: guppies, beta shrimp, prepared foods. Hardy.



235) HOLDCENTRIDAE

Squarrelfishes. Generally peaceful, but we see some fishes and crustaceans. Inclined, provide shaded hollows. Very hardy and tolerant of water quality variations. Most species school. Some can come quite large. Foods: small feeder fishes, dropped clark, prawn heads, shrimp, bloodworms, all prepared foods.

236) POLYMIKIIDAE

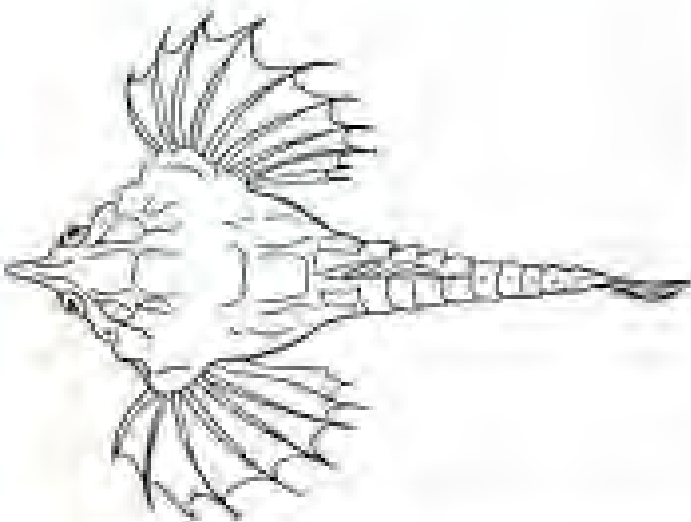
Barracudas. Generally similar to squarrelfishes in temperament and care.

244) MACRURICYTTIDAE, 245) ZEIDAE, 248) CA- PROIDAE

Down boarfishes and allies. Hardly seen in aquaria, but are very hardy. Many grow quite large. Feed on fishes and crustaceans but are usually peaceful with tentacles too large to swallow.

250) AULORHYNCHIDAE, 251) GASTEROSTEIDAE

Tubenose and sticklebacks. Often aquarium fishes. Very easy to keep but are territorial and fight seriously with conspecifics if crowded. Peaceful with other species. Hardy. Very tolerant of slightly variations; many species can stand fresh water. Partial herb. Foods: brine shrimp, bloodworms, glassworms, prepared foods.



253) PEGASIDAE

Sea moths. Showmoving bottom dwellers. Peaceful, not competitive. Do not keep with smaller fishes. Not disease prone, but often difficult to feed. Prefer small living invertebrates; try brine shrimp, bloodworms.

254) AULOSTOMIDAE, 255) FISTULARIIDAE

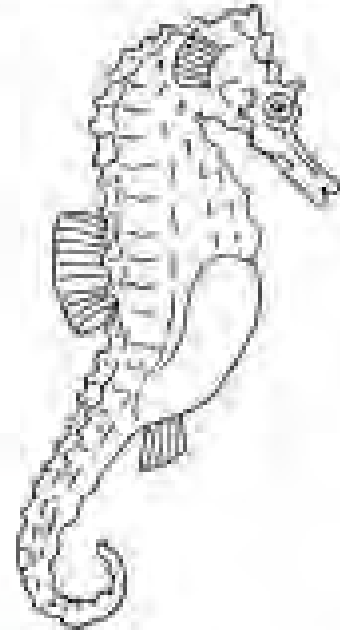
Trumpetfishes and cornfishes. Generally warmwater. Fairly hardy. Ambush predators. Prefer planted tank for hiding. Eat small fishes, crustaceans; feed supplied, gopher's prawn.

256) MACRORHAMPHOSIDAE, 257) CEN- TRISCIDAE

Stripfishes and starfishes. Arrived out slow and shy. Do not compete well with other species. Not prone to diseases, but some fishes difficult to feed. Eat mostly small invertebrates; try live brine shrimp, bloodworms, glassworms.

258) SOLENOSTOMIDAE

Dragon pipefishes. Habits and care same as family Syngnathidae.

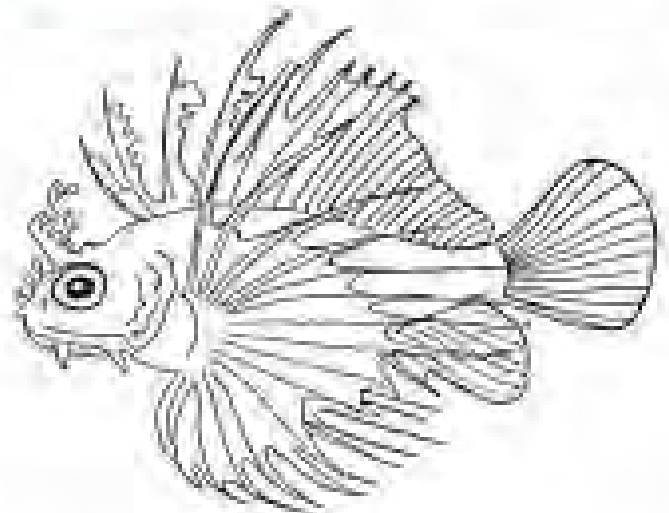


259) SYNGNATHIDAE

Seahorses and pipefishes. Very slow and shy—do not keep with competitive species. Have lived in aquaria. Broomed ocean, sea fans, plants needed for shelter or anchorage. Not disease prone but very sensitive to any decline in water quality. Sometimes difficult to feed, as tubular mouths accommodate only tiny foods, like brine shrimp, bloodworms, glassworms, livebearers.

260) DACTYLOPTERIDAE

Flying gurnards. Benthic; generally peaceful. Large pectoral fins easily damaged—incapable with care. Eat mostly bottom invertebrates, small fishes. Hardy.



262) SCORPAENIDAE

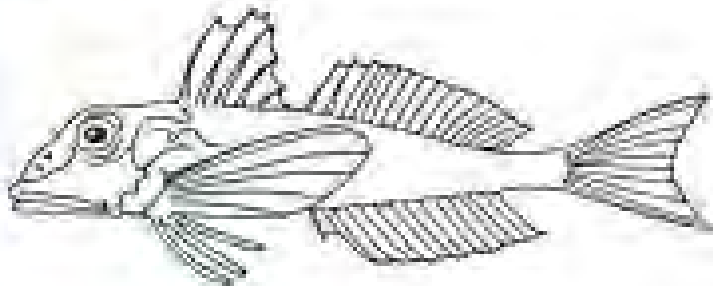
Scorpeniformes. Venomous; handle with extreme care. Usually very hardy; not sensitive to water parameters, but diseases prone. Can swallow fishes; really thin skin aids, but peacocks with scales too large to eat. Prefer coral-squeezed areas with ledges and caverns. Many grow large. Foods: postfish, prawn.

263) SYNANCEIIDAE

Stonefishes. Similar in care to scorpeniformes, but venom is deadly to humans. Best not kept at all.

264) CARACANTHIDAE, 265) APLDACTINIDAE, 266) PATAECIIDAE

Wolfhishes. Benthic; generally peaceful and hardy. Good for reef tanks, as well as invertebrates (specially good camouflage). Feed small feeder fishes, prawn. Generally hardy but uncertain in captivity.

**268) TRIGLIDAE**

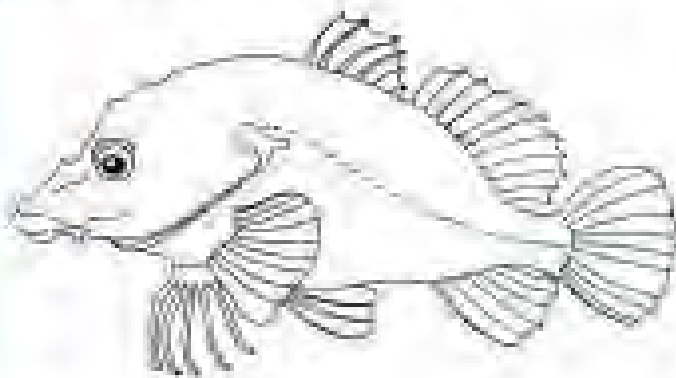
Seabobies. Active benthic predators. Live in fairly open substrate area on which to "crawl" around. Spiny but nonvenomous. Will eat anything that can be swallowed. Sometimes aggressive with conspecifics. Very hardy.

269) PLATYCEPHALIDAE

Flatheads. Similar in care to seabobies.

271) ANOPILOPOMATIDAE,**272) HEXAGRAMMIDAE**

Saberfishes and greenlings. Large, midwater or benthic. Often cold-water species that require large tanks. Feed mostly on crustaceans, molluscs, fishes; good captive foods include chopped fish or shrimp, shrimp, crab, squid. Rocky tanks with purple.

**276) COTTIDAE**

Sculpins. Generally small (but there are exceptions); very tolerant with conspecifics but relatively peaceful with other species. Spiny handle with care. Usually very tolerant of environmental variations, and many are very sensitive to salinity changes. Live plenty of hiding places and a cool, soft tank. Will eat small fishes and invertebrates; good foods include guppies or goldfish, brine shrimp, bloodworms, glassworms, chopped clam, prawn.

280) AGONIDAE

Flounders. Crayfishes; benthic. Tolerant. Sensitive to variations in water quality. Generally get along invertebrates; try brine shrimp, bloodworms, glassworms, small prepared fishes.

281) CYCLOPTERIDAE

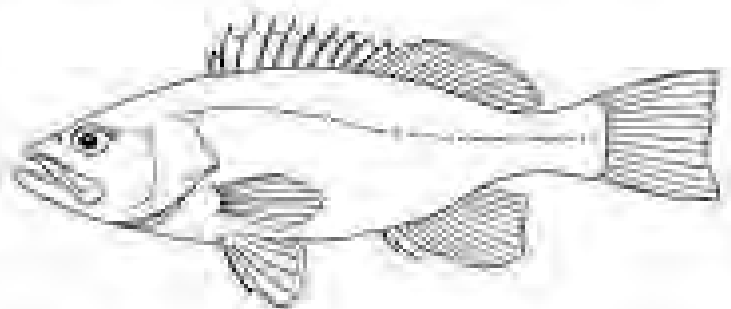
Lumpfishes and wrassefishes. Benthic crayfishes. Need water that is nearly salted. Some suffer legs. Very hardy; low disease problems. Peaceful with anything too large to swallow. Foods: chunks of clam, squid, shrimp, crab, also brine shrimp and brachyurus for smaller species.

282) CENTROPOMIDAE

Snappers. Large shallow water, estuarine predators. Not big in reef tanks. Require plenty of light swimming room. Eat mostly live fishes but may accept chunks of fish, molluscs, crustacean meats. Fairly tolerant of salinity variations. Fairly hardy. Related family (Anagrasidae—often considered subfamily of Centropomidae) includes the small planktivorous glassfishes, which are peaceful and hardier.

283) PERCICHTHYIDAE

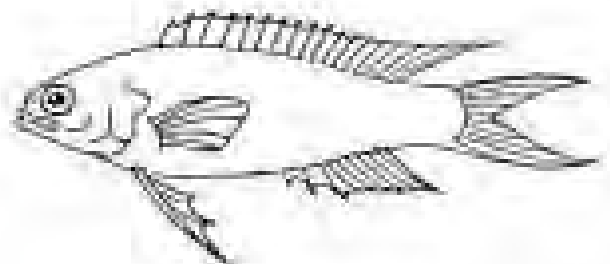
Temperate basses. Very large, generally suitable only for large public aquaria. Very active but docile. Sensitive to water quality fluctuations.

**284) SERRANIDAE**

Groupers and sea basses. Larger-mouthed predators, often aggressive with conspecifics but peaceful with other fishes if they cannot be swallowed. Will eat crustaceans and some molluscs but have most other invertebrates store. Like to dig in bottom substrate. Coral-squeezed with drabbery grates preferred. Many very large when full-grown. Foods: feeder fishes, chopped clam, squid, shrimp, crab. Very hardy.

285) GRAMMISTIDAE

Scyphistres. Peaceful but will eat small fishes. Hardy; disease resistant. However, when stressed or attacked, may release a toxic mucus that can kill tankmates. Shy; coral cover preferred. Often territorial. All foods accepted.



286) PSEUDOCROMIDAE, 287) GRAMMIDAE

Dottybacks and damselfishes (especially). Mostly tropical. Small (mostly) grouper-like fishes, generally on reef border but in littoral to sub-turbines. May be aggressive with conspecifics, however. Prefer heavily aquascaped tanks with lots of hiding places. Good in reef-aquaria. Most are hardy fishes. Small foods: brine shrimp, bloodworms, glassworms, small pieces of chopped clam or shrimp. They will learn to take flake foods and other prepared diets.

288) PLESIOPIDAE

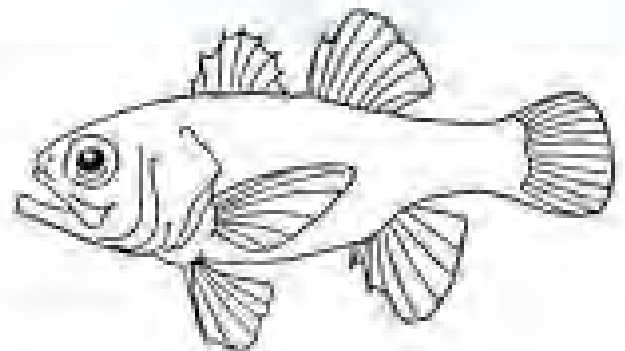
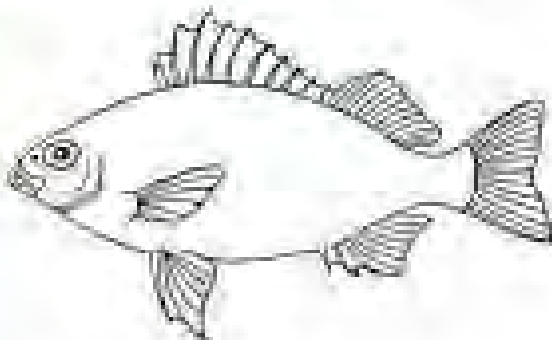
Clayminors or roundheads. Big at first, but very hardy. Like sand-reef grinders. May be aggressive with conspecifics. Usually slow to react at first—start with live pupae and make sure to have shrimp, brine, chopped clam, prepared foods (very durable resistant).

289) ACANTHOCLINIDAE

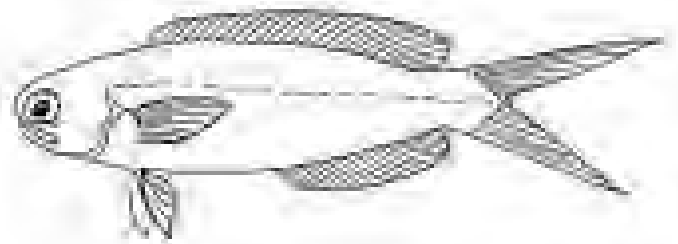
Wabbs and vane (w/ dottyback) (Pseudochromidae)

290) GLAUCOSOMATIDAE

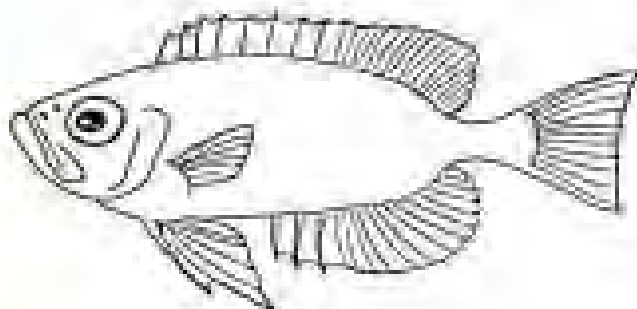
Similar to serranids in appearance, habits, and care.

**297) APOGONIDAE**

Castrofishes. Most small and peaceful. Good to reef tanks. Somewhat aggressive. Many are colorful fishes. Most spawned in aquaria. Mostly tropical temperatures. Hardy and resistant to disease and water quality variations. Foods: brine shrimp, bloodworms, glassworms, chopped clam, shrimp. Larger species will eat reef coral (leaves).

**291) TERAPONIDAE, 293) KUHLIIDAE**

Groupers and groupers. Schools preferred. Large (especially) aquaria. Very hardy but prone to disease. Very tolerant of water quality fluctuations. Wide salinity tolerance. Foods: brine shrimp, bloodworms, shrimp, all prepared foods, freeze fishes.

**299) SILLAGINIDAE, 300) MALACANTHIDAE**

Shoebirds and filefishes. Most aquarium species are small, colorful, and shy. Feed mostly on small invertebrates. Good for reef aquaria. Often feed poorly, but good tanks would include live brine shrimp, copepods, glassworms, chopped clam. They are very sensitive to any fluctuation in water quality. Prone to transport shock, especially with coral.

301) LABRACOGLOSSIDAE, 302) LACTARIIDAE

Filefishes and filefishes. Moderate schooling fishes; large species will school. Feed mostly on small fishes, incompatible with smaller fishes.

303) POMATOMIDAE

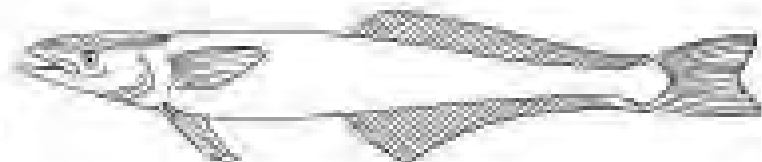
Bluefishes. Rarest and schooling predators. Incompatible with all other species. Very large tanks needed. Fairly hardy. Wide salinity tolerance.

304) RACHYCENTRIDAE

Cobia. Active, very large. Feed on fishes and crustaceans, so incompatible with most other species.

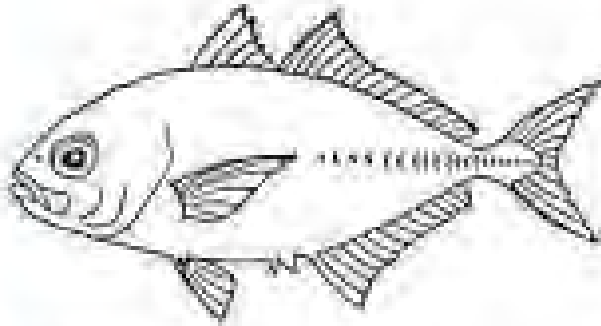
296) PRIACANTHIDAE

Bigeyes. Nocturnal predators, peaceful and shy with all they cannot swallow. Prefer dark overhangs and probes in their tanks. Hardy, but some too large for average home aquaria.



305) ECHENEIDIDAE

Remoras. Very hardy in aquaria. May attach to larger fishes with suckers (for transport only; no injury is involved). However, this does annoy some fishes. Best hosts are sharks. Live frozen prepared foods accepted with gusto.

**306) CARANGIDAE**

Jackies. Fast-moving schooling fishes. Fairly hardy but require large tanks. Sometimes prone to mass-mortality attacks. Many species have lateral-line malfunctions. Will eat small fishes but are usually peaceful with those of like size. Foods: live, chopped clam, shrimp, squid.

307) NEMATISTIDAE

Posidonians. Care similar to Carangidae.

308) CORYPHAENIDAE

Dolphinfishes. Young specimens, sometimes kept but are delicate; feed almost shrimp, bloodworms. Adults are swift, pelagic—not suitable for any but large public aquaria.

309) APOLECTIDAE

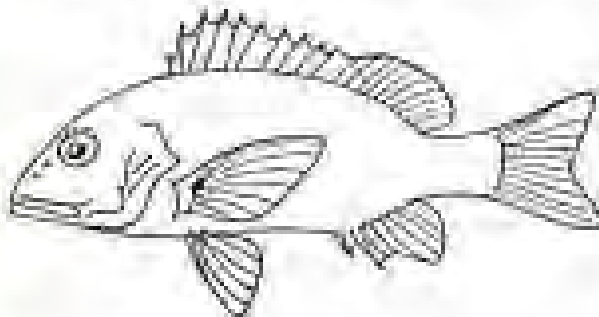
Habits and care similar to Carangidae.

310) MENIDAE, 311) LEIOGNATHIDAE, 312) BRAMIDAE

Moonfish, slipmouths, goniids, respectively. Mostly ocean schooling fishes. Peaceful but active; spacious tanks necessary. Sensitive to fluctuations in water quality. Foods: small fishes, live shrimp, bloodworms, squid, chopped clam.

314) ARIPIIDAE

Australian swimmer. Midwater schoolers feeding on small fishes. Cool water; large tanks. Hardy but seldom used.

**315) EMMELICHTHYIDAE, 316) LUTJANIDAE, 317) CAESIONIDAE**

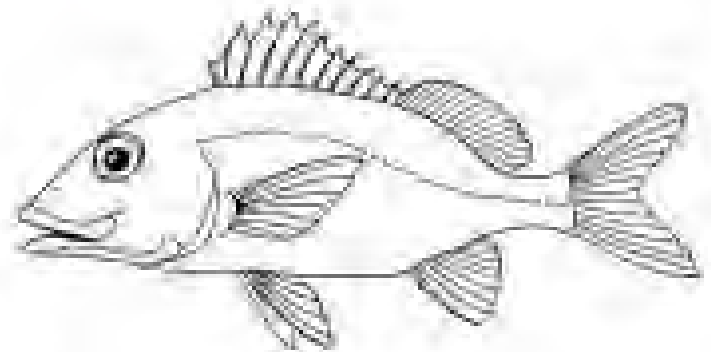
Rovers, snappers, fishers, respectively. Bottom to midwater schooling fishes. Very hardy. All prone to disease. Not sensitive to water quality fluctuations, and many species are euryhaline. Problems with fishes too large to swallow. Many species grow large and need big tanks. Coral/rock aquascape. All foods accepted.

318) LOBOTIDAE

Trochets. Very hardy, euryhaline. Young specimens need planted tanks for camouflage. Peaceful with large fishes, but eat small ones. Most grow large but live fairly sedentary; provide caves for shelter.

319) GERREIDAE

Mojarris. Small active schooling fishes. Fishes of maximum hardy euryhaline. Need plenty of open swimming room. Feed on plankton. Crustaceans—live ones almost a good substitute.

**320) HAEMULIDAE, 321) INERMIDAE, 322) SPARIDAE**

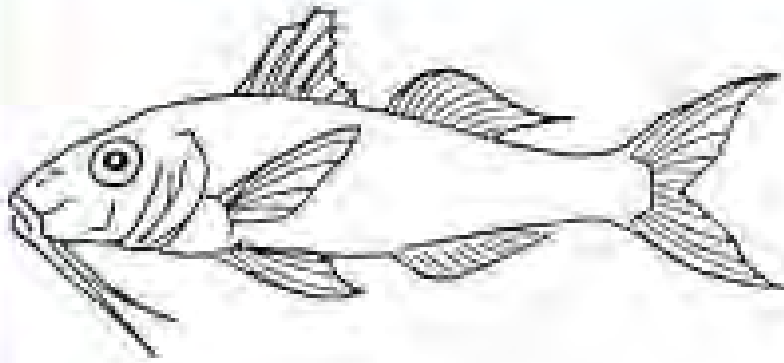
Drums, boneknives, porgies, rockfishes. Generally snapper-like fishes. Midwater to bottom-dwelling. Very hardy; disease resistant. Tolerant of variations in water quality. Coral/rock/reef aquascape. Often aggressive. All foods taken, but many species also graze on algae.

324) LETHRINIDAE, 325) NEMIPTERIDAE

Emperors and threadfin beams. Similar in appearance, behavior, and requirements to snappers.

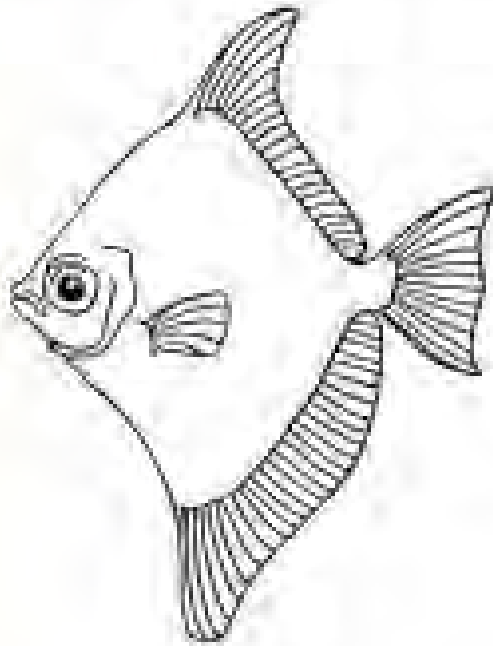
**328) SCIAENIDAE**

Drums. Bottom dwellers feeding on detrital invertebrates. Fairly hardy but tropical species are prone to Cryptosporidium infection. Most species (except the very largest) are peaceful and shy. Coral/rock aquascape. Prefer groups of same species. Foods: live shrimp, bloodworms, glassworms, chopped clam, frozen prepared foods.



327) MULLIDAE

Goatsbeards. Use barbels to find benthic invertebrates. Evolved swimming. Hardy when acclimated, but very prone to bacterial issues. Pinnate. Soft substrate substrate. Foods: chopped, whole shrimp, live, live shrimp, bloodworms, all prepared foods.



328) MONODACTYLIDAE

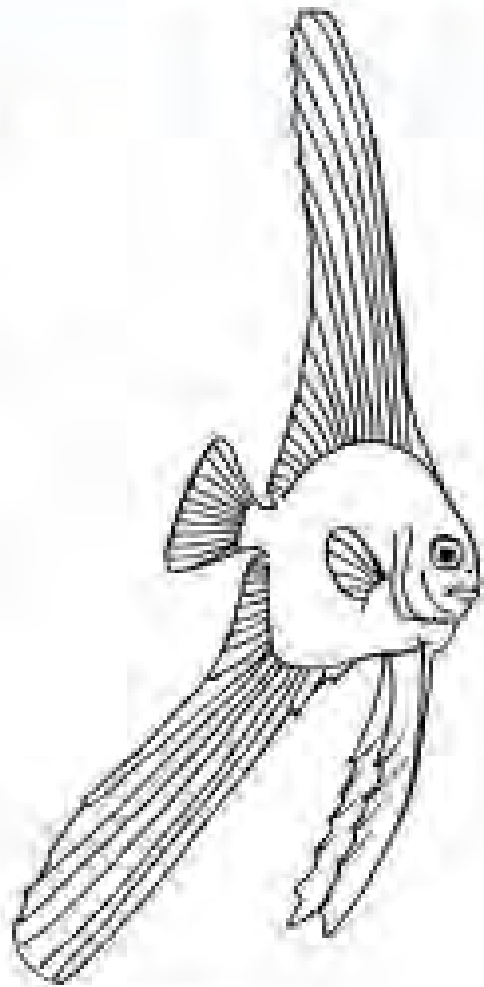
Wings. Breeds in marine. Planted aquatic roots and rocks as decorations. Pinnate groups of same species, but tend to be scrappy. Generally peaceful with other species. Not overly sensitive to water quality, but prone to ich. Foods: bloodworms, live shrimp, glassworms, prepared foods.

329) PEMPHERIDAE

Swampers. Small fishes. School in massive shoals in open water adjoining reefs; large tanks necessary. Very delicate and sensitive, not often seen in the hobby. Feed on planktonic invertebrates—by live shrimp and bloodworms.

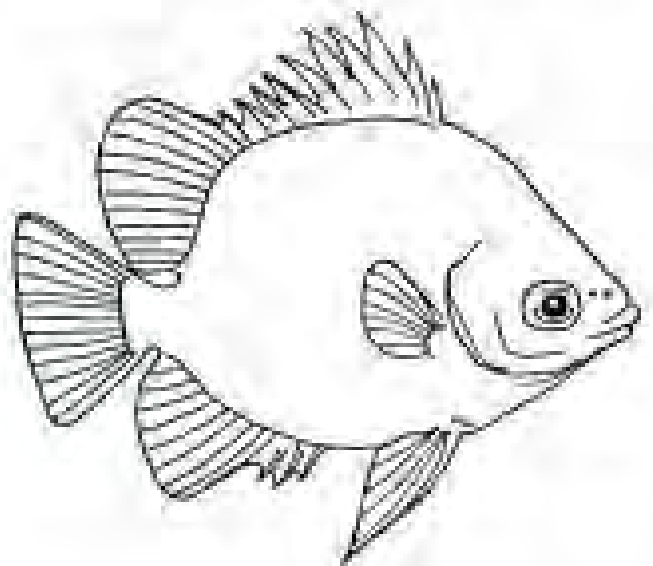
330) KYPHOSIDAE

Sea chubs. Open-water swimmers; large sizes. Often reach a large size. Very hardy. Peaceful but kill the small fishes. Algae necessary in diet. Other foods include clam, squid, crabs, prawn.



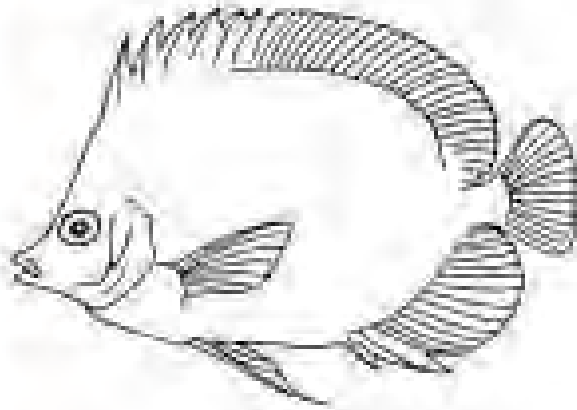
335) EHIPPIIDAE

Spadefishes and butterflyfishes. Very hardy (with the exception of Pinnate pinnates) but slow growth rate. Very peaceful. Young prefer plant flakelets for camouflage. Feed very deep tanks. Corals/rocks should be present. All foods taken vigorously.

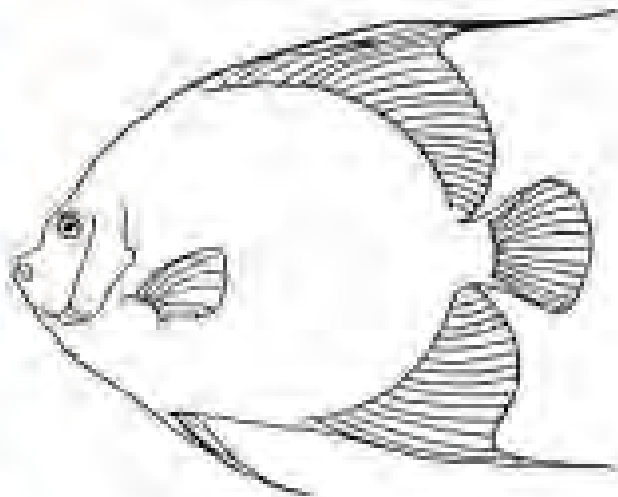


336) SCATOPHAGIDAE

Scorpaeniformes. Medium to massive, very hardy but prone to lymphocystis. Not overly aggressive but sometimes fin eaters. Form schools but are often scrappy with conspecifics. Algae necessary in tank. Other foods: brine shrimp, bloodworms, prepared foods.

**338) CHAETODONTIDAE**

Butterflyfishes. Very beautiful reef fishes. Of various families. Some feed only on live coral and are almost impossible to breed alive in captivity. Most are sensitive to any change in water quality, and some are fairly disease-prone. Butterflyfishes can very peaceful with other species but may be aggressive with conspecifics, except for mixed pairs collected together. Foods: brine shrimp, bloodworms, glassworms, chopped clam, frozen crushed foods.

**339) POMACANTHIDAE**

Angelfishes. Hardy with relatively few exceptions. Not sensitive to most variations in water quality, but some suffer in the presence of high nitrate. Most are fairly disease-resistant but some species are prone to lymphocystis. Generally peaceful, but large specimens are often dominant fishes. Often aggressive with conspecifics. Don't look aggressive with lots of rocks will partition territories. Algae very necessary in tank. Other foods: brine shrimp, bloodworms, glassworms, chopped clam, green, boiled spinach.

340) ENOPLOSIDAE

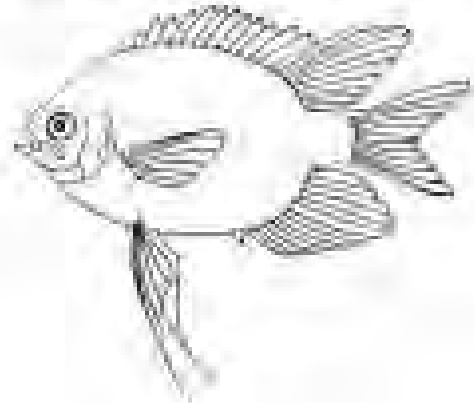
Chromis. Hardy, accepts all foods.

343) OPLEGNATHIDAE

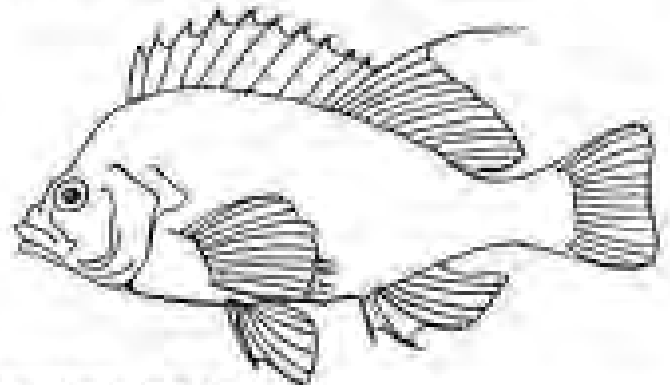
Wrasse. Peaceful but may eat small fishes, will consume most crustaceans and many mollusks. Considered aquarium fishes. Foods: clam, chopped clam.

345) EMMIOTOCIDAE

Surge wrasse. Most have odd habits, but are otherwise hardy. Some reach a large size. Lymphocystis. Peaceful but will eat small items. Algae necessary in tank. Rocky reef aquarium.

**346) POMACENTRIDAE**

Damselfishes (including anemonefishes). Very hardy and resistant to disease. Very scrappy with conspecifics, and very territorial in territories with other species. Lots of coral anemones will help to break up territories. Among the easiest of marine fishes to breed, they are parents-guarding substrate scavengers. Anemonefish will be excellent. Algae is also welcome.

**348) CIRRHITIDAE**

Filefishes. Demic predators. Like high coral heads as perches and vantage points. Some species grow rather large. Peaceful to heavily hardy. Considered aquarium fishes. Foods: guppies, bloodworms, brine shrimp, chopped clam, prepared foods.

350) AFLODACTYLIDAE, 351) CHILODACTYLIDAE, 352) LATRIDIDAE

Morwongs and relatives. Generally similar to morwongs in habits and care, but most are somewhat larger.

353) OWSTONIIDAE, 354) CEPOLIDAE

Owstoniids and sandfishes. Somewhat delicate, but generally available. Feed on small invertebrates.

355) MUGILIDAE

Mullet. Fast-swimming schoolers. Euryhaline. Excellent jumpers—tanks must be well-covered. Feed on small invertebrates in situ-stalk, but will accept most aquarium foods. Sensitive to fungal infections. Prone to transport shock; acclimated carefully. Large open-ocean tanks necessary.

356) SPHYRAENIDAE

Barracudas. Large midwater predators. Some are schooling fishes. Very large tanks needed. Fussy; handle with care. Usually accept only live fishes, but occasional specimens will sometimes accept chunks of fish. Hardy and long-lived, but aggressive and difficult to house with other fishes.

357) POLYNEMIDAE

Threadfin. Barbed fishes. Poecilia affinis. Feed on small fishes and crustaceans.

**358) LABRIDAE**

Wrasses. Most very hardy and peaceful. Most are at least territorial with conspecifics—provide plenty of room. Most invertebrates will not be tolerated except for small crustaceans. Many burrow in sand; soft substrates needed. Coral aquascapes with few exceptions, all foods will be taken. Good for reef aquaria.

359) ODACIDAE

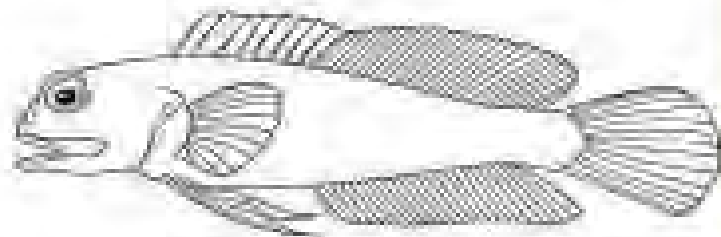
Red wrasse. Wrasse, but unique. Cool water and dimly lit aquariums preferred.

**360) SCARIDAE**

Parrotfishes. Moderately hardy, but some species are delicate. Often difficult to feed. Coral heads heavily encrusted with algae necessary in diet. Other foods: brine shrimp, chopped clam, blood-worms. Peaceful with other fishes but sometimes aggressive with conspecifics. Some species very large and have big teeth.

361) BATHYMASTERIDAE, 362) ZOARCIDAE, 363) STICHAETIDAE, 364) PHOLIDIDAE, 365) ANARHCHADIDAE

Deep-sea, bottom-dwelling, and bottom-dwelling forms. Very large. Cool to cold water. Most eat benthic invertebrates, but some that can be caught will also be eaten. Stock aquascapes with coral preferred. Very hardy. Foods: whole or chopped fish, clam, squid, also shrimp and crab.

**375) OPISTHONATHIDAE**

Lythamids. Deep-sea. Excavate burrows in sand and gravel for cover. Very territorial with conspecifics, but conflicts are largely brief. Peaceful with other species. Good with most invertebrates; especially in reef aquaria. Hardy. Foods: brine shrimp, blood-worms, prepared foods.

376) CONGROGADIDAE

Congroids. Very hardy. Some are euryhaline. Aggressive with many tankmates (both fish and invertebrates). Best in captivity. Foods: golden chopped clam, green flake and clams needed for protein.

379) NOTOGRAPTIDAE

Similar to Lythamids in habits and care.

380) PHOLIDICTHYIDAE

Correct threes. Hardy. Peaceful groups of conspecifics. Consideration with sandy bottom. Peaceful. All foods accepted.

381) TRICHODONTIDAE

Seafoamers. Almost parasites. Need soft sand for burying. Incompatible with fishes small enough to swallow. Somewhat delicate and disease prone. Food: Small feeder fishes.

382) TRACHINIDAE

Wrassefishes. Voracious. Small fishes to Atlantic croakers. Seldom kept.

383) URANOSCOPIDAE

Stopscore. Capable of delivering stinging but additional electrical shock. Ambush predators; soft sand needed for spawning. Will eat any fishes and crustaceans small enough to swallow. Some quite large and need big tanks. Foods: small live fishes as well as shrimp and crustaceans. Very hardy.

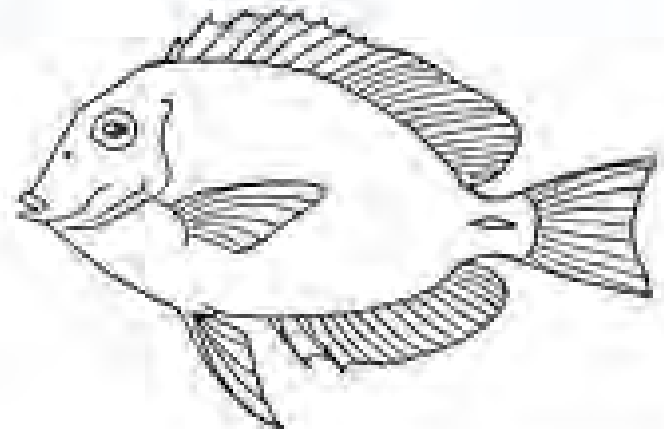
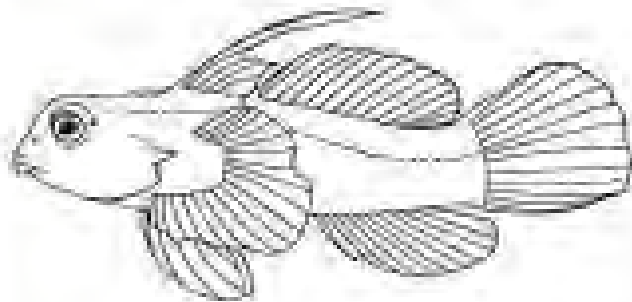
384) TRICHONOTIDAE, 385) CREEDIDAE, 386) LEPTOSCOPIDAE, 388) MUGILOIDIDAE

Sanddowns, sandperches, and relatives. Similar to sandfishes and sandflats in habits and care.



**390) TRIPTERYGIIDAE, 391) DACTYLOSCOPIDAE,
392) LABRISOMIDAE, 393) CLINIDAE, 394) CHAE-
NOPSIDAE, 395) BLENNIIDAE**

Blennies and their relatives. Most are small, benthic fishes. Often very territorial with both conspecific and other species, provide plenty of room. Generally hardy, disease resistant, and tolerant of variations in water quality. Provide rocky caves and plenty of plants. Most eat small invertebrates, and algae is an important dietary item to many species. Other foods: pine shrimp, bloodworms, glass-worms, chopped clam, most prepared foods including flake food.



409) ACANTHURIDAE

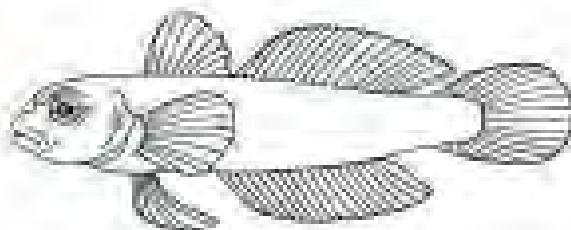
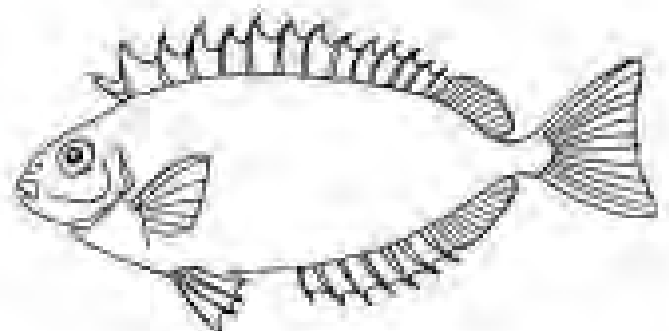
Surgefishes. Algal grazers. Peaceful with other species; may be aggressive with conspecifics. Generally hardy but somewhat prone to flounder and Cryptosporidium. Coral anemone: Foods: bristle/echinoid and vegetable-based prepared foods, brine shrimp, blood-worms, chopped clam.

399) CALLIONYMIDAE

Dragonets. Small macropredators. Some fairly often very delicate. Excellent for reef tanks. Very peaceful with other fishes, but may fight among themselves. Very slow-moving, deliberate swimmers that cannot outpace with voracious feeding sea urchinfishes. Foods: brine shrimp, bloodworms, glassworms.

402) ELEOTRIDIDAE

Sheeper gobies. Ambush predators. Surprised. Lethargic; need shallow flows in streams. Very hardy and disease resistant. Many grow large; big tanks needed. Flouki, sharks, or Wrasse. Foods: small fishes, shrimp of beef heart, clam, squid, shrimp.



403) GOBIIDAE

Cave-dwelling macropredators. Most small and peaceful, but territorial with their own species. Most fairly hardy. Some commonly bred in captivity (especially Gobiosoma sp.). Coral anemone: Including empty mollusc shells. Excellent in reef tanks. Foods: brine shrimp, bloodworms, glassworms, prepared foods.

**404) GOBIODIDAE, 405) TRYPAUCHENIDAE, 407)
MICRODESMIDAE**

Spine-like gobies. Some are burrowers; soft substrate needed. Feed on small benthic invertebrates. Delicate and inborn seen.

410) SIGANIDAE

Rabbitfishes. Coral anemone herbivores; handle with care. Habitat anemone or the Acanthuridae.

412) GEMPYLIDAE, 413) TRICHIURIDAE

Snake mackerels and chubbies. Elongate, pelagic, often deep water. Prochlorium. Delicate; never bred.

414) SCOMBRIDAE

Tuna and mackerels. Extremely active pelagic schooling fishes. Too large except for public aquaria. Delicate and prone to shock. Many very large. Food almost exclusively small fishes.

415) XIPHIIDAE, 417) ISTIOPHORIDAE

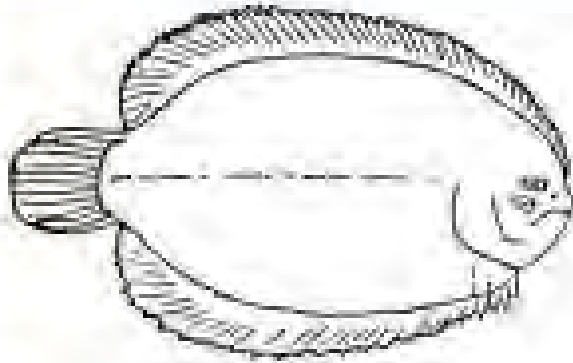
Swordfishes. Pelagic piscivores. Do not adapt well to captivity—both easily damaged.

419) CENTROLOPHIDAE, 420) NOMEIDAE

Mozambique and anthias. Other commercial with polydora in other pelagic midwaters. Usually small and peaceful, but some fishes will be in target from predator fish. Somewhat delicate and sensitive to water quality variations. Feed on pelagic invertebrates; good substitutes are brine shrimp and bloodworms.

423) STROMATEIDAE

Barramundies. Open-water schooling fishes. Delicate; prone to stress, short injury and shock. Foods: brine shrimp, bloodworms.

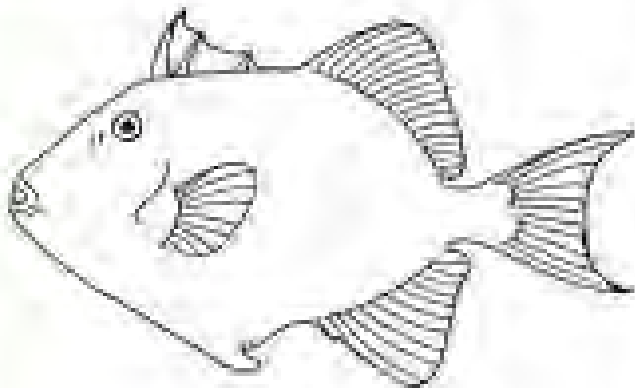


**432) PSETTODIDAE, 434) BOTHIDAE, 435) PLEU-
RONECTIDAE, 436) CYNOGLOSSIDAE, 437) SO-
LEIDAE**

Habitats: Benthic; need soft sand for burrow. Some very deep. Often invertebrate. Tropical as well as coldwater species. Generally omnivore with often fishes but will eat most benthic invertebrates. Fairly hardy. Food: Crustacea, fish, shrimp, snails, squid.

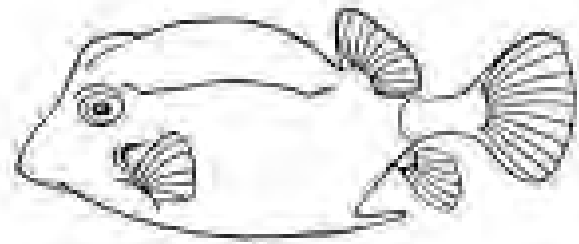
438) TRIACANTHODIDAE, 439) TRIACANTHIDAE

Spines and hypodermis. Relatively peaceful. Feed on small benthic invertebrates. Seldom kept.



440) BALISTIDAE

Triggerfishes and filefishes. Triggerfish are aggressive, sometimes downright vicious. Filefish are a bit more peaceful but still may get ratty. Teeth and jaws powerful. Large specimens may take. Given to rearranging aquariums. Large triggerfish may attack humans, divers, etc. Incompatible with most other species, and usually aggressive with conspecifics. Will eat anything remotely edible and may attack things that are not.

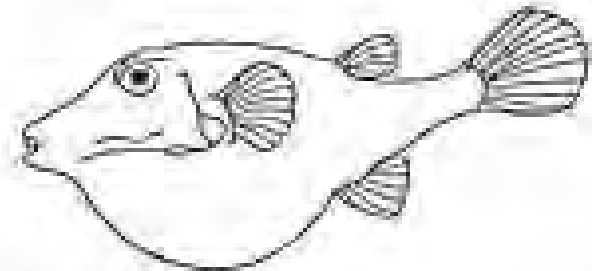


441) OSTRACIONIDAE

Boxfishes. Very peaceful and shy. Slow moving, do not compete well with more active fishes. Some species will escape traps when allowed to approach with care. Fairly hardy but may be slow to begin feeding. Food: fish shrimp, bloodworms, chopped meat.

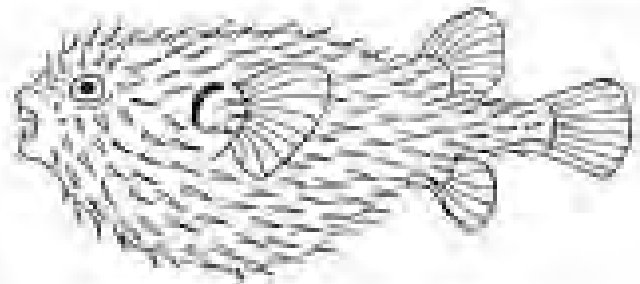
442) TRIDONTIDAE

Three-toothed puffers. Habits and care as for Tetraodontidae.



443) TETRAODONTIDAE

Puffers. Very hardy. May be noisy. May puffs when disturbed. If inflated with air, ventral often translucent. All foods taken.



444) DIODONTIDAE

Porcupinefishes. Habits and care as for Tetraodontidae.

445) MOLIDAE





Mollies. Huge, hardy fish. Feed mostly on detritus.

CAPTIONS

The captions, where possible, identify the fishes, the family they belong to, their range, feeding habits, aquarium lighting, temperament, aquarium decor, and swimming habits, as well as the specific gravity of the water that best suits them, optimum temperature, greatest size, and the minimum capacity of the aquarium that best suits them.

SYMBOLS

Feeding:

-  represents prepared foods, usually frozen. Very few marine fishes will do well on flake food although some types are quite nutritious.
-  represents invertebrates. Although the symbol is obviously a worm, most marine fishes prefer crustaceans and/or molluscs. Many fishes have specific diets and must be supplied certain invertebrates or they will decline (ex. some butterflyfishes need live coral polyps). Please refer to the family write-ups in this book as well as other TFH marine fish books for more detailed information.
-  represents live fishes.
-  represents plant matter. This is usually in the form of algae and can be provided rather easily by growing your own in the tank or buying prepared algal foods from your dealer.

Light: These symbols represent the amount of light recommended for the tank. Remember, however, that some fishes are nocturnal and will be seen only when light levels are low. Others are at their best during the days, showing their colors off in direct sunlight.

 Bright with occasional sunlight

 As dark as possible as long as fishes are visible





 Bright, no sunlight

Aggressiveness/Compatibility: Here again there is commonly no cut-and-dried distinction. A fish may be quite peaceful when small, but its appetite grows with its size and it may soon be foraging on the other tankmates. Others may be aggressive only during spawning seasons.

 Peaceful community fish

 Not recommended for beginners

Tank Decoration:

-  represents a tank that should be supplied with plant life (normally algae). In some instances algae must be supplied because the inhabitants of the tank feed on it; in others it is decorative.
-  represents coral for the tropical tanks and rocks for the more temperate aquaria.
-  represents a balance between the two where corals (or rocks) are used along with plants for decoration. The new reef tanks would come under this designation.
-  represents a sand or gravel bottom. Sand is required by some fishes (burrowers, etc.), while marine aquarists use dolomite or similar material in order to maintain the proper pH balance.

Tank Level: Fish Locality: Many species are tied to one area of the tank. There are bottom species (like flatfishes) and surface fishes (like needlefishes) and some that will stay just about in the middle range all the time. Most species of marine fishes are wanderers and will swim pretty much around the tank investigating every corner.

 Bottom swimmer

 Swims in middle of water

 No special swimming level

 Top swimmer

°C: the temperature in degrees centigrade at which the species is most comfortable. There is of course a range at which the fish will live that extends above and below this figure.

sg: specific gravity. Again, this is an optimum figure. Specific gravity can be easily obtained by use of a simple hydrometer.

cm: the length of a fish (standard length). This is the maximum length a fish is said to attain. Most specimens seen are normally much smaller, and aquarium specimens are generally smaller yet. Many species grow so large only juveniles are kept by aquarists. An inch equals 2.54 cm.

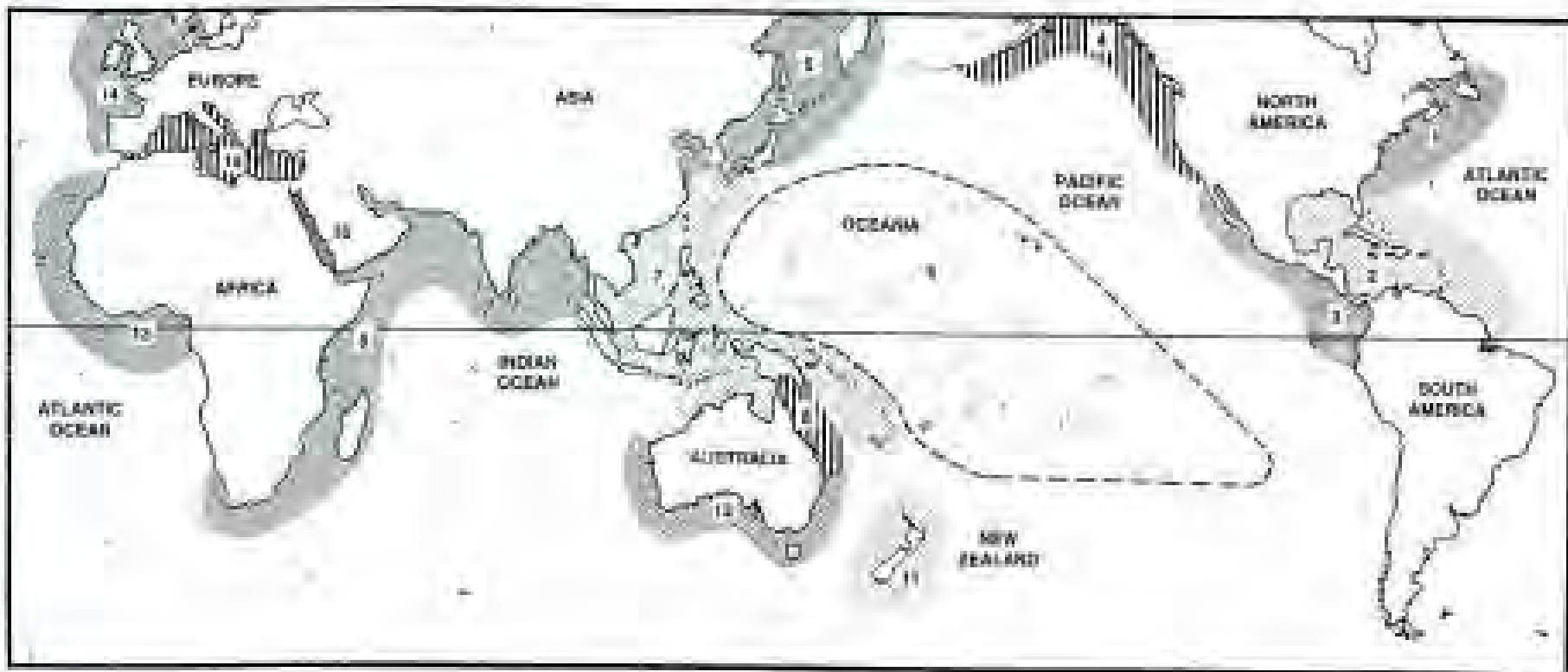
L: the smallest possible size of the tank needed for an average adult of that particular species, given in liters. A gallon is equal to about 3.8 liters.

Range Number:

Range numbers give approximate ranges of the species. Ex. Indo-Pacific = 6-9; Indo-West Pacific = 7-9.

Family Number:

Family numbers follow the species name. The list of families is given on pp. 24 and 25.



Geographic regions are keyed to numbers for easy species caption reference. These regions are highly arbitrary and many species do not confine themselves to these limits. Also species may inhabit only a small portion of the delimited area. But this does give a reasonable approximation of the fishes' range which should help aquarists determine the environment needed for proper maintenance of the fishes.

- | | |
|--------------------------------|---------------------------------------|
| 1. Temperate Western Atlantic. | 9. Northern and Western Indian Ocean. |
| 2. Tropical Western Atlantic. | 10. Red Sea. |
| 3. Tropical Eastern Pacific. | 11. New Zealand. |
| 4. Temperate Eastern Pacific. | 12. Temperate Australia. |
| 5. Temperate Western Pacific. | 13. Tropical Eastern Atlantic. |
| 6. Oceania. | 14. Temperate Eastern Atlantic. |
| 7. Tropical Western Pacific. | 15. Mediterranean Sea. |
| 8. Great Barrier Reef. | |

Systematic List of the Families of Fishes of the World (after Nelson, 1984)

Myxiniiformes

1 Myxiniidae

Petromyzontiformes

2 Petromyzontidae

Chimaeriformes

3 Callorhynchidae

4 Chimaeridae

5 Rhinoschannidae

Hexanchiformes

6 Chlamydoselachidae

7 Hexanchidae

Heterosetiformes

8 Heterosetidae

Lamniiformes

9 Rhinodontoidea

10 Orectolobidae

11 Odontaspidae

12 Lamnidae

13 Sphyrnidae

14 Carcharhinidae

15 Sphyrnidae

Squaliformes

16 Squalidae

17 Pristigasteridae

18 Squatinidae

Rajiformes

19 Pracidae

20 Torpedinidae

21 Rhinobatidae

22 Rajidae

23 Dasypidae

24 Paramyrinae

25 Hexanurinae

26 Myliobatidae

27 Mobulidae

Ceratodontiformes

28 Ceratodontidae

Lepidosireniformes

29 Lepidosirenidae

30 Pristigasteridae

Coelacanthiformes

31 Latimeriidae

Polypteriformes

32 Polypteridae

Acipenseriformes

33 Acipenseridae

34 Polyodontidae

Lepisosteiformes

35 Lepisosteidae

Amiiformes

36 Amiidae

Osteoglossiformes

37 Osteoglossidae

38 Pantodontidae

39 Hiodontidae

40 Notopterygiidae

41 Mamiroidae

42 Gymnarchidae

Elopiformes

43 Elopidae

44 Megaloptidae

45 Albulidae

46 Holmichthys

47 Notopterygiidae

48 Lipogrenidae

Anguilliformes

49 Anguillidae

50 Heterenchelyidae

51 Monacanthidae

52 Xenodermidae

53 Myxalidae

54 Muraenidae

55 Nemalomyxidae

56 Cyprinidae

57 Syngnathidae

58 Ophichthidae

59 Nettastomatidae

60 Colomesuridae

61 Macrocephalichthyidae

62 Carapidae

63 Derichthyidae

64 Synbranchidae

65 Scopharyngidae

66 Eurypharyngidae

67 Mesogobidae

Clupeiformes

68 Demicarpidae

69 Clupeidae

70 Escaulidae

71 Ethicentridae

Gomorynchiformes

72 Gomidae

73 Gomorynchidae

74 Kneriidae

75 Phacotomidae

Cypriniformes

76 Cyprinidae

77 Polichthyidae

78 Homalopteridae

79 Colobryidae

80 Gymnocyprinidae

81 Catostomidae

Characiformes

82 Uthencidae

83 Hemirhamphidae

84 Curimatidae

85 Anostomidae

86 Erythrinidae

87 Leptocentridae

88 Gyrinocheilidae

89 Crenopoma

90 Hemiscidae

91 Characidae

Siluriformes

92 Diplopterygiidae

93 Ictaluridae

94 Iliopteridae

95 Crasopterygiidae

96 Siluridae

97 Schilberidae

98 Pangasidae

99 Amblyopidae

100 Ampelidae

101 Alysiidae

102 Sisoridae

103 Garidae

104 Heteropneustidae

105 Clariidae

106 Glyptidae

107 Malapteruridae

108 Aridae

109 Plotosidae

110 Macropodidae

111 Oxocentridae

112 Auchenocentridae

113 Psectrogasteridae

114 Agonistidae

115 Helogasteridae

116 Carapidae

117 Hypoclinemusidae

118 Apterodontidae

119 Trichomyxidae

120 Citharichthyidae

121 Latimeriidae

122 Antrodipidae

Gymnastiformes

123 Gymnastidae

124 Rhomphichthyidae

125 Hypoclinemusidae

126 Agostomyxidae

127 Gymnastidae

128 Heteropneustidae

Salmoniformes

129 Esocidae

130 Umbelidae

131 Argentinidae

132 Heterostichidae

133 Ophichthidae

134 Alepocephalidae

135 Sciaenidae

136 Lepidogasteridae

137 Osmeriidae

138 Pleurocentridae

139 Salangidae

140 Simulacridae

141 Seropinnidae

142 Galaxiidae

143 Salmonidae

Scorpaeniformes

144 Scorpaenidae

145 Stenopodidae

146 Pseudisotomidae

147 Chelodactylidae

148 Serranidae

149 Acanthidae

150 Melanostomidae

151 Malacostridae

152 Macrouridae

Autipiliformes

153 Autipilidae

154 Chlorophthalmidae

155 Scopelogadidae

156 Neoselacheidae

157 Synstomatidae

158 Gigartidae

159 Palaeoptilidae

160 Anoptilidae

161 Evermannellidae

162 Orestiidae

163 Abducatidae

164 Pseudisotomidae

Mycophiformes

165 Myxopoda

166 Myxopoda

Percopsiformes

167 Percopidae

168 Artedioderidae

169 Amblyopsidae

Gadiformes

170 Macrasteridae

171 Meridae

172 Melanostichidae

173 Bregmacaraeidae

174 Gadidae

175 Merlucciidae

176 Merlucciidae

Ophidiiformes

177 Ophidiidae

178 Carapidae

179 Bythichidae

180 Aphyonidae

Batrachoidiformes

181 Batrachoididae

182 Lophidae

183 Anemuridae

184 Brachmannichthyidae

185 Channidae

186 Oligocephalidae

187 Canthopoma

188 Cernidae

189 Gygisidae

190 Notopterygiidae

191 Tanaphrynidae

192 Orestiidae

193 Thaumatoichthyidae	Pogoniformes	315 Emmelichthyidae	385 Uranocepidae
194 Centropomidae	253 Pogonidae	316 Lotiniidae	386 Trichonotidae
195 Dicentridae	Syngnathiformes	317 Caenidae	388 Crocodyidae
196 Hemirhamphidae	254 Anisotomidae	318 Labridae	389 Leptocarpidae
197 Melanocidae	255 Ptereleutherae	319 Gerresidae	387 Percophidae
Gobiesociformes	256 Macrohamphoridae	320 Haemulidae	388 Mugilidae
198 Gobiocidae	257 Centropomidae	321 Inermidae	389 Chaetobranchiostygidae
199 Albatidae	258 Sclerocentridae	322 Sparidae	390 Tripterygiidae
Cyprinodontiformes	259 Syngnathidae	323 Centracanthidae	391 Dactyloscopidae
200 Esocetidae	Dactylopteriformes	324 Lethrinidae	392 Labrisomidae
201 Hemirhamphidae	260 Dactylopteridae	325 Nemipteridae	393 Clinidae
202 Belontiidae	Sybraanchiiformes	326 Scaenidae	394 Chaetopidae
203 Serranocycloidae	261 Sybraanchiidae	327 Mullidae	395 Hemimidae
204 Oryziatidae	Scorpaeniformes	328 Monodactylidae	396 Icostidae
205 Adrianchthyidae	262 Scorpaenidae	329 Pempheridae	397 Schuelleridae
206 Haracanthidae	263 Synscaenidae	330 Leptocentridae	398 Ammodytidae
207 Aplocheilidae	264 Caracanthidae	331 Bathylagidae	399 Callionymidae
208 Cyprinodontidae	265 Aphrastinidae	332 Tetracidae	400 Dracunculidae
209 Gobiidae	266 Pteridae	333 Caracidae	401 Rhyacichthyidae
210 Anabtetidae	267 Gongyopodidae	334 Kyphosidae	402 Eleotridae
211 Jernynidae	268 Triptidae	335 Eplippidae	403 Geomariidae
212 Psectrodidae	269 Phycophagidae	336 Scauphagidae	404 Gobioididae
Achariiformes	270 Haplachthyidae	337 Rhinoprenidae	405 Trypaenidae
213 Achariidae	271 Anagloperomidae	338 Chirocentridae	406 Kraemeriidae
214 Isacidae	272 Hexagrammidae	339 Pomacentridae	407 Maculididae
215 Molamulidae	273 Zanclusidae	340 Drepanidae	408 Kuridae
216 Nemichthyidae	274 Neomastichthyidae	341 Pentaceridae	409 Acanthuridae
217 Thalassochthyidae	275 Eremidae	342 Nandidae	410 Siganidae
Lampriformes	276 Coriidae	343 Opiposetidae	411 Scombridae
218 Lampridae	277 Centromorphidae	344 Cichlidae	412 Genyptidae
219 Vellidae	278 Compharidae	345 Epiplatidae	413 Trichuridae
220 Lophidae	279 Psychrolutidae	346 Pomacentridae	414 Scombridae
221 Radicephalidae	280 Agnidae	347 Gadidae	415 Xiphidae
222 Trachipteridae	281 Cycloptidae	348 Carrhidae	416 Lariidae
223 Roggiaeidae	Perciformes	349 Chirocentridae	417 Leptocentridae
224 Stylipteriidae	282 Centropomidae	350 Aplodactylidae	418 Acanthopidae
225 Anelopidae	283 Percichthyidae	351 Chaetobranchiidae	419 Centropomidae
226 Moxostomidae	284 Serranidae	352 Lariidae	420 Nemidae
227 Eupomotidae	285 Gramminidae	353 Osmocentridae	421 Arminidae
228 Megalomycteridae	286 Parachannaeidae	354 Cephalidae	422 Tetraodonidae
Beryciformes	287 Gramminidae	355 Mugilidae	423 Serranidae
229 Monacanthidae	288 Pleurocentridae	356 Sphyrnidae	424 Anabantidae
230 Trachichthyidae	289 Acanthoclinidae	357 Polycentridae	425 Belontiidae
231 Armatopidae	290 Clupeoidae	358 Labridae	426 Helostomatidae
232 Dicotylidae	291 Terapontidae	359 Odacidae	427 Ophichthidae
233 Anoptogastriidae	292 Batrachidae	360 Scombridae	428 Luciocephalidae
234 Berycidae	293 Kutlidae	361 Bathyrastridae	429 Characidae
235 Haloscentridae	294 Centropomidae	362 Zosteridae	430 Malesombellidae
236 Polymniidae	295 Percidae	363 Sisoridae	431 Chaudhuriidae
237 Stephanoberytidae	296 Pristigasteridae	364 Cryptacanthidae	Pleuronectiformes
238 Melanophthalmae	297 Agostinidae	365 Pleurocentridae	432 Pleurocentridae
239 Gibberichthyidae	298 Dinolestidae	366 Anachichthyidae	433 Clariidae
240 Rondelidae	299 Sillaginidae	367 Pristigasteridae	434 Bithidae
241 Barbacanthidae	300 Malacanthidae	368 Zapruidae	435 Pleuronectidae
242 Ceromidae	301 Labrisomidae	369 Scytalidae	436 Cyprinidae
Zeliformes	302 Lactariidae	370 Berychthyidae	437 Soleidae
243 Paracanthidae	303 Pseudomidae	371 Neohelminthidae	Tetraodontiformes
244 Macromyctridae	304 Rachycentridae	372 Harpagiferidae	438 Tricantrodidae
245 Zelidae	305 Echeineidae	373 Bathyscaenidae	439 Tricantrodidae
246 Oryziatidae	306 Carangidae	374 Channichthyidae	440 Balistidae
247 Grammicolepidae	307 Nemastomatidae	375 Opisthognathidae	441 Ostracidae
248 Cypriidae	308 Chrysocheilidae	376 Gongyopodidae	442 Tristramidae
Gasterosteiformes	309 Aplocheilidae	377 Chasmodesmidae	443 Tetraodontidae
249 Hyporhamphidae	310 Meridae	378 Champsodomidae	444 Dinostomidae
250 Aulorhynchidae	311 Leucorhamphidae	379 Notogasteridae	445 Molidae
251 Gasterosteidae	312 Bramidae	380 Pludichthyidae	
Indostomiformes	313 Cestidae	401 Trichostomidae	
252 Indostomidae	314 Atripidae	382 Pristigasteridae	

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WEIGHTS & MEASURES

CUSTOMARY U.S. MEASURES AND EQUIVALENTS

LENGTH

1 inch (in)	=	2.54 cm
1 foot (ft)	= 12 in =	3048 m
1 yard (yd)	= 3 ft =	9144 m
1 mile (mi)	= 1760 yd =	1609.3 km
1 nautical mile	= 1.152 mi =	1852 km

AREA

1 square inch (in ²)	=	6.4516 cm ²
1 square foot (ft ²)	= 144 in ² =	0.93 m ²
1 square yard (yd ²)	= 9 ft ² =	8.361 m ²
1 acre	= 4840 yd ² =	4046.86 m ²
1 square mile (mi ²)	= 270 acres =	2.59 km ²

WEIGHT

1 ounce (oz)	= 437.5 grains =	28.35 g
1 pound (lb)	= 16 oz =	453.6 kg
1 short ton	= 2000 lb =	907.2 t
1 long ton	= 2240 lb =	1016.1 t

VOLUME

1 cubic inch (in ³)	=	16.387 cm ³
1 cubic foot (ft ³)	= 1728 in ³ =	0.028 m ³
1 cubic yard (yd ³)	= 27 ft ³ =	2.58 m ³
1 fluid ounce (fl oz)	=	2.957 cl
1 liquid pint (pt)	= 16 fl oz =	473.2 l
1 liquid quart (qt)	= 2 pt =	946 l
1 gallon (gal)	= 4 qt =	3.7853 l
1 dry pint	=	550.6 l
1 bushel (bu)	= 64 dry pt =	35.238 l

METRIC MEASURES AND EQUIVALENTS

1 millimeter (mm)	=	0.0394 in
1 centimeter (cm)	= 10 mm =	0.3937 in
1 meter (m)	= 1000 mm =	1.0936 yd
1 kilometer (km)	= 1000 m =	0.6214 m

1 sq centimeter (cm ²)	= 60 mm ² =	0.15 in ²
1 sq meter (m ²)	= 10,000 cm ² =	1.196 yd ²
1 hectare (ha)	= 10,000 m ² =	2.4711 acres
1 sq kilometer (km ²)	= 100 ha =	247.1 m ²

1 milligram (mg)	=	0.035 gram
1 gram (g)	= 1000 mg =	0.353 oz
1 kilogram (kg)	= 1000 g =	2.2046 lb
1 tonne (t)	= 1000 kg =	1.1023 short tons
1 tonne	=	0.9842 long ton

1 cubic centimeter (cm ³)	=	0.033 in ³
1 cubic decimeter (dm ³)	= 1000 cm ³ =	35.3 in ³
1 cubic meter (m ³)	= 1000 dm ³ =	1.3579 yd ³
1 liter (l)	= 1 dm ³ =	26.42 gal
1 hectoliter (hl)	= 100 l =	2.8379 bu

TEMPERATURE



$$\text{CELCIUS}^{\circ} = 5/9 (\text{F}^{\circ} - 32^{\circ}) \quad \text{FAHRENHEIT}^{\circ} = 9/5 \text{C}^{\circ} + 32^{\circ}$$

PICTORIAL IDENTIFICATION SECTION

The following pictorial identification section includes thousands of photographs of marine fishes from around the world. The families are in systematic sequence according to Nelson (1984), or as close to that as practical. (See pages 26 and 27.) The individual photos are coded with a family number for ready reference. In some cases some photos are out of sequence due to reasons beyond our control, but the family numbers should make it easy to place these "orphans" in their proper sequence.

Aquarists can scan through these pages until they find the correct family for the fish they are trying to identify. They can then look more carefully at the species depicted until they find the photo that most closely resembles their fish. One has to remember that differences in size, sex, geography, and even temperament may cause the fish to look different. However, in most cases an identification can be made with reasonable certainty. Once a correct name is arrived at the species can be researched in other references or the caption may provide all the information needed.

The captions are set up as follows:

Line 1: Scientific name and family number

Line 2: Range number (or, in the case of fishes with worldwide distribution, the abbreviation for "circumtropical"), feeding symbol, light symbol, compatibility symbol, tank decor symbol, tank level symbol, temperature in degrees Celsius, specific gravity, size of fish, capacity of tank (Full text dealing with symbols found in the captions begins on page 23.)



Eptatretus stouti 1
4 ~ ● 大 □ □ 14°C sg: 1.022 64 cm 500L



Eptatretus sp. (stout?) 1
4 ~ ● 大 □ □ 14°C sg: 1.022 64 cm 500L



Chimaera phantasma 4
5 ~ ● 大 □ □ 14°C sg: 1.022 100 cm 1200L



Chimaerodeselachus anguineus 8
1, 4, 11, 14 ~ ● 大 □ □ 14°C sg: 1.022 200 cm 2000L



Notorynchus cepedianus 7
Antitropical ~ ● 大 □ □ 20°C sg: 1.022 200 cm 3000L



Heterobranchius perlo 7
Circumtropical ~ ● 大 □ □ 25°C sg: 1.022 137 cm 3500L



Heterodontus japonicus 8
7-9 ~ ● 大 □ □ 26°C sg: 1.022 150 cm 2000L



Heterodontus portusjacksoni 8
12 ~ ● 大 □ □ 26°C sg: 1.022 138 cm 3500L

34



Petromyzon marinus 2
1 ~ ♀ ♂ 14°C sg: 1.020 100 cm 500L

#2



Hydrotaurus collaris 4
4 ~ ♀ ♂ 14°C sg: 1.022 95 cm 1000L



Heterodontus francisci 8
3-4 ~ ♀ ♂ 26°C sg: 1.022 95 cm 1000L



Heterodontus zebra 8
7 ~ ♀ ♂ 26°C sg: 1.022 100 cm 1000L



Heterodontus mexicanus 8
3 ~ ♀ ♂ 26°C sg: 1.022 95 cm 1000L



Rhinodon typus 9
circumtropical ~ ♀ ♂ 26°C sg: 1.022 1000-1200 cm



Stegostoma varium 10
7-9 ~ ♀ ♂ 26°C sg: 1.022 230 cm 2500L



Stegostoma varium 10
7-9 ~ ♀ ♂ 26°C sg: 1.022 230 cm 2500L



Ginglymostoma cirratum 10
1-3ヶ月 26°C sg: 1.022 430 cm 5000L



Ginglymostoma cirratum 10
1-3ヶ月 26°C sg: 1.022 430 cm 5000L



Nebrius concolor 10
7-9ヶ月 26°C sg: 1.022 300 cm 3500L



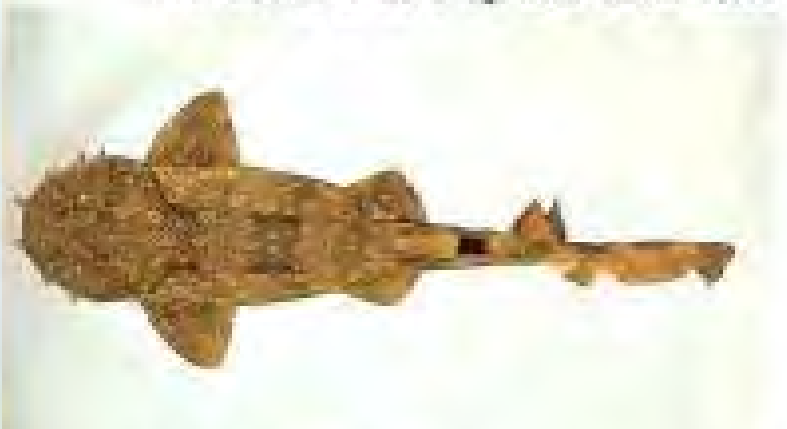
Hemiscyllium trispiculare 10
7-8ヶ月 26°C sg: 1.022 62 cm 1000L



Hemiscyllium ocellatum 10
8ヶ月 26°C sg: 1.022 92 cm 1000L



Orectolobus maculatum 10
12ヶ月 26°C sg: 1.022 320 cm 5000L



Orectolobus japonicus 10 ♂
7ヶ月 26°C sg: 1.022 100 cm 1200L



Orectolobus japonicus 10 ♂
7ヶ月 26°C sg: 1.022 100 cm 1200L



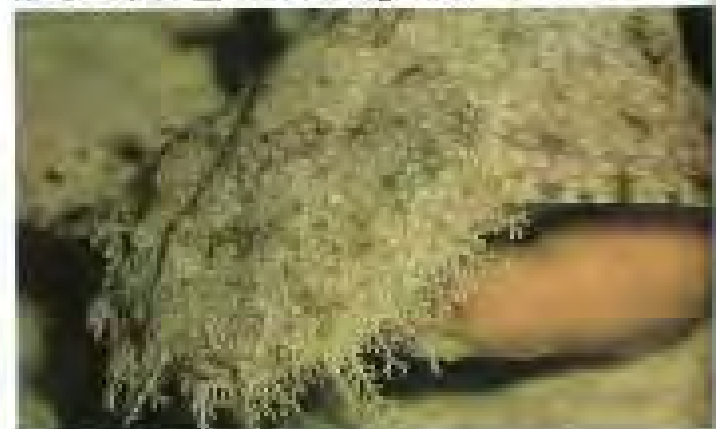
Dactylopus ornatus 10
8~9 ~~~~~ 26°C sg: 1.020 215 cm 3000L



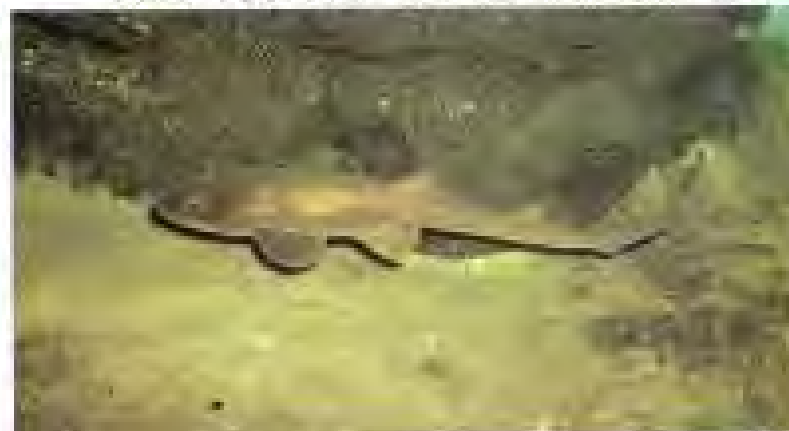
Sutoriactus wardi 10
12~13 ~~~~~ 24°C sg: 1.022 50 cm 500L



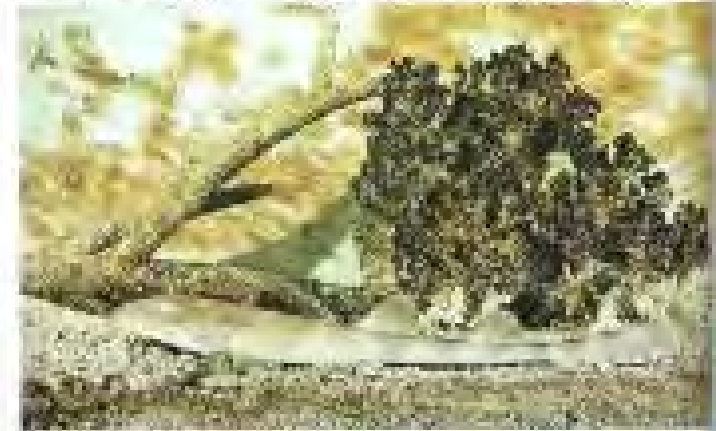
Eurossorhinus dasypogon 10
7-8 ~~~~~ 26°C sg: 1.022 120 cm 2000L



Eurossorhinus dasypogon 10
7-8 ~~~~~ 26°C sg: 1.022 120 cm 2000L



Chiloscylium centusum 10
7-9 ~~~~~ 25°C sg: 1.022 220 cm 3000L



Chiloscylium griseum 10
7-9 ~~~~~ 25°C sg: 1.022 240 cm 3000L



Chiloscylium plagiolum 10
7-9 ~~~~~ 25°C sg: 1.022 100 cm 2000L



Chiloscylium punctatum 10
7 ~~~~~ 26°C sg: 1.022 110 cm 3000L



Odontaspis leurus 11
Circumtropical ~ 0 : ♀ □ 26°C sg: 1.022 318 cm 5000L



Odontaspis ferox 11
Circumtropical ~ 0 : ♀ □ 26°C sg: 1.022 360 cm 5000L



Cetorhinus maximus 12
Circumtemperate ~ 0 : ♀ □ 18°C sg: 1.022 900 cm 5000L



Isurus paucus 12
Circumtemperate ~ 0 : ♀ □ 24°C sg: 1.022 300 cm 5000L



Isurus paucus 12
Circumtemperate ~ 0 : ♀ □ 24°C sg: 1.022 300 cm 5000L



Alopias superciliosus 12
Circumtropical ~ 0 : ♀ □ 26°C sg: 1.022 450 cm 5000L



Halaalurus buergeri 13
7-8 ~ 0 : ♀ □ 26°C sg: 1.022 50 cm 500L



Galeus sauteri 13
7 ~ 0 : ♀ □ 26°C sg: 1.022 40 cm 500L

38



Scyllorhinus canicula 13
13-14 ♀ ♂ ♀ ♂ 24°C sg: 1.022 80 cm 1000L

#6



Chiloscyllium punctatum 10
7 ♀ ♀ ♂ ♂ 26°C sg: 1.022 110 cm 1500L



Cephaloscyllium ventriosum 13
3-4 ♀ ♀ ♂ ♂ 23°C sg: 1.023 100 cm 1500L



Alopiomycterus macleayi 13
8 ♀ ♀ ♂ ♂ 26°C sg: 1.022 60 cm 1000L



Mustelus henrai 14
3-4 ♀ ♂ ♀ ♂ 25°C sg: 1.022 94 cm 2000L



Mustelus manazo 14
7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 150 cm 3000L



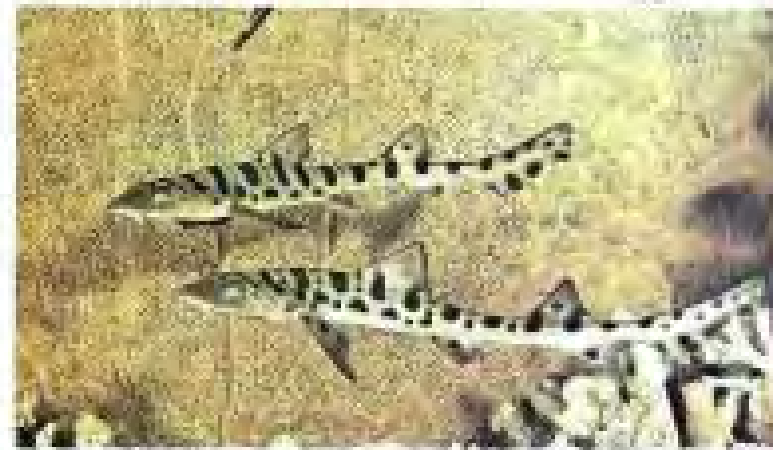
Triaenodon apicalis 14
5, 7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 120 cm 3000L



Triaenodon obesus 14
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 250 cm 5000L



Triakis saylla 14
5,7 ~ ♀ ~ ♂ 大 小 ≡ 25°C sg: 1.022 100 cm 1200L



Triakis semifasciatus 14
4 ~ ♀ ~ ♂ 大 小 ≡ 24°C sg: 1.023 200 cm 2500L



Gallegardo cylieri 14
Circumtrop. ♀ ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.022 730 cm 5000L



Carcharhinus amblyrhynchos 14
6-9 ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.022 250 cm 2500L



Carcharhinus melanopterus 14
6-10 ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.020 200 cm 2000L



Carcharhinus plumbeus 14
Circumtrop. ♀ ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.020 220 cm 2000L



Carcharhinus wheeleri 14
9-10 ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.020 170 cm 2000L



Megaplon brevirostris 14
1-2, 13 ~ ♀ ~ ♂ 大 小 ≡ 26°C sg: 1.020 340 cm 3500L



Rhinodon typus 9



Isurus oxyrinchus 12



Isurus oxyrinchus 12



Galeocerda cuvier 14



Trienodon obesus 14



Carcharhinus longimanus 14



Carcharhinus amblyrinchus 14



Carcharhinus melanopterus 14



Carcharhinus albimarginatus 14



Negaprion acutidens 14



Stegastoma varium 10

Sphyrna lewini 15

Sphyrna zygaena 15



Sphyrna lewini 15





Sphyrna tiburo 15
Circumtrop. 4 0 大 25 26°C sg: 1.022 300 cm 15000L



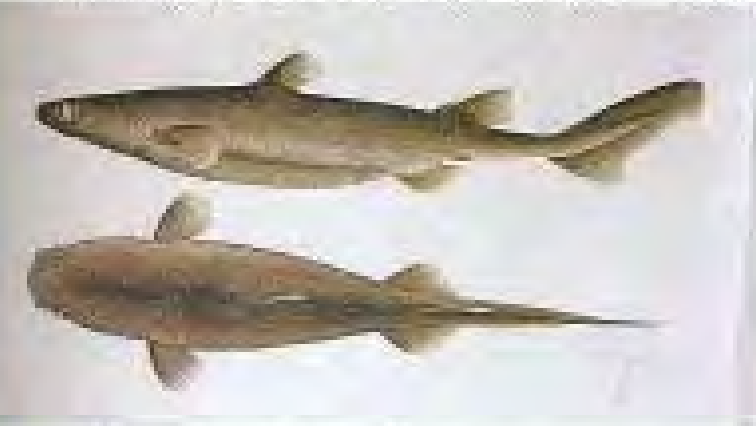
Sphyrna zygaena 15
Circumtemp. 4 0 大 25 26°C sg: 1.022 300 cm 15000L



Sphyrna tiburo 15
Circumtrop. 4 0 大 25 26°C sg: 1.022 300 cm 15000L



Squasus mitsukurini 15
All oceans 4 0 大 25 26°C sg: 1.022 100 cm 2000L



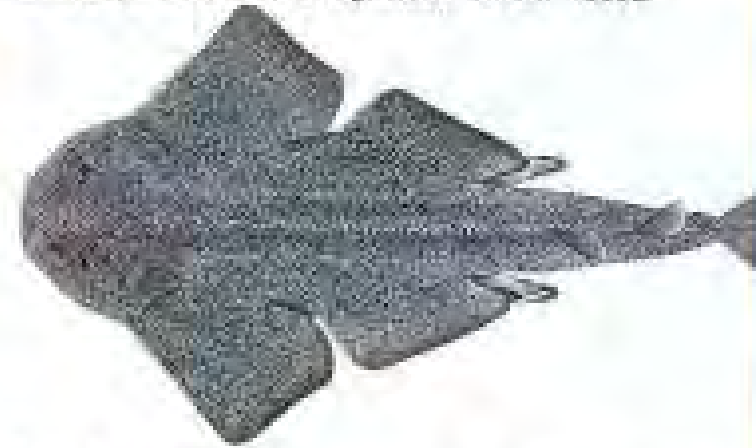
Centroscyllium niger 16
5 4 大 24 24°C sg: 1.023 100 cm 2000L



Squasus suckleyi 16
4 4 大 24 24°C sg: 1.023 75 cm 1500L



Squatina californica 18
4 4 大 21 21°C sg: 1.023 150 cm 2000L



Squatina japonica 18
7 4 大 25 25°C sg: 1.022 300 cm 5000L



Anoxypristis cuspidata 19
6-7, 9-10 ~ ♀ ♂ 26°C sg: 1.022 15000L



Pristis pectinata 19
Trop. All. ~ ♀ ♂ 26°C sg: 1.022 600 cm 15000L



Diplobatis ommata 20
3 ~ ♀ ♂ 26°C sg: 1.022 20 cm 300L



Hypnos monoptyerygium 20
12 ~ ♀ ♂ 22°C sg: 1.020 70 cm 800L



Hypnos subnigrum 20
8, 12 ~ ♀ ♂ 24°C sg: 1.022 70 cm 800L



Narcine brunneus 20
9 ~ ♀ ♂ 26°C sg: 1.022 20 cm 300L



Narke japonica 20
7 ~ ♀ ♂ 26°C sg: 1.022 40 cm 500L



Narcine brasiliensis 20
1-2 ~ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Torpedo nobiliana 20
1, 13-15 ~ ♀ ~ ♂ * □ □ 25°C sg: 1.022 180 cm 3500L



Torpedo sinuspersici 20
9-10 ~ ♀ ~ ♂ * □ □ 26°C sg: 1.022 130 cm 2500L



Torpedo tokionis 20
7 ~ ♀ ~ ♂ * □ □ 26°C sg: 1.022 100 cm 1500L



Trygonorrhina fasciata 21
7-8 ~ ♀ ~ ♂ * □ □ 25°C sg: 1.020 100 cm 1500L



Platyrhina sinensis 21
5 ~ ♀ ~ ♂ * □ □ 24°C sg: 1.023 70 cm 700L



Platyrhinoides miserialis 21
4 ~ ♀ ~ ♂ * □ □ 18°C sg: 1.024 91 cm 1500L



Zapteryx exasperata 21
3 ~ ♀ ~ ♂ * □ □ 26°C sg: 1.022 91 cm 1500L



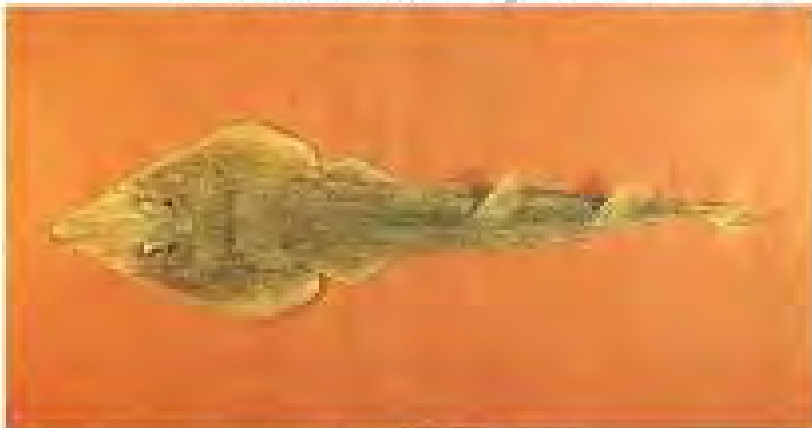
Rhinobatos productus 21
4 ~ ♀ ~ ♂ * □ □ 18°C sg: 1.024 170 cm 3500L



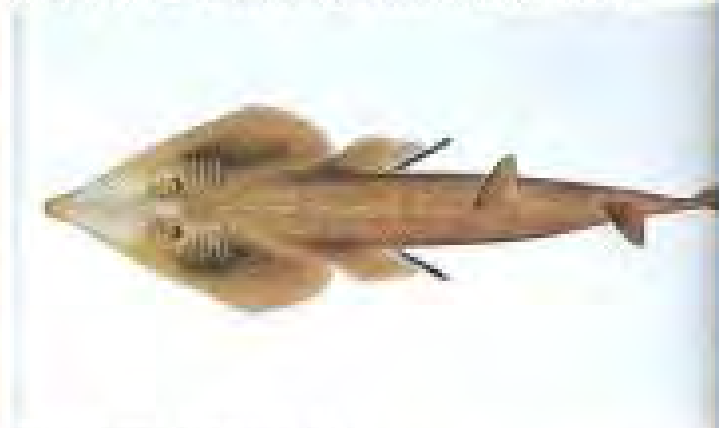
Rhinobatos armatus 21
7-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 120 cm 1200L



Rhinobatos formosensis 21
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Rhinobatos brynicephalus 21
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Rhinobatos schlegelii 21
7, 9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Rhinobatos vincentiana 21
12 ~ ♀ ♀ ♀ ♀ 23°C sg: 1.024 100 cm 1000L



Raja porosa 22
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Taeniura lymma 23
7-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 250L



Trygonoptera testaceus 23
7-8, 12 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Himantura varvaki 22
6-10 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 200 cm 3500L



Amphoristius kuhlii 22
7-10 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 50 cm 1500L



Gymnura micrura 22
7, 9 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.020 44 cm 1500L



Gymnura japonica 22
5, 7, 9 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 180 cm 3500L



Dasyatis akayei 22
5, 7 ㎞ ㎞ ㎞ ㎞ 25°C sg: 1.022 45 cm 800L



Dasyatis brevicaudata 22
9, 11-12 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 210 cm 3500L



Dasyatis hawaiiensis 22
6 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 120 cm 1500L



Dasyatis sephen 22
5, 7-9 ㎞ ㎞ ㎞ ㎞ 26°C sg: 1.022 200 cm 3500L



Dasyatis americana 22
2 ♀ ~ 0 ♂ 24°C sg: 1.022 90 cm 1500L



Urogymnus africanus 22
9 ♀ ~ 0 ♂ 26°C sg: 1.022 100 cm 1500L



Urolophus aurantiacus 22
5 ♀ ~ 0 ♂ 24°C sg: 1.022 40 cm 800L



Urolophus mucosus 22
12 ♀ ~ 0 ♂ 22°C sg: 1.022 35 cm 700L



Urolophus halleri 22
8 ♀ ~ 0 ♂ 26°C sg: 1.022 56 cm 800L



Urolophus jamaicensis 22
2 ♀ ~ 0 ♂ 26°C sg: 1.022 62 cm 800L



Urolophus lobatus 22
12 ♀ ~ 0 ♂ 23°C sg: 1.024 200 cm 3500L



Urolophus concentricus 22
3 ♀ ~ 0 ♂ 26°C sg: 1.022 45 cm 800L

Aetobatus narinari 26



Himantura uarnak 23



Ahyobatus djeddensis 21



Manta birostris 27

Taeniura lymma 23

Taeniura melanospita 23



Rhinoptera neglecta 26

Torpedo marmoratus 20





Aetobatus nanhai 26
Circumtrop. ♀ ~ ♀ ♂ ~ ♂ 26°C sg: 1.022 230 cm (5000L)



Myliobatis tobijei 26
7 ♀ ~ ♀ ♂ ~ ♂ 26°C sg: 1.022 130 cm 4000L



Mobula diabolis 27
7-12 ♀ ~ ♀ ♂ ~ ♂ 26°C sg: 1.022 178 cm (5000L)



Manta hamiltoni 27
3, 6-9 ♀ ~ ♀ ♂ ~ ♂ 26°C sg: 1.022 670 cm (5000L)



Manta birostris 27
Circumtrop. ♀ ~ ♀ ♂ ~ ♂ 26°C sg: 1.022 670 cm (5000L)

50



Latesila chalumnae 31
9 ~ ♀ ♂ ♀ ♀ 21°C sg: 1.023 135 cm 5000L

#17



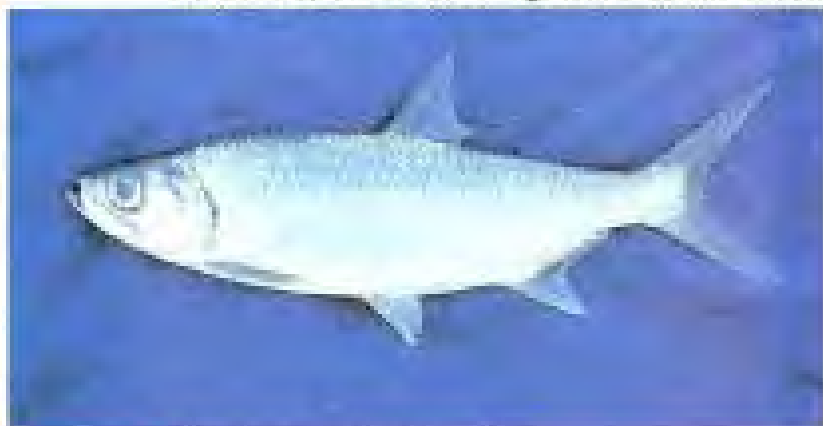
Elops hawaiiensis 43
6, 7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 1500L



Elops machnata 43
6-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 2000L



Megalops atlanticus 44
2, 13 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.018 240 cm 5000L



Megalops cyprinoides 44
12 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.018 180 cm 2500L



Megalops atlanticus 44
2, 13 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.018 240 cm 5000L



Pterothrissus gressu 45
5 ~ ♀ ♂ ♀ ♀ 24°C sg: 1.023 60 cm 1500L



Alburnus vulpex 45
Circumtrop. ~ ♀ ♂ ♀ ♀ 26°C sg: 1.018 60 cm 1500L



Gymnophthalmus kidako 54
5, 7 ~ 4 ~ 1 ~ 2 ~ 25°C sg: 1.022 80 cm 400L



Rhinomuraena quiescens 54
7/21/04 10:00 AM 26°C sg: 1.022 120 cm 1000L

Gymnathorax sp. 54
6/9/04 10:00 AM 26°C sg: 1.022 200 cm 800L





Anguilla dieffenbachii 49
11-12 ㎖ ~ ● 大 罎 □ 24°C sg: 1.018 90 cm 1000L



Anguilla anguilla 49
13, 14 ㎖ ~ ● 大 罎 □ 21°C sg: 1.018 90 cm 1000L



Anguilla japonica 49
5 ㎖ ~ ● 大 罎 □ 22°C sg: 1.018 100 cm 1000L



Anguilla australis 49
12 ㎖ ~ ● 大 罎 □ 23°C sg: 1.018 100 cm 1000L



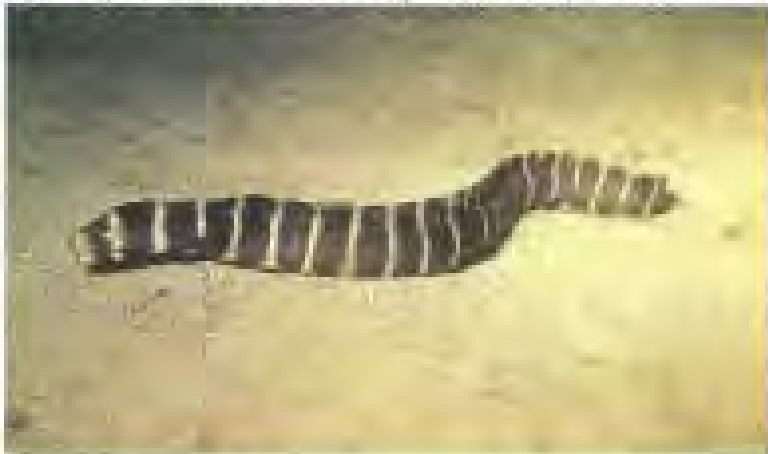
Moroneg mitchilli 51
7, 9 ㎖ ~ ● 大 罎 □ 26°C sg: 1.020 39 cm 400L



Muraenichthys sp. 58
6, 7 ㎖ ~ ● 大 罎 □ 26°C sg: 1.020 30 cm 300L



Echidna catenata 54
2 ㎖ ~ ● 大 罎 □ 26°C sg: 1.020 70 cm 500L



Echidna polyzona 54
7 ㎖ ~ ● 大 罎 □ 26°C sg: 1.022 60 cm 500L

54



Gymnomuraena rebrui 54
3, 6, 7 ♀♂ 26°C sg: 1.022 90 cm 500L

#19



Gymnothorax eurostus 54
5-7, 9 ♀♂ 26°C sg: 1.022 80 cm 500L



Gymnothorax limbratus 54
8 ♀♂ 26°C sg: 1.022 80 cm 500L



Uropterygius concolor 54
7, 9 ♀♂ 26°C sg: 1.022 32 cm 300L



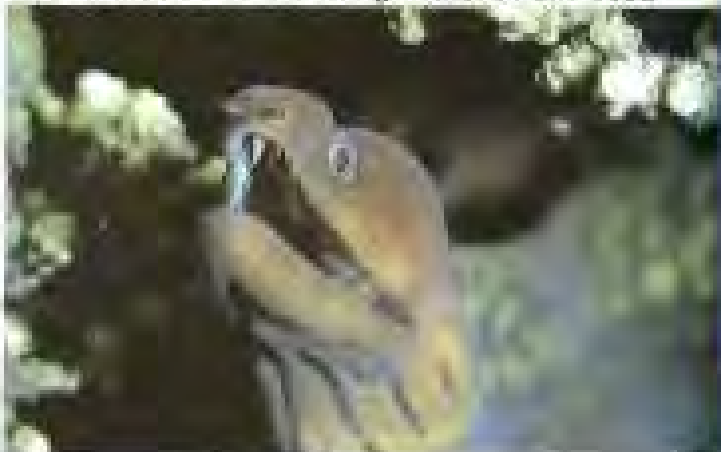
Gymnothorax rupestris 54
6-10 ♀♂ 26°C sg: 1.022 55 cm 300L



Gymnothorax steindachneri 54
6 ♀♂ 25°C sg: 1.023 91 cm 700L



Gymnothorax thyrsoides 54
7 ♀♂ 26°C sg: 1.022 80 cm 500L



Gymnothorax woodwardi 54
12 ♀♂ 26°C sg: 1.022 75 cm 500L



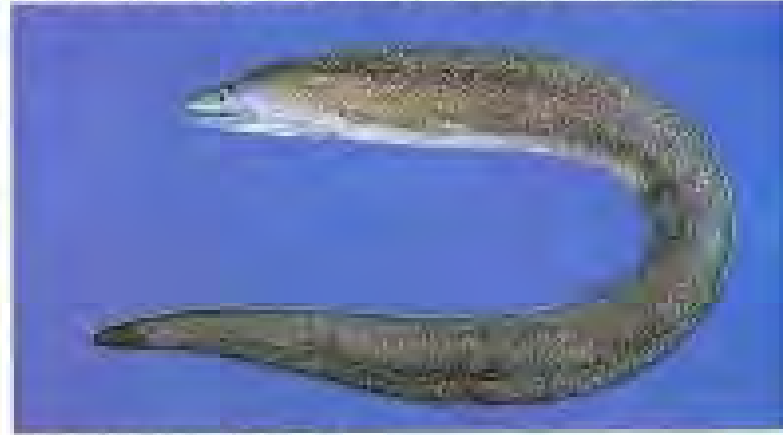
Gymnothorax flavimarginatus 54
3-6-9 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 100 cm 500L



Sideres picta 54
6-9 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 68 cm 400L



Gymnothorax moringa 54
2 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 70 cm 400L



Gymnothorax vicinus 54
2 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 120 cm 500L



Gymnothorax castaneus 54
3 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 120 cm 500L



Gymnothorax funebris 54
1, 2 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 240 cm 800L



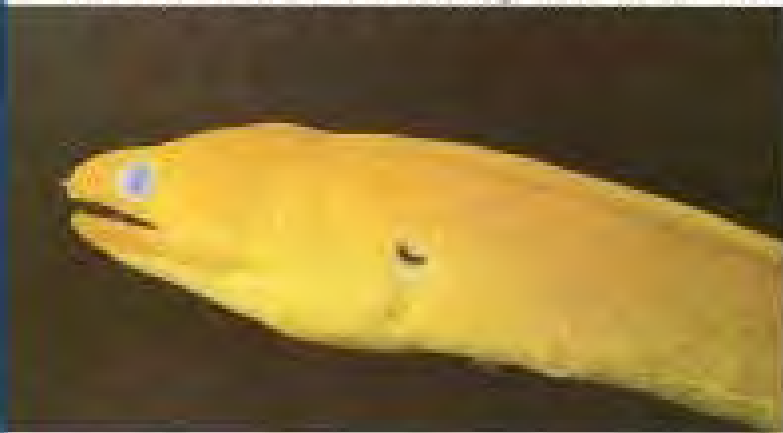
Gymnothorax panamensis 54
3 ~ ~ ~ ● 大 西 □ 26°C sg: 1.022 30 cm 200L



Gymnothorax mordax 54
3-4 ~ ~ ~ ● 大 西 □ 24°C sg: 1.023 200 cm 800L



Gymnothorax flavimarginatus 54
3, 6-9 ♀♂ 大 西 26°C sg: 1.022 80 cm 400L



Gymnothorax meistremus 54
9 ♀♂ 大 西 26°C sg: 1.022 25 cm 120L



Gymnothorax nudivomer 54
6, 10 ♀♂ 大 西 26°C sg: 1.022 100 cm 400L



Gymnothorax flavimarginatus 54
3, 6-9 ♀♂ 大 西 26°C sg: 1.022 80 cm 400L



Gymnothorax margaritophorus 54
7, 9 ♀♂ 大 西 26°C sg: 1.022 36 cm 200L



Gymnothorax meleagris 54
7, 9 ♀♂ 大 西 26°C sg: 1.022 90 cm 400L



Gymnothorax permistus 54
9 ♀♂ 大 西 26°C sg: 1.022 75 cm 300L



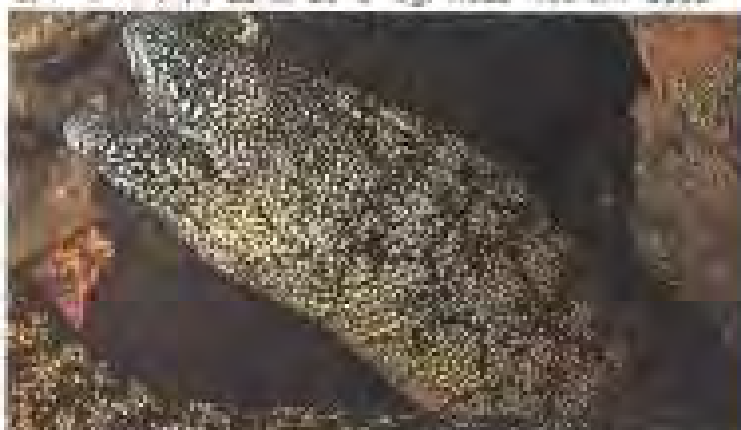
Gymnothorax sp. 54
12 ~ 14 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 60 cm 300L



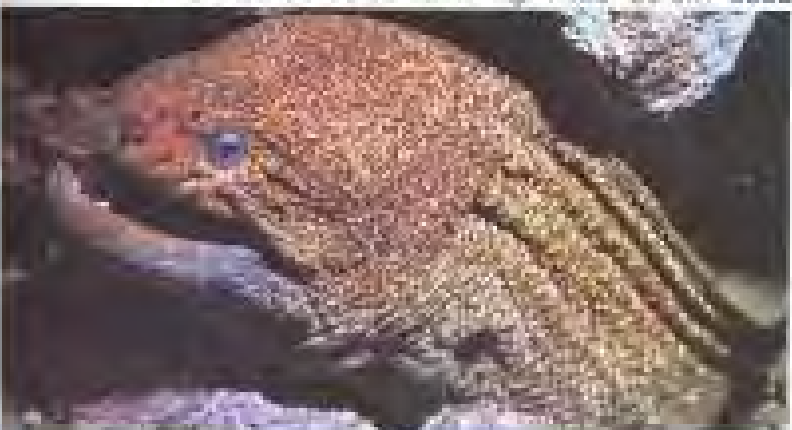
Gymnothorax leucostigma 54
5, 7 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 100 cm 500L



Gymnothorax nubilus 54
11 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 50 cm 500L



Gymnothorax aiodako 54
5, 7 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 80 cm 400L



Gymnothorax oboesus 54
11 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.024 178 cm 2000L



Gymnothorax prionodon 54
11-12 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.024 80 cm 500L



Gymnothorax ramosus 54
11 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.024 80 cm 500L



Moraena melanota 54
13 ~ ♀ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 140 cm 1400L

58



Siderea picta 54
6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 68 cm 300L

#23



Gymnothorax favagineus 54
6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 250 cm 800L



Gymnothorax undulatus 54
6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 150 cm 500L



Gymnothorax flavimarginatus? 54
3, 6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 80 cm 400L



Gymnothorax zonipectus 54
6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 31 cm 100L



Gymnothorax prasinus 54
12 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 30 cm 100L



Gymnothorax flavimarginatus 54
3, 6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 80 cm 400L



Muraena pardalis 54
6-9 ~ ♀ ~ ● 大 鱗 □ 26°C sg: 1.022 100 cm 400L



Echidna nebulosa 54
6-9 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 70 ㎝ 300L



Echidna nebulosa 54
6-9 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 70 ㎝ 300L



Enchelycore bayari 54
7, 9 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 70 ㎝ 300L



Gymnothorax brederi 54
6-9 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 65 ㎝ 300L



Gymnothorax favagineus 54
6-9 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 250 ㎝ 2500L



Siderea grisea 54
9-10 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 38 ㎝ 400L



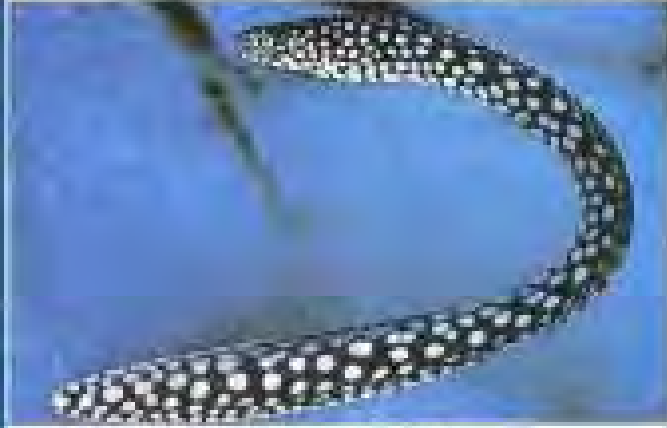
Gymnothorax javanicus 54
6-10 ㎝ ㎍ ㎎ ㎏ □ 26°C sg: 1.022 250 ㎝ 1000L



Gymnothorax javanicus 54
6-10 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 250 cm 1000L



Gymnothorax prasinus 54
11 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 100 cm 400L



Muraena melanotis 54
13 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 100 cm 400L



Muraena helena 54
13 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 50 cm 400L



Muraena lentiginosa 54
3 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 50 cm 400L



Muraena plicasydra 54
3 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 50 cm 400L



Muraena minckleyi 54
2, 13 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 50 cm 400L



Drepanorygus tigrinus 54
8 ㎝ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1,022 120 cm 800L



Callecheilus marmoratus 58
6-9ヶ月 雄・雌 飼育 25°C sg: 1.022 57 cm 600L



Pisodonophis cancrivorus 56
7, 9ヶ月 雄・雌 飼育 25°C sg: 1.022 100 cm 1000L



Muraenichthys tasmaniensis 58
12ヶ月 雄・雌 飼育 25°C sg: 1.023 35 cm 300L



Zeluronus semilineatus 58
6-9ヶ月 雄・雌 飼育 25°C sg: 1.022 60 cm 500L



Myrichthys acuminatus 58
2ヶ月 雄・雌 飼育 25°C sg: 1.022 102 cm 1000L



Myrichthys colubrinus 58
7-9ヶ月 雄・雌 飼育 25°C sg: 1.022 75 cm 700L



Myrichthys maculosus 58
3, 6-9ヶ月 雄・雌 飼育 25°C sg: 1.022 100 cm 1000L



Myrichthys oculatus 58
2ヶ月 雄・雌 飼育 25°C sg: 1.022 100 cm 1000L



Conger japonicus 62
5ヶ月 水 26°C sg: 1.022 240 cm 2500L



Ariosoma impressa 62
2ヶ月 水 25°C sg: 1.022 18 cm 200L



Conger cinereus 62
7,8ヶ月 水 26°C sg: 1.022 103 cm 1000L



Conger wilsoni 62
7,8ヶ月 水 26°C sg: 1.022 150 cm 1500L



Heteroconger helis 62
2ヶ月 水 26°C sg: 1.022 51 cm 500L



Gorgasia preclara 62
7,8ヶ月 水 26°C sg: 1.022 40 cm 400L



Teurioconger dugesi 62
3ヶ月 水 26°C sg: 1.022 63 cm 600L



Teurioconger sp. 62
7ヶ月 水 26°C sg: 1.022 30 cm 300L



Rhinomuraena quaesita 54
7 ~ 9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 120 cm 1000L



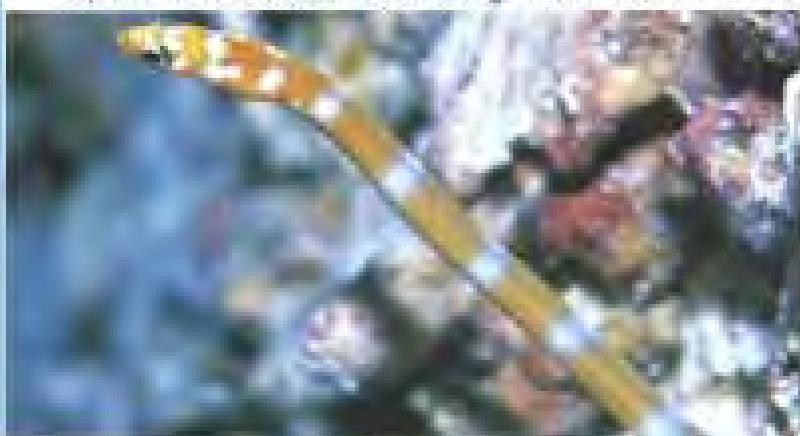
Rhinomuraena quaesita 54
7 ~ 9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 120 cm 1000L



Myrichthys maculatus 58
3, 5-9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 100 cm 1000L



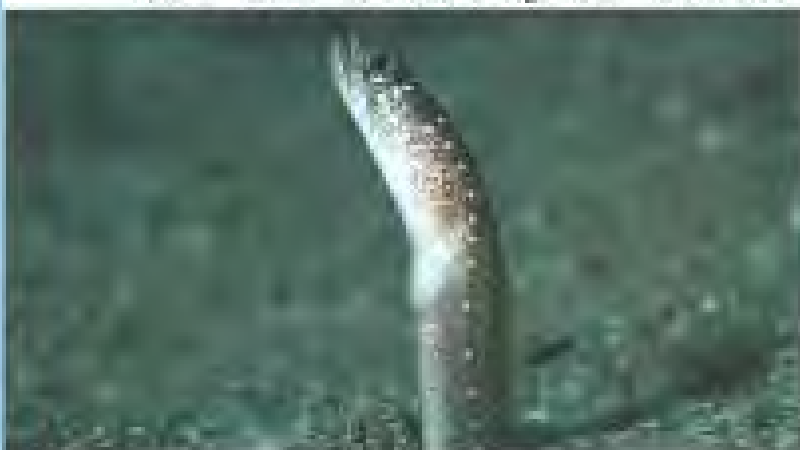
Brachysomophis cirrhocottus 58
7, 9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 110 cm 1200L



Gorgasia preclara 62
7, 9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 40 cm 400L



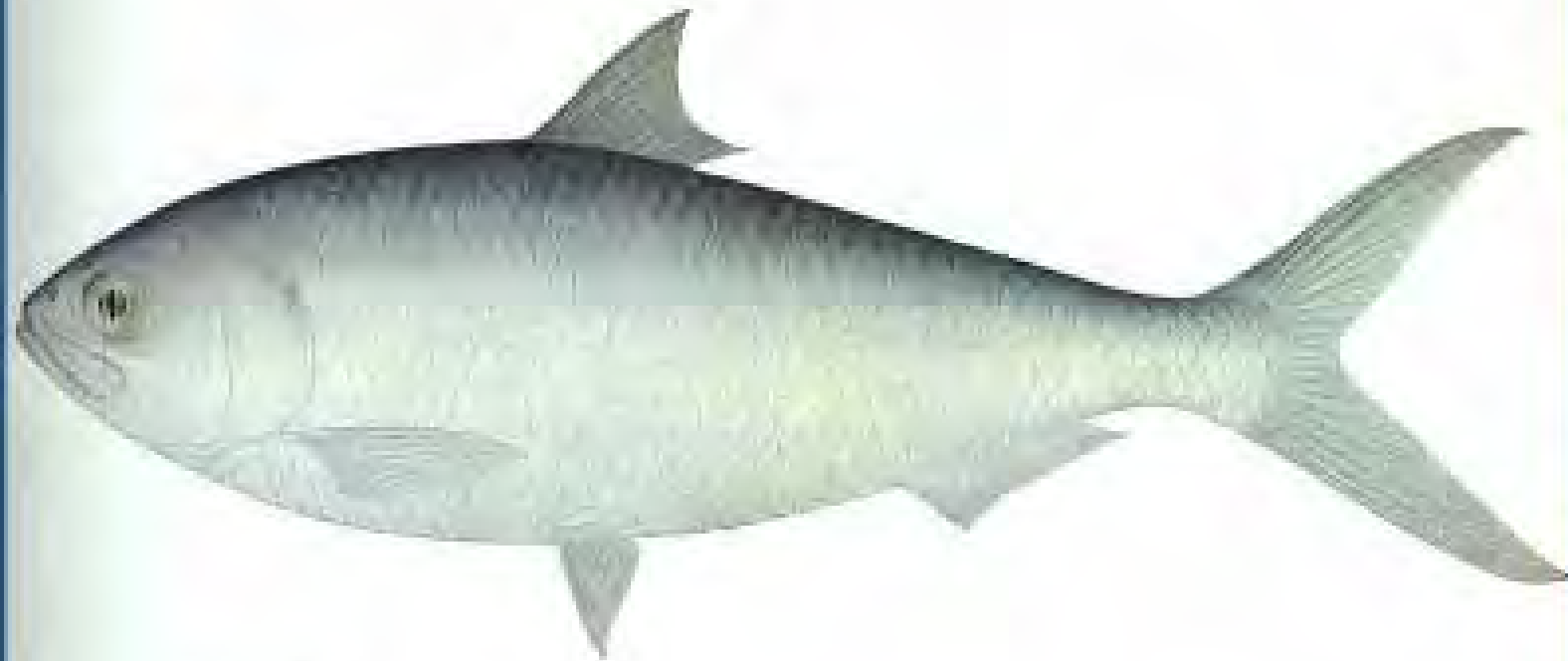
Taeniolongus hessi 62
7, 9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 36 cm 400L



Gorgasia maculata 62
9 ㄴ ~ ㄴ ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ 26°C sg: 1.022 25 cm 300L



Dussumiera hasselti 69
T: 120 mm, L: 15 cm, W: 200L, S: 26°C, sg: 1.022



Hilsa reevesii 69
T: 120 mm, L: 25 cm, W: 250L, S: 26°C, sg: 1.022



Amblygaster telegaster 69
7, 9-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Amblygaster sirm 69
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Spratelloides japonicus 69
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Spratelloides robustus 69
8, 12 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Clupea harengus pallas? 69
4-7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



Etrumeus teres 69
Circumtrop. ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Sardinella cf. jussieu 69
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Jenkinella sp. 69
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



Anodonjastoma chacunda 69
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



#31 67
Dorosoma petenense 69
1-2 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 22 cm 250L



Konosirus punctatus 69
5-8 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 30 cm 300L



Nematafosa japonica 69
5, 7 ~ ♀ ♂ ♀ ♂ 22°C sg: 1.024 25 cm 300L



Opisthonema libertate 69
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 23 cm 200L



Opisthopterus tartaric 69
3, 6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 23 cm 250L



Harangula koningsbergeri 69
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Jihaia elongata 69
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L

#32A



Engraulis mordax 70
4 hr 0 ♀ 0 ♂ 22°C sg: 1.024 13 cm 150L

Opisthonema oglinum 89
2 hr 0 ♀ 0 ♂ 26°C sg: 1.022 30 cm 300L





Hypomesus olidus 137
4, 5 ~ ♀ ♂ ♀ ♂ 23°C sg: 1.024 7 cm 80L



Hypomesus pretiosus japonicus 137
5 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 5 cm 50L



Spirinchus lanceolatus 137
5 ~ ♀ ♂ ♀ ♂ 23°C sg: 1.024 10 cm 100L



Salangichthys microdon 139
5 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 10 cm 100L



Gonocaloma elongatum 144
Circumtrop. ~ ♀ ♂ ♀ ♂ 20°C sg: 1.024 27 cm 300L



Cheuliodus steeni 147
Circumtemp. ~ ♀ ♂ ♀ ♂ 20°C sg: 1.024 30 cm 300L



? *Stomias* sp. 148
6 ~ ♀ ♂ ♀ ♂ 20°C sg: 1.024 18 cm 200L



? *Melanostomias* sp. 150
Circumtemp. ~ ♀ ♂ ♀ ♂ 20°C sg: 1.024 26 cm 300L



Cociella croceata 269
5, 7-10 ♀♂ 26°C sg: 1.022 25 cm 300L



Platycephalus haackel 269
7-8 ♀♂ 26°C sg: 1.022 40 cm 400L



Aulopus purpurissatus 153
7-8, 12 ♀♂ 26°C sg: 1.022 60 cm 600L



Aulopus purpurissatus 153
7-8, 12 ♀♂ 26°C sg: 1.022 60 cm 600L



Saurida gracilis 157
7-10 ♀♂ 26°C sg: 1.022 20 cm 200L



Synodus jaculum 157
7, 8 ♀♂ 26°C sg: 1.022 15 cm 150L



Synodus variegatus 157
6-7 ♀♂ 26°C sg: 1.022 22 cm 200L



Synodus variegatus 157
6-7 ♀♂ 26°C sg: 1.022 22 cm 200L



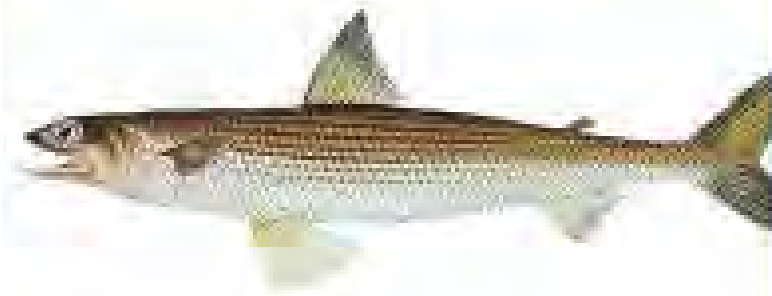
Aulopus japonicus 153
5~9cm 水 24°C sg: 1.023 20cm 200L



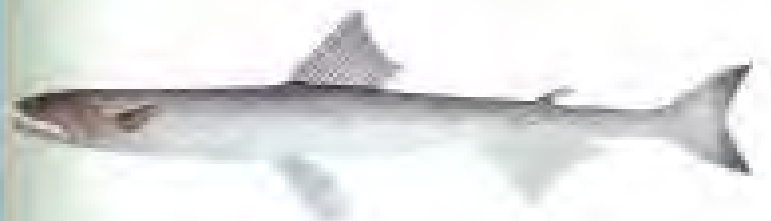
Trachinocephalus myoxocephalus 157
Circumtrop. 4~6cm 水 28°C sg: 1.022 30cm 300L



Saurida dermatogenys 157
6~8cm 水 26°C sg: 1.022 30cm 300L



Saurida undosquamis 157
7-10cm 水 26°C sg: 1.022 50cm 300L



Harpadon microchir 157
5~8cm 水 24°C sg: 1.023 50cm 500L



Harpadon menisuccens 157
7, 9cm 水 26°C sg: 1.022 50cm 500L



Synodus synodus 157
2, 13cm 水 26°C sg: 1.022 30cm 300L



Synodus intermedius 157
1-2cm 水 24°C sg: 1.023 45cm 500L



Synodus rubromarmoratus 157
5, 7-8 ㎍ ㎍ ㎍ 26°C sg: 1.022 7.5 cm 100L



Synodus ulae 157
5-7 ㎍ ㎍ ㎍ 26°C sg: 1.022 25 cm 300L



Synodus foetens 157
2 ㎍ ㎍ ㎍ 26°C sg: 1.022 40 cm 400L



Synodus synodus 157
2, 13 ㎍ ㎍ ㎍ 26°C sg: 1.022 30 cm 300L



Synodus egei 157
6-9 ㎍ ㎍ ㎍ 26°C sg: 1.022 20 cm 200L



Saurida normani 157
1-2 ㎍ ㎍ ㎍ 26°C sg: 1.022 25 cm 300L



Synodus poeyi 157
1-2 ㎍ ㎍ ㎍ 24°C sg: 1.023 30 cm 300L



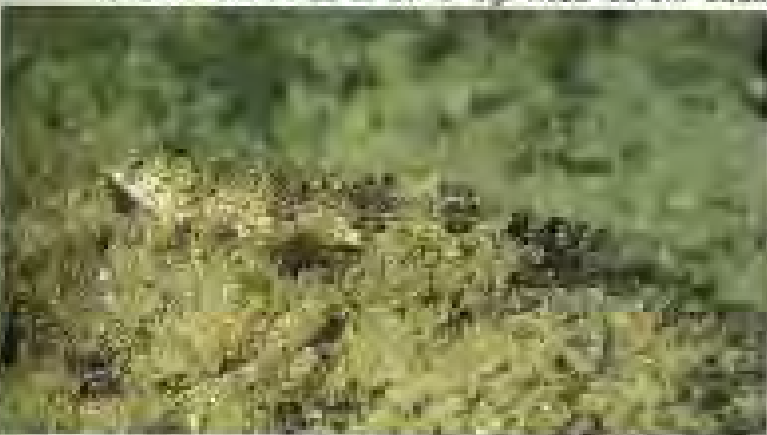
Synodus intermedius 157
1-2 ㎍ ㎍ ㎍ 24°C sg: 1.023 45 cm 500L



Synodus synodus 157
2, 13 ~ 14 ㎝ 水 26°C sg: 1.022 30 cm 300L



Synodus sp. 157
8 ~ 9 ㎝ 水 26°C sg: 1.022 15 cm 150L



Synodus lacertinus 157
3 ~ 4 ㎝ 水 26°C sg: 1.022 10 cm 100L



Saurida gracilis 157
7-10 ㎝ 水 26°C sg: 1.022 20 cm 200L



Synodus sp. 157
8 ~ 9 ㎝ 水 26°C sg: 1.022 15 cm 150L



Synodus sp. 157
8 ~ 9 ㎝ 水 26°C sg: 1.022 15 cm 150L



Alopiasaurus borealis 163
3, 5-7 ㎝ 水 20°C sg: 1.024 300 cm 5000L



Myctophid 165
All Oceans ~ 22°C sg: 1.023 10 cm 100L



Pollichthys pollichthys 174
14 NOV 2008 20°C sg: 1.024 52 cm 500L



? *Lotella* sp. 171
12 ♀♂ ♀♂ ♀♂ □ 23°C sg: 1.024 50 cm 500L



Lotella fuliginosa 171
12 ♀♂ ♀♂ ♀♂ □ 24°C sg: 1.024 10 cm 100L



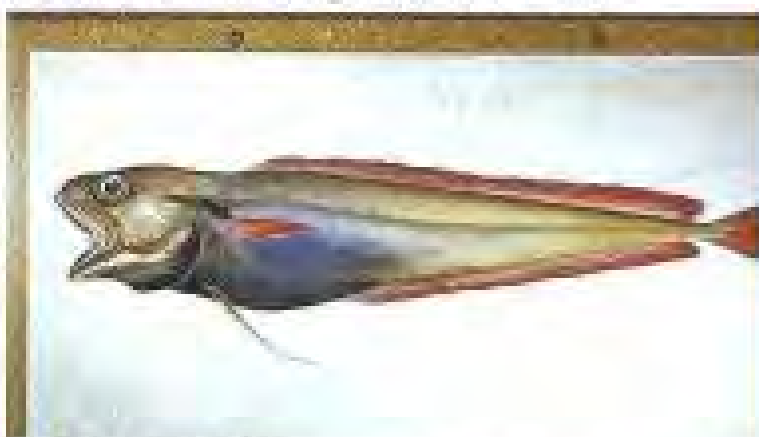
Lotella rhacineus 171
11 ♀♂ ♀♂ ♀♂ □ 22°C sg: 1.024 45 cm 500L



Physiculus maximowiczii 171
5 ♀♂ ♀♂ ♀♂ □ 23°C sg: 1.024 10 cm 100L



Pseudophysiculus breviscolus 171
12 ♀♂ ♀♂ ♀♂ □ 24°C sg: 1.024 7 cm 80L



Physiculus sp. 171
77 ♀♂ ♀♂ ♀♂ □ 26°C sg: 1.022 25 cm 250L



Eleginus gracilis 174
5 ♀♂ ♀♂ ♀♂ □ 22°C sg: 1.024 10 cm 100L



Pollachius pollachius 174
14 ♀♂ ♀♂ ♀♂ □ 20°C sg: 1.024 52 cm 500L

#40



Otuxodon margaritifera 178
7,9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L

Carapus bermudensis 178
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



180

#40A



Lepophidium sp. 177
3~4 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 25 cm 300L



Lepophidium prorates 177
3~4 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 27 cm 300L



Brotula barbata 177
6-10 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 100 cm 1000L



Brotula multibarbata 177
6-10 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 100 cm 1000L



Chirona taylori 177
3~4 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 36 cm 400L



Onuxodon margaritiferae 178
7, 9 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 9 cm 100L



Carapus bermudensis 178
2~3 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 20 cm 200L



Carapus homei 178
8~9 ♀ ♂ ♀ ♂ □ □ 26°C sg: 1.022 17 cm 200L



Encheilophis gracilis 178
7.9 ~ 1 ♀ 26°C sg: 1.022 30 cm 300L



Stygnabrotula latibrachia 179
7 ~ 1 ♀ 26°C sg: 1.022 8 cm 80L



Dinematichthys dasyrhinchus 179
12 ~ 1 ♀ 24°C sg: 1.023 8 cm 100L



Brotulina fusca 179
7.9 ~ 1 ♀ 26°C sg: 1.022 12 cm 120L



Brotula erythraea? 179
7 ~ 1 ♀ 26°C sg: 1.022 13 cm 150L



Ogilbia cayorum 179
2 ~ 1 ♀ 26°C sg: 1.022 10 cm 100L



Brosmophycis marginata 179
3.4 ~ 1 ♀ 26°C sg: 1.022 46 cm 500L



Ogilbia sp. 179
3 ~ 1 ♀ 26°C sg: 1.022 10 cm 100L



Antennarius striatus 183
1, 2, 6-13 4 0 8 10 25°C sg; 1.022 15.5 cm 200L

#42A

Antennarius hispidus 183
1-9 ~ 0-1% 16 ~ 26°C sg: 1.022 15 cm 200L





Lophocharax trispinatus 183
7 ~ 8 月 産 卵 26°C sg: 1.022 15 cm 200L



Histophrane bougainvillieri 183
8, 12 ~ 1 月 産 卵 25°C sg: 1.022 6.4 cm 100L



Taticarpus butleri 183
7, 8, 12 ~ 1 月 産 卵 25°C sg: 1.022 10 cm 100L



Taticarpus butleri 183
7, 8, 12 ~ 1 月 産 卵 26°C sg: 1.022 10 cm 100L



Rhycherus gloveri 183
12 ~ 1 月 産 卵 24°C sg: 1.022 11.5 cm 100L



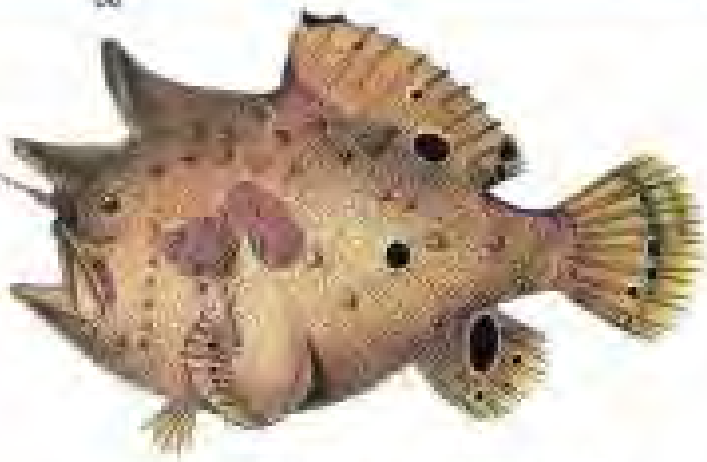
Histro histro 183
1-2, 7-10, 13 ~ 1 月 産 卵 25°C sg: 1.022 14 cm 100L



Antennarius maculatus 183
7, 8 ~ 1 月 産 卵 26°C sg: 1.022 6.5 cm 100L



Antennarius biocellatus 183
7 ~ 1 月 産 卵 26°C sg: 1.018 12 cm 100L



Antennarius maculatus 183



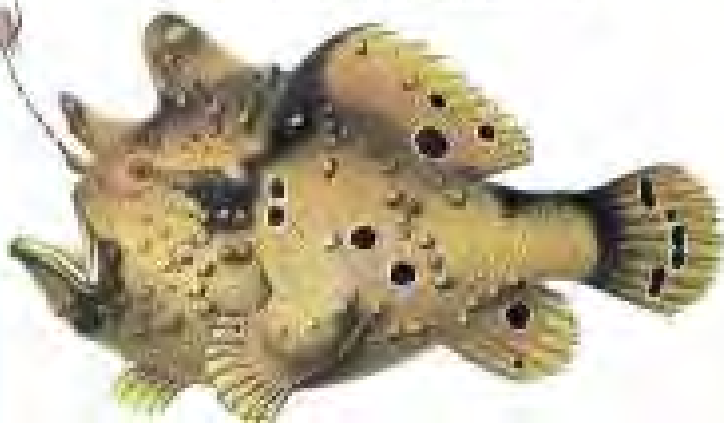
Antennarius maculatus 183



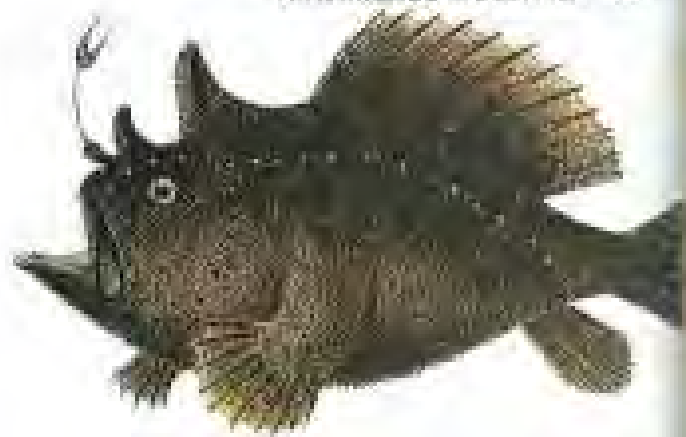
Antennarius maculatus 183



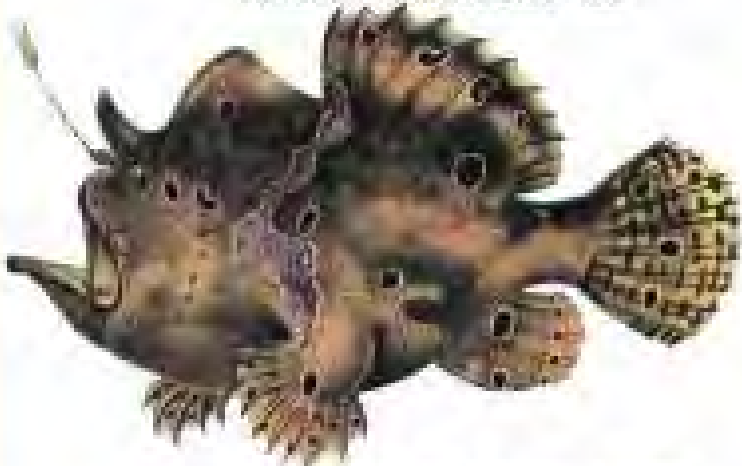
Antennarius maculatus 183



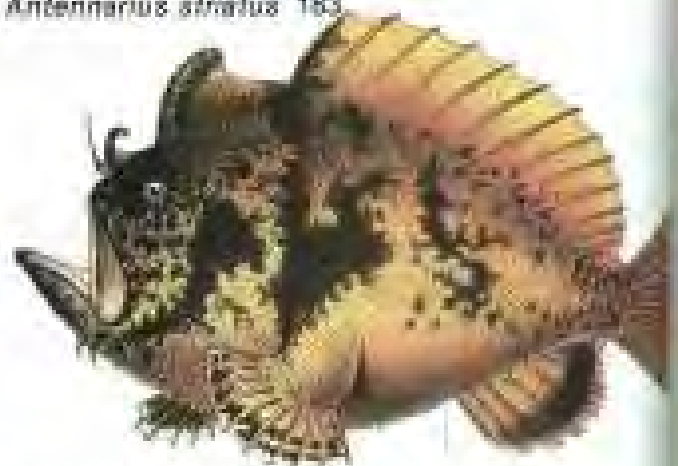
Antennarius maculatus 183



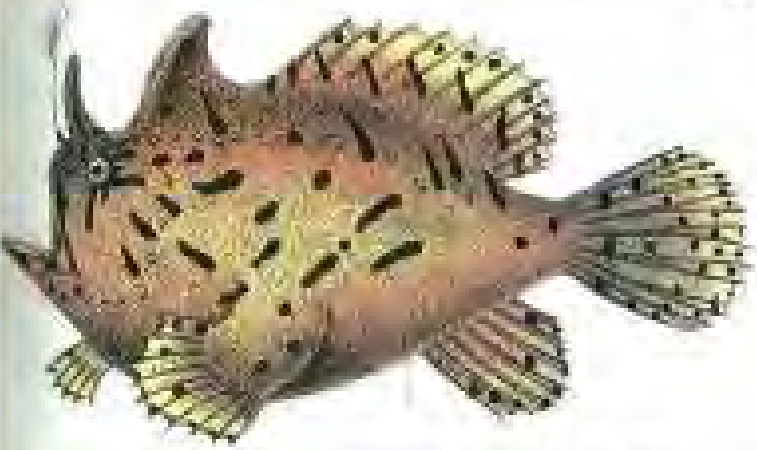
Antennarius striatus 183



Antennarius maculatus 183



Antennarius coccineus 183



Antennarius hispidus 183



Antennarius hispidus 183



Antennarius commersoni 183



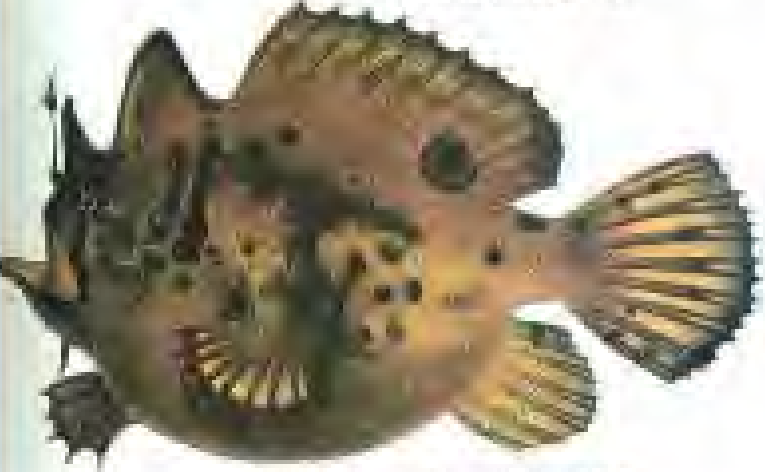
Antennarius commersoni 183



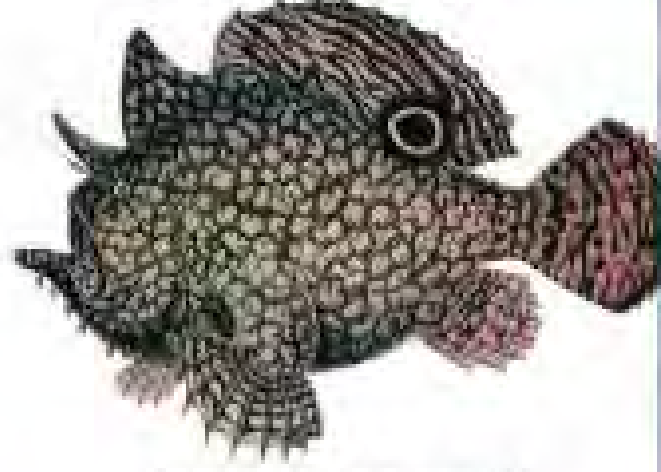
Antennarius pictus 183



Antennarius pictus 183



Antennarius biocellatus 183



Antennarius biocellatus 183

#39



Antennarius pardalis 183
13 ~ 0 : 光 暗 □ 26°C sg: 1.022 10 cm 100L

#46



Antennarius zengulneus 183
3 ~ 0 : 光 暗 □ 26°C sg: 1.022 8 cm 100L



Antennarius strigatus 183
3 ~ 0 : 光 暗 □ 26°C sg: 1.022 8 cm 100L



Antennarius avalonis 183
3 ~ 0 : 光 暗 □ 26°C sg: 1.022 33 cm 300L



Antennarius multiocellatus 183
2, 13 ~ 0 : 光 暗 □ 26°C sg: 1.022 11 cm 100L



Antennarius pauciradiatus 183
2 ~ 0 : 光 暗 □ 26°C sg: 1.022 4 cm 50L



Antennarius ocellatus 183
2 ~ 0 : 光 暗 □ 26°C sg: 1.022 32 cm 300L



Antennarius tuberosus 183
6-10 ~ 0 : 光 暗 □ 26°C sg: 1.022 7 cm 100L



Antennarius maculatus 183
7.9 x 1.0 cm 26°C kg: 1.022 8.5 cm 100L

10



Lophrocheilichthys triangulatus 183

#48



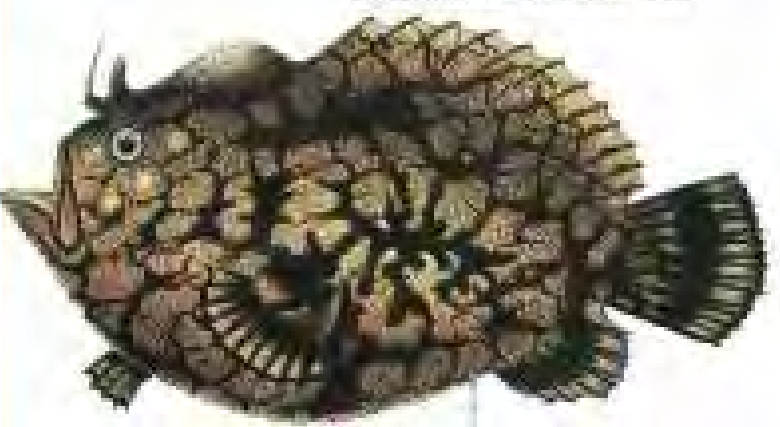
Antennarius commersoni 183



Antennarius striatus 183



Antennarius striatus 183



Antennarius tuberosus 183



Antennarius biocellatus 183



Antennarius pictus 183



Antennarius nuxioffer 183



Antennarius hispidus 183
7-9 ♀ ♂ 26°C sg: 1.022 15 cm 200L



Antennarius striatus 183
1-2, 6-13 ♀ ♂ 26°C sg: 1.022 15.5 cm 200L



Antennarius commersoni 183
3, 6-10 ♀ ♂ 26°C sg: 1.022 29 cm 300L



Antennarius papineus 183
6-10 ♀ ♂ 26°C sg: 1.022 9 cm 100L



Antennarius nummifer 183
3, 6-10 ♀ ♂ 26°C sg: 1.022 29 cm 300L



Antennarius indicus 183
9 ♀ ♂ 26°C sg: 1.022 19 cm 200L



Antennarius commersoni 183
3, 6-10 ♀ ♂ 26°C sg: 1.022 29 cm 300L



Chaunax abelii 185
5-7 ♀ ♂ 24°C sg: 1.022 30 cm 300L

82



Antennarius analis 183
6-8, 12 ~ 0.5 ~ 1.5 cm 26°C sg: 1.022 8 cm 100L

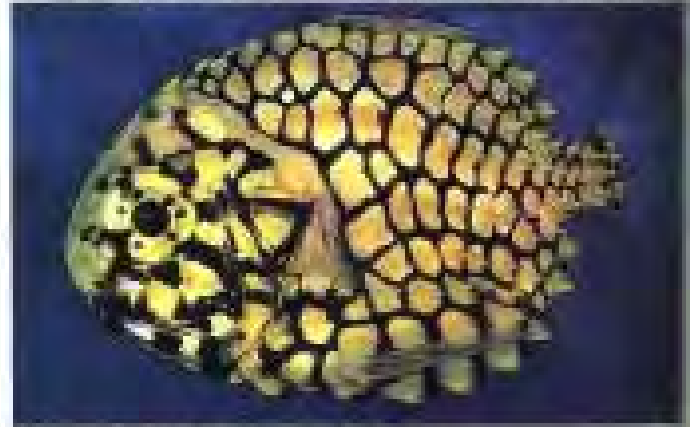
#50



Antennarius commersoni 183
3, 6-10 ~ 0.5 ~ 1.5 cm 26°C sg: 1.022 29 cm 300L



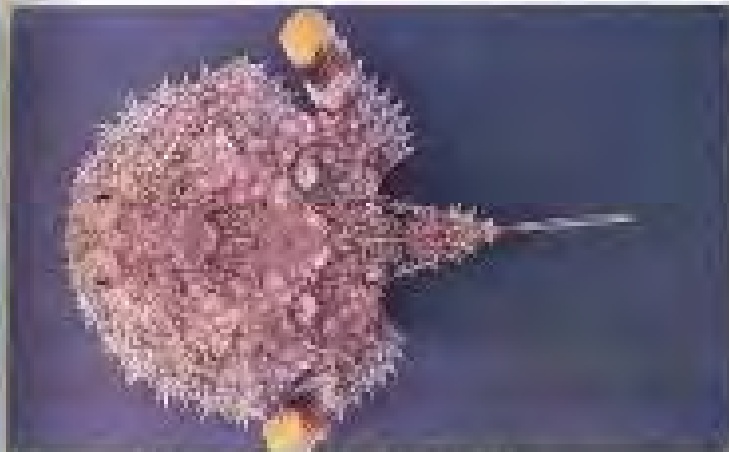
Antennarius maculatus 183
7, 8 ~ 0.5 ~ 1.5 cm 26°C sg: 1.022 8.5 cm 100L



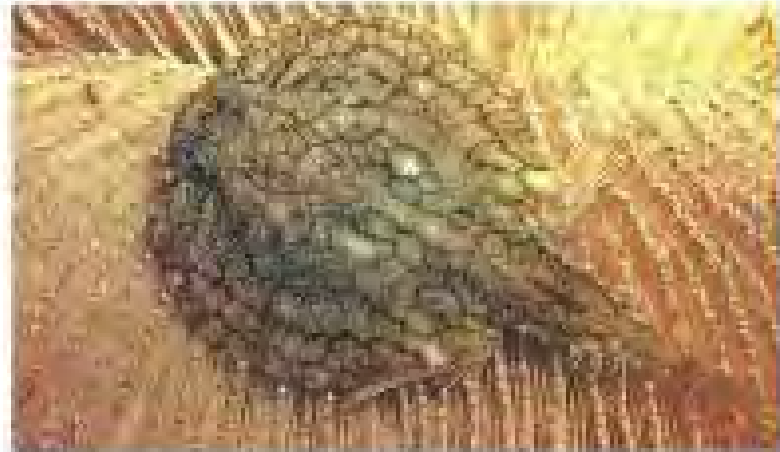
Monocentris japonicus 253
7-10 ~ 0.5 ~ 1.5 cm 26°C sg: 1.022 16 cm 200L



Eurypegasus draconis 229
7-9 ~ 0.5 ~ 1.5 cm 26°C sg: 1.022 10 cm 100L



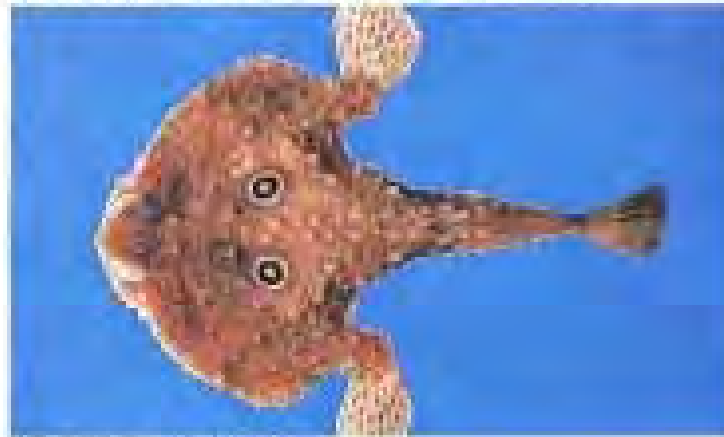
Halieutichthys aculeatus 186
2 ♀♂ ♀♂ 26°C sg: 1.022 10 cm 100L



Halieutaea retifera 186
6 (H) ♀♂ ♀♂ 26°C sg: 1.022 10 cm 100L



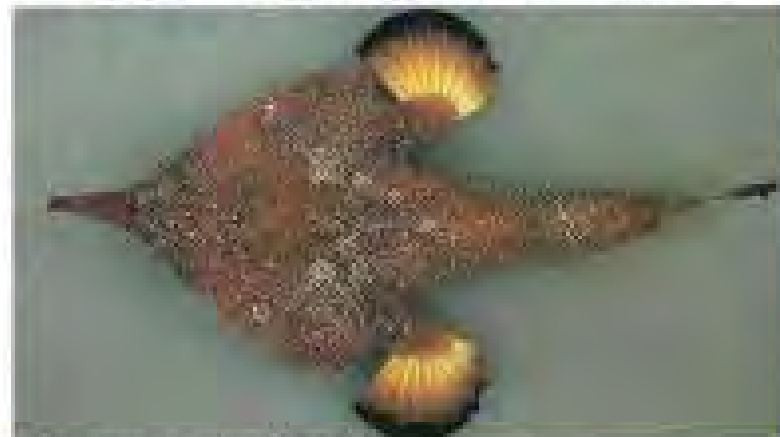
Halieutaea stellata 186
7, 9 ♀♂ ♀♂ 26°C sg: 1.022 50 cm 300L



Zanclus cornutus 186
3 ♀♂ ♀♂ 26°C sg: 1.022 15 cm 300L



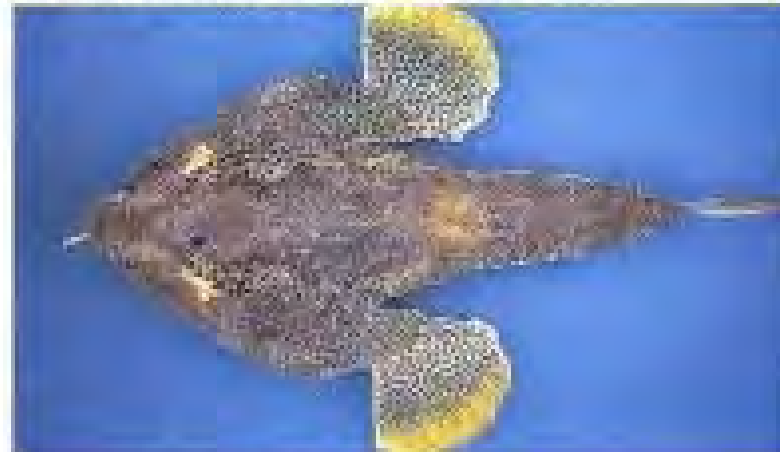
Ogcocephalus nasutus 186
2 ♀♂ ♀♂ 26°C sg: 1.022 38 cm 400L



Ogcocephalus corniger 186
2 ♀♂ ♀♂ 26°C sg: 1.022 23 cm 200L



Ogcocephalus radiatus 186
2 ♀♂ ♀♂ 26°C sg: 1.022 38 cm 400L



Ogcocephalus radiatus 186
2 ♀♂ ♀♂ 26°C sg: 1.022 38 cm 400L

#32



Discotrema crinophila 198
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L

Discotrema sp. 198
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L





Diademichthys lineatus 198
 7-9 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Discotreta crispifila 198
 8-9 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Lepadichthys lineatus 198
 9-10 ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 31 cm 300L

#49



Undescribed Gobiesocid 198
12 hr ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 2.5 cm 50L

#53



Undescribed Clingfish? 198
12 hr ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 2.5 cm 50L



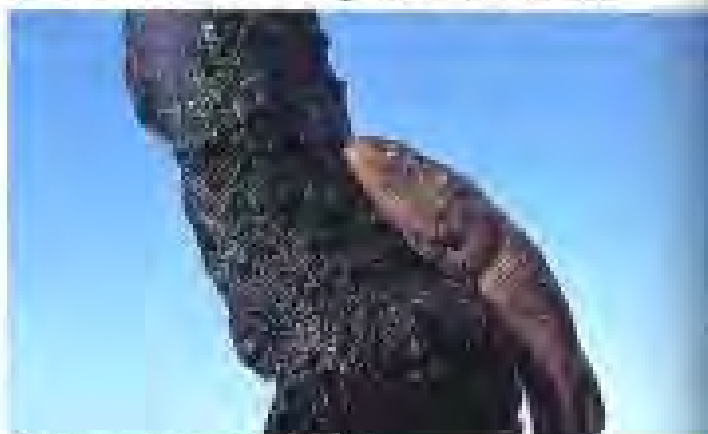
Cochleoceps spatula 198
12 hr ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 2.5 cm 50L



Aspasmogaster tasmaniensis 198
12 hr ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 1.5 cm 50L



Sicyases sanguineus 198
3 hr ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 22 cm 200L



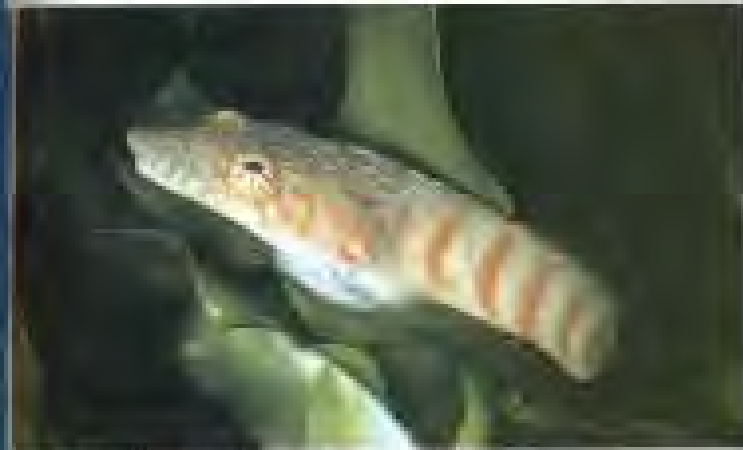
Sicyases sanguineus 198
3 hr ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 22 cm 200L



Aroas rubiginosus 198
2 hr ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3.5 cm 50L



Aspasmichthys sloaniae 198
5, 7 hr ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 8 cm 100L



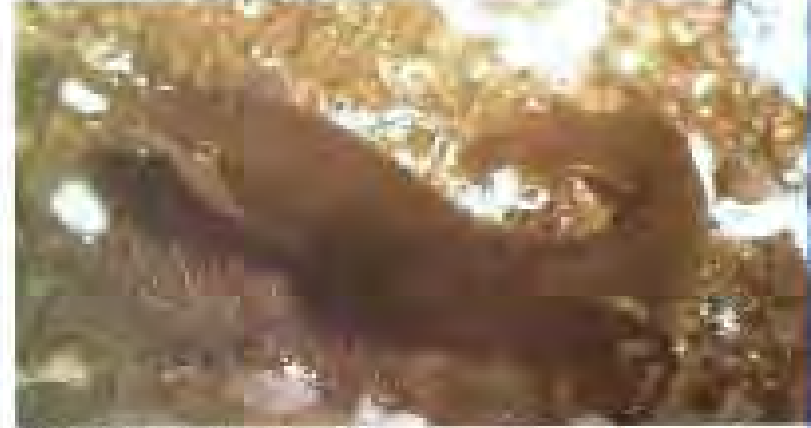
Lepadogaster candollei 198
13, 15 ~ ♀ ♂ 26°C sg: 1.024 12 cm 120L



Lepadogaster lepadogaster 198
15 ~ ♀ ♂ 26°C sg: 1.024 10 cm 100L



Diacometra eriocephala 198
0.9 ~ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Lepadichthys frenatus 198
3 ~ ♀ ♂ 24°C sg: 1.023 3 cm 50L



Tomicodon humeralis 198
3 ~ ♀ ♂ 26°C sg: 1.022 8.3 cm 100L



Gobiosox maeancticus 198
9-4 ~ ♀ ♂ 24°C sg: 1.023 16 cm 200L



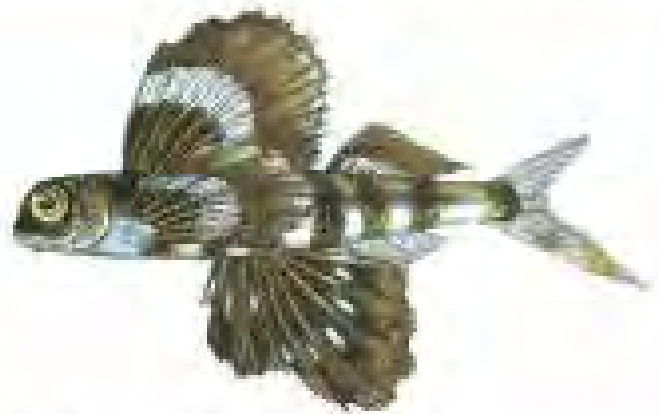
Gobiosox adustus 198
3 ~ ♀ ♂ 26°C sg: 1.022 5 cm 50L



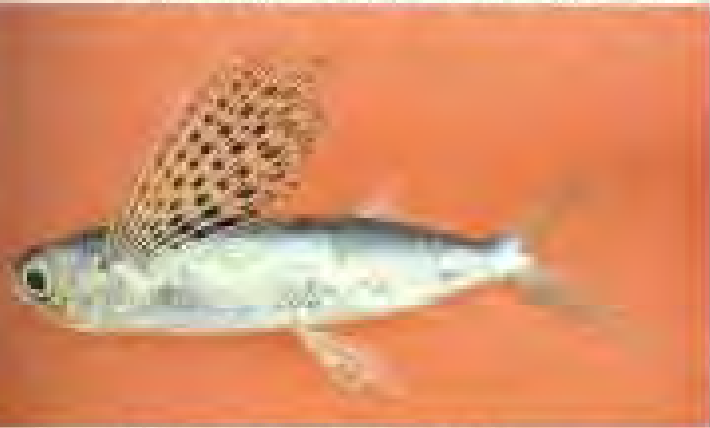
Alabes parvulus 190
12 ~ ♀ ♂ 24°C sg: 1.023 3.2 cm 50L



Cheilopogon ariisignis 200
7, 9 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 25 cm 300L



Hirundichthys sp. 200
6-7 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 25 cm 300L



Cypselurus poecilopterus 200
6, 7 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 30 cm 300L



Cheilopogon pinnetibarbatu japonicus 200
7 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 30 cm 300L



Cheilopogon suttoni 200
7, 9 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 25 cm 300L



Cypselurus hikau 200
7 ~ ♀ ~ ♂ ♀ □ 26°C sg: 1.022 30 cm 300L



Hemiramphus far 201
7, 9 ~ ♂ ~ ♀ □ 26°C sg: 1.022 65 cm 800L



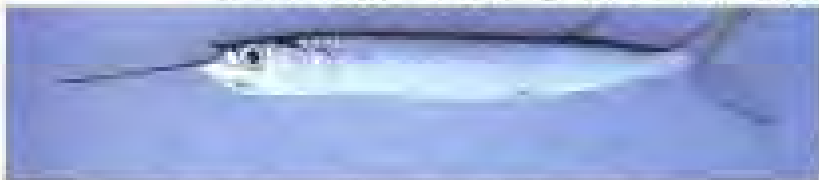
Hemiramphus far 201
7, 9 ~ ♂ ~ ♀ □ 26°C sg: 1.022 65 cm 800L



Hyporhamphus dussumieri 201
6-9 ~ 0 ♀ ~ 26°C sg: 1.022 40 cm 400L



Hyporhamphus melanochir 201
12 ~ 0 ♀ ~ 23°C sg: 1.024 25 cm 300L



Hemiramphus brasiliensis 201
1-2, 13 ~ 0 ♀ ~ 26°C sg: 1.022 40 cm 400L



Strongylura timucu 202
1 ~ 0 ♀ ~ 23°C sg: 1.024 100 cm 1000L



Tylosurus crocodilus 202
Circumtrop. ~ 0 ♀ ~ 26°C sg: 1.022 100 cm 1000L



Platybafone argalus 202
5, 7 ~ 0 ♀ ~ 26°C sg: 1.022 50 cm 500L



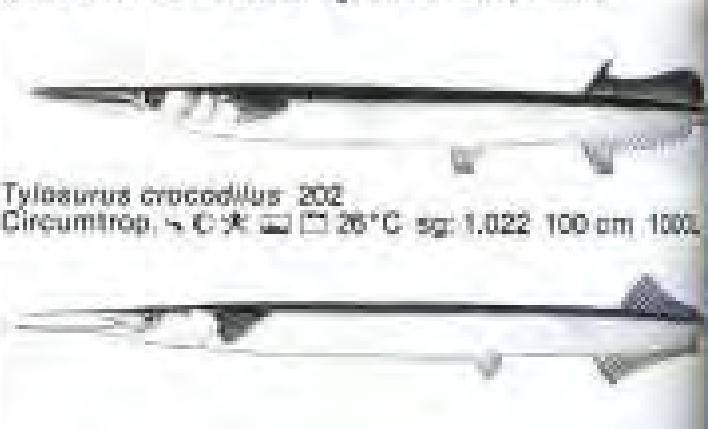
Tylosurus crocodilus 202
Circumtrop. ~ 0 ♀ ~ 26°C sg: 1.022 100 cm 1000L



Hyporhamphus sajori 201
7 ~ 0 ♀ ~ 26°C sg: 1.022 45 cm 500L



Colobias saira 203
3-5 ~ 0 ♀ ~ 26°C sg: 1.022 40 cm 400L



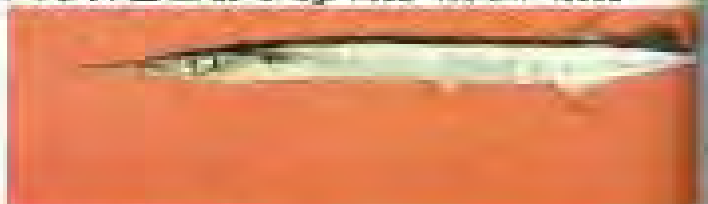
Tylosurus crocodilus 202
Circumtrop. ~ 0 ♀ ~ 26°C sg: 1.022 100 cm 1000L



Strongylura anastomella 202
5, 7 ~ 0 ♀ ~ 26°C sg: 1.022 100 cm 1000L



Tylosurus laturus 202
7 ~ 0 ♀ ~ 26°C sg: 1.022 100 cm 1000L



Ablennes hians 202
Circumtrop. ~ 0 ♀ ~ 26°C sg: 1.022 120 cm 1500L



Ctenopoma gronemans 229
12 hr ● ♀ 23°C sg: 1.024 28 cm 300L

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Atherinops affinis 213
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 38 cm 400L

#07



Atherinosoma elongata 213
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Atherina boyeri 213
15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 10 cm 100L



Craterocephalus pauciradiatus 213
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



Atherinomorus ogilbyi 213
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Atherinomorus lacunosus 213
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 12.5 cm 150L



Atherinomorus eadrachtiensis 213
7-8, 12 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Iso rhothophilus 214
12 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 3 cm 50L



Lampris guttatus 218
Osmotrop. ♀ ♂ 大 鱈 日 25°C sg: 1.022 200 cm 2500L



Monocentrus japonicus 229
7, 9 ~ ♀ ♂ ♀ 鱈 日 25°C sg: 1.022 16 cm 200L



Cleidopus gloriamaris 229
12 ~ ♀ ♂ ♀ 鱈 日 23°C sg: 1.024 28 cm 300L



Regalecus glesne 223
Osmotrop. ♀ ♂ 大 鱈 日 25°C sg: 1.022 1000 cm 5000L



Hoplostethus elongatus 230
11 ~ ♀ ♂ ♀ 鱈 日 22°C sg: 1.024 12 cm 150L



Gephyroberyx japonicus 230
5 ~ ♀ ♂ 大 鱈 日 24°C sg: 1.023 100 cm 1000L



Trachichthys australis 230
12 ~ ♀ ♂ ♀ 鱈 日 22°C sg: 1.024 12 cm 150L



Sorsichthys ananassa 230
12 ~ ♀ ♂ ♀ 鱈 日 23°C sg: 1.024 3 cm 50L



Myripristis sp. 235

6-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1,022 15 cm 200L

Sargocentron spiniferum 235

6-9 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1,022 45 cm 500L



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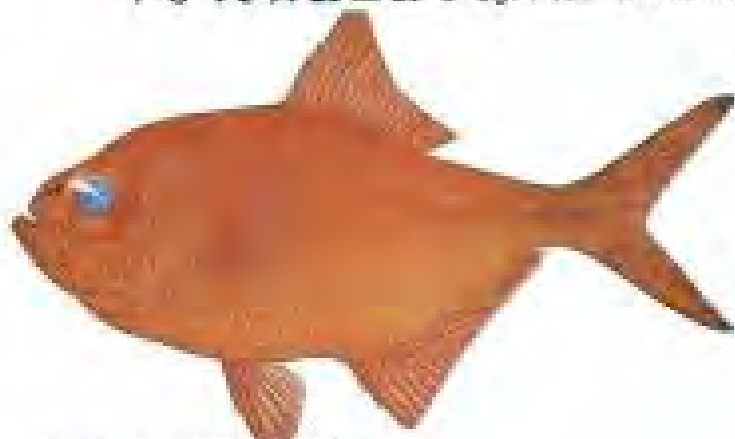


Anomalops katoptron 231
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L

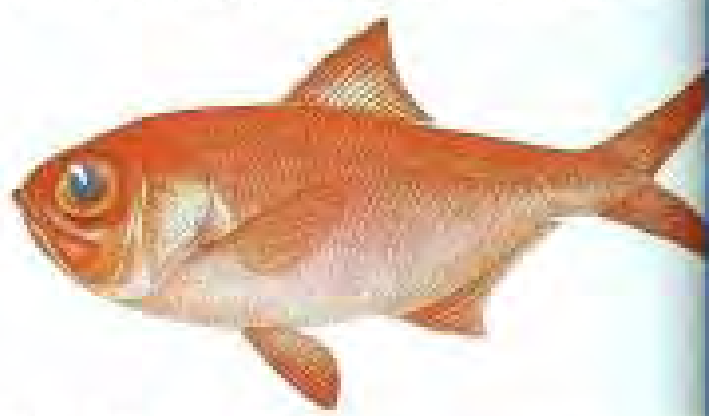
#38



Photoblepharon palpebratus 231
7, 9-10 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Beryx decadactylus 234
Cosmopol. ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 800L



Beryx splendens 234
2, 6-9, 13 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



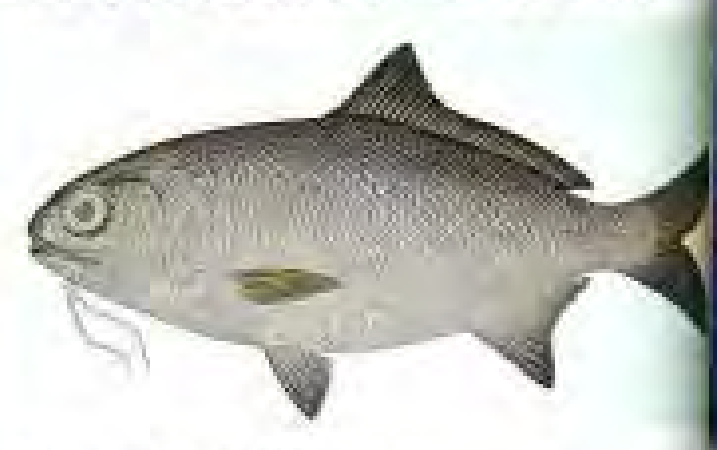
Trachichthodes affinis 230
8, 11-12 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 24°C sg: 1.023 45 cm 500L



Polymixia lowei 236
1-2 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Carniger spinosus 238
2 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Polymixia bernardi 236
6-7, 9 ♀ ~ ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Sargocentron diadema 235
6-8ヶ月〜♂大西 □ 26°C sg: 1.022 23 cm 300L



Sargocentron litidai 235
7ヶ月〜♂大西 □ 26°C sg: 1.022 20 cm 200L



Sargocentron xantherythrus 235
6ヶ月〜♂大西 □ 26°C sg: 1.022 18 cm 200L



Sargocentron tieroides 235
5-7ヶ月〜♂大西 □ 26°C sg: 1.022 30 cm 300L



Sargocentron violaceum 235
7-9ヶ月〜♂大西 □ 26°C sg: 1.022 25 cm 300L



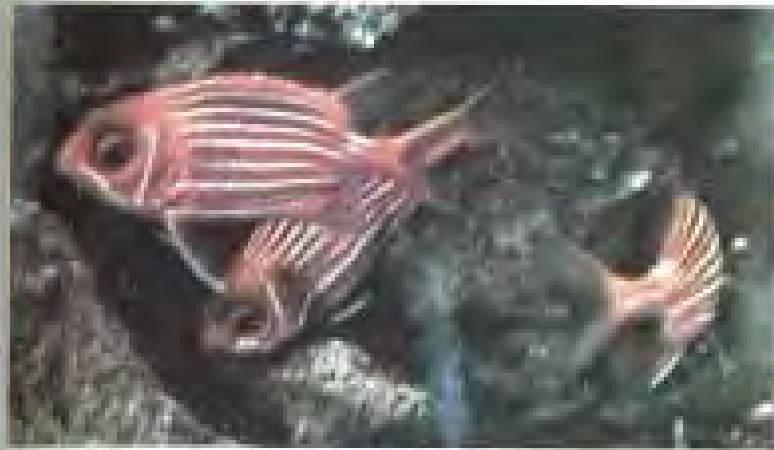
Sargocentron bullisi 235
1-2ヶ月〜♂大西 □ 25°C sg: 1.022 13 cm 150L



Sargocentron coruscum 235
2ヶ月〜♂大西 □ 26°C sg: 1.022 10 cm 100L



Sargocentron yakifanum 235
2ヶ月〜♂大西 □ 26°C sg: 1.022 12.6 cm 150L



Holocentrus lesterus 235
13号 海水 26°C sg: 1.022 10 cm 100L



Holocentrus ascensionis 235
1-2号 海水 26°C sg: 1.022 30 cm 300L



Holocentrus rufus 235
2号 海水 26°C sg: 1.022 28 cm 300L



Sargocentron caudimaculatum 235
7-10号 海水 26°C sg: 1.022 25 cm 300L



Sargocentron rubrum 235
8-10号 海水 26°C sg: 1.022 38 cm 400L



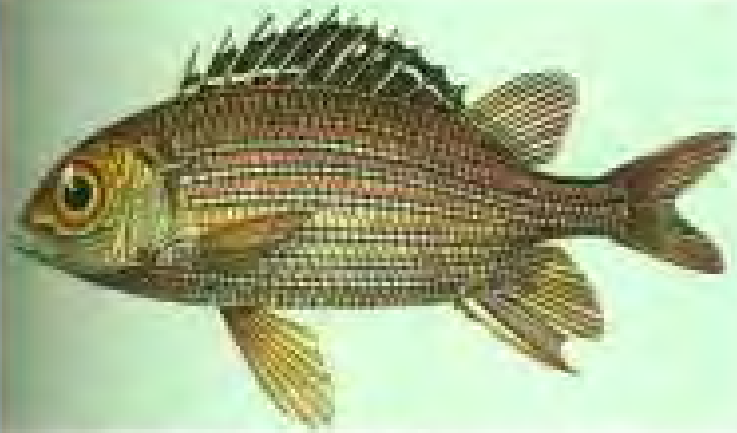
Sargocentron suborbitalis 235
3号 海水 26°C sg: 1.022 25 cm 300L



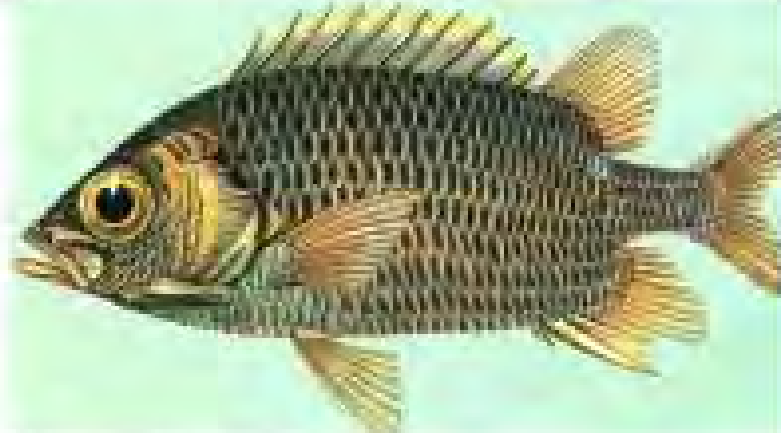
Sargocentron lepros 235
7号 海水 26°C sg: 1.022 12 cm 150L



Sargocentron punctatissimum 235
6-8号 海水 26°C sg: 1.022 16 cm 200L



Sargocentron dradema 235
 8-10 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 18 cm 200L



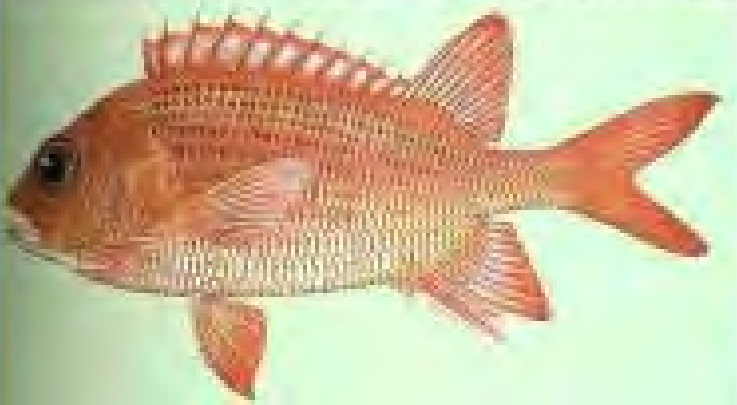
Sargocentron violaceum 235
 6-7, 9 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 20 cm 200L



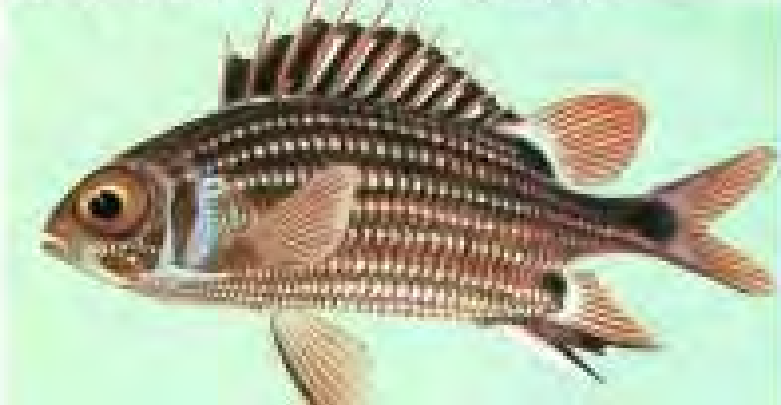
Sargocentron caudimaculatum 235
 7-10 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



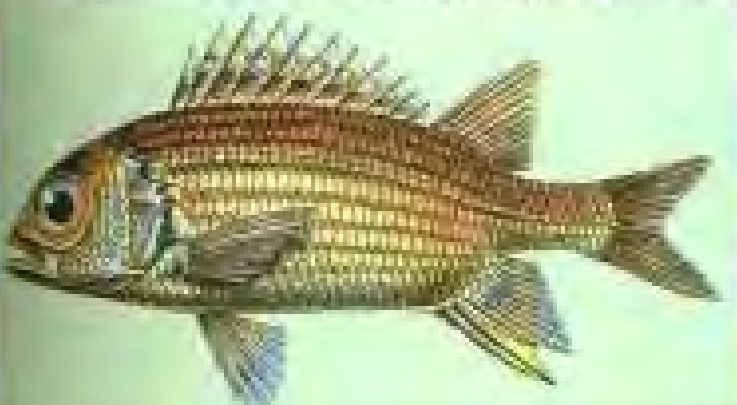
Neoliphon laeve 235
 9 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 30 cm 300L



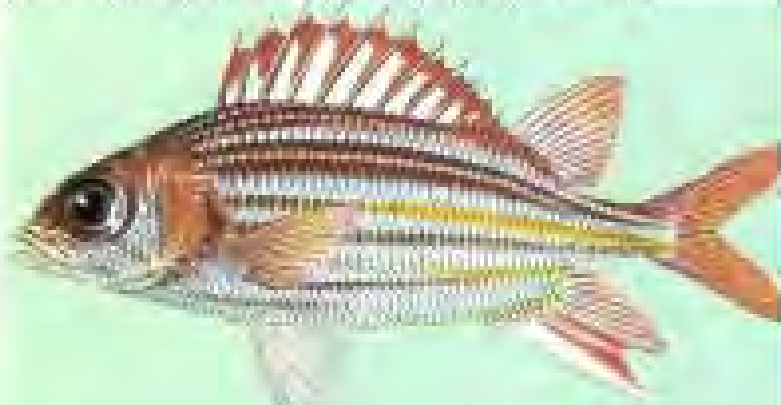
Sargocentron liere 235
 6, 7 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 30 cm 300L



Sargocentron melanospilos 235
 6, 7 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 27 cm 300L

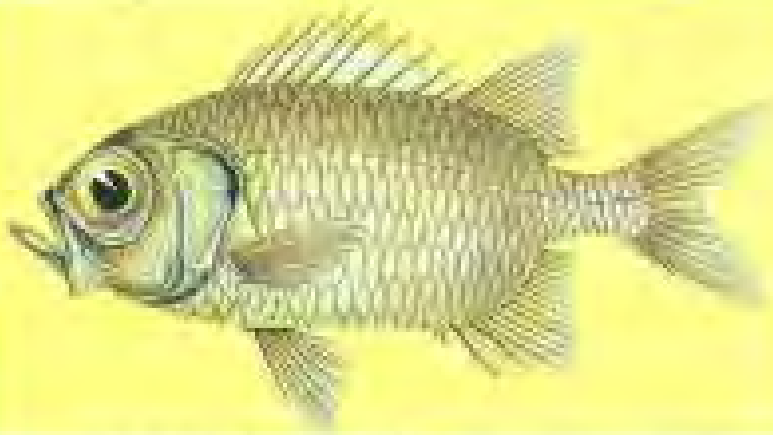


Neoliphon zammarai? 235
 5-10 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 30 cm 300L



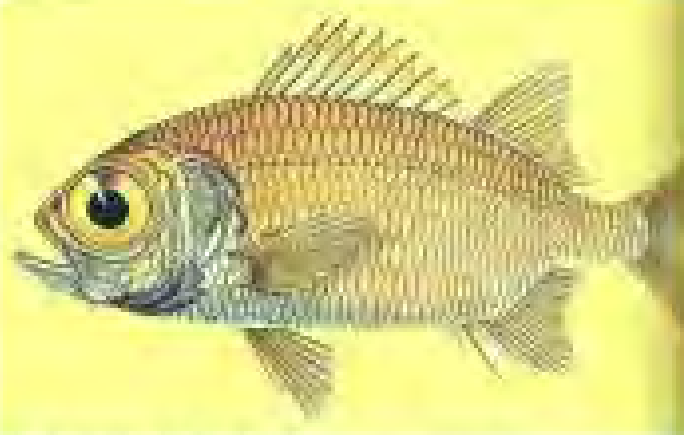
Sargocentron lacteopurpuratus 235
 6-7, 9 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L

#12

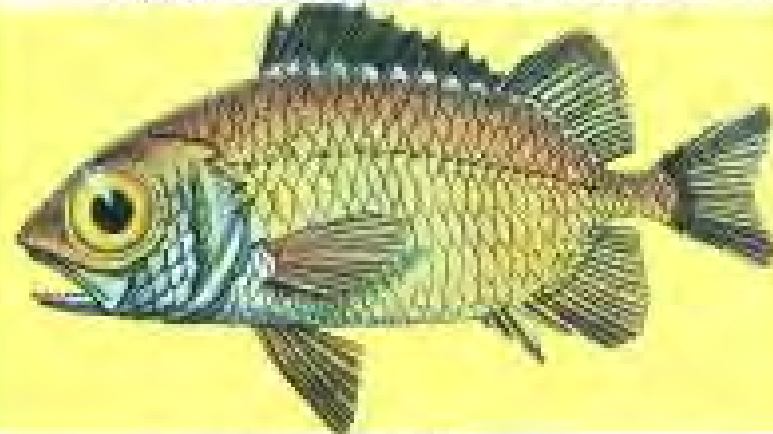


Myripristis violacea 235
6-7, 9 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 20 cm 300L

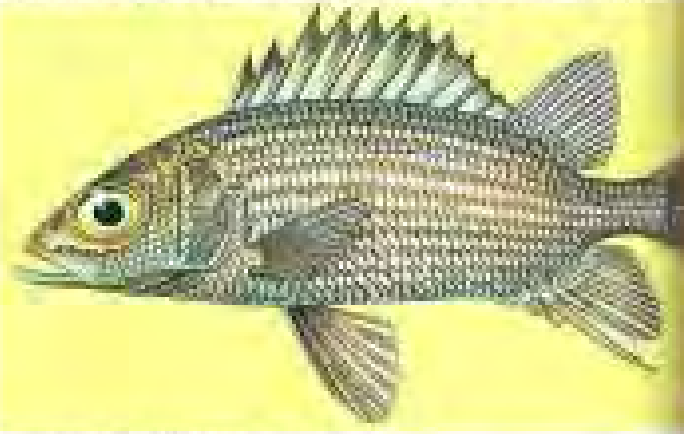
#65



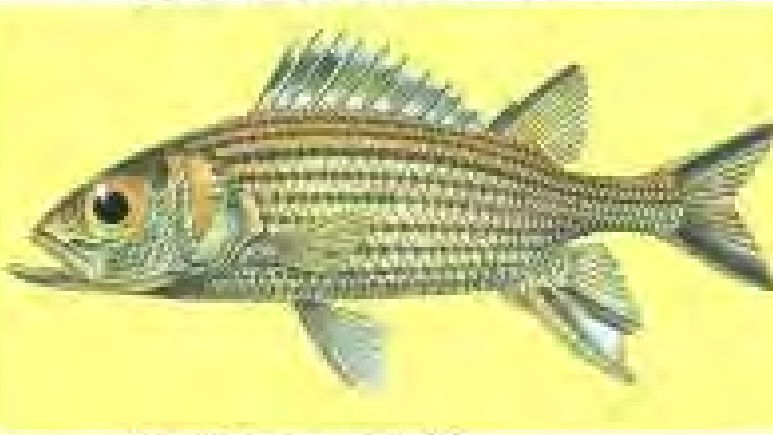
Myripristis pratinus 235
7, 9 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 20 cm 300L



Myripristis sp. (juv.) 235
6-8 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 20 cm 300L



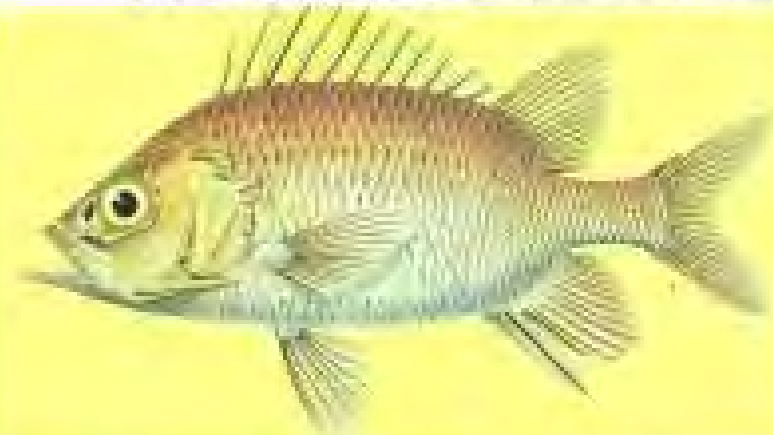
Neoniphon argenteus 235
7, 9 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 24 cm 250L



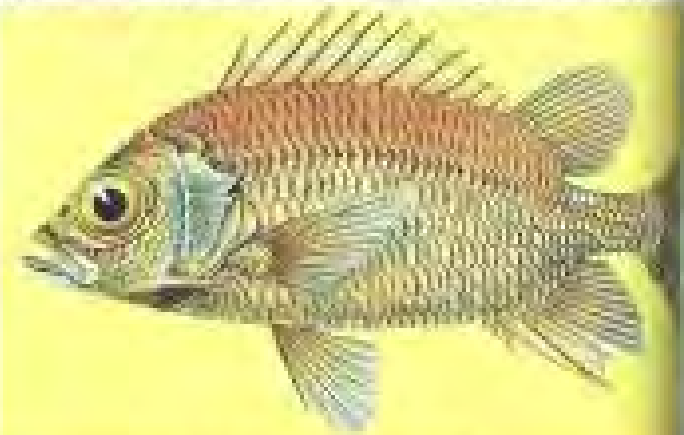
Neoniphon sammaris 235
6-10 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 30 cm 300L



Neoniphon caeruleus 235
7, 9 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 35 cm 400L



Sergoacentron spiniferum 235
7, 9-10 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 45 cm 500L



Sergoacentron caudimaculatum 235
7-10 ~ ♀ ~ ● 大 西 □ 26°C sg: 1.022 25 cm 250L



Plectropops retrospinis 235
2~3 年 ♀ ● 大 箱 □ 26°C sg: 1.022 10 cm 100L



Plectropops lima 235
6~7 年 ♀ ● 大 箱 □ 26°C sg: 1.022 17.5 cm 200L



Pristigaster oligolepis 235
6~9 年 ♀ ● 大 箱 □ 26°C sg: 1.022 30 cm 300L



Ostichthys japonicus 235
6~7, 9~10 年 ♀ ● 大 箱 □ 26°C sg: 1.022 45 cm 500L



Myripristis leuognathus 235
3~4 年 ♀ ● 大 箱 □ 26°C sg: 1.022 17.5 cm 300L



Myripristis jacobus 235
1~2, 10~11 年 ♀ ● 大 箱 □ 26°C sg: 1.022 20 cm 200L



Myripristis adusta 235
6~7, 9~10 年 ♀ ● 大 箱 □ 26°C sg: 1.022 32 cm 300L



Myripristis sp. 235
6~7 年 ♀ ● 大 箱 □ 26°C sg: 1.022 17 cm 200L

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Myripristis adustus 235
6-7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 32 cm 300L

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Myripristis hexagonatus 235
6-7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 20 cm 200L



Myripristis kuntee 235
6-10 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 15 cm 200L



Myripristis melanostictus 235
7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 30 cm 300L



Myripristis murdaii 235
7-10 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 24 cm 250L



Myripristis violacea 235
6-7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 20 cm 200L



Myripristis vittatus 235
7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 20 cm 200L



Myripristis adustus and *Myripristis vittatus* 235
7, 9 ~ ♀ ● 大 魚 □ 26°C sg: 1.022 32 cm 300L



Myripristis axillaris 235
7-10 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 27 cm 300L



Myripristis wolacota 235
6-7, 9 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 20 cm 200L



Myripristis xanthurus 235
10 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 17 cm 300L



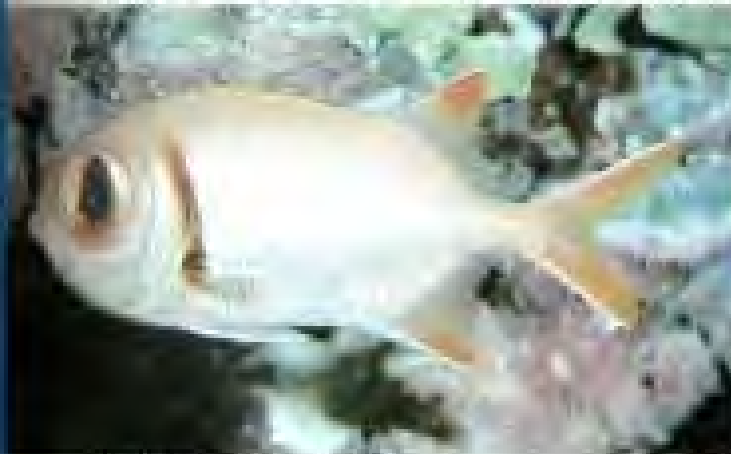
Myripristis berndti 235
7, 9 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L



Myripristis pratinia 235
7, 9 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 20 cm 200L



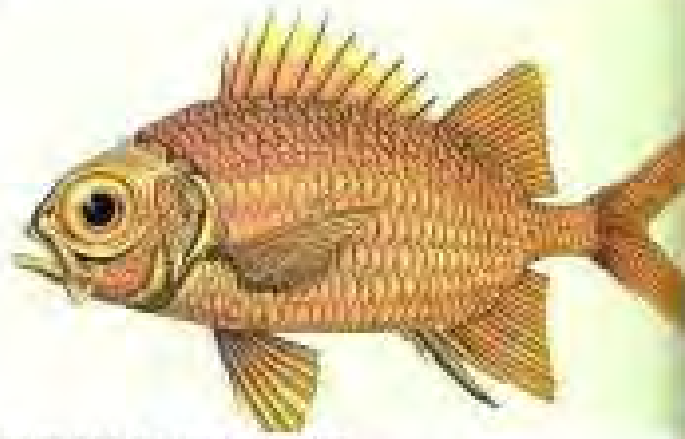
Myripristis berndti 235
7, 9 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L



Myripristis kawtee 235
6-10 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 15 cm 200L



Myripristis amaenus 235
6 ~ ♀ ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L



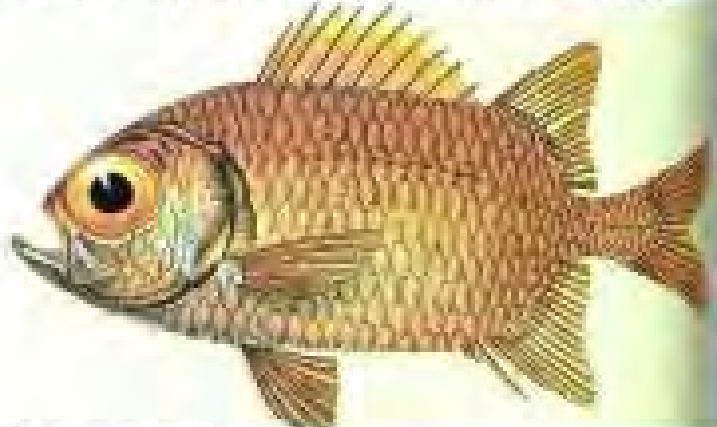
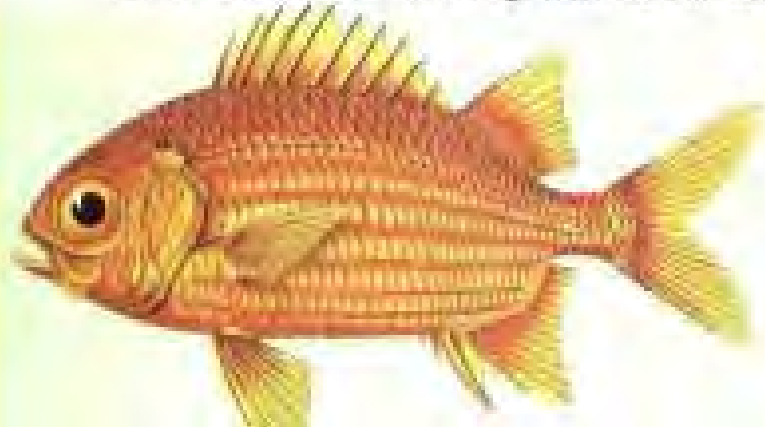
Myripristis melanostictus 235
7.9 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L

Myripristis trachyacron 235
7 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 16 cm 200L



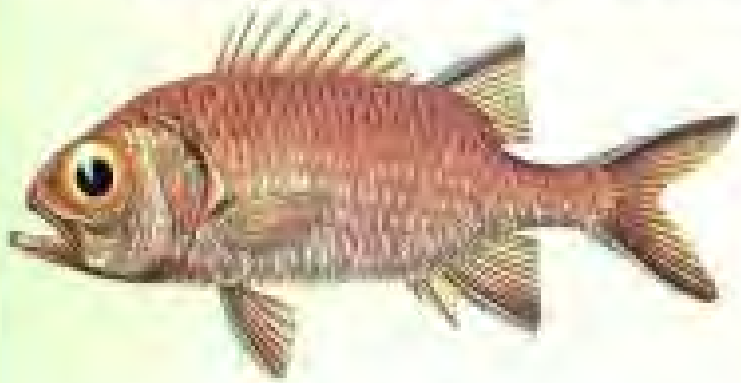
Myripristis adustus 235
7.9 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 32 cm 300L

Myripristis melanostictus 235
7.9 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L



Myripristis hexagonus 235
6-7.9 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 30 cm 300L

Myripristis murdjan 235
7-10 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 24 cm 250L



Myripristis murdjan 235
7-10 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 24 cm 250L

Myripristis murdjan 235
7-10 ~ 9 ~ ● 次 画 □ 26°C sg: 1.022 24 cm 250L

#70



Autostomus chinensis, 254
7, 9 ~ 9 ~ 4 ~ 30 ~ 30 ~ 26°C sg: 1.022 100 cm 1000L





Cyttopsis rosea? 245
 5-9 ㎝ ㎖ ㎖ ◻ 26°C sg: 1.022 22 cm 200L



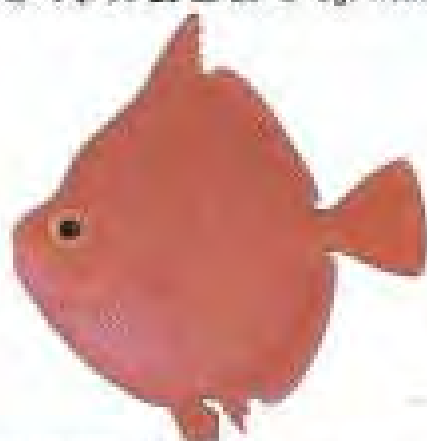
Zenion hololepis 244
 7.9 ㎝ ㎖ ㎖ ◻ 26°C sg: 1.022 10 cm 100L



Zeus japonicus 245
 5-9 ㎝ ㎖ ㎖ ◻ 26°C sg: 1.022 50 cm 500L



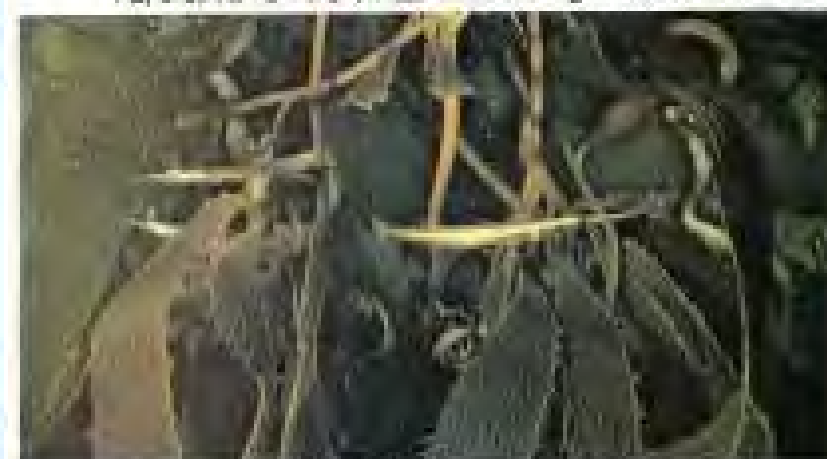
Zenopsis nebulosa 245
 5-7 ㎝ ㎖ ㎖ ◻ 26°C sg: 1.022 50 cm 500L



Antiponia capros 248
 1-2, 6-9, 13 ㎝ ㎖ ㎖ ◻ 26°C sg: 1.022 25 cm 300L



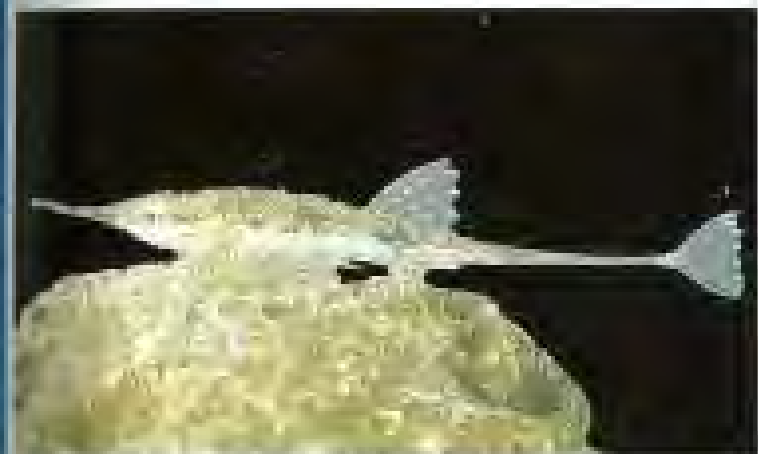
Aulicthys japonicus 250
 5 ㎝ ㎖ ㎖ ◻ 24°C sg: 1.023 15 cm 100L



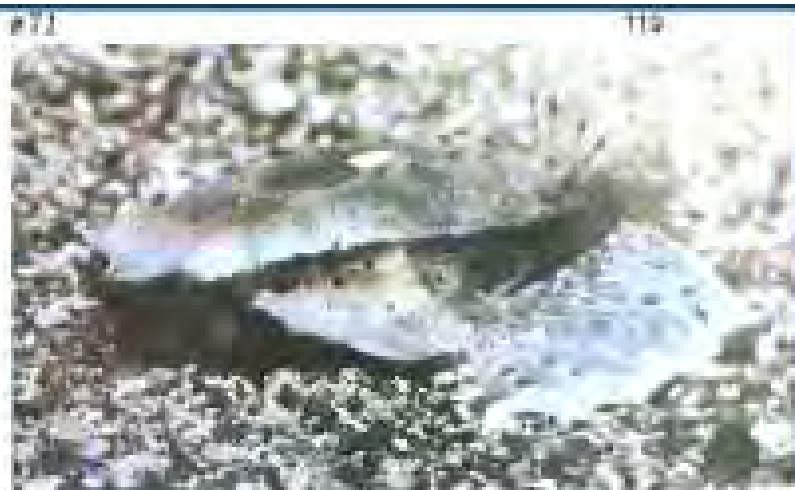
Aulorhynchus flavidus 250
 3 ㎝ ㎖ ㎖ ㎖ ◻ 26°C sg: 1.022 18 cm 200L



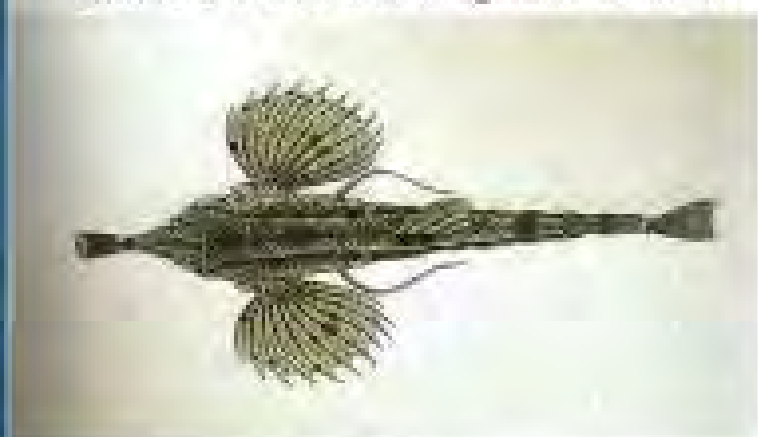
Spinachia spinachia 251
 14 ㎝ ㎖ ㎖ ㎖ ◻ 22°C sg: 1.024 19 cm 200L



Parapegasis natans 253
5, 7, 8, 12 ♀♂ 25°C sg: 1.022 16 cm 200L



#71 11a
Pegasus volitans 253
5, 7, 9 ♀♂ 25°C sg: 1.022 17.5 cm 200L



Parapegasis sp.7 253
7, 8 ♀♂ 25°C sg: 1.022 12 cm 120L



Aulostomus maculatus 254
2 ♀♂ 25°C sg: 1.022 91 cm 1000L



Aulostomus chinensis 254
7, 9 ♀♂ 25°C sg: 1.022 100 cm 1000L



Aulostomus chinensis 254
7, 9 ♀♂ 25°C sg: 1.022 100 cm 1000L



Fistularia commersonii 255
Circumtrop. ♀♂ 26°C sg: 1.022 160 cm



Fistularia tabacaria 255
1-2 ♀♂ 24°C sg: 1.023 180 cm 2000L



Phyllopteryx taeniolatus 259
12 ~ ♀ ♀ ♀ ♀ 24°C sg: 1.023 23 cm 250t.

Solenostomus paradoxus 258
5, 7, 9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 16.5 cm 200L.



#71B

Pycnodorus aques 259
12 hr ♀ ♀ ♀ 24°C sg: 1.023 35 cm 400L





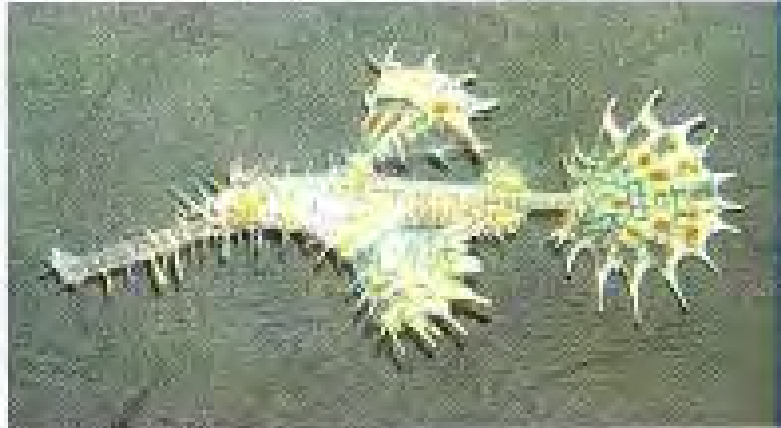
Aedideus strigatus and *A. punctulatus*: 257
7-10 ~r ♀ ♀ ♀ ♀ 26°C sg; 1,022 15 cm 150L



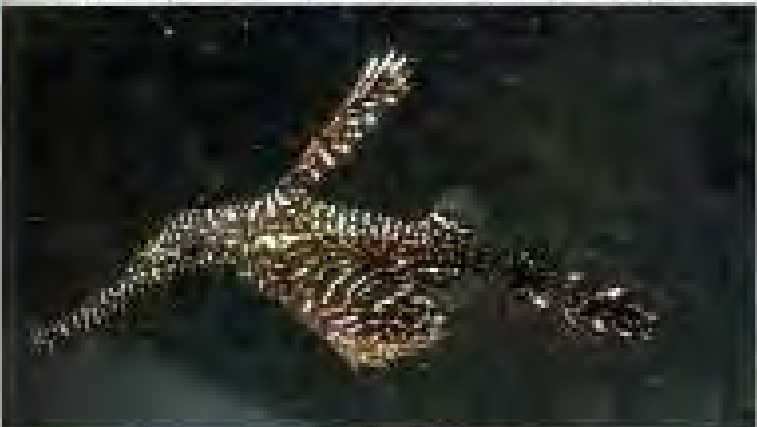
Macrhamphosus scolopax 256
 Circuntrop. ~r ♀ 26°C sg: 1.022 20 cm 200L



Centriscus scutatus 257
 7-9 ~r ♀ 24°C sg: 1.023 15 cm 200L



Solenostomus cyanopterus 258
 5, 7, 9 ~r ♀ 26°C sg: 1.022 17 cm 200L



Solenostomus paegnius 258
 5, 7, 9 ~r ♀ 26°C sg: 1.022 10 cm 100L



Solenostomus paradoxus 258
 5, 7, 9 ~r ♀ 26°C sg: 1.022 16.5 cm 200L



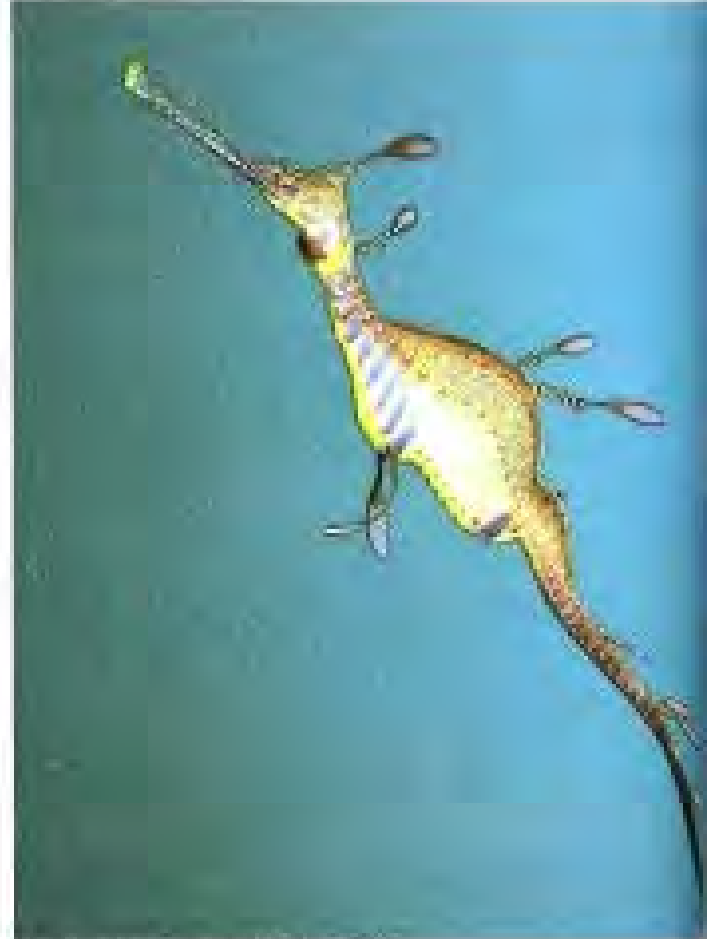
Solenostomus paradoxus 258
 5, 7, 9 ~r ♀ 26°C sg: 1.022 16.5 cm 200L



Solenostomus paradoxus 258
 5, 7, 9 ~r ♀ 26°C sg: 1.022 16.5 cm 200L



Phycodurus equus 259
12 hr | ♀ ♂ = 24°C sg: 1.023 36 cm 400L



Phyllopteryx taeniolatus 258
12 hr | ♀ ♂ = 24°C sg: 1.023 23 cm 250L



Phycodurus equus 259
12 hr | ♀ ♂ = 24°C sg: 1.023 36 cm 400L



Phyllopteryx taeniolatus 259
12 hr | ♀ ♂ = 24°C sg: 1.023 23 cm 250L



Solenostomus armatus 258
7 hr | ♀ ♂ = 28°C sg: 1.022 12 cm 120L



Solenostomus cyanopterus 258
5, 7, 9 hr | ♀ ♂ = 28°C sg: 1.022 17 cm 300L



Bryx dunckeri 259
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7.5 cm 100L



Syngnathus louisianae 259
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 38 cm 400L



Micrognathus aeneoides 259
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 12.5 cm 100L



Microphis brachyurus 259
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Stigmatopora nigra 259
8, 11 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17.3 cm 200L



Stigmatopora argus 259
12 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



Syngnathoides bicinctus 259
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Cosmocampus arctus 259
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Syngnathus sp. 259
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 150L

120



Bulbonaricus brauni 259
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5.5 cm 50L

478



Histogamphelus cristatus 259
12 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 14 cm 150L



Lissocampus caudata 259
12 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.022 13 cm 100L



Hippoichthys penicillatus 259
7, 9 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8.0 cm 100L



Entelurus aequoreus 259
13 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 150L



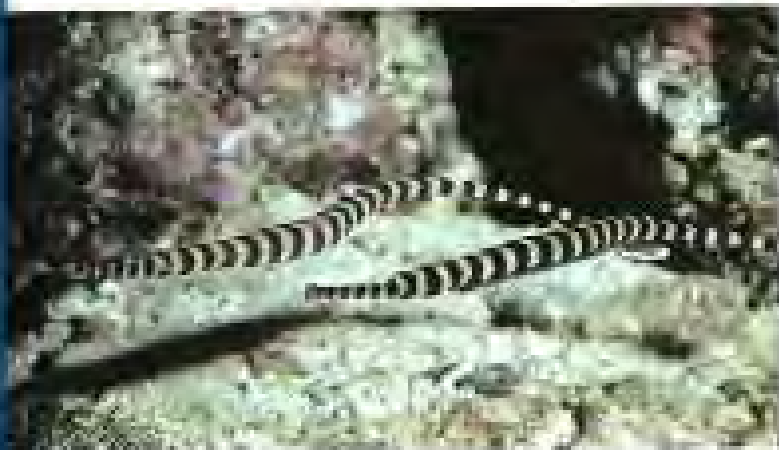
Halicampus grayi 259
7-9 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Heraldia nocturna 259
12 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.022 9 cm 100L



Maroubra perserrata 259
12 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.022 7 cm 100L



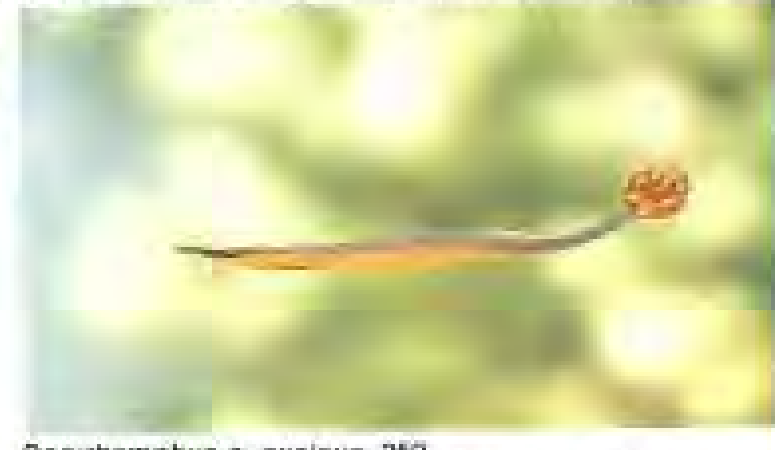
Dorythamphus dactylophorus 259
6-7, 9-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Dorythamphus janssi 259
7, 8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 100L



Dorythamphus japonicus 259
5 ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



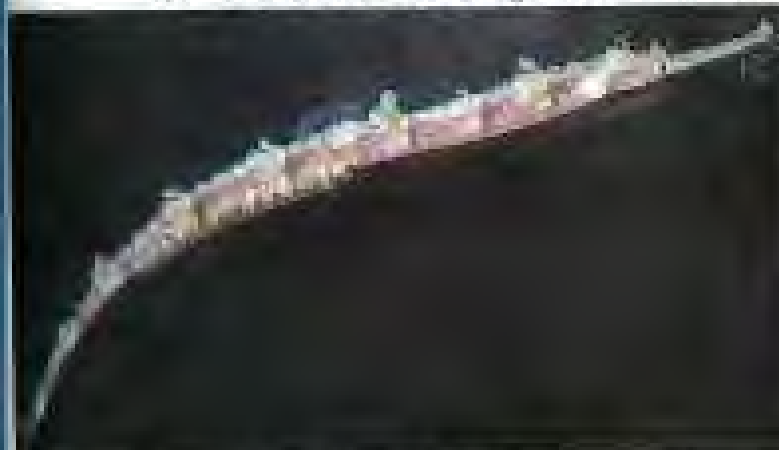
Dorythamphus s. excisus 259
3, 6-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 100L



Corythoichthys intestinalis 259
6, 7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 16 cm 200L



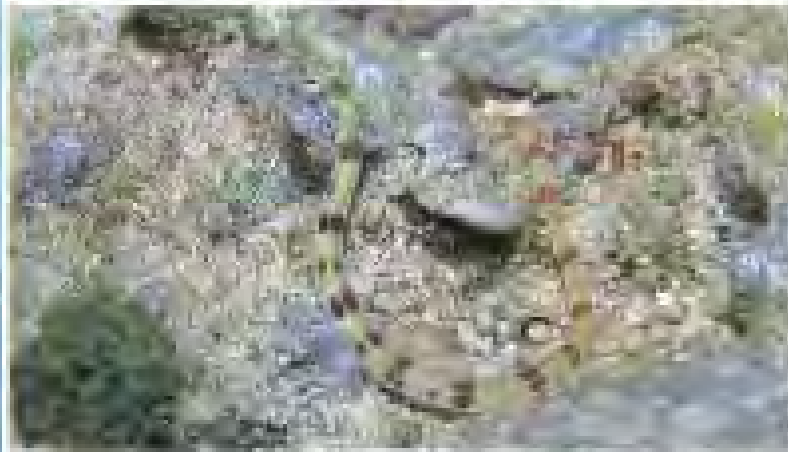
Corythoichthys paxtoni 259
8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 14 cm 100L



Halocampus macrorhynchus 259
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 13.5 cm 150L



Corythoichthys amplexus 259
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Corythoichthys amplexus 259
6-9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Corythoichthys haematopterus 259
6-9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Corythoichthys schultzei 259
6-10 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Dorythamphus multiradiolatus 259
9-10 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Halicampus spinirostris 259
7-9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 100L



Hippocampus angustus 259
12 ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.023 10 cm 100L



Hippocampus kuda 259
7 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Hippocampus abdominalis 259
 12 ~ 1 ♀ 1 ♂ 24°C sg: 1.023 10 cm 100L



Hippocampus breviceps 259
 12 ~ 1 ♀ 1 ♂ 24°C sg: 1.022 8.5 cm 60L



Hippocampus bergibanki 259
 5 ~ 1 ♀ 1 ♂ 26°C sg: 1.022 5 cm 50L



Hippocampus sp. 259
14 № 1 ♀ № 2 ♂ 22°C sg: 1.024



Hippocampus japonicus 259
5, 7 № 1 ♀ № 2 ♂ 26°C sg: 1.022



Hippocampus kuda 259
5, 7, 9 № 1 ♀ № 2 ♂ 26°C sg: 1.022



Hippocampus ramulosus 259
13, 15 № 1 ♀ № 2 ♂ 25°C sg: 1.024



Hippocampus ingens 259
3 № 1 ♀ № 2 ♂ 25°C sg: 1.022



Hippocampus hippocampus 259
14, 15 № 1 ♀ № 2 ♂ 26°C sg: 1.022



Hippocampus coronatus 259
 5.7 ~ 10.0 ▼ 18 ~ 24°C sg: 1.023



Hippocampus reidi 259
 1.2 ~ 1.5 ▼ 18 ~ 24°C sg: 1.023



Hippocampus erectus 259
 1.2 ~ 1.5 ▼ 18 ~ 23°C sg: 1.024 15 cm 200L



Hippocampus anectus, family Syngnathidae (268).



Hippocampus kuda 259
7-14 11 12 18 26°C sp: 1.022 18 cm 200L



Pterois volitans 202
T-8 4-4 0 0 26°C 5g: 1.022 95 cm 400L



Arimides filamentosus 263
9-10 へ へ へ へ へ へ 25°C sg: 1.022 18 cm 200L



Scorpaenopsis oxycephala 262
6-10 № ♀ ♂ ♀ ♂ 25°C sg: 1.022 30 cm 300L

Dactyloptena orientalis 260
7-9 № ♀ ♀ ♂ ♂ 25°C sg: 1.022 35 cm 400L



108



Helicolenus hilgendorfi 262
5 ~ 8 ~ 0 ~ ♀ ~ 23°C sg: 1,024 20 cm 200L

#84



Helicolenus papillosus 262
11 ~ 8 ~ 0 ~ ♀ ~ 24°C sg: 1,023 30 cm 300L



Sebastolobus macrochir 262
5 ~ 8 ~ 0 ~ ♀ ~ 24°C sg: 1,023 30 cm 300L



Sebastolobus alascanus 262
4 ~ 8 ~ 0 ~ ♀ ~ 23°C sg: 1,024 75 cm 750L



Sebasticus albofasciatus 262
5 ~ 8 ~ 0 ~ ♀ ~ 24°C sg: 1,023 25 cm 250L



Sebasticus marmoratus 262
5, 7 ~ 8 ~ 0 ~ ♀ ~ 24°C sg: 1,023 34 cm 350L



Scorpaenopsis cycloptala 262
6-10 ~ 8 ~ 0 ~ ♀ ~ 26°C sg: 1,022 30 cm 300L



Scorpaena cardinalis 262
8 ~ 8 ~ 0 ~ ♀ ~ 26°C sg: 1,022 45 cm 500L



Rhinopias frondosa 262
 ♂ ♀ 26°C sg: 1.022 25 cm 300L



Rhinopias eschmeyerii 262
 ♂ ♀ 26°C sg: 1.022 19 cm 200L



Rhinopias argoliba 262
 ♂ ♀ 24°C sg: 1.023 17 cm 200L



Rhinopias aphanes 262
 ♂ ♀ 26°C sg: 1.022 23.5 cm 300L

140



Parapterois heterurus 262
6-7, 9-11, 12-14, 15-16, 26°C, sg: 1.022, 15 cm, 150L

#86



Dendochirus barbelli 262
6-8, 9-11, 12-14, 15-16, 26°C, sg: 1.022, 10.5 cm, 100L



Pterois volitans 262
7-10, 11-13, 14-16, 26°C, sg: 1.022, 35 cm, 400L



Pterois species 262
6-8, 9-11, 12-14, 15-16, 26°C, sg: 1.022, 25 cm, 300L



Dendochirus zebra 262
7-10, 11-13, 14-16, 26°C, sg: 1.022, 30 cm, 300L



Pterois volitans 252
8-9 hr 4-10 min 28°C egg 1.022 20-cm 200L

142

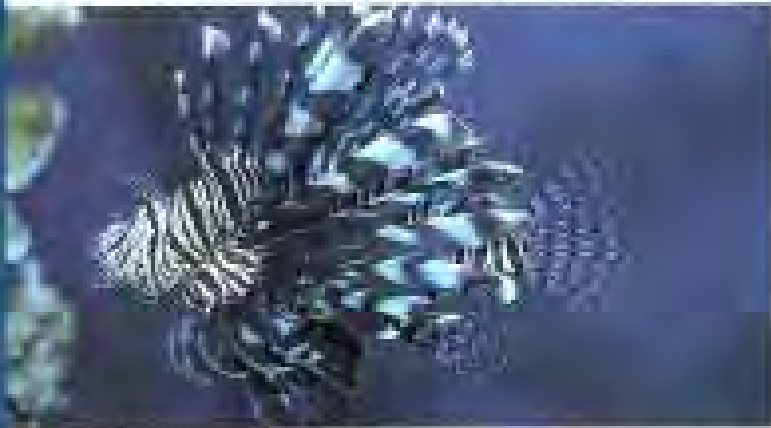


Pterois antennata 262
7-9 Nov 2008 26°C sg: 1,022 30 cm 300L

#88



Pterois antennata 262
7-8 Nov 2008 26°C sg: 1,022 30 cm 300L



Pterois volitans 262
7-8 Nov 2008 26°C sg: 1,022 35 cm 400L



Pterois miles 262
9, 10 Nov 2008 26°C sg: 1,022 31 cm 300L



Pterois radiata 262
6-10 Nov 2008 28°C sg: 1,022 20 cm 200L

144

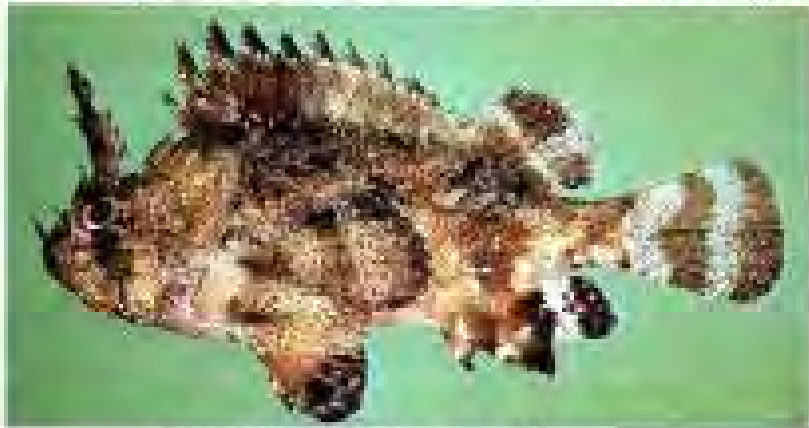


Scorpaena hololepis 262
13-15 hr ~ 1.024 sg: 26°C 30 cm 300L

#80



Scorpaena scrofa 262
13-15 hr ~ 1.024 sg: 26°C 30 cm 300L



Scorpaena grandicornis 262
2 hr ~ 1.023 sg: 26°C 25 cm 300L



Scorpaena porcus
13-15 hr ~ 1.024 sg: 26°C 30 cm 300L



Scorpaena plumieri plumieri 262
1-3, 13 hr ~ 1.023 sg: 26°C 30 cm 300L



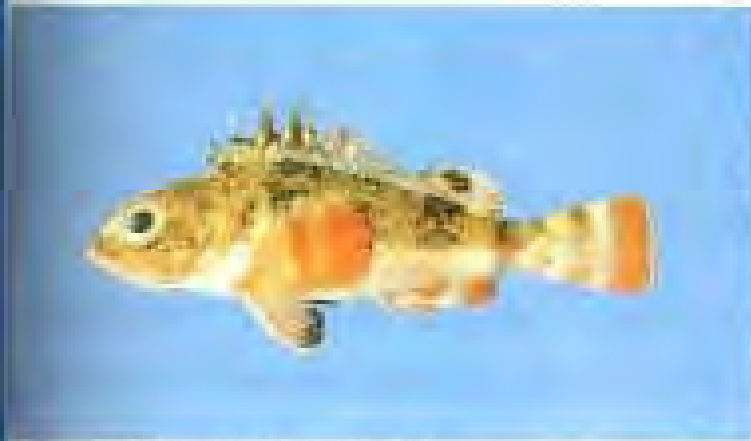
Scorpaena plumieri mystes 262
3 hr ~ 1.023 sg: 26°C 30 cm 300L



Scorpaena plumieri (juv.) 262
1-3, 13 hr ~ 1.023 sg: 26°C 30 cm 300L



Scorpaena plumieri 262
1-3, 13 hr ~ 1.023 sg: 26°C 30 cm 300L



Scorpaena sanroese 262
 3 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.022 12 cm 120L



Scorpaena guttata 262
 4 ♀♀ ~ 0 ♂♂ ♀♂ □ 22°C sg: 1.024 43 cm 400L



Scorpaena inermis 262
 2 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.022 11 cm 100L



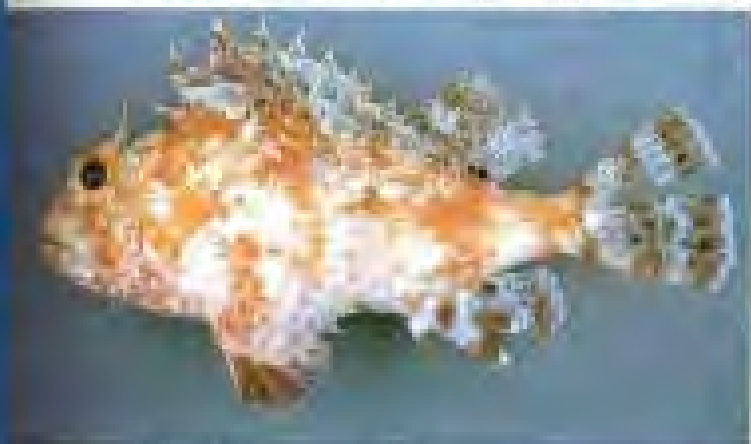
Scorpaena efachys 262
 2 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.022 64 cm 700L



Scorpaena albifimbria 262
 2 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.022 75 cm 800L



Scorpaenodes tredecimspinosus 262
 2 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.022 10 cm 100L



Scorpaena 262
 2 ♀♀ ~ 0 ♂♂ ♀♂ □ 26°C sg: 1.024 23 cm 250L



Scorpaena bergi 262
 1-2 ♀♀ ~ 0 ♂♂ ♀♂ □ 24°C sg: 1.023 75 cm 800L

146



Scorpaena coriaria 262
6-8 cm 4-5 1 30 26°C sg: 1.022 7.5 cm 80L

#02



Scorpaenopsis sp. 262
11-12 cm 4-5 1 30 26°C sg: 1.022 10 cm 100L



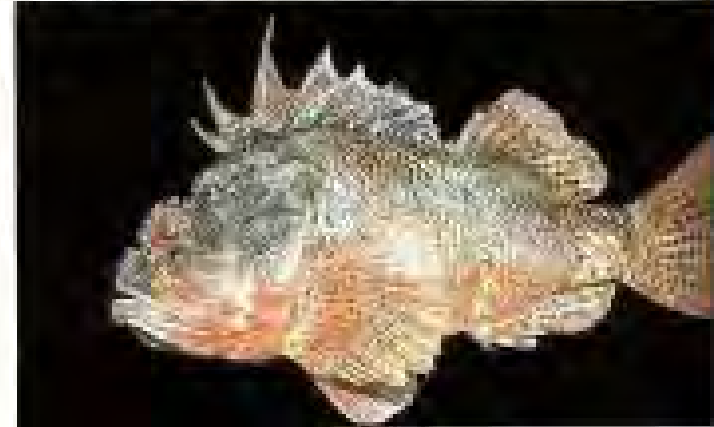
Sebastapistes cyanostigma 262
6-10 cm 4-5 1 30 26°C sg: 1.022 8 cm 80L



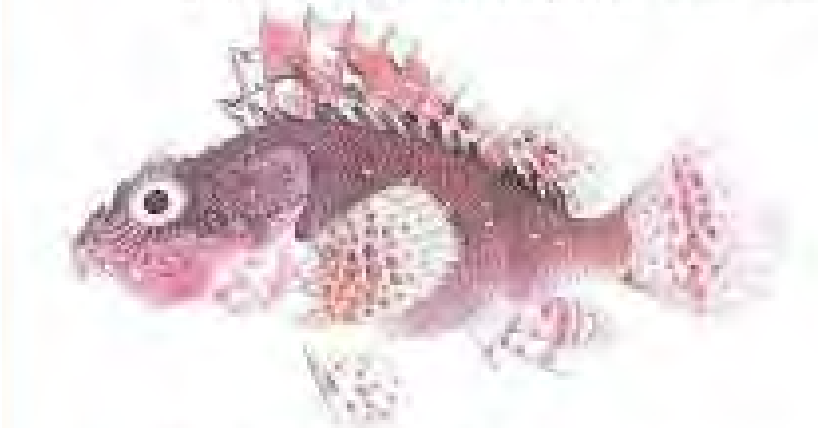
Scorpaenopsis oxycephala 262
6-10 cm 4-5 1 30 26°C sg: 1.022 30 cm 300L



Scorpaena sp. 262
12 cm 4-5 1 30 24°C sg: 1.022 10 cm 100L



Scorpaena sumptuosa 262
12 cm 4-5 1 30 24°C sg: 1.022 30 cm 300L



Scorpaena neglecta 262
5, 7 cm 4-5 1 30 26°C sg: 1.022 30 cm 300L



Pomfistius macrocephalus 262
6-7 cm 4-5 1 30 26°C sg: 1.022 13 cm 150L



Scorpaenopsis brevifrons 262
6-7 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 10-5 cm 100L



Scorpaenopsis gibbosa 262
9-10 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 10 cm 100L



Scorpaenopsis oxycephala 262
6-10 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 30 cm 300L



Scorpaenopsis oxycephala 262
8-10 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 30 cm 300L



Scorpaenopsis diabolus 262
6-10 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 30 cm 300L



Scorpaenopsis barbatus 262
9-10 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 22 cm 200L



Sebastes strongia 262
7-8 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 10 cm 100L



Sebastes sp. 262
7 ♀ ~ S ~ 0 ~ * ~ ♀ ~ 26°C sg: 1.022 10 cm 100L



Macropodus signifer 262
6-9 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 10 cm 100L



Scorpaena picta 262
6, 7-9, 12 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 12 cm 150L



Sebastapistes cyanostigma 262
6-9 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 7 cm 80L



Scorpaena sp. 262
7, 12 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 22 cm 200L



Scorpaenopsis sp. 262
7, 9 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 8 cm 80L



Scorpaenopsis sp. 262
7, 9 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 20 cm 200L



Scorpaenopsis sp. 262
7, 9 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 18 cm 200L



Scorpaenopsis diabolus 262
6-10 ㎎ ~ ㎎ ㎎ ㎎ 26°C sg: 1.022 30 cm 300L



Sebastes atromens 262
3,4歳 体長 24°C sg: 1.023 42 cm 500L



Sebastes auriculatus 262
3,4歳 体長 25°C sg: 1.022 56 cm 600L



Sebastes cornatus 262
4歳 体長 23°C sg: 1.023 40 cm 400L



Sebastes caurinus 262
4歳 体長 24°C sg: 1.022 40 cm 400L



Sebastes chrysomelas 262
4歳 体長 22°C sg: 1.024 39 cm 400L



Sebastes constellatus 262
4歳 体長 24°C sg: 1.023 30 cm 300L



Sebastes dalli 262
4歳 体長 22°C sg: 1.024 20 cm 200L



Sebastes maliger 262
4歳 体長 24°C sg: 1.023 60 cm 600L

150



Sebastes mystinus 262
4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 53 cm 500L

#06



Sebastes melanops 262
4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 60 cm 600L



Sebastes nigrocinctus 262
4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 61 cm 600L



Sebastes nebulosus 262
4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 43 cm 400L



Sebastes paucispinis 262
3, 4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 90 cm 1000L



Sebastes plinniger 262
4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 76 cm 800L



Sebastes rosaceus 262
3, 4 ~ 5 ~ 0 大 西 □ 22°C sg: 1.024 36 cm 400L



Sebastes ruberrimus 262
4 ~ 5 ~ 0 大 西 □ 21°C sg: 1.024 91 cm 1000L



Sebastes serriceps 262
4~9~5~1~3~1~2~23°C sg: 1.024 41 cm 400L



Sebastes rubrivinctus 262
4~9~5~1~3~1~2~22°C sg: 1.024 51 cm 500L



Sebastes miniatus 262
4~9~5~1~3~1~2~23°C sg: 1.024 76 cm 800L



Sebastes ambrosus 262
4~9~5~1~3~1~2~22°C sg: 1.024 27 cm 900L



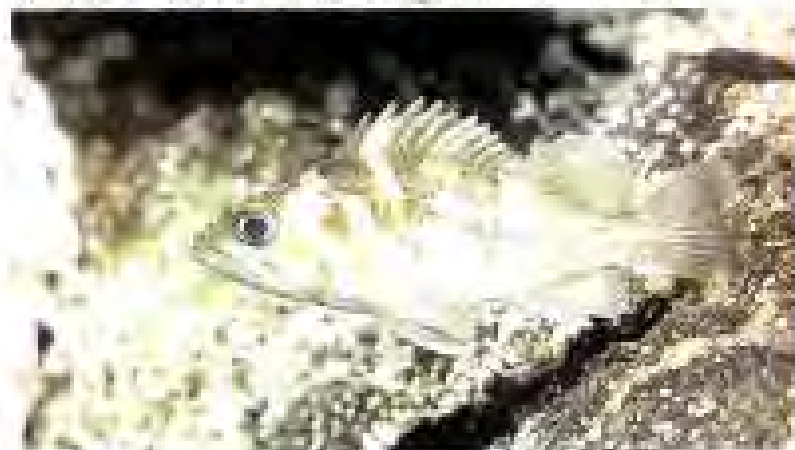
Sebastes semonioides 262
4~9~5~1~3~1~2~23°C sg: 1.024 61 cm 600L



Sebastes maximus 262
1, 34~9~5~1~3~1~2~22°C sg: 1.024 51 cm 500L



Sebastes flavidus 262
4~9~5~1~3~1~2~23°C sg: 1.024 20 cm 200L



Sebastes sp. 262
4~9~5~1~3~1~2~22°C sg: 1.024 50 cm 500L



Sebastes invidiosus 262
5cm 4.0 1.0 23°C sg: 1.024 40 cm 400L



Sebastes joyneri 262
5cm 4.0 1.0 23°C sg: 1.024 30 cm 200L



Sebastes nivosus 262
5cm 4.0 1.0 23°C sg: 1.024 40 cm 400L



Sebastes inermis 262
5cm 4.0 1.0 23°C sg: 1.024 35 cm 400L



Sebastes baramenake 262
5cm 4.0 1.0 23°C sg: 1.024 45 cm 500L



Sebastes pachycephalus 262
5cm 4.0 1.0 23°C sg: 1.024 40 cm 400L



Sebastes oblongus 262
5cm 4.0 1.0 23°C sg: 1.024 40 cm 400L



Sebastes marsubarae 262
5cm 4.0 1.0 23°C sg: 1.024 70 cm 100L



Scorpaenodes scaber 262
F-8, 12 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 63 cm 500L



Scorpaenodes varipinnis 262
7-8, 12 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 5 cm 50L



Scorpaenodes sp. 262
7-8, 12 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 12 cm 150L



Scorpaenodes sp. 262
7-8, 12 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 8 cm 100L



Scorpaenodes caribbaeus 262
2 hr ~ ♀ 大 雄 □ 25°C sg: 1.023 10 cm 100L



Scorpaenodes insularis 262
13 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 8.5 cm 80L



Scorpaenodes zyris 262
3, 4 hr ~ ♀ 大 雄 □ 25°C sg: 1.023 15 cm 200L



Scorpaenodes sp. 262
8 hr ~ ♀ 大 雄 □ 25°C sg: 1.022 15 cm 200L



Dampleyosa daruma 263
12ヶ月 飼育 24°C sg: 1.022 16 cm 200L



Erosa erosa 263
8ヶ月 飼育 26°C sg: 1.022 15 cm 200L



Mimicus filamentosus 263
9-10ヶ月 飼育 26°C sg: 1.022 18 cm 200L



Mimicus filamentosus 263
9-10ヶ月 飼育 26°C sg: 1.022 18 cm 200L



Mimicus caledonicus 263
7-9ヶ月 飼育 26°C sg: 1.022 12 cm 150L



Mimicus sp. 263
8ヶ月 飼育 26°C sg: 1.022 15 cm 200L



Mimicus versicolor 263
12ヶ月 飼育 26°C sg: 1.022 8 cm 100L



Mimicus guineacarinatus 263
7ヶ月 飼育 26°C sg: 1.022 15 cm 200L



Synanceia ferrugosa
6-10 hr 4-10°C 25°C ag: 1,022 35 cm 400x



Synanceia alula 263

7歳 ~ 9歳 体長 26°C sg: 1.022 85 cm 1000L



Inimicus alpinus 263

7-9, 12歳 ~ 10歳 体長 26°C sg: 1.022 25 cm 300L



Perryena leucometopon 267

12歳 ~ 10歳 体長 24°C sg: 1.024 18 cm 200L



Caracanthus maculatus 264

6-7歳 ~ 10歳 体長 26°C sg: 1.022 5.5 cm 600L



Synanceia verrucosa 263

7, 9-10歳 ~ 10歳 体長 26°C sg: 1.022 35 cm 400L



Glyptauchen panduratus 262

12歳 ~ 10歳 体長 26°C sg: 1.022 10 cm 100L



Amblypisius leonionotus 267

7歳 ~ 10歳 体長 26°C sg: 1.022 12 cm 150L



Caracanthus madagascariensis 264

9歳 ~ 10歳 体長 26°C sg: 1.022 5 cm 50L



Paraploacaris obbesi? 265
7.7cm x 4.0cm x 3.0cm □ 26°C sg: 1.022 5 cm 50L



Pataecus fronto 266
12.5cm x 6.0cm x 3.0cm □ 24°C sg: 1.023 12 cm 150L



Neopataecus waterhausi 266
12.5cm x 6.0cm x 3.0cm □ 26°C sg: 1.022 6.0 cm 60L



Neopataecus waterhausi 265
12.5cm x 6.0cm x 3.0cm □ 24°C sg: 1.023 6.0 cm 60L



Hypodytes rubripinnis 262
7.8cm x 6.0cm x 3.0cm □ 26°C sg: 1.022 11 cm 100L



Hypodytes sp. 262
7.8cm x 6.0cm x 3.0cm □ 26°C sg: 1.022 5 cm 50L



Paracentropogon vespa 262
7.8cm x 6.0cm x 3.0cm □ 26°C sg: 1.022 9 cm 100L



Hypodytes leucogaster 262
7.8cm x 6.0cm x 3.0cm □ 26°C sg: 1.022 5 cm 50L



Bellator gymnoscelus 268
 3 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 8 cm 100L



Cheilodactylus spinosus 268
 7 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 40 cm 400L



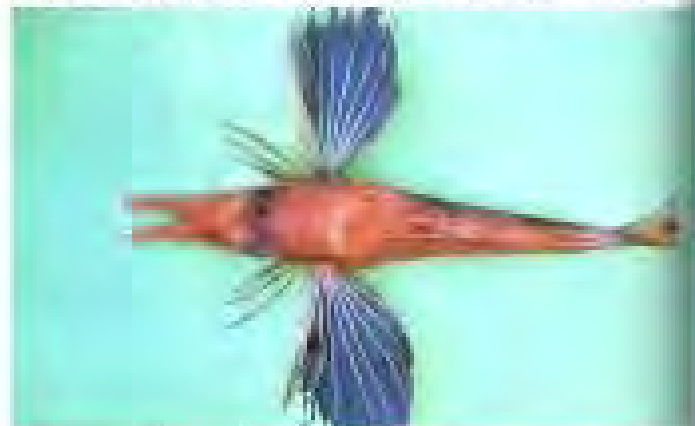
? *Parlstedion* sp. 268
 7 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 15 cm 200L



Setynichthys taricephalus 268
 5 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 24°C sg: 1.023 30 cm 300L



Dialphichthys hoplites 268
 7 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 20 cm 200L



Pterygoprigna multifocellatus 268
 5, 7 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 35 cm 300L



Lepidoprigna microptera 268
 7 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 24°C sg: 1.022 30 cm 300L



Paratrigna vanessa 268
 7 ♀, 11-12 ♀, 4 ♂, 1 ♀, 1 ♂, 1 ♀, 1 ♂ □ 26°C sg: 1.022 50 cm 500L



Prionotus ophryas 268
2号 海水 0 大 西 24°C sg: 1.022 23 cm 300L



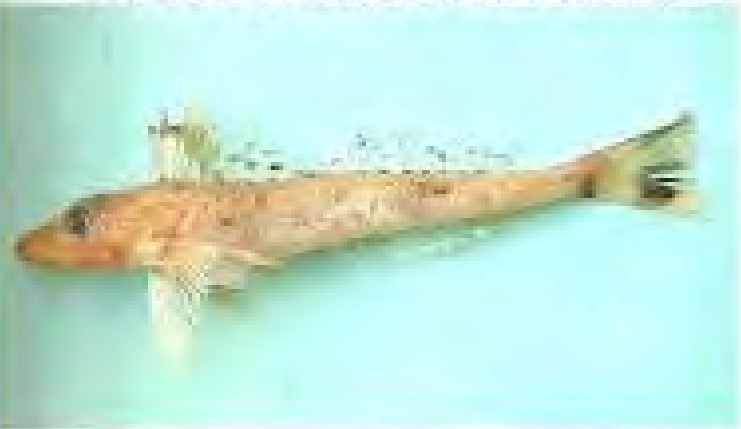
Prionotus scitulus 268
1-2号 海水 0 大 西 24°C sg: 1.023 25 cm 300L



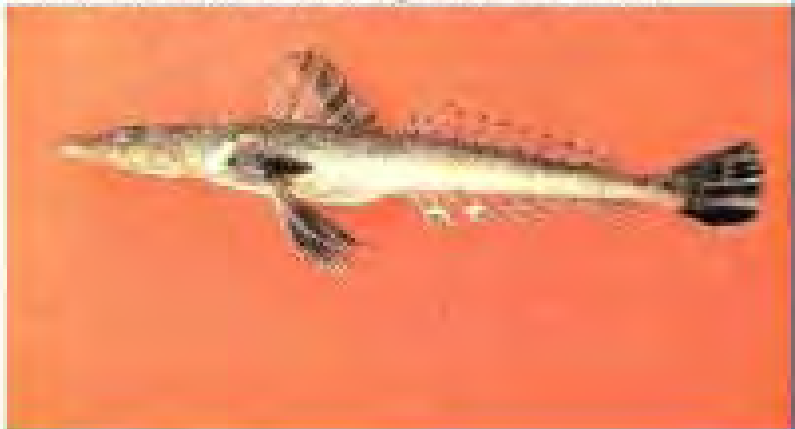
Prionotus carolinus 268
1号 海水 0 大 西 24°C sg: 1.023 36 cm 400L



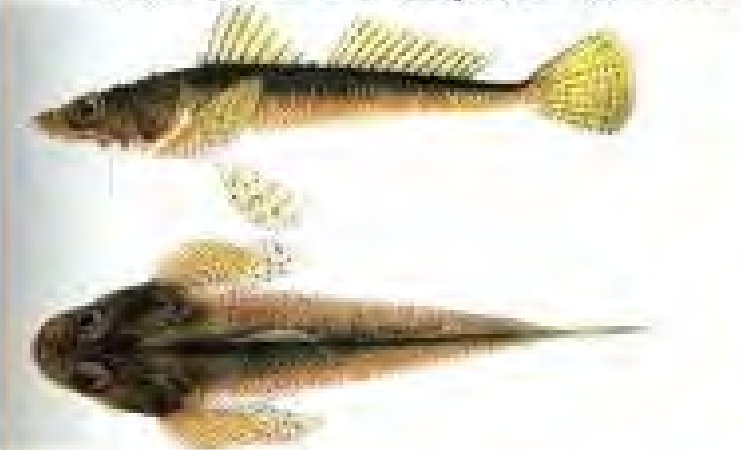
Prionotus rubio 268
2号 海水 0 大 西 26°C sg: 1.022 23 cm 300L



Bembra japonicus 269
7号 海水 0 大 西 24°C sg: 1.022 30 cm 150L



Coccyta crocodila 269
7, 9-10号 海水 0 大 西 26°C sg: 1.022 50 cm 500L



Onigocia setosa 269
5号 海水 0 大 西 24°C sg: 1.022 10 cm 100L



Thysanophrys oraitensis 269
6-9号 海水 0 大 西 26°C sg: 1.022 25 cm 300L

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Platycephalus indicus 269
7-10, 15 ~ ~ ~ 0 火 画 □ 25°C sg: 1.022 100 cm 1000L

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Inegocia guttata 269
5, 7 ~ ~ ~ 0 火 画 □ 25°C sg: 1.022 50 cm 500L



Onigocia macrolepis 269
5, 7 ~ ~ ~ 0 火 画 □ 25°C sg: 1.022 12 cm 150L



Onigocia macrolepis 269
5, 7 ~ ~ ~ 0 火 画 □ 25°C sg: 1.022 12 cm 150L



Anoplopoma fimbria 271
3-5 ~ ~ ~ 0 火 画 □ 23°C sg: 1.024 76 cm 800L



Eriopsis zonifer 271
4, 5 ~ ~ ~ 0 火 画 □ 25°C sg: 1.022 183 cm 2000L



Hexagrammos otakii 272
5 ~ ~ ~ 0 火 画 □ 24°C sg: 1.023 40 cm 400L



Hexagrammos sp. 272
4 ~ ~ ~ 0 火 画 □ 24°C sg: 1.023 40 cm 400L



Hexagrammos decagrammus 272
4〜5センチ 雄 ♀ 23°C sg: 1.023 50 cm 500L



Hexagrammos decagrammus 272
4〜5センチ 雄 ♀ 23°C sg: 1.023 50 cm 500L



Oxylebius pictus 272
4〜5センチ 雄 ♀ 24°C sg: 1.023 15 cm 200L



Oxylebius pictus 272
4〜5センチ 雄 ♀ 24°C sg: 1.023 15 cm 200L



Ophiodon elongatus 272
4〜5センチ 雄 ♀ 23°C sg: 1.024 152 cm 1500L



Pleurogrammus azonus 272
5〜6センチ 雄 ♀ 24°C sg: 1.023 70 cm 800L



Zanolepis frenata 273
4〜5センチ 雄 ♀ 24°C sg: 1.023 10 cm 100L



Zanolepis latipinnis 273
4〜5センチ 雄 ♀ 24°C sg: 1.023 30 cm 300L



Hemilepidotus gilberti 276
5 ♀ ~ ~ ~ ♂ 大 種 □ 24°C sg: 1.023 36 cm 400L



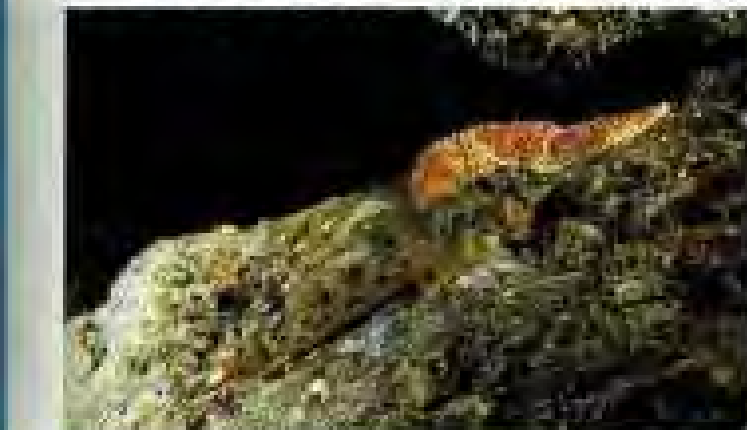
Hemilepidotus hemilepidotus 276
4 ♀ ~ ~ ~ ♂ 大 種 □ 22°C sg: 1.024 50 cm 500L



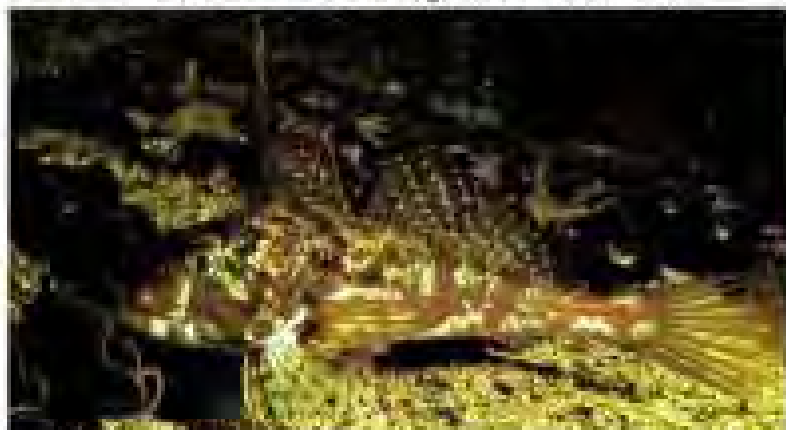
Hemitriptaris americanus 276
1 ♀ ~ ~ ~ ♂ 大 種 □ 22°C sg: 1.024 40 cm 400L



Hemitriptaris villosus 276
5 ♀ ~ ~ ~ ♂ 大 種 □ 22°C sg: 1.024 40 cm 400L



Jordanis zonope 276
4 ♀ ~ ~ ~ ♂ 大 種 □ 23°C sg: 1.024 15 cm 150L



Lalocottus hirundo 276
3 ♀ ~ ~ ~ ♂ 大 種 □ 26°C sg: 1.022 25 cm 300L



Myoxocephalus aeneus 276
4 ♀ ~ ~ ~ ♂ 大 種 □ 16°C sg: 1.024 60 cm 600L



Myoxocephalus scorpius 276
Circumpolar ♀ ~ ~ ~ ♂ 大 種 □ 16°C sg: 1.024 60 cm 600L



Rhamphocottus richardsoni 276
4.5 ♀ 尾 0 背 腹 23°C sg: 1.024 8 cm 80L



Platycephalus sp. 269
尾 0 背 腹 26°C sg: 1.022



Argyrococtus zanderi 275
5 ~ ♀ 背 腹 23°C sg: 1.024 9 cm 100L



Blepsias sp. 278
尾 0 背 腹 23°C sg: 1.024



Porocottus allisi 276
5 ~ ♀ 背 腹 23°C sg: 1.024 7 cm 70L



Scorpaenichthys marmoratus 276
4♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 30 cm 300L



Scorpaenichthys marmoratus 276
4♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 30 cm 300L



Pseudoblennius percooides 276
5♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 20 cm 200L



Pseudoblennius cortoides 276
5♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 7 cm 80L



Neulichthys oculatasciatus 276
4♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 20 cm 200L



Taurulus bubalis 276
14/15♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 20°C sg: 1.024 17 cm 200L



Desycetura japonicus 279
5♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 23°C sg: 1.024 10 cm 100L



Psychrolutes paradoxus 279
4-5♀ ♀ ♀ ♀ ♂ ♂ ♀ ♀ □ 24°C sg: 1.023 6.4 cm 50L

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Agonomalus proboscoidalis 280
5〜7ヶ月 24°C sg: 1.023 20 cm 200L

#114



Agonomalus proboscoidalis 280
5〜7ヶ月 24°C sg: 1.023 20 cm 200L



Agonus acipenserinus 280
4〜5ヶ月 24°C sg: 1.023 30 cm 300L



Ocella verrucosa 280
4〜5ヶ月 24°C sg: 1.023 30 cm 300L



Podottheicus sechi 280
5〜7ヶ月 24°C sg: 1.023 50 cm 500L



Cyclopterus lumpus 281
14〜15ヶ月 24°C sg: 1.023 56 cm bu.



Liparis pulchellus 281
4-5ヶ月 24°C sg: 1.023 30 cm 300L

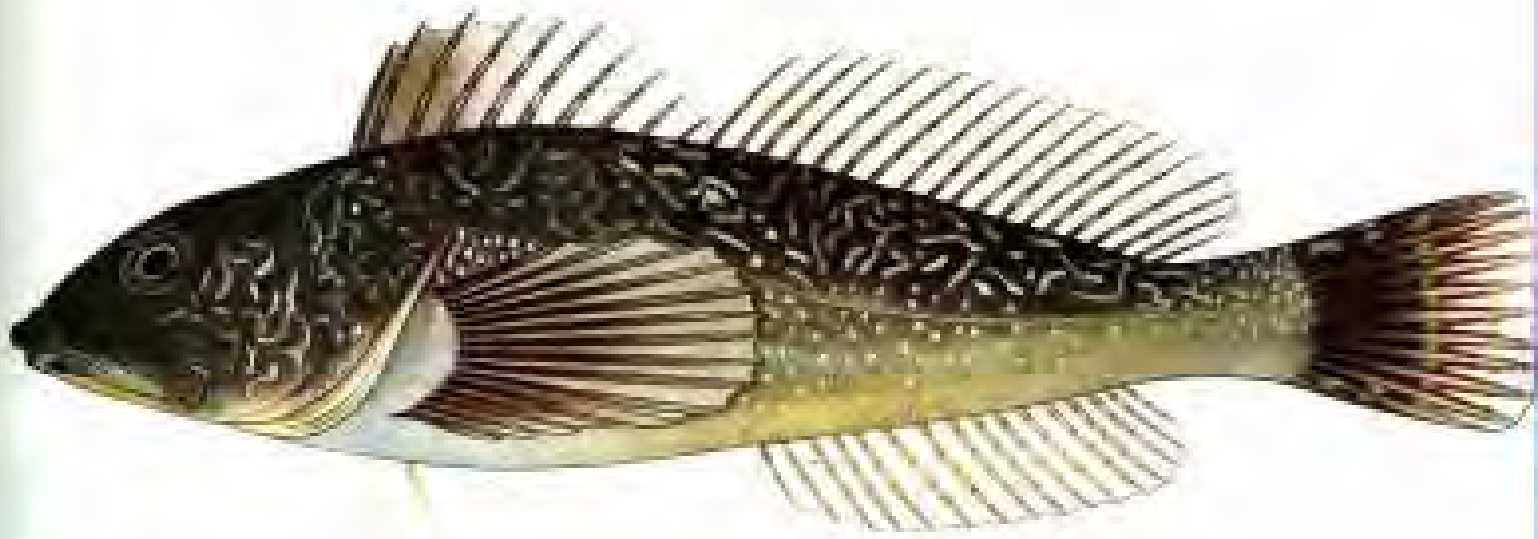


Liparis ochotensis 281
5〜7ヶ月 24°C sg: 1.023 40 cm 400L

#114A



Pseudobleennius cottioides 276
 ♀ 23°C sg: 1.024 7 cm 80L



Pseudobleennius pycnoides 276
 ♀ 23°C sg: 1.024 20 cm 200L

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Centropomus undecimfasciatus 282
1-2ヶ月 20cm 26°C sg: 1.022 110cm 1200L

#115



Centropomus nigrescens 282
3ヶ月 20cm 26°C sg: 1.022 100cm 1000L



Psammoperca waigiensis 282
7, 9ヶ月 20cm 26°C sg: 1.022 35cm 400L



Lates calcarifer 282
7-9ヶ月 20cm 26°C sg: 1.022 150cm 2000L



Ambassis macracanthus 282
9ヶ月 20cm 26°C sg: 1.022 15cm 200L



Ghanda ranga 282
9ヶ月 20cm 26°C sg: 1.022 8cm 80L



Ambassis interruptus 282
7, 9ヶ月 20cm 26°C sg: 1.022 8cm 80L



Dicentrarchus labrax 283
14-15ヶ月 20cm 21°C sg: 1.024 100cm 1000L



Myolabrichtys dispar 254
6-7 hrs 4 1 1/2 26°C sp: 1.022 10 cm 100L



Stereolepis pygma 283
4.5 ~ 5.5 cm TL, 21°C sg: 1.022 230 cm 2500L

Conosperca kawakamebani 283
5 ~ 6 cm TL, 21°C sg: 1.016 11 cm 150L





Doederleinia berycoides 283
5~9cm 水 24°C sg: 1.023 40cm 400L



Malakichthys wakiyai 283
5~9cm 水 26°C sg: 1.022 48cm 500L



Lateolabrax japonicus 283
5~9cm 水 24°C sg: 1.023 150cm 1500L



Morone saxatilis 283
1.4~9cm 水 24°C sg: 1.023 180cm 2000L



Nippon ananousus 283
7~9cm 水 26°C sg: 1.022 160cm 1000L



Polyprion oxygeneiosus 283
11~9cm 水 22°C sg: 1.024 220cm 2500L



Stereolepis pignas 283
4.5~9cm 水 26°C sg: 1.022 220cm 2600L



Stereolepis ischinagi 283
5~9cm 水 24°C sg: 1.023 200cm 2000L



Pseudanthias kashyae 284 ♂
7.9 ~ 8.5 cm 26°C sg: 1.022 11 cm 100L



Pseudanthias kashyae 284 ♀
7.9 ~ 8.5 cm 26°C sg: 1.022 11 cm 100L



Microabrichthys bicolor 284
7.9 ~ 8.5 cm 26°C sg: 1.022 13 cm 150L



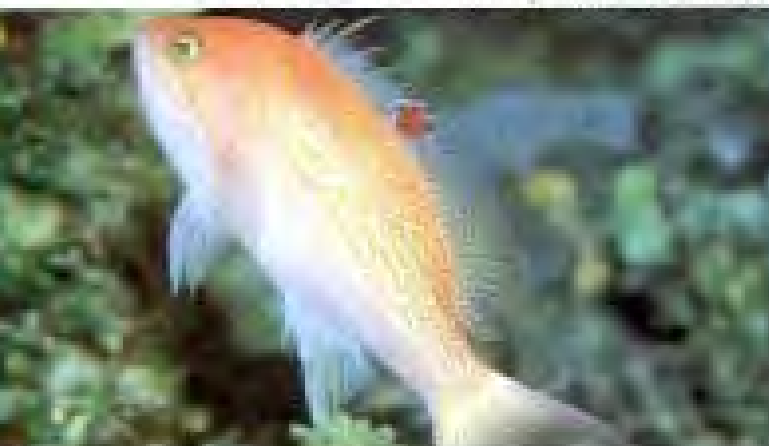
Microabrichthys ignifus 284
7.9 ~ 8.5 cm 26°C sg: 1.022 10 cm 100L



Pseudanthias sp. 284
9 ~ 9.5 cm 26°C sg: 1.022 10 cm 100L



Pseudanthias truncatus 284
7.9 ~ 8.5 cm 26°C sg: 1.022 10 cm 100L



Pseudanthias luzonensis 284 ♂
7.8 ~ 8.5 cm 26°C sg: 1.022 10 cm 100L



Pseudanthias luzonensis 284 ♀
7.8 ~ 8.5 cm 26°C sg: 1.022 10 cm 100L

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Anthias anthias 284
15 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 25 cm 250L

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Pseudanthias ventralis ventralis 284
6 ♀ ~ 0 ♀ ~ 26° sg: 1.022 7 cm 70L



Pseudanthias pleurotaenia 284
7-8 ♀ ~ 0 ♀ ~ 26° sg: 1.022 10 cm 100L



Pseudanthias rubrizonatus 284
7 ♀ ~ 0 ♀ ~ 26° sg: 1.022 12 cm 150L



Mirrolabrichthys thompsoni 284
6 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 19 cm 200L



Pseudanthias ventralis hawaiiensis 284
6 ♀ ~ 0 ♀ ~ 26° sg: 1.022 8 cm 80L



Pseudanthias squamipinnis 284
6-10 ♀ ~ 0 ♀ ~ 26° sg: 1.022 10.5 cm 100L



Pseudanthias squamipinnis 284
6-10 ♀ ~ 0 ♀ ~ 26° sg: 1.022 10.5 cm 100L



Pseudanthias fruticulus 284
7 ♀ 5 ♂ 1 ♀ 1 ♂ 26° sg: 1.022 10 cm 100L



Pseudanthias taeniatum 284
10 ♀ 5 ♂ 1 ♀ 1 ♂ 26° sg: 1.022-13 cm 100L



Pseudanthias sp. 284
10 ♀ 5 ♂ 1 ♀ 1 ♂ 26° sg: 1.022 10 cm 100L



Pseudanthias fasciatus 284
5, 7 ♀ 5 ♂ 1 ♀ 1 ♂ 24° sg: 1.023 9 cm 60L



Pseudanthias taiva 284
5 ♀ 5 ♂ 1 ♀ 1 ♂ 24° sg: 1.022 10 cm 60L



Pseudanthias engelhardi 284
8 ♀ 5 ♂ 1 ♀ 1 ♂ 26° sg: 1.022 4 cm 50L



Pseudanthias tenuis 284
2 ♀ 5 ♂ 1 ♀ 1 ♂ 26° sg: 1.022 10 cm 100L



Pseudanthias pictus 284
12 ♀ 5 ♂ 1 ♀ 1 ♂ 24° sg: 1.023 9 cm 100L



Mirolabrichthys bartletti 284
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Pseudanthias pleurotaenia 284 ♀
7-8 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Mirolabrichthys juka 284
7 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Mirolabrichthys pascalus 284
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Mirolabrichthys juka (var.) 284
7 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Mirolabrichthys imeldae 284
7 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Paranthias colonus 284
3 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Paranthias furcifer 284
2 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 38 cm 400L



Mirolabrichthys smithvanizi 284
7, 9 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 60L



Mirolabrichthys dispar 284
6-7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Pseudanthias squamipinnis 284
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10.5 cm 100L



Pseudanthias squamipinnis 284
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10.5 cm 100L



Acanthistius perdelotus 284
12 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Aethaloperca rogaa 284
7, 9-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Anyperodon leucogrammicus 284
7, 9-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Anyperodon leucogrammicus 284
7, 9-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L

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Sacura parva 284
7, 12 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 7 cm 80L

#123



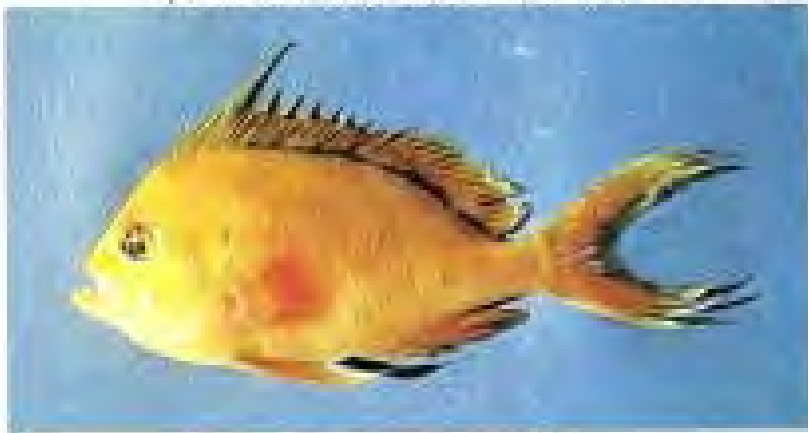
Serranocirrhifus latus 284
7 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L



Sacura margaritacea 284 ♂
5, 7 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 13 cm 150L



Sacura margaritacea 284 ♀
5, 7 ♀ ~ ♂ ♀ ♀ □ 24°C sg: 1.023 13 cm 150L



Odontanthias fuscipinnis 284
8 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 19 cm 200L



Odontanthias elizabethae 284
6 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 17 cm 150L



Holanthias martinicensis 284
2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 20 cm 200L



Holanthias borbonicus 284
7, 9, 12 ♀ ~ ♂ ♀ ♀ □ 23°C sg: 1.024 10 cm 100L



Gracilis albomarginata 284
7.9g 尾長 10cm 水温 26°C sg: 1.022 50cm 500L



Cephalopholis polleri 284
7.9g 尾長 11cm 水温 26°C sg: 1.022 95cm 400L



Cephalopholis argus 284
6-10g 尾長 10cm 水温 26°C sg: 1.022 50cm 500L



Cephalopholis boenack 284
6-9g 尾長 10cm 水温 26°C sg: 1.022 35cm 400L



Cephalopholis pachycentron 284
7.9g 尾長 10cm 水温 26°C sg: 1.022 50cm 300L



Cephalopholis leopardus 284
7.9g 尾長 10cm 水温 26°C sg: 1.022 20cm 300L



Cephalopholis aurantia 284
9g 尾長 10cm 水温 26°C sg: 1.022 60cm 600L



Cephalopholis nigripinnis 284
9g 尾長 10cm 水温 26°C sg: 1.022 25cm 300L



Cephalopholis sexmaculata 284
6-10 hr 4.0% in 26°C sg: 1.022 47 cm 500L



Epinephelides armatus 284
12 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 24°C sg: 1.022 30 cm 400L



Epinephelus caeruleopunctatus 284
7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 75 cm 600L



Epinephelus fatio 284
7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 38 cm 400L



Epinephelus fasciatus 284
7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 35 cm 400L



Epinephelus fuscoguttatus 284
5, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 90 cm 1000L



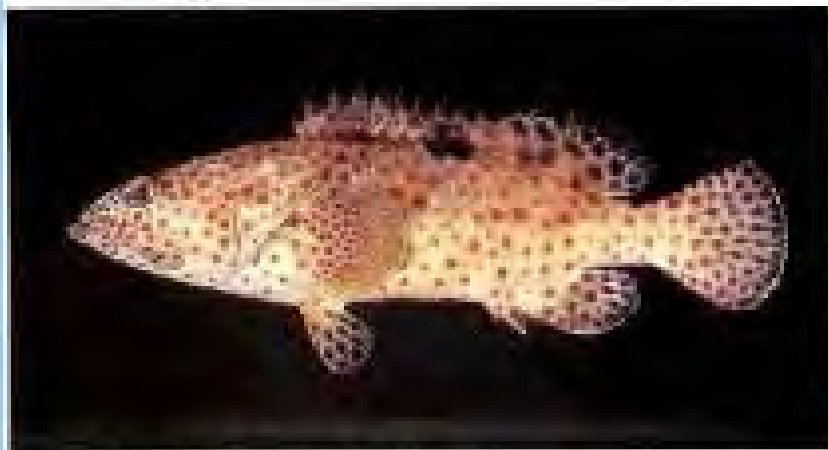
Epinephelus rivulatus 284
5, 7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 35 cm 400L



Epinephelus hexagonatus 284
5, 7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 25 cm 300L



Epinephelus rivulatus 284
5, 7, 9 ♀ 7.9 x 0.3 x 0.3 x 0.3 cm □ 26°C sg: 1.022 35 cm 400L



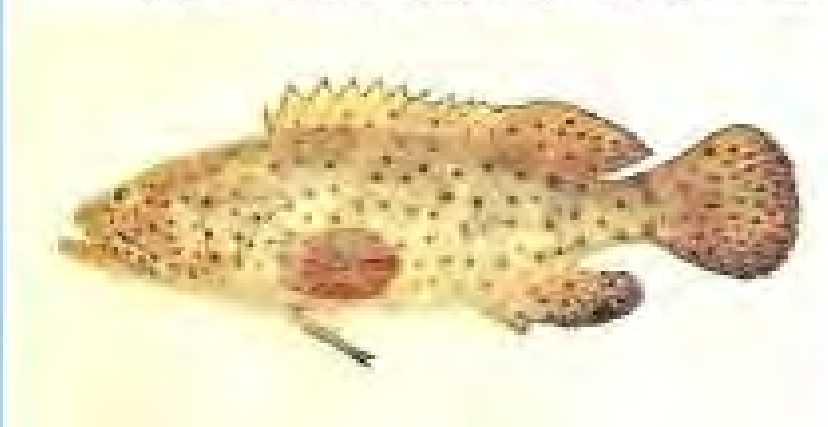
Epinephelus tauvina 284
7, 9-10 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 70 cm 800L

Epinephelus tauvina 284
7, 9-10 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 70 cm 800L



Epinephelus sp. 284
7 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 40 cm 400L

Epinephelus tukuru 284
7, 9 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 200 cm 2000L



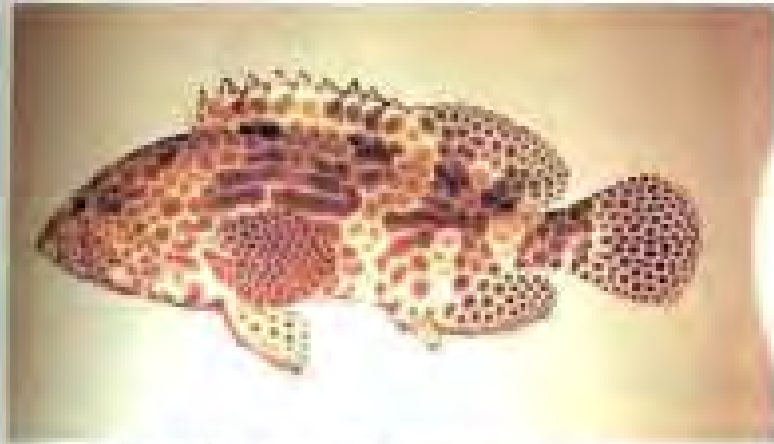
Epinephelus malabaricus 284
7, 9-10 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 150 cm 1500L

Epinephelus undulosus 284
7, 9 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 75 cm 800L



Epinephelus multifasciatus 284
8 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 100 cm 1000L

Epinephelus sociatus 284
6 ♀ ♀ ~ ~ ♀ ♀ 26°C sg: 1.022 22.5 cm 300L



Epinephelus merra 284
7.9g 尾長 4.1cm 水温 26°C sg: 1.022 45cm 500L



Epinephelus truncatus 284
5.7g 尾長 3.1cm 水温 26°C sg: 1.022 40cm 400L



Epinephelus maculatus 284
7.8g 尾長 4.0cm 水温 26°C sg: 1.022 60cm 600L



Epinephelus diacanthus 284
9.5g 尾長 4.5cm 水温 26°C sg: 1.022 55cm 600L



Epinephelus septemfasciatus 284
5.7g 尾長 3.1cm 水温 26°C sg: 1.022 100cm 1000L



Epinephelus microdon 284
5.7-10g 尾長 3.1-4.5cm 水温 26°C sg: 1.022 90cm 1000L



Epinephelus moarra 284
5.7g 尾長 3.1cm 水温 26°C sg: 1.022 100cm 1000L



Epinephelus megachir 284
8.9g 尾長 4.5cm 水温 26°C sg: 1.022 55cm 600L



Epinephelus labriformis 284
3% NH₄SCN 0.1% 26°C sg: 1.022 51 cm 500L



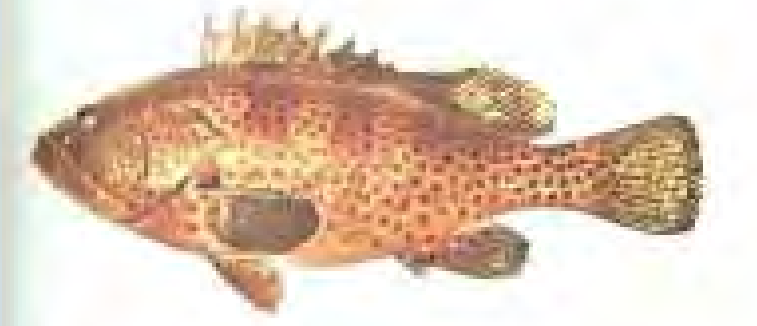
Epinephelus niveatus 284
1-3% NH₄SCN 0.1% 26°C sg: 1.022 90 cm 1000L



Epinephelus dermatolepis 284
3% NH₄SCN 0.1% 26°C sg: 1.022 110 cm 1200L



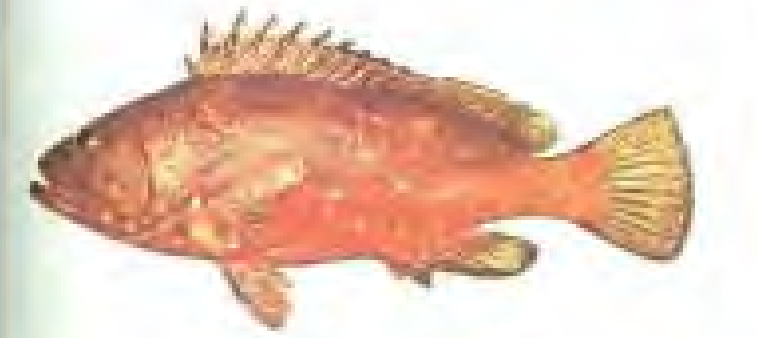
Epinephelus dermatolepis 284
3% NH₄SCN 0.1% 26°C sg: 1.022 110 cm 1200L



Epinephelus analogus 284
3% NH₄SCN 0.1% 26°C sg: 1.022 80 cm 800L



Epinephelus acanthiopus 284
3% NH₄SCN 0.1% 26°C sg: 1.022 71 cm 800L



Epinephelus labriformis 284
3% NH₄SCN 0.1% 26°C sg: 1.022 51 cm 500L



Epinephelus itajara 284
3% NH₄SCN 0.1% 26°C sg: 1.022 240 cm 2500L



Myxoperca bonaci 284
2匹 ♀ ♀ 0 次 産 卵 □ 24°C sg: 1.023 130 cm 1500L



Myxoperca priamura 284
3匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 80 cm 1000L



Myxoperca interstitialis 284 (juv.)
1匹 ♀ ♀ 0 次 産 卵 □ 24°C sg: 1.022 76 cm 800L



Myxoperca interstitialis 284
1-2匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 68 cm 800L



Myxoperca rosacea (rare golden form) 284
2匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 100 cm 1000L



Myxoperca rosacea 284
3匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 100 cm 1000L



Myxoperca rubra 284
2匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 68 cm 800L



Myxoperca venanosa 284
1-2匹 ♀ ♀ 0 次 産 卵 □ 26°C sg: 1.022 90 cm 1000L

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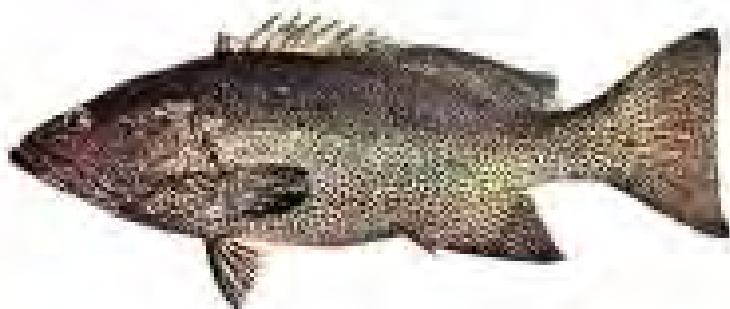


Mycteroperca tigris 284
1-2 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 100 cm 1000L

#137



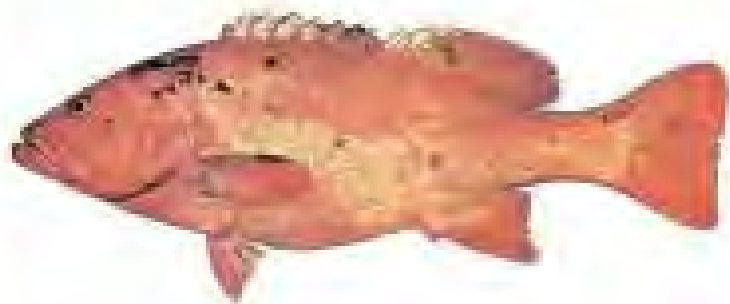
Mycteroperca tigris (juv.) 284
1-2 ♀ 尾 長 約 5 大 箱 □ 26°C sg: 1.022 100 cm 1000L



Mycteroperca rosacea 284
3 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 100 cm 1000L



Mycteroperca microlepis 284
1-2 ♀ 尾 長 約 5 大 箱 □ 24°C sg: 1.023 60 cm 500L



Mycteroperca rosacea (golden phase) 284
3 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 100 cm 1000L



Epinephelus lanceolatus 284
7, 9 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 270 cm 3000L



Cromileptes altivelis 284
7, 9 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 65 cm 800L



Cephalopholis pachycentron 284
7, 9 ♀ 尾 長 約 10 大 箱 □ 26°C sg: 1.022 25 cm 3000L

150



Liopropoma carmabi 284
2 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 5 cm 100L

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Liopropoma rubre 284
2 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 8 cm 150L



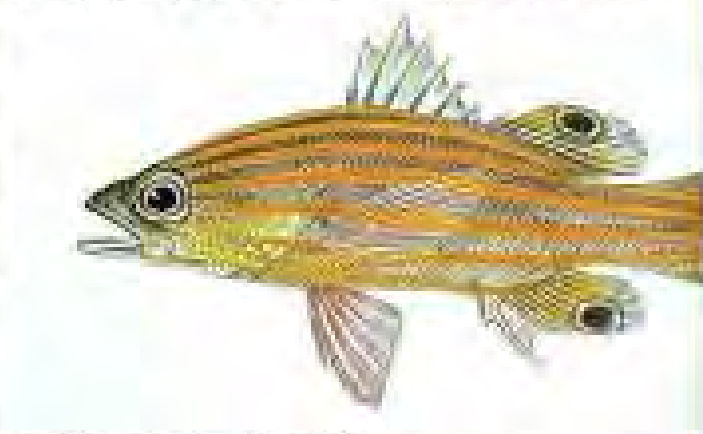
Liopropoma fasciatum 284
3 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Liopropoma eukrines 284
2 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 5 cm 100L



Liopropoma mowbrayi 284
2 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Liopropoma swalesi 284
7 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Liopropoma lineata 284
6-7 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 7 cm 100L



Liopropoma susumi 284
6-7 ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L



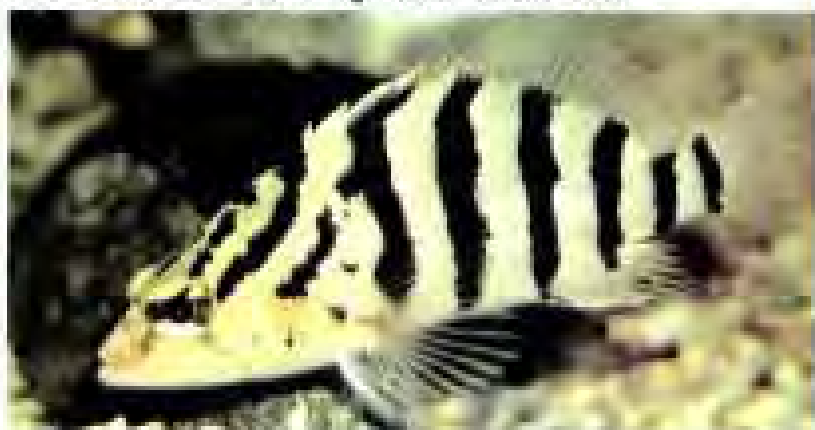
Liopropoma pallidum 284
6-7 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L



Liopropoma sp. 284
7 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L



Hypoplectrodes nigrorubrum 284
12 ~ ♀ ♂ ♀ ♀ □ 24°C sg: 1.023 9 cm 100L



Elterkeldia annulata 284
12 ~ ♀ ♂ ♀ ♀ □ 24°C sg: 1.023 20 cm 80L



Elterkeldia fonti 284
11-12 ~ ♀ ♂ ♀ ♀ □ 22°C sg: 1.024 38 cm 400L



Elterkeldia maccullochi 284
12 ~ ♀ ♂ ♀ ♀ □ 23°C sg: 1.024 20 cm 200L



Elterkeldia rubra 284
12 ~ ♀ ♂ ♀ ♀ □ 23°C sg: 1.024 9 cm 100L



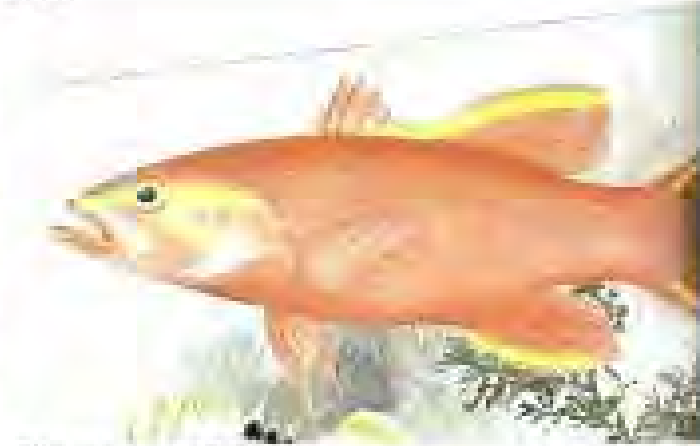
Elterkeldia wilsoni 284
12 ~ ♀ ♂ ♀ ♀ □ 24°C sg: 1.023 20 cm 200L

200



Rainfordia opercularis 285
12 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.022 12 cm 150L

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Pikea aurora 284
6 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Lozonichthys weileri 284
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 150L



Schultzeia beta 284
2 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 150L



Diplectrum formosum 284
1-2 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Diplectrum pacificum 284
3 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 150L



Chelodoperca hirundinacea 284
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Rabaulloichthys aipinnis 284
7-8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 100L



Hypoplectrus indigo 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 15 cm 200L



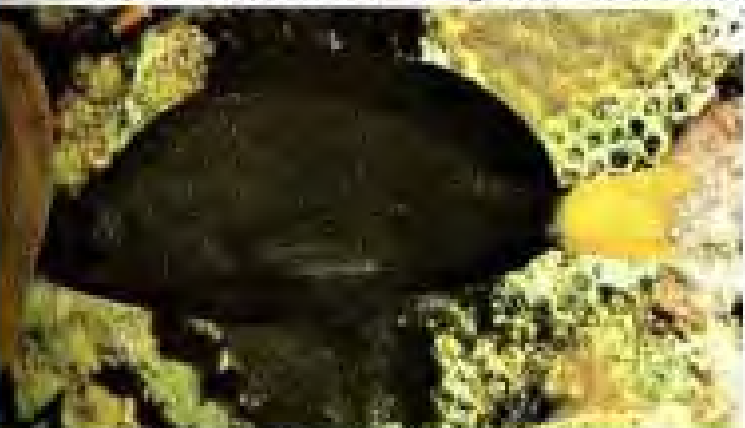
Hypoplectrus gummigutta 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 13 cm 150L



Hypoplectrus nigricans 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 15 cm 200L



Hypoplectrus unicolor 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 10 cm 100L



Hypoplectrus chlorurus 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 12.5 cm 150L



Hypoplectrus guttiferus 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 11.5 cm 100L



Hypoplectrus gemma 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 11 cm 100L



Hypoplectrus puella 284
 2匹 呼吸 0.5 水 26°C sg: 1.022 11.5 cm 100L



Acanthistius serratus 284
8, 12 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.023 45 cm 500L



Acanthistius cinctus 284
9, 11-12 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 50 cm 500L



Trachypoma macracantha 284
11 ~ ♀ ♂ ♀ ♂ 22°C sg: 1.023 22 cm 200L



Tristropis dermopterus 284
5 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 45 cm 500L



Paralabrax clathratus 284
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Paralabrax nebulifer 284
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Paralabrax auroguttatus 284
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Paralabrax maculatofasciatus 284
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 500L

204

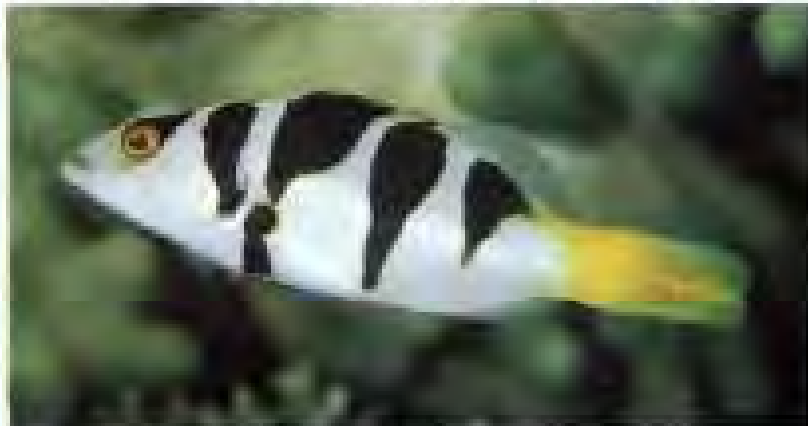


Varicola taeni 284
7-10 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 80 cm 800L

#247



Varicola taeni 284
7-10 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 80 cm 800L



Plectropomus laevis 284
5, 7, 9 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 100 cm 1000L



Plectropomus laevis 284
5, 7, 9 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 100 cm 1000L



Plectropomus leopardus 284
7-9 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 66 cm 800L



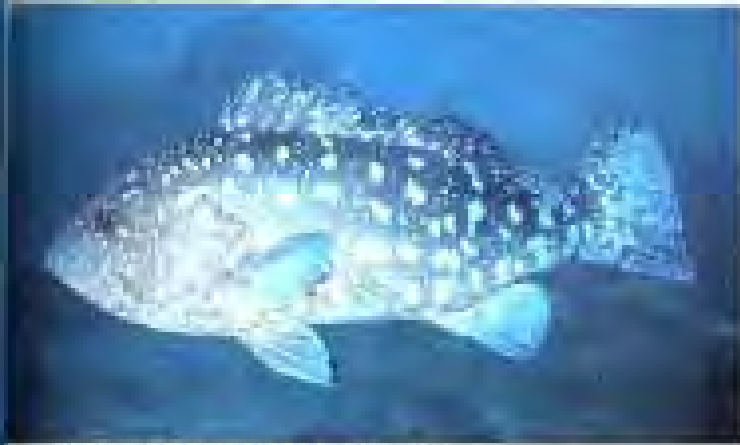
Pogonoperca punctata 285
6-7, 9 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 35 cm 400L



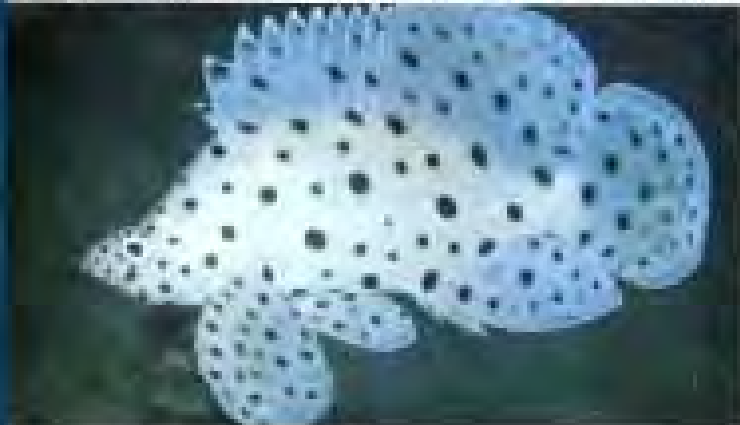
Aulicocephalus femmincki 285
5, 7, 9 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 25 cm 250L



Grammistes sexlineatus 285
7, 9-10 ㎖ ㎖ ㎖ ㎖ ㎖ ㎖ 26°C sg: 1.022 27 cm 400L



Epinephelus multifasciatus 284
 8.9g 尾長 10.0cm 水温 25°C sg: 1.022 100cm 1200L



Grammistes altivelis 284
 7.8g 尾長 8.0cm 水温 26°C sg: 1.022 70cm 800L



Eleutherocheilichthys wilsoni 284
 12.9g 尾長 10.0cm 水温 33°C sg: 1.024 20cm 200L



Clinus dentex 284
 12.9g 尾長 10.0cm 水温 24°C sg: 1.023 70cm 800L



Epinephelus summana 284
 7.8g 尾長 10.0cm 水温 25°C sg: 1.022 48cm 500L



Diaoperca petersi 284
 9.9g 尾長 10.0cm 水温 25°C sg: 1.022 62cm 800L



Luzonichthys microlepis 284
 9.9g 尾長 10.0cm 水温 26°C sg: 1.022 6cm 60L



Belontioperca chabanaudi 285
 7.9g 尾長 10.0cm 水温 26°C sg: 1.022 14.5cm 150L



Diploprion bifasciatus 285
5, 7, 9 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 25 cm 300L



Diploprion bifasciatus (juv.) 285
5, 7, 9 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 25 cm 300L



Diploprion bifasciatus (var.) 285
5, 7, 9 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 25 cm 300L



Diploprion drachi 285
9-10 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 14 cm 150L



Grammistes sexfasciatus 285
7-10 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 27 cm 300L



Grammistops ocellatus 285
7, 9 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 10 cm 100L



Pseudogramma polyacantha 285
6-9 ♀ ~ ~ ~ ♂ 大 西 □ 26°C sg: 1.022 7 cm 80L



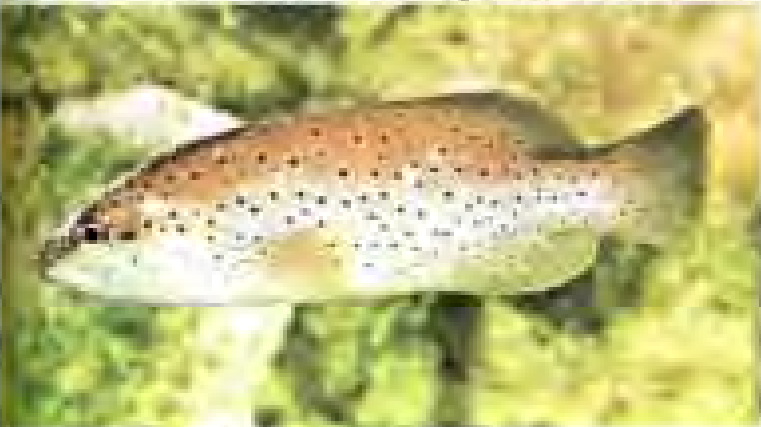
Pseudogramma gregoryi 285
1-2 ♀ ~ ~ ~ ♂ 大 西 □ 24°C sg: 1.022 7.5 cm 80L



Sutrovia lineata 285
 5 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 12.5 cm 150L



Rypticus bistrispinus 285
 2 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 15 cm 150L



Rypticus subbifrenatus 285
 2, 13 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 18 cm 200L



Rypticus saponaceus 285
 1-2, 13 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 33 cm 400L



Rypticus bicolor (?) 285
 3 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 33 cm 400L



Labridinus dyolophthalmus 285¹
 7 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 14 cm 150L



Pseudopleurops rosae 285
 12 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 24°C sg: 1.023 5 cm 50L



Pseudochromis luteus 285
 7 ♀ ~ ~ ~ ♀ ~ ~ ~ □ 26°C sg: 1.022 5 cm 50L

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Pseudochromis papuensis 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 5 cm 50L

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Pseudochromis cyanotaenia 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 5 cm 50L



Pseudochromis wilsoni 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 6 cm 60L



Pseudochromis xanthochir 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 50L



Pseudochromis marshallensis 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 50L



Pseudochromis marshallensis 286
7-8, 12 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 50L



Pseudochromis veliferus 286
8 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 50L



Pseudochromis veliferus 286
8 ♀ ~♂ ◯ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 50L



Pseudochromis bitaeniata 286
7-8, 12 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 6 cm 80L



Pseudochromis longipinnis 286
8 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 9.6 cm 100L



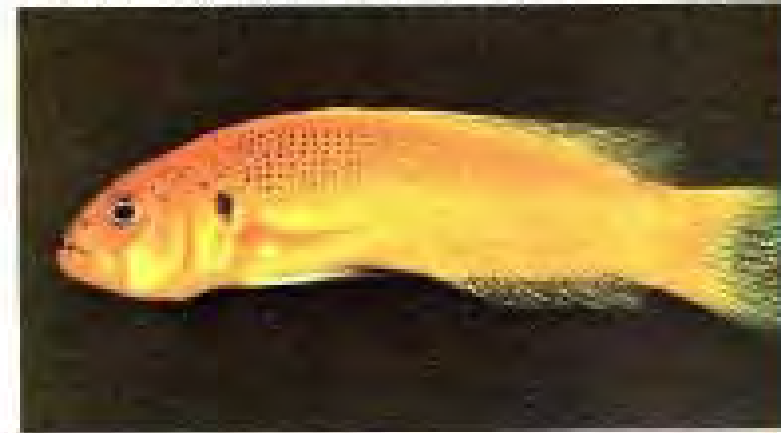
Pseudochromis novaehollandiae 286
7-8, 12 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 200L



Pseudochromis maculifasci 286
7-8, 12 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Pseudochromis aureus 286
7-8 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Pseudochromis moorei 286
7 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Pseudochromis aureus 286
7-8 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Pseudochromis fuscus 286
9 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Pseudochromis diffectus 286
9 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.022 7 cm 80L



Pseudochromis diffectus 286
9 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.022 7 cm 80L



Pseudochromis paranox 286
7 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.022 3.5 cm 50L



Pseudochromis springeri 286
10 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.028 5.5 cm 80L



Pseudochromis melanotaenia 286
6, 7 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.022 6 cm 80L



Pseudochromis pesi 286
10 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.028 8 cm 80L



Pseudochromis sankeyi 286
9-10 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.022 7.4 cm 80L



Pseudochromis dixurva 286
10 ♀ ~♂ ◯ ♣ ♣ ◻ 26°C sg: 1.028 9 cm 100L

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Pseudochromis dufouii 286
9 ♀ ~♂ ◯ ♣ ☞ ☐ 26°C sg: 1.022 8.8 cm 100L

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Pseudochromis fratervertex 286
9-10 ♀ ~♂ ◯ ♣ ☞ ☐ 26°C sg: 1.022 7 cm 80L



Pseudochromis fridmani 286
10 ♀ ~♂ ◯ ♣ ☞ ☐ 26°C sg: 1.028 6 cm 60L



Pseudochromis melas 286
9 ♀ ~♂ ◯ ♣ ☞ ☐ 26°C sg: 1.022 9 cm 100L



Labracinus lineatus 286
7-8, 12 ♀ ~♂ ◯ ♣ ☞ ☐ 25°C sg: 1.022 14 cm 150L



Glaucosoma hebraicum 290
12 ♀ ~♂ ◯ ♣ ☞ ☐ 24°C sg: 1.023 60 cm 600L



Belonepterygion fasciolum 289
12 ♀ ~♂ ◯ ♣ ☞ ☐ 23°C sg: 1.024 5 cm 50L



Belonepterygion fasciolum(?) 289
12 ♀ ~♂ ◯ ♣ ☞ ☐ 23°C sg: 1.024 5 cm 50L



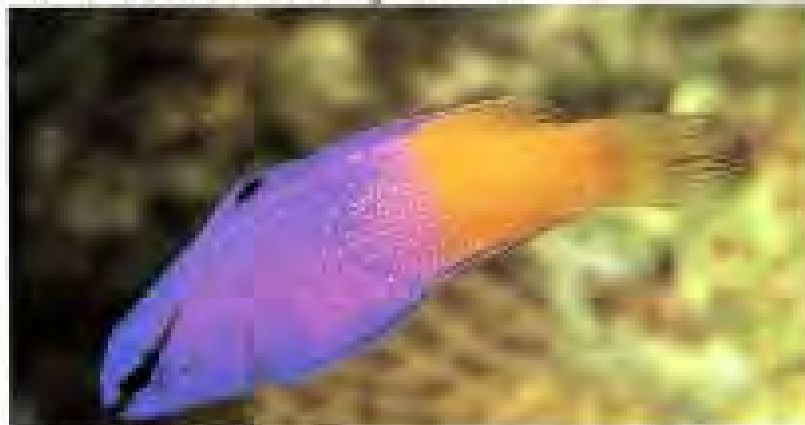
Lipogramma regia 287
2 ♀ ♀ ~ 1 ♂ 1 ♀ 1 ♂ 26°C sg: 1.022 2.5 cm 50L



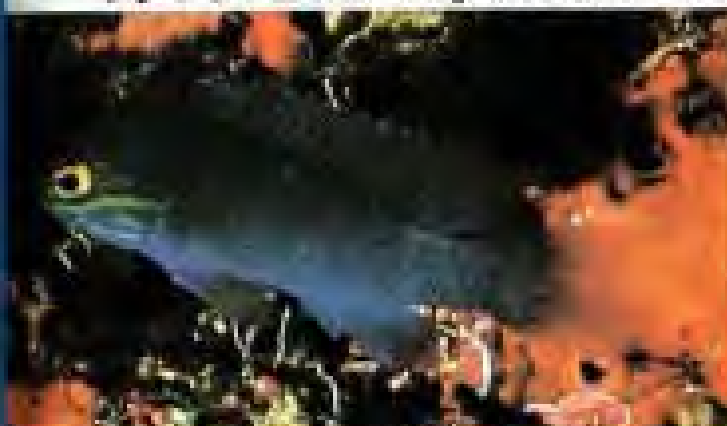
Lipogramma atayi 287
2 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 4 cm 50L



Lipogramma trilineata 287
2 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 3.5 cm 50L



Gramma loreto 287
2 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 7.5 cm 80L



Gramma linki 287
1-2 ♀ ♀ ~ 1 ♂ 1 ♀ 24°C sg: 1.023 6.5 cm 60L



Gramma melacara 287
2 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 10 cm 100L



Assessor flavissimus 288
8 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 8 cm 80L



Assessor macneilli 288
8 ♀ ♀ ~ 1 ♂ 1 ♀ 26°C sg: 1.022 8 cm 80L



Paraplesiops meleagris 288
 12 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 22°C sg: 1.024 25 cm 300L



Celoplesiops alivella 288
 1-10 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 28°C sg: 1.022 16 cm 200L



Trachinops brewni 288
 12 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 24°C sg: 1.023 8 cm 60L



Paraplesiops meleagris 288
 12 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 22°C sg: 1.024 25 cm 300L



Terapon jaybua 291
7, 9 ~ ♀ ~ ♂ ~ ♀ ~ ♀ ≡ 26°C sg: 1.022 23 cm 400L

Terapon theraps 291
6-10 ~ ♀ ~ ♂ ~ ♀ ~ ♀ ≡ 26°C sg: 1.022 30 cm 300L





Terapon jarbuq 291
7, 9 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 23 cm 400L



Kuhlia mugil 293
3, 6-9 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 20 cm 200L



Pelates sexlineatus 291
7-10 9-10 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 25 cm 300L



Pelates quadrilineatus 291
7, 9 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 24 cm 300L



Mesopristes argenteus 291
7 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.016 25 cm 300L



Amniataba caudavittatus 291
12 ~ 9 ~ 4 ~ 4 ~ 4 ~ 23°C sg: 1.023 9 cm 100L



Terapon thersites 291
7-10 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 25 cm 300L



Rhynopelates oxyrinchus 291
7, 9 ~ 9 ~ 4 ~ 4 ~ 4 ~ 26°C sg: 1.022 30 cm 300L



Kuhlia marginata 293
6.8 ~ 9.0 ㎝ 大 飼 26°C sg: 1.022 21.5 cm 200L



Kuhlia rupestris 293
7.8 ~ 9.0 ㎝ 大 飼 26°C sg: 1.022 40.5 cm 400L



Kuhlia mugil 293
3.8 ~ 4.4 ㎝ 大 飼 26°C sg: 1.022 20 cm 200L



Kuhlia sandvicensis 293
6 ~ 9 ㎝ 大 飼 26°C sg: 1.022 30 cm 300L



Pristigenys multifasciata 296
5.7 ~ 9.0 ㎝ 大 飼 26°C sg: 1.022 27 cm 300L



Pristigenys alta 296
1.2 ~ 9.0 ㎝ 大 飼 25°C sg: 1.022 30 cm 300L



Pristigenys serrula 296
3 ~ 9 ㎝ 大 飼 26°C sg: 1.022 15 cm 200L



Pristigenys nipponia 296
7.9 ~ 9.0 ㎝ 大 飼 26°C sg: 1.022 26 cm 300L



Priacanthus hamrur 284
5-10 ♀ ~ ♀ ~ ♂ ♀ 26°C sg: 1.022 45 cm 500L



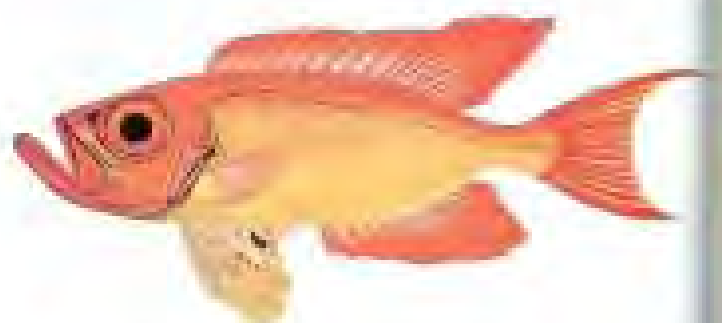
Priacanthus macrocanthus 295
7-8 ♀ ~ ♀ ~ ♂ ♀ 26°C sg: 1.022 23 cm 300L



Priacanthus arenatus 298
2, 13 ♀ ~ ♀ ~ ♂ ♀ 26°C sg: 1.022 40 cm 400L



Heteropriacanthus orientalis 296
Circumtrop. ♀ ~ ♀ ~ ♂ ♀ 26°C 30.5 cm 300L



Priacanthus layanus 296
7-8 ♀ ~ ♀ ~ ♂ ♀ 26°C sg: 1.022 27.5 cm 300L



Apogon cyanosoma 297
7-8 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



Rhabdamia gracilis 297
7, 9 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 60L



Rhabdamia cypselurus 297
7-8 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Gymnapogon urosphilotus 297
5, 7 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 50L



Rhabdamia sp. 297
12 ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.022 4 cm 50L



Apogon angustatus 297
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Apogon cyanosoma 297
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



Apogon robustus 297
9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Apogon robustus 297
9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Apogon caoki 297
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Apogon victoriae 297
7-12 ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Apogon fraenatus 297
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Apogon niger 297
9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L

224



Apogon nigrofasciatus 297
7-8 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 10 cm 100L

#163



Apogon compressus 297
7-8 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 11.5 cm 100L



Apogon novemfasciatus 297
7-10 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 8 cm 100L



Apogon doederleini 297
7 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 7 cm 80L



Apogon fasciatus 297
7-8 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 11.5 cm 100L



Apogon cookii 297
7-8 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 10 cm 100L



Apogon endekataenia 297
7, 8 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022 10 cm 100L

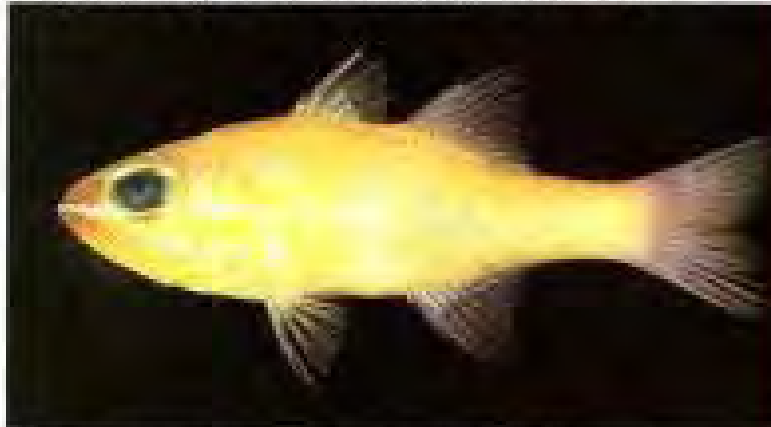


Apogon margaritiphora 297
6-7 ♀ ~ 1 ♂ 大 画 □ 26°C sg: 1.022



Apogon nortzeffii 297
7.8 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 11.5 cm 100L

Apogon chrysoaenia 297
7 3/4 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 150L



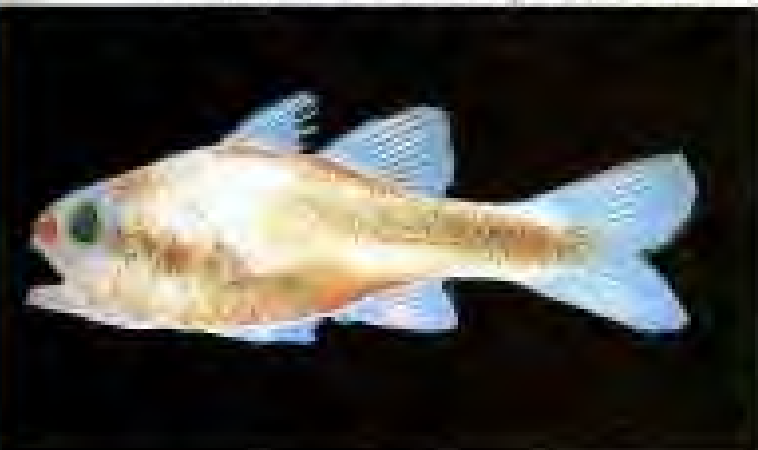
Apogon sp. 297
7 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L

Apogon novaeaeuinae (? = cyanosoma) 297
8 3/4 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Apogon sp. 297
7 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L

Apogon sp. 297
7-8 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Apogon semitorquatus 297
7.9 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L

Apogon sp. 297
6 1/2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L

226



Apogon exostigma 297
6-7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L

#167



Apogon kallopterus 297
7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Apogon kallopterus 297
7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Apogon kallopterus 297
7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Apogon notatus 297
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Apogon gilberti 297
5, 7, 9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 4 cm 50L



Apogon semilineatus 297
5, 7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 80L



Apogon ishigakiensis 297
5, 7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 60L



Apogon sangliensis 297
7-8 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 9 cm 100L



Apogon sp. 297
7-8 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 7 cm 100L



Apogon ceramensis 297
7-8 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Apogon thermalis 297
7, 9 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L



Apogon nyalasoma 297
7 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 17 cm 200L



Apogon amboinensis 297
7-8 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L

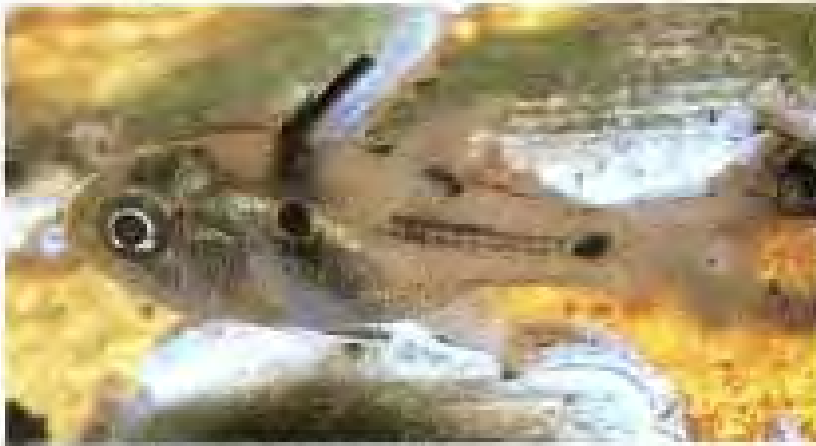


Apogon hiensis 297
7-10 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Apogon saalei 297
6-8 ½ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L

228



Apogon taeniatum 297
7-10 ♀ ~♂ ◯ ♥ ♣ ◻ 26°C sg: 1.022 10 cm 100L

#169



Apogon immaculatum 297
7 ♀ ~♂ ◯ ♥ ♣ ◻ 26°C sg: 1.022 15 cm 150L



Apogon niger 297
5, 7 ♀ ~♂ ◯ ♥ ♣ ◻ 24°C sg: 1.022 15 cm 150L



Apogon leptacanthus 297
7, 9 ♀ ~♂ ◯ ♥ ♣ ◻ 26°C sg: 1.022 8 cm 80L



Apogon lineatus 297
5, 7 ♀ ~♂ ◯ ♥ ♣ ◻ 24°C sg: 1.023 13 cm 150L



Apogon dispar 297
7 ♀ ~♂ ◯ ♥ ♣ ◻ 26°C sg: 1.022 4.5 cm



Apogon darnleyensis 297
7, 12 ♀ ~♂ ◯ ♥ ♣ ◻ 25°C sg: 1.022 5 cm 50L



Apogon malin 297
7 ♀ ~♂ ◯ ♥ ♣ ◻ 26°C sg: 1.022 12 cm 80L



Apogon taeniapterus 297
5 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon menesemus 297
6 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon savayensis 297
8-10 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon guamensis 297
7-10 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon quadrifasciatus 297
7-10 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon maculifera 297
6 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 15 cm 150L



Apogon ruppelli 297
12 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 10 cm 100L



Apogon norfolcensis 297
11-12 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 15 cm 150L

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Apogon pseudomaculatus 297
2 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L

#171



Apogon maculatus 297
2 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L



Apogon quadrisquamatus 297
2 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L



Apogon aurolineatus 297
2 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Apogon leptocaulus 297
7, 9 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 6 cm 60L



Apogon retrosella 297
3 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Apogon pacifici 297
3 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L



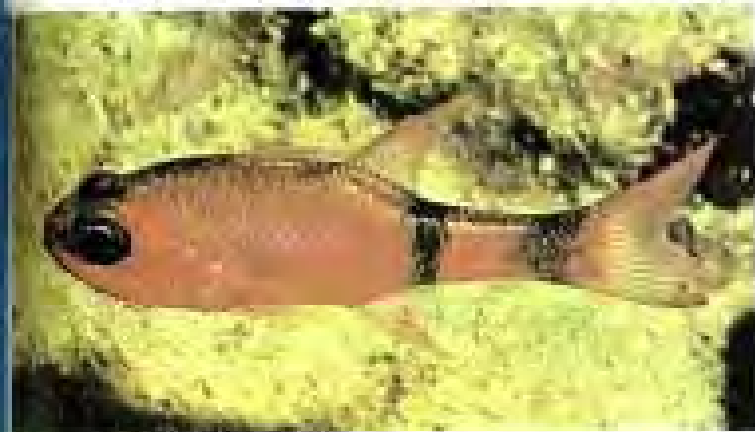
Apogon dawi 297
3 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 7.5 cm 80L



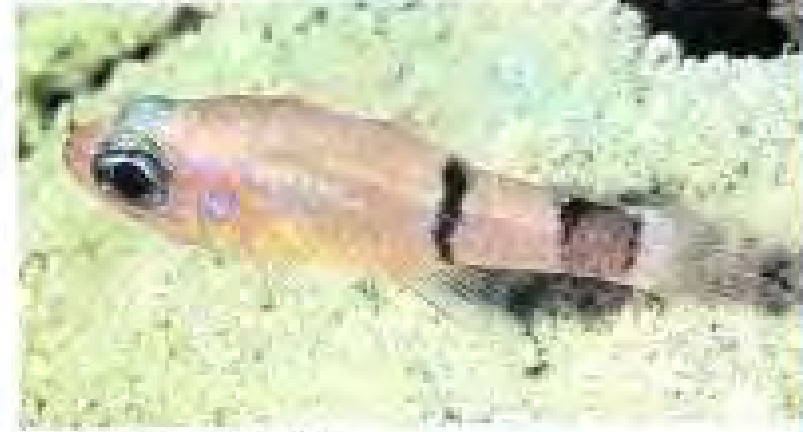
Apogon binotatus 297
2 ♀ ~♂ ◉ ♀ ◉ 24°C sg: 1.022 13 cm 150L



Apogon planifrons 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 11 cm 100L



Apogon robinii 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 13 cm 150L



Apogon townsendi 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 7.5 cm 80L



Apogon pinnatifidus 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 7 cm 80L



Apogon phenax 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 8 cm 80L



Apogon antisepia 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 6 cm 60L



Apogon lachnisi 297
2 ♀ ~♂ ◉ ♀ ◉ 26°C sg: 1.022 11 cm 100L

202



Apogon crassiceps 297
6-7 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 10 cm 100L

#173



Apogon coelestis 297
6-10 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 5 cm 50L



Apogon sp. 297
7 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 8 cm 80L



Apogon evermanni 297
6 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 10 cm 100L



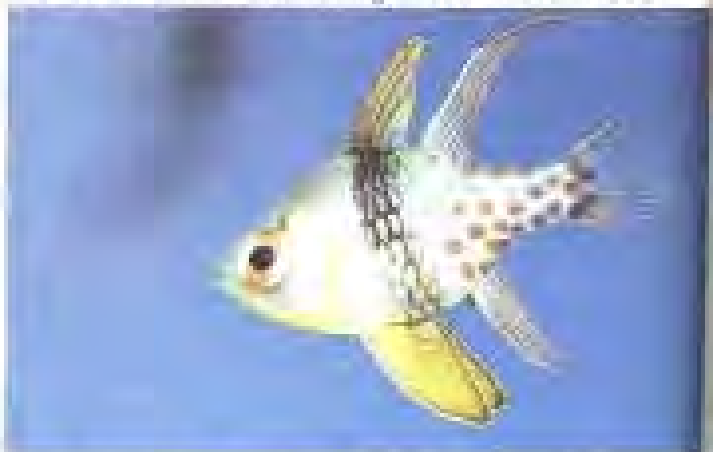
Apogon nigripes 297
9-10 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 7 cm 80L



Apogon sp. 297
7 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 7.5 cm 80L



Apogon ellioti 297
7 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 12 cm 150L



Schaeromia nematoptera 297
7, 9 ♀ ~♂ ◉ ♀ ♂ ◻ 26°C sg: 1.022 10 cm 100L



Apogon apogonides 297
7, 9 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 10 cm 100L



Apogon aureus 297
7, 9-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 12 cm 150L



Apogon kallopterus 297
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 15 cm 150L



Apogon taeniatulus 297
8-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 10 cm 100L



Apogon sp. 297
7 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 6 cm 60L



Cheilodipterus quinquelineatus 297
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 12 cm 150L



Cheilodipterus artus 297
9 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 12 cm 150L



Cheilodipterus lineatus 297
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1,022 22 cm 200L



Cheilodipterus macrodon 297
6-10 ♀ ~ ~ ♂ ♀ ~ ~ 24°C sg: 1.022 24 cm 200L



Cheilodipterus lachneri 297
9-10 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 12 cm 150L



Cheilodipterus sp. 297
7 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 8 cm 80L



Cheilodipterus sp. 297
6 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 12 cm 150L



Cheilodipterus zonatus 297
7,8 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 9 cm 100L



Apogon affinis 297
2 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 10 cm 100L



Foa fo 297
6-8 ♀ ~ ~ ♂ ♀ ~ ~ 24°C sg: 1.023 3 cm 50L



Fowleria variegata 297
6-10 ♀ ~ ~ ♂ ♀ ~ ~ 26°C sg: 1.022 5 cm 50L



Archamia leai 297
7-8 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 8 cm 80L



Archamia zosterophora 297
7, 9 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 6 cm 60L



Archamia melasma 297
7-8 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 7 cm 80L



Archamia fucata 297
7, 9-10 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 8 cm 80L



Archamia lineolata 297
7-10 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 9 cm 100L



Archamia biguttata 297
6-7 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 7 cm 50L



Fowleria cf. variegata 297
6-10 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 5 cm 50L



Fowleria aurita 297
7, 9-10 ♀ ~ ♂ ♀ ♀ □ 25°C sg: 1.022 9 cm 100L

236



Astrapogon stellatus 297
2 ♀ ~♂ ◻ ♀ ◻ 25°C sg: 1.022 6.5 cm 200L

#177



Astrapogon punctulatus 297
2 ♀ ~♂ ◻ ♀ ◻ 25°C sg: 1.022 6.5 cm 80L



Phaeoptyx xerxes 297
2 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 7.5 cm 75L



Phaeoptyx pigmentaria 297
2 ♀ ~♂ ◻ ♀ ◻ 26°C sg: 1.022 6.5 cm 70L



Pterapogon kauderni 297
7 ♀ ~♂ ◻ ♀ ◻ 25°C sg: 1.022 8 cm 80L



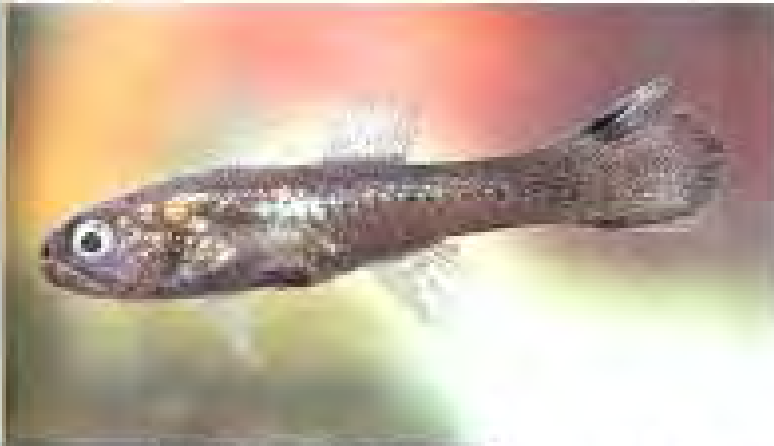
Phaeoptyx conklini 297
2 ♀ ~♂ ◻ ♀ ◻ 25°C sg: 1.022 6.5 cm 80L



Vincentia sp. 297
7, 12 ♀ ~♂ ◻ ♀ ◻ 24°C sg: 1.022 4.5 cm 50L



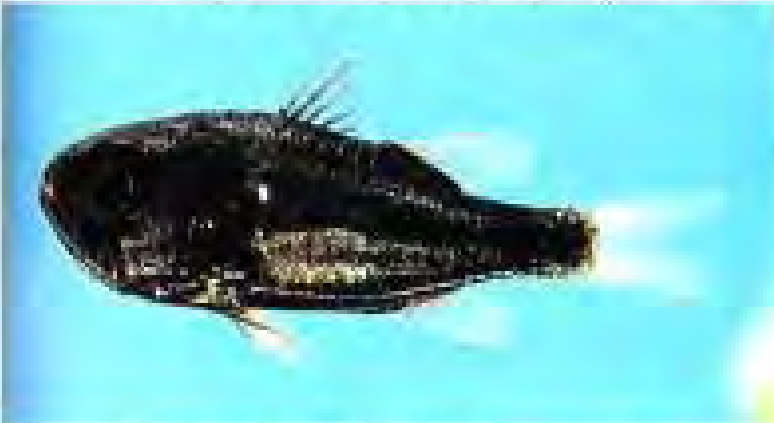
Vincentia punctatus 297
7, 12 ♀ ~♂ ◻ ♀ ◻ 25°C sg: 1.022 10 cm 100L



Pseudamia gelatinosa 297
7, 8 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



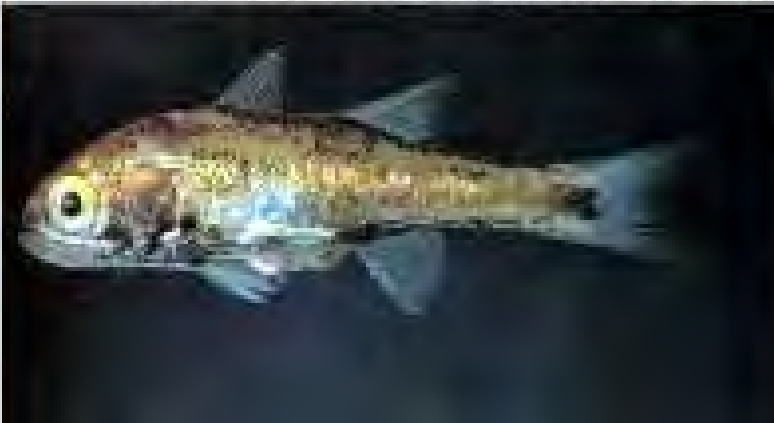
Pseudamia amblyuroptera 297
7 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



Siphamia versicolor 297
6-10 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Siphamia fuscolineata 297
7-8 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Siphamia cephalotes 297
7, 12 ♀ ~ ♂ ♀ ♂ 25°C sg: 1.022 4 cm 50L



Siphamia sp. 297
7 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Apogonichthys ocellatus 297
7, 8 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 60L



Siphamia mossambica (?) 297
9 ♀ ~ ♂ ♀ ♂ 28°C sg: 1.022 4 cm 60L



Hoplosternus starckii 300

6 hr 0 1 2 3 4 5 26°C sg: 1.022 11 cm 100L

Hoplosternus franciscanus 300

7-9 hr 0 1 2 3 4 5 26°C sg: 1.022 21 cm 200L





Sillago sihama 299
6-9ヶ月 飼育 25°C sg: 1.022 30 cm 300L



Sillago macrolepis 299
7ヶ月 飼育 25°C sg: 1.022 20 cm 200L



Caulolatilus princeps 300
3-4ヶ月 飼育 25°C sg: 1.022 45 cm 500L



Sillago maculata 299
8ヶ月 飼育 25°C sg: 1.022 30 cm 300L



Branchiostegus sp. 300
7ヶ月 飼育 26°C sg: 1.022 40 cm 400L



Lopholatilus chamaeleonticeps 300
1-2ヶ月 飼育 23°C sg: 1.024 42 cm 400L



Branchiostegus aribus 300
5, 7ヶ月 飼育 24°C sg: 1.023 40 cm 400L



Branchiostegus japonicus 300
5, 7ヶ月 飼育 26°C sg: 1.022 45 cm 500L

240



Hoplofistius curvicaudus 300
6 ~ 1 ♀ 25 25 26°C sg: 1.022 9 cm 100L

250



Hoplofistius marcosi 300
7 ~ 1 ♀ 25 25 26°C sg: 1.022 20 cm 200L



Hoplofistius starcki 300
6 ~ 1 ♀ 25 25 26°C sg: 1.022 11 cm 100L



Hoplofistius starcki 300
6 ~ 1 ♀ 25 25 26°C sg: 1.022 11 cm 100L



Hoplofistius fourmanoiri 300
7 ~ 1 ♀ 25 25 26°C sg: 1.022 20 cm 200L



Hoplofistius purpurus 300
7 ~ 1 ♀ 25 25 26°C sg: 1.022 15 cm 200L



Hoplofistius chilupatyi 300
7 ~ 1 ♀ 25 25 26°C sg: 1.022 15 cm 200L



Hoplofistius chilupatyi 300
7 ~ 1 ♀ 25 25 26°C sg: 1.022 15 cm 200L



Malacanthus latovittatus 345
1, 7, 9 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Malacanthus latovittatus 300
5, 7, 9 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Malacanthus plumieri 300
1, 2, 13 ♀ ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Malacanthus brevirostris 300
6-10 ~ ♀ ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Labracoglossa argenteiventris 301
5 ~ ♀ ♂ ♀ ♂ ♀ ♂ 23°C sg: 1.024 25 cm 300L



Malacanthus brevirostris 300
6-10 ~ ♀ ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Lactarius lactarius 302
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.023 20 cm 300L



Pomatomus saltatrix 303
Worldwide ~ ♀ ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 90 cm 1000L



Aleotis indicus 306
5, 7 1/2 x 4 1/2 x 2 1/2 26°C sg: 1.022 50 cm 500L



Pseudocaranx dentex 308
5, 7 ~ 10 ~ 12 ~ 15 ~ 25°C sg: 1.022-95 cm 1000L



Scombrops gibberti 303
5 ~ ♀ ~ ♂ ♀ ♀ 23°C sg: 1.024 100 cm 1000L



Scombrops boops 303
5 ~ ♀ ~ ♂ ♀ ♀ 24°C sg: 1.023 110 cm 1200L



Rachycentron canadum 304
Circumtrop. ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 180 cm 2000L



Rachycentron canadum 304
Circumtrop. ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 180 cm 2000L



Remorina albescens 305
1-15 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Echenis naucrates 305
Worldwide ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



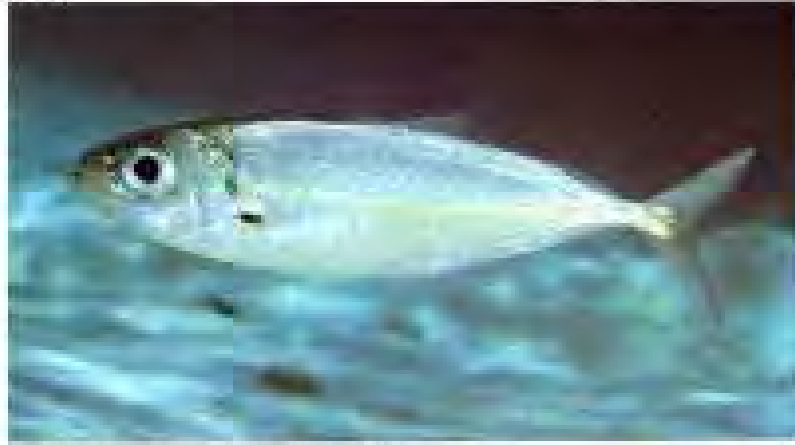
Echenis naucratoides 305
Circumtrop. ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Echenis sp. 305
Worldwide ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Salar crumenophthalmus 306
Circumtrop. ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Salar crumenophthalmus 306
Circumtrop. ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Decapterus punctatus 306
1, 2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Trachurus japonicus 306
5-7 ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.023 50 cm 500L



Decapterus muroadsi 306
6-7 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 95 cm 400L



Decapterus labri 306
Circumtrop. ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Elagatis bipinnulata (juv.) 306
Circumtrop. ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 100 cm 1000L



Elagatis bipinnulata 306
Circumtrop. ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 100 cm 1000L

246

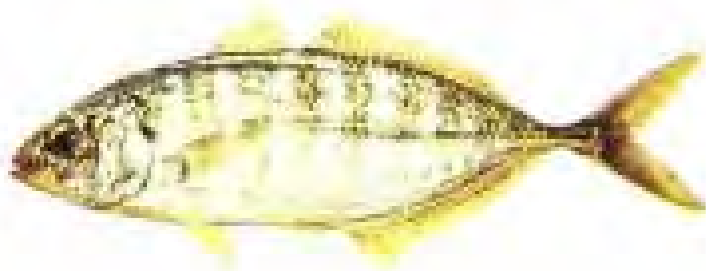


Aulate mola 306
5, 7, 9 ~ ♀ ♂ 26°C sg: 1,022 30 cm 300L

#184



Gnathodon speciosus 306
5-10 ~ ♀ ♂ 26°C sg: 1,022 90 cm 1200L



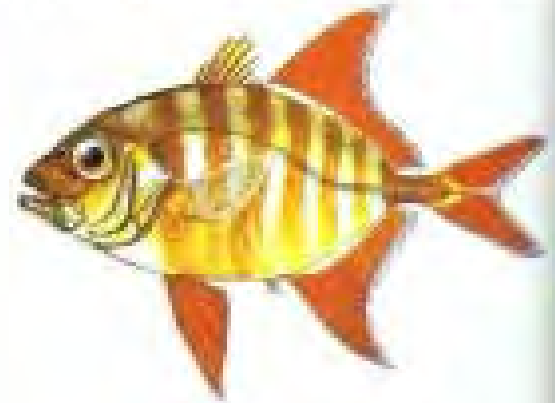
Carangoides vinctus 306
3 ~ ♀ ♂ 26°C sg: 1,022 30 cm 300L



Carangoides orthogrammus 306
5-10 ~ ♀ ♂ 26°C sg: 1,022 40 cm 400L



Carangoides equula 306
5-7 ~ ♀ ♂ 26°C sg: 1,022 40 cm 400L



Carangoides dinema (juv.) 306
7 ~ ♀ ♂ 26°C sg: 1,022



Carangoides sp. 306
8 ~ ♀ ♂ 26°C sg: 1,022 65 cm 600L



Ursipis helvola 306
5, 7 ~ ♀ ♂ 26°C sg: 1,022 75 cm 600L



Carangoides chrysophrys 306



Carangoides lerdau 306



Carangoides armatus 306



Carangoides malabaricus 306



Caranx ignobilis 306



Caranx lugubris 306



Carangoides fulvoguttatus 306



Caranx sexfasciatus 306



Caranx melampygus 306

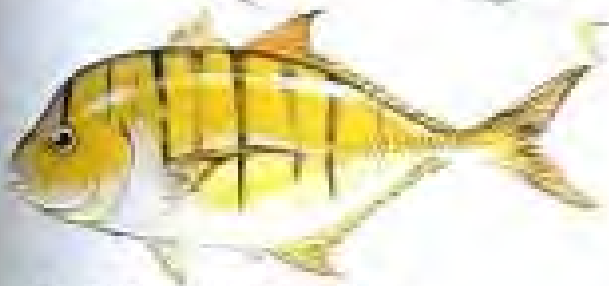


Decapterus russelli 306



Alectis indica 306

Alectis indica 306



Gnethodon speciosus 306



Elegatis bipinnulata 306

248



Caranx melampygus 306
3, 6-10 ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 800L

#186



Caranx melampygus 306
3, 6-10 ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 800L



Caranx bucculentus 306
7 ♀ ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Caranx lugubris 306
Circumtrop. ♀ ♀ ♂ ♀ 26°C sg: 1.022 90 cm 1000L



Carangoides sp. (*?armatus*) (juv.) 306
7-8 ♀ ♂ ♀ ♀ 26°C sg: 1.022 55 cm 300L



Caranx crysos 306
1-2, 13 ♀ ♂ ♀ ♀ 25°C sg: 1.023 58 cm 600L



Carangoides ruber 306
1-2 ♀ ♂ ♀ ♀ 26°C sg: 1.022 28 cm 300L



Carangoides ferdau 306
6-10 ♀ ♀ ♂ ♀ 26°C sg: 1.022 60 cm 800L



Caranx latus 306
1-2 ♀ ♂ 大 箱 25°C sg: 1.022 75 cm 800L



Caranx sexfasciatus 306
3, 6-10 ♀ ♂ 大 箱 26°C sg: 1.022 65 cm 1000L



Caranx ignobilis 306
7-10 ♀ ♂ 大 箱 26°C sg: 1.022 100 cm 1000L



Caranx hippos and *C. caballus* 306
Circumtrop. ♀ ♂ 大 箱 26°C sg: 1.022 90 cm 1000L



Carangoides coeruleopinnatus 306
7-9 ♀ ♂ 大 箱 26°C sg: 1.022 40 cm 400L



Carangoides fulvoguttatus 306
7-10 ♀ ♂ 大 箱 26°C sg: 1.022 100 cm 1000L



Carangoides bartholomei 306
1-2 ♀ ♂ 大 箱 26°C sg: 1.022 100 cm 1000L



Megalaspis cordyla 306



Scomberoides commersonianus 306



Selaer crumenophthalmus 306



Scomberoides tol 306



Scomberoides lysan 306



Selaeroides leptolepis 306



Seriola dumerilii 306



Seriola rivoliana 306



Seriolina nigrofasciata 306



Trachinotus baillonii 306



Trachurus indicus 306



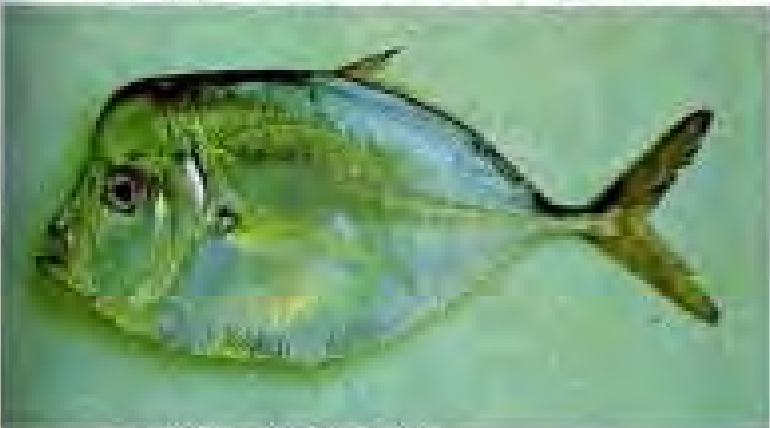
Uraspis halvola 306



Alectis ciliaris 306 1200L
Circumtrop. 4~ 5 0 24 26°C sg: 1.022 110 cm



Alectis indicus 306 500L
5, 7 4~ 5 0 24 26°C sg: 1.022 50 cm



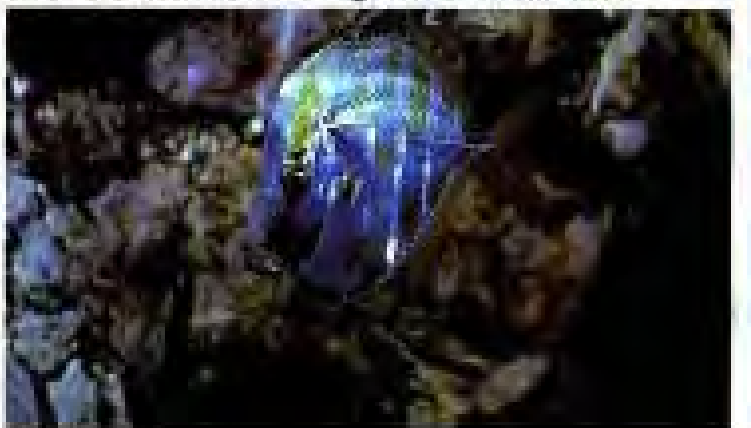
Selene setapinnis 306 300L
2 4~ 5 0 24 26°C sg: 1.022 30 cm



Selene brevirostris 306 300L
3 4~ 5 0 24 26°C sg: 1.022 30 cm



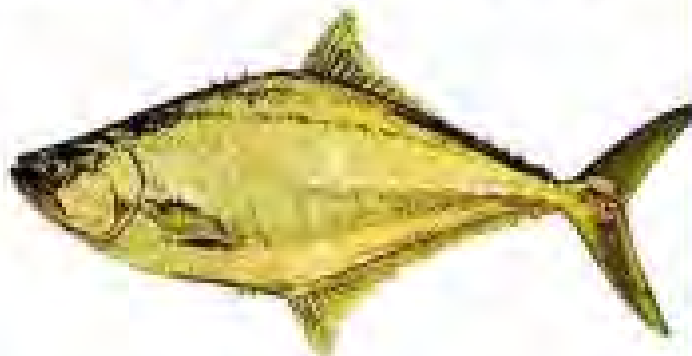
Scomberoides lysan 306 500L
6-8 4~ 5 0 24 26°C sg: 1.022 60 cm



Selene vomer 306 300L
1-2, 13-14 4~ 5 0 24 26°C sg: 1.022 30 cm



Oligoplites saurus 306 300L
2-3 4~ 5 0 24 26°C sg: 1.022 30 cm



Oligoplites altus 306 300L
3 4~ 5 0 24 26°C sg: 1.022 31 cm



Naucrates ductor 306
Circumtrop. ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Seriola zonata 308
2 ♀ ♀ ♂ ♂ 26°C sg: 1.022 80 cm 800L



Seriolina nigrofasciata 305
Circumtrop. ♀ ♂ ♀ ♂ 26°C sg: 1.022 90 cm 1000L



Seriolina nigrofasciata (juv.) 305
Circumtrop. ♀ ♂ ♀ ♂ 26°C sg: 1.022 90 cm 1000L



Chromocombus chrysurus 306
1-2 ♀ ♀ ♂ ♂ 26°C sg: 1.022 30 cm 300L



Pseudocaranx dentatus 306
5, 12 ♀ ♀ ♂ ♂ 26°C sg: 1.022 25 cm 300L



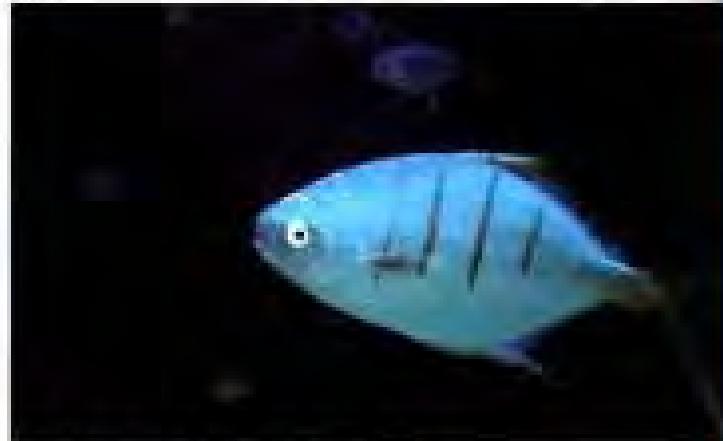
Megalaspis cordyla 306
6-9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 95 cm 1000L



Pseudocaranx dentatus 306
5, 7 ♀ ♀ ♂ ♂ 25°C sg: 1.022 95 cm 1000L



Trachinotus goodii 306
1, 2 ♀ ♂ 26°C sg: 1.022 32 cm 300L



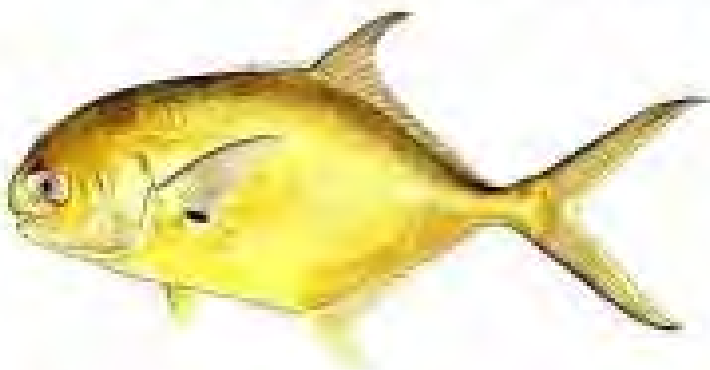
Trachinotus rhodopus 306
3 ♀ ♂ 26°C sg: 1.022 60 cm 600L



Trachinotus balloni 306
7-10 ♀ ♂ 26°C sg: 1.022 60 cm 600L



Trachinotus brochii 306
7, 9 ♀ ♂ 26°C sg: 1.022 60 cm 600L



Trachinotus kennedyi 306
3 ♀ ♂ 26°C sg: 1.022 61 cm 600L



Trachinotus carolinus 306
1, 2 ♀ ♂ 26°C sg: 1.022 60 cm 600L



Trachinotus jalcatus 306
1-2, 13-14 ♀ ♂ 26°C sg: 1.022 140 cm 1500L



Trachinotus brochii 306
7, 9 ♀ ♂ 26°C sg: 1.022 60 cm 600L

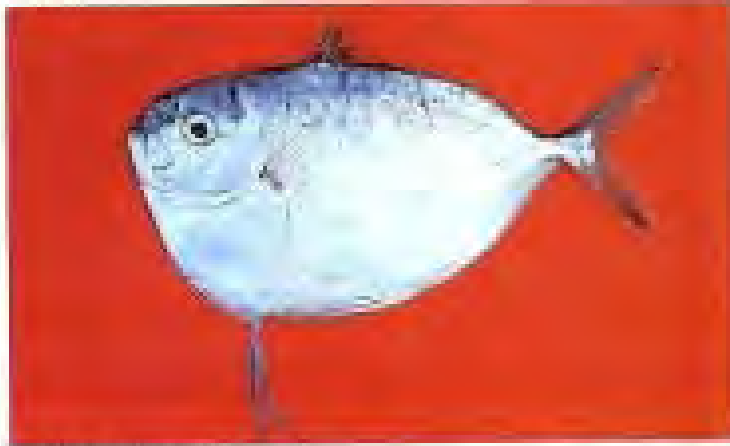


Trachinotus blochii 306
7, 9 ~ 0 ~ ♀ = 26°C sg: 1.022 60 cm 600L

Trachinotus goodei 306
1, 2 ~ 0 ~ ♀ = 26°C sg: 1.022 32 cm 300L



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Mene maculata 310
5-7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L

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Secutor ruconius 311
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Gazza minuta 311
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Leiognathus fasciata 311
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Leiognathus nuchalis 311
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



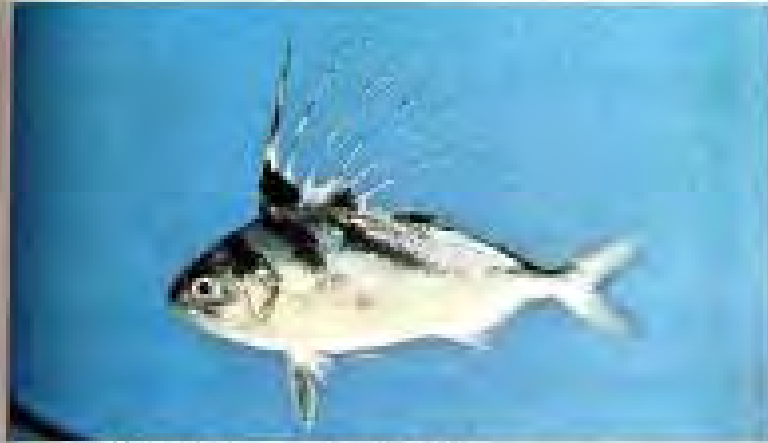
Leiognathus nuchalis 311
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Leiognathus equulus 311
7, 9-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Leiognathus rivulatus 311
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Nemastilus pectoralis 307
3~4ヶ月 26°C sg: 1.022 122 cm 1200L



Coryphaena hippurus 308
Circumtrop. 26°C sg: 1.022 150 cm 1500L



Parastromateus niger 309
7-8ヶ月 26°C sg: 1.022 55 cm 500L



Brama japonicus 312
4-5ヶ月 23°C sg: 1.024 122 cm 1200L



Terachthys steindachneri 312
3, 6-9ヶ月 26°C sg: 1.022 60 cm 500L



Pterycombus petersii 312
6-9, 13ヶ月 23°C sg: 1.024 31 cm 300L



Aripes trutta 314
11-12ヶ月 22°C sg: 1.024 76 cm 500L



Aripes georgianus 314
12ヶ月 23°C sg: 1.024 70 cm 500L



Lufanus biguttatus: 316
6.7 尾 26°C sg: 1.022 28 cm 300L



Aplocheilichthys 316
5.9 ~ 8.0 次 飼 26°C sg: 1.022 100 cm 1000L



Paracaesio 316
12 ~ 15 次 飼 23°C sg: 1.023 38 cm 400L



Eretis 316
5.7 ~ 6.0 次 飼 26°C sg: 1.022 90 cm 1000L



Eretis 316
2 ~ 3 次 飼 26°C sg: 1.022 91 cm 1000L



Apollus 316
2 ~ 3 次 飼 26°C sg: 1.022 46 cm 500L



Rhomboplites 316
1.2 ~ 1.5 次 飼 26°C sg: 1.022 60 cm 500L



Apollus 316
13 ~ 15 次 飼 26°C sg: 1.022 75 cm 800L



Aphareus furcatus 316
7ヶ月〜1年 水温 26°C sg: 1.022 40 cm 400L



Lutjanus decussatus 316
7ヶ月〜1年 水温 26°C sg: 1.022 30 cm 300L



Lutjanus bengalensis 316
9ヶ月〜1年 水温 26°C sg: 1.022 13 cm 150L



Lutjanus kasmira 316
5-10ヶ月 水温 26°C sg: 1.022 40 cm 400L



Lutjanus notatus 316
9ヶ月〜1年 水温 26°C sg: 1.022 22 cm 300L



Lutjanus ehrenbergii 316
7-10ヶ月 水温 26°C sg: 1.022 30 cm 300L



Lutjanus argentimaculatus 316
6-10ヶ月 水温 26°C sg: 1.022 60 cm 800L



Lutjanus fulviflammus 316
7-10ヶ月 水温 26°C sg: 1.022 30 cm 300L



Lutjanus carponotatus 316
6-8, 12 1/2 ~ 15 ~ 18 cm 25°C sg: 1.022 40 cm 400L



Lutjanus carponotatus 316
6-8, 12 1/2 ~ 15 ~ 18 cm 25°C sg: 1.022 40 cm 400L



Lutjanus lutjanus 316
5-9 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 25 cm 300L



Lutjanus vittata 316
7, 9 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 37.5 cm 400L



Lutjanus rubolineatus 316
7 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 22 cm 200L



Lutjanus quinquefasciatus 316
7, 9 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 40 cm 400L



Lutjanus argentimaculatus 316
6-10 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 60 cm 600L



Lutjanus adonii 316
6-7 1/2 ~ 10 ~ 12 cm 26°C sg: 1.022 40 cm 400L

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Lutjanus bohar 316
7-10 匹 飼 込 大 箱 26°C sg: 1.022 90 cm 1000L

#198



Lutjanus fulvus 316
6-8 匹 飼 込 大 箱 26°C sg: 1.022 60 cm 600L



Lutjanus monostigma 316
7-10 匹 飼 込 大 箱 26°C sg: 1.022 60 cm 600L



Lutjanus fulviflamma 316
8 匹 飼 込 大 箱 26°C sg: 1.022 25 cm 300L



Lutjanus madras 316
9 匹 飼 込 大 箱 26°C sg: 1.022 30 cm 200L



Lutjanus biguttatus 316
6-7 匹 飼 込 大 箱 26°C sg: 1.022 28 cm 300L



Lutjanus gibbus 316
7-10 匹 飼 込 大 箱 26°C sg: 1.022 40 cm 400L



Lutjanus gibbus 316
7-10 匹 飼 込 大 箱 26°C sg: 1.022 50 cm 500L



Lutjanus virgatus 316
 9% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 60 cm 600L



Lutjanus bohar 316
 7, 8% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 90 cm 1000L



Lutjanus russelli 316
 7, 8% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 50 cm 500L



Lutjanus russelli 316
 7, 8% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 50 cm 500L



Lutjanus stellaris 316
 7% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 35 cm 400L



Lutjanus monostigma 316
 7, 9, 10% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 60 cm 600L



Lutjanus niger 316
 7% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 20 cm 200L



Lutjanus malabaricus 316
 9% ♀ ~ ~ ♂ 大 尾 26°C sg: 1.022 47.5 cm 500L

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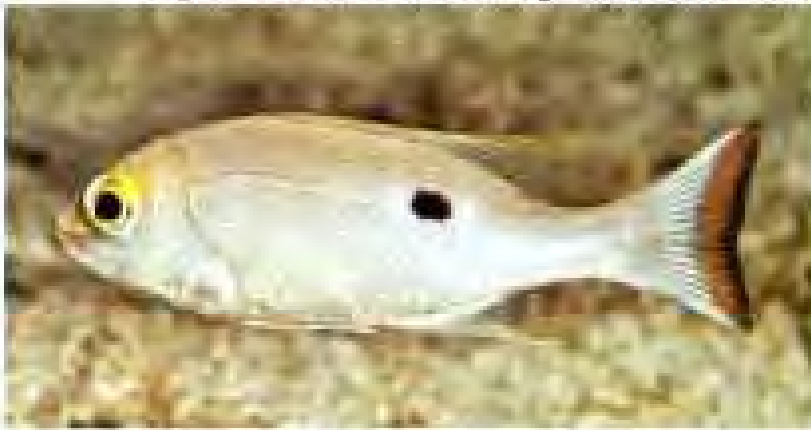


Lutjanus synagris 316
2 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 35 cm 400L

#200



Lutjanus jocv 316
1, 2 ♀ 2 ♂ 4 0 大 箱 24°C sg: 1.023 100 cm 1000L



Lutjanus mahogoni 316
2 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 36 cm 400L



Lutjanus mahogoni 316
2 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 36 cm 400L



Lutjanus viridis 316
2 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 90 cm 1000L



Lutjanus viridis 316
3 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 30 cm 300L



Lutjanus guttatus (juv) 316
3 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 60 cm 600L



Lutjanus guttatus 316
3 ♀ 2 ♂ 4 0 大 箱 26°C sg: 1.022 60 cm 600L



Lutjanus campechanus 316
2 ♀ 1 ♂ 1 ♀ 1 ♂ 26°C sg: 1.022 60 cm 800L



Lutjanus analis 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 24°C sg: 1.023 65 cm 800L



Lutjanus buccanella 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 26°C sg: 1.022 75 cm 800L



Lutjanus buccanella (juv.) 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 26°C sg: 1.022 75 cm 800L



Lutjanus apodus 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 24°C sg: 1.023 60 cm 800L



Lutjanus apodus 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 24°C sg: 1.023 60 cm 800L



Lutjanus cyanopterus 316
2 ♀ 1 ♂ 1 ♀ 1 ♂ 26°C sg: 1.022 150 cm 1500L



Lutjanus griseus 316
1, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 24°C sg: 1.023 60 cm 800L

200



Lutjanus rivulatus 316
7.9 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 70 cm 800L

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Lutjanus argentimaculatus 316
7.10 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 60 cm 500L



Lutjanus erythropterus 316
8-10 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 60 cm 600L



Lutjanus erythropterus (juv.) 316
8-10 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 60 cm 600L



Lutjanus gibbus 316
7-10 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 60 cm 500L



Lutjanus sp. (femineolatus?) 316
7.9 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 45 cm 500L



Lutjanus semilineatus 316
7.9 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 30 cm 300L



Lutjanus femineolatus 316
7.9 ♀ ~ 0.7 ♂ 水温 26°C sg: 1.022 45 cm 500L



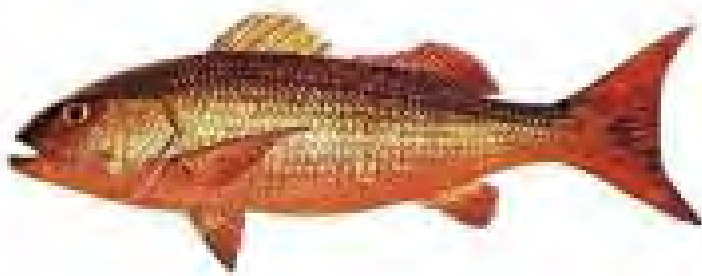
Symphorichtys spilargenteus 316
7.5 hrs S 0.9% lit to 26°C sp: 1.022 50 cm 500L



Symphoricarthus spilurus (juv.) 318
 7 ½" ¾" ¾" 0.8" 26°C sg: 1.022 50 cm 500L



Symphoricarthus spilurus (adult) 318
 7 ½" ¾" ¾" 0.8" 26°C sg: 1.022 50 cm 500L



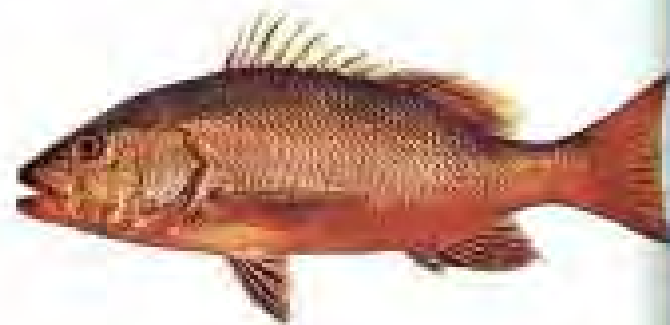
Lutjanus analis 318
 3 ½" ¾" ¾" 0.8" 26°C sg: 1.022 75 cm 800L



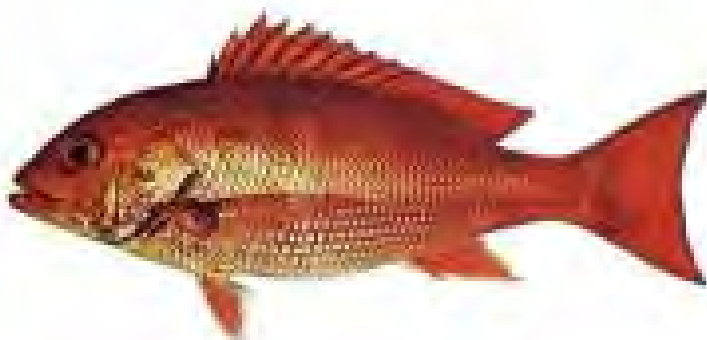
Symphorus nematophorus 318
 7 ½" ¾" ¾" 0.8" 26°C sg: 1.022 80 cm 800L



Lutjanus novemfasciatus 318
 0 ¾" ¾" ¾" 0.8" 26°C sg: 1.022 120 cm 1200L



Lutjanus colorado 318
 3 ½" ¾" ¾" 0.8" 26°C sg: 1.022 75 cm 800L



Lutjanus peru 318
 3 ½" ¾" ¾" 0.8" 26°C sg: 1.022 38.5 cm 400L



Lutjanus peru 318
 3 ½" ¾" ¾" 0.8" 26°C sg: 1.022 38.5 cm 400L



Pristipomoides macrophthalmus 316
7 ~ 8 ㎝ 大 雄 ♀ 26°C sg: 1.022 50 cm 500L



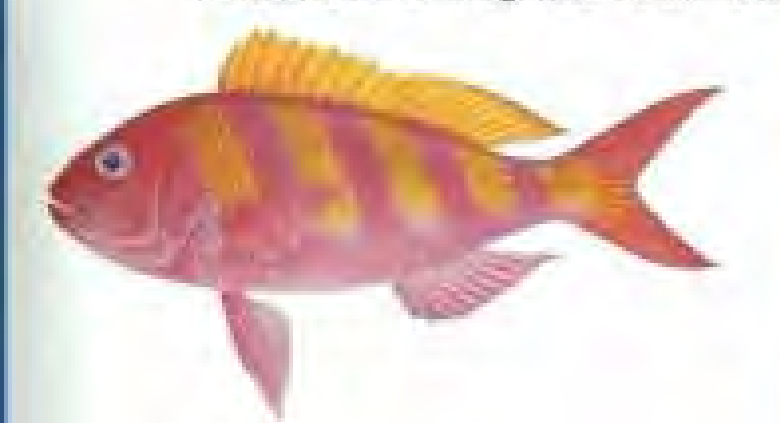
Ocyurus chrysurus 316
1-2 ㎝ 0 大 雄 ♀ 24°C sg: 1.023 60 cm 1000L



Pristipomoides filamentosus 316
7 ~ 8 ㎝ 大 雄 ♀ 26°C sg: 1.022 80 cm 800L



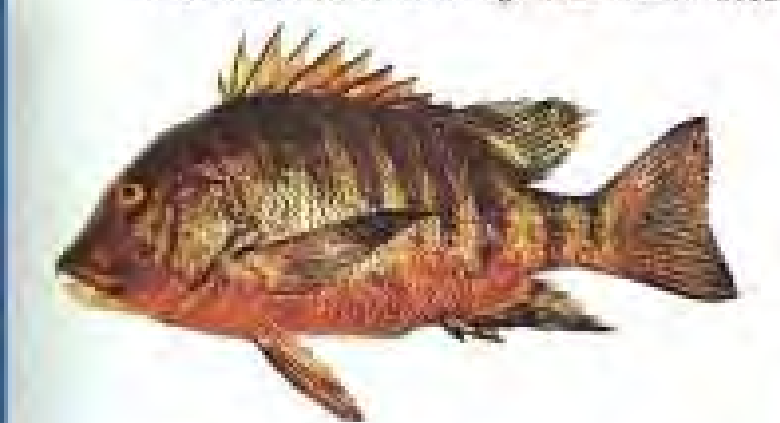
Pristipomoides multidentis 316
7 ~ 8 ㎝ 大 雄 ♀ 26°C sg: 1.022 90 cm 1000L



Tropidurus zonatus 316
7 ~ 8 ㎝ 大 雄 ♀ 26°C sg: 1.022 30 cm 300L



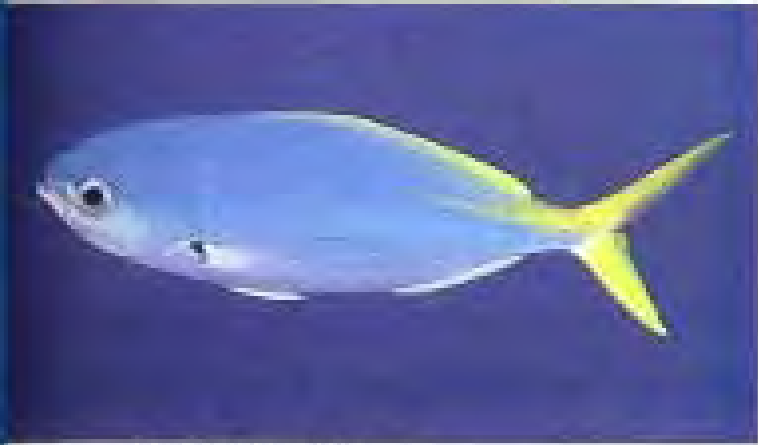
Macolor niger (juv.) 316
7-10 ㎝ 大 雄 ♀ 26°C sg: 1.022 75 cm 800L



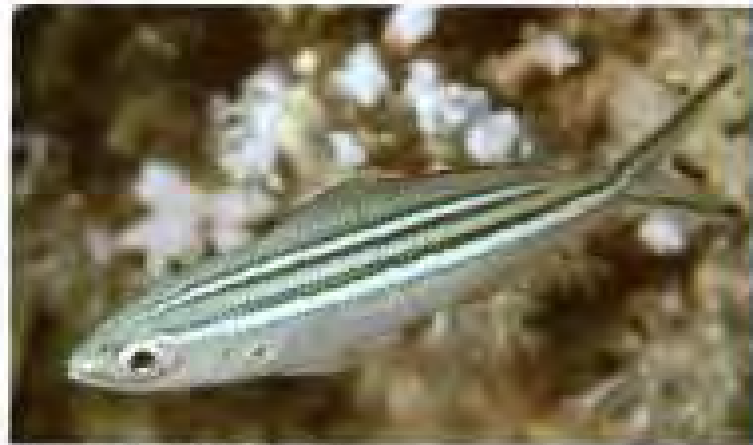
Haplopagrus guentheri 316
3 ~ 4 ㎝ 大 雄 ♀ 26°C sg: 1.022 75 cm 800L



Haplopagrus guentheri (juv.) 316
3 ~ 4 ㎝ 大 雄 ♀ 26°C sg: 1.022 75 cm 800L



Caesio teres 317
9.2 ~ 10.0 cm 26°C sg: 1.022 30 cm 300L



Pterocaesio lineata 317
9 ~ 10 cm 26°C sg: 1.022 18 cm 200L



Pterocaesio chrysozona 317
7.9 ~ 8.5 cm 26°C sg: 1.022 18 cm 200L



Pterocaesio lativittata 317
7.9 ~ 8.5 cm 26°C sg: 1.022 18 cm 200L



Pterocaesio tile 317
7.9 ~ 8.5 cm 26°C sg: 1.022 30 cm 300L



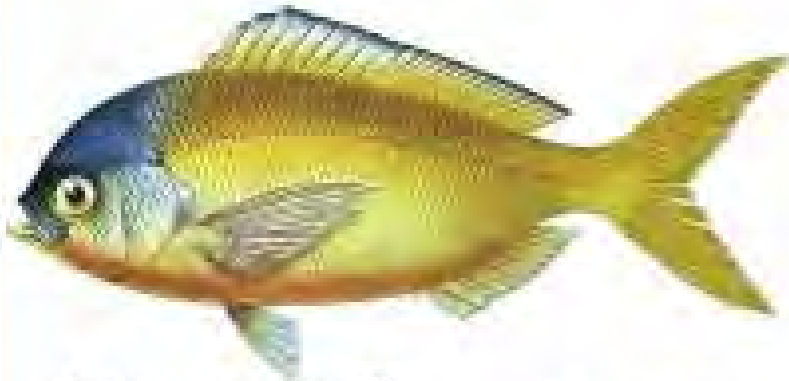
Pterocaesio tile 317
7.9 ~ 8.5 cm 26°C sg: 1.022 30 cm 300L



Pterocaesio randalli 317
7.9 ~ 8.5 cm 26°C sg: 1.022 18 cm 200L



Caesio caerulea 317
7.9 ~ 8.5 cm 26°C sg: 1.022 18 cm 200L



Caesio erythrogaster 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 36 cm 400L



Caesio lunaris 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 30 cm 300L



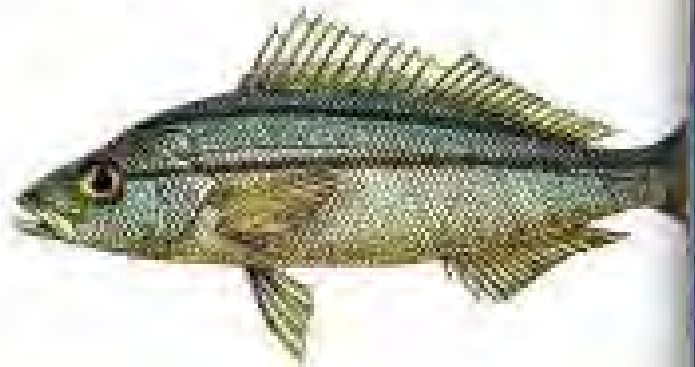
Pterocaesio chrysozona 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 18 cm 200L



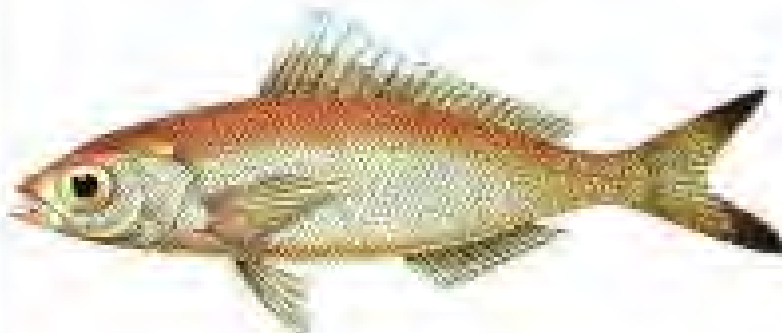
Caesio xanthonotus 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 40 cm 400L



Caesio caerulescens 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 18 cm 200L



Pterocaesio digramma 317
7 ~ 10 0 大 尾 25°C sg: 1.022 25 cm 300L



Caesio pitang 317
5, 7 ~ 10 0 大 尾 25°C sg: 1.022 20 cm 200L



Gymnocaesio gymnapterus 317
7, 9 ~ 10 0 大 尾 25°C sg: 1.022 16 cm 200L



Pterocaesio digamma 317
7~9cm 0.1~0.2kg 26°C sg: 1.022 25 cm 300L



Caesio cuning 317
7~9cm 0.1~0.2kg 26°C sg: 1.022 40 cm 400L



Caesio levis 317
9cm 0.1~0.2kg 26°C sg: 1.022 30 cm 300L



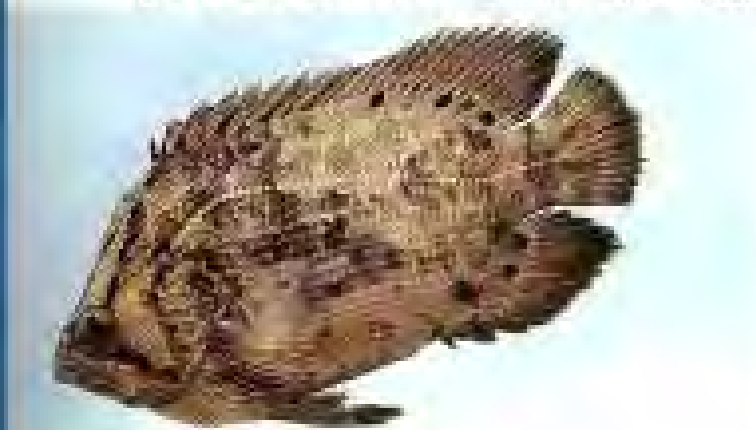
Caesio lunaris 317
7, 9cm 0.1~0.2kg 26°C sg: 1.022 30 cm 300L



Caesio pisang 317
5, 7cm 0.1~0.2kg 26°C sg: 1.022 20 cm 200L



Caesio penulawea 317
7, 9cm 0.1~0.2kg 26°C sg: 1.022 18 cm 200L



Lobotes aurinamensis 317
Circumtrop. 4~5cm 0.1~0.2kg 26°C sg: 1.022 95 cm 1000L



Lobotes aurinamensis 317
Circumtrop. 4~5cm 0.1~0.2kg 26°C sg: 1.022 95 cm 1000L

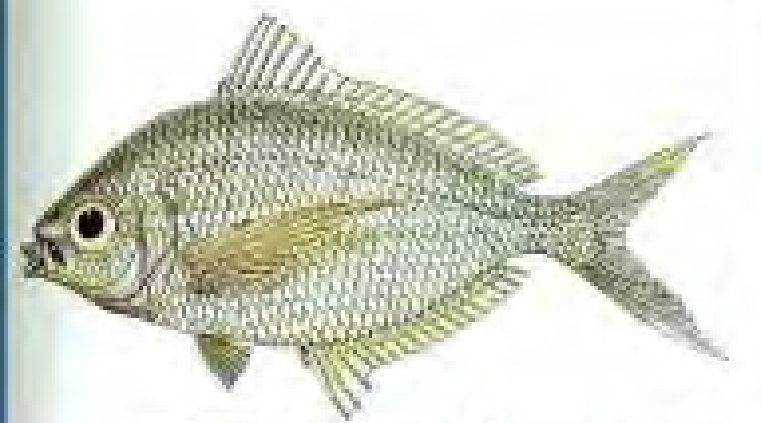
#210



Gerres oyna 319
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1,022 25 cm 300L



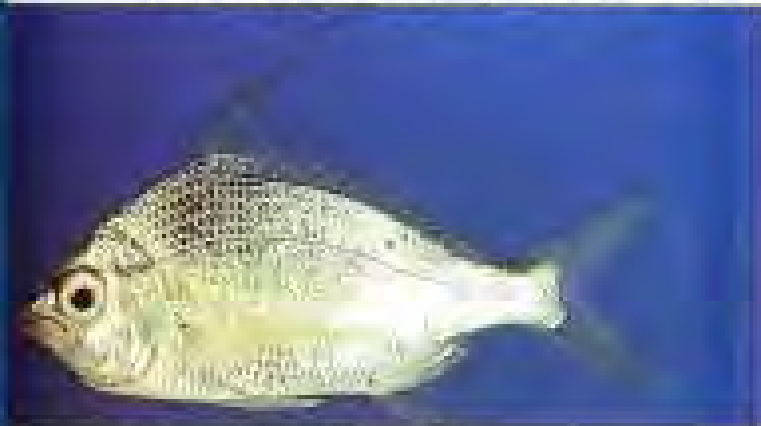
Gerres baconensis 319
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1,022 25 cm 300L



Pentaprion longimanus 319
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



Paraquía melbournensis 319
12 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Genes firamentosus 319
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



Genes acinaces 319
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Eucinostomus gracilis 319
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



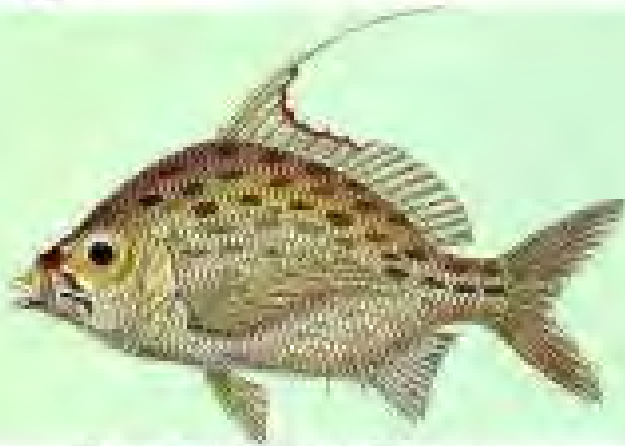
Genes cinereus 319
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



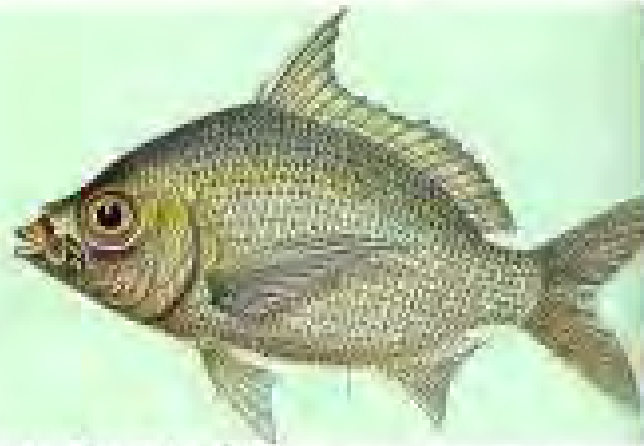
Eucinostomus argenteus 319
1-3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Eucinostomus gula 320
1-2 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 18 cm 200L



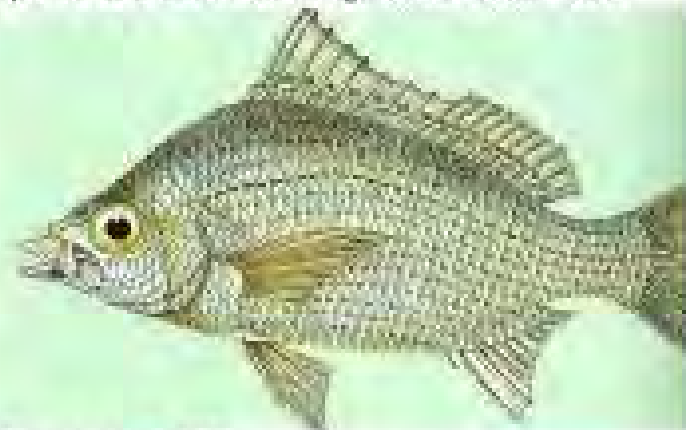
Gerres filamentosa 319
7, 9 ~ 0 ♀ 26°C sg: 1.022 27 cm 300L



Gerres abbreviatus 319
7, 9 ~ 0 ♀ 26°C sg: 1.022 25 cm 300L



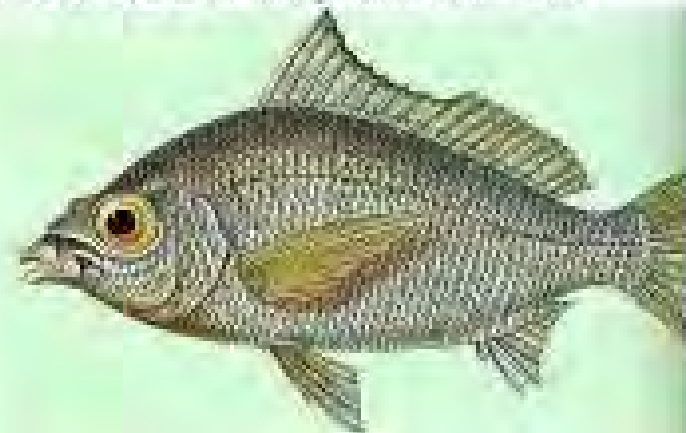
Gerres macrostoma 319
7 ~ 0 ♀ 26°C sg: 1.022 25 cm 300L



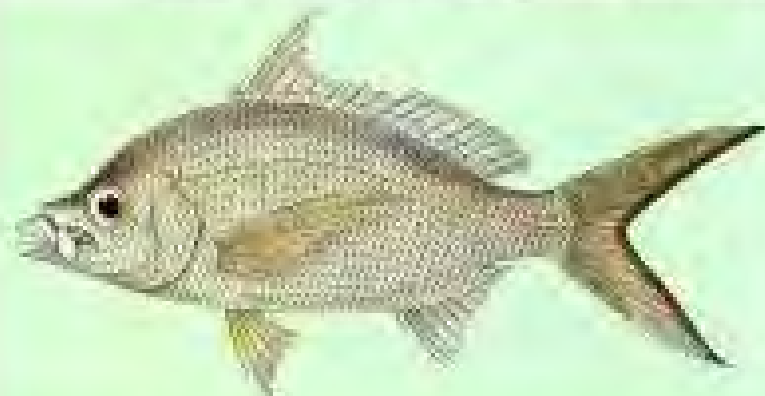
Gerres poeri 319
7 ~ 0 ♀ 26°C sg: 1.022 23 cm 300L



Gerres oyena 319
7, 9 ~ 0 ♀ 26°C sg: 1.022 25 cm 300L



Gerres kapes 319
7 ~ 0 ♀ 26°C sg: 1.022 17.5 cm 200L



Gerres acinaces 319
7, 9 ~ 0 ♀ 26°C sg: 1.022 25 cm 300L



Gerres macracanthus 319
7 ~ 0 ♀ 26°C sg: 1.022 17 cm 300L



Haemulon flavolineatum 320
2 1/2" x 1 1/2" x 1 1/2" 28°C sp: 1.022 30 cm 300L

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Haemulon parrai 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 40 cm 400L

#212



Haemulon melanurum 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 33 cm 350L



Haemulon sciurus 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 18 cm 200L



Haemulon plumieri 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 45 cm 500L



Haemulon flavolineatum 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 30 cm 300L



Haemulon flavolineatum 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 30 cm 300L



Haemulon flavolineatum 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 30 cm 300L



Haemulon striatum 320
2 ♀ ~ ~ ~ ♂ ♀ ~ ~ ~ 26°C sg: 1.022 28 cm 300L



Haemulon chrysargyreum 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 23 cm 300L



Haemulon album 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Haemulon macrostomum 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 43 cm 500L



Haemulon aurolineatum 320
1-2 ♀ ~ ♀ ~ ♂ ♀ ♀ 25°C sg: 1.022 26 cm 300L



Haemulon aurolineatum 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 36 cm 400L



Haemulon sciurus 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Haemulon sciurus 320
2 ♀ ~ ♀ ~ ♂ ♀ ♀ 26°C sg: 1.022 30 cm 300L

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Haemulon sexfasciatum 320
3 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 33 cm 500L

#214



Haemulon flaviguttatum 320
3 ♀ ~ ~ ~ ♂ 大 西 26° sg: 1.022 30 cm 300L



Anisotremus surinamensis (juv.) 320
2 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 60 cm 600L



Anisotremus surinamensis 320
2 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 60 cm 600L



Anisotremus davidsonii 320
3 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 58 cm 600L



Anisotremus taeniatus 320
3 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 25 cm 250L



Anisotremus virginicus 320
2 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 38 cm 400L



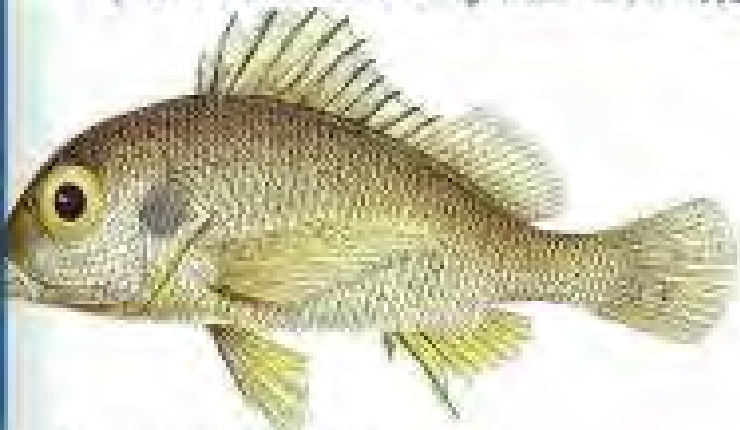
Anisotremus virginicus 320
2 ♀ ~ ~ ~ ♂ 大 西 26°C sg: 1.022 38 cm 400L



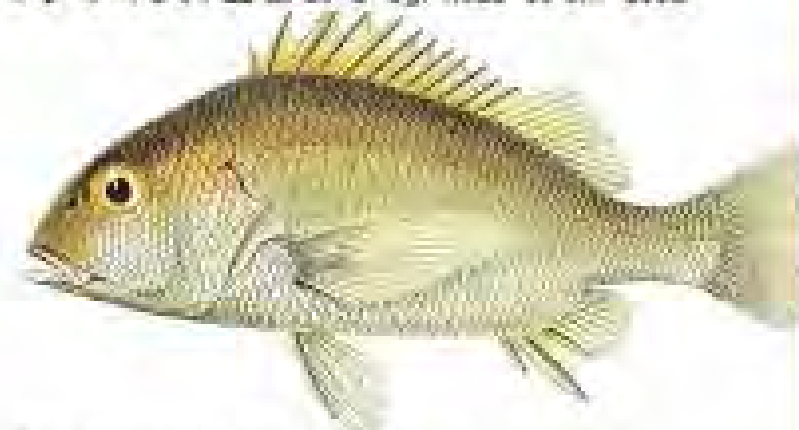
Parapristipoma trilineatum 320
1 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 40 cm 400L



Comodon nobilis 320
2 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 30 cm 300L



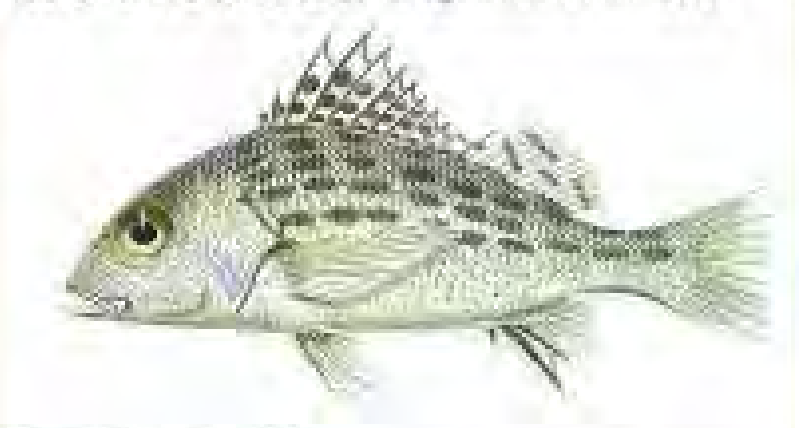
Pomadourys argyreus 320
7, 9 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 20 cm 200L



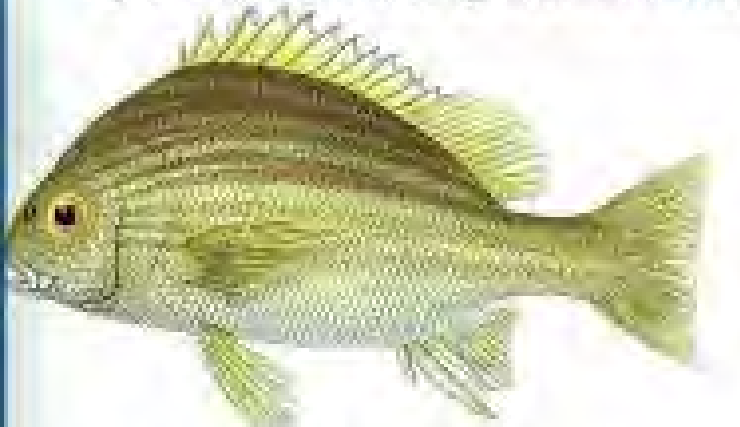
Pomadourys argyreus 320
7, 9 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 20 cm 200L



Pomadourys maculatum 320
1 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 15 cm 200L



Pomadourys hasta 320
6-10 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 40 cm 400L



Pomadourys furcatus 320
7-9 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 50 cm 500L



Pomadourys corvineformis 320
2 ♀ 尾 長 0.4 尺 深 26°C sg: 1.022 25 cm 300L

#212



Scolopsis ghanam 325
9-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L

#216



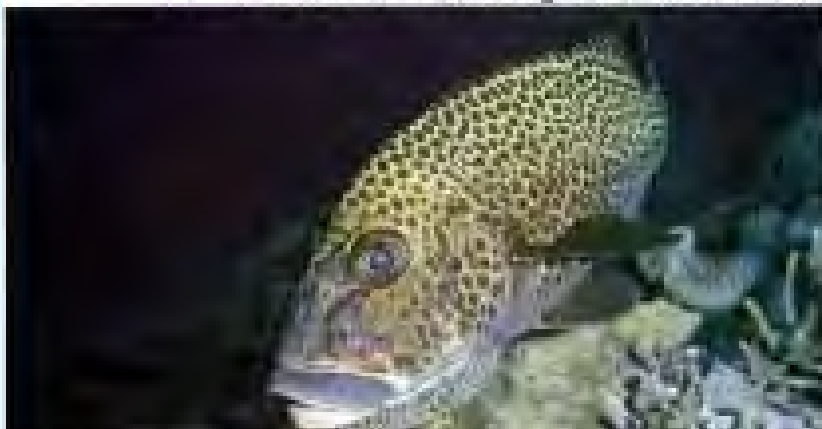
Scolopsis ghanam 325
9-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Plectorhynchus chaetodonoides (juv.) 320
7 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus chaetodonoides 320
7 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus chaetodonoides 320
7 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus flavomaculatus 320
7, 9-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus gaterinus 320
9-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus schotefi 320
7-9 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Plectorhynchus albovittatus 320
7, 9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Plectorhynchus albovittatus (juv.) 320
7, 9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Plectorhynchus flavomaculatus 320
7, 9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Plectorhynchus multivittatus 320
7, 12 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Plectorhynchus plous 320
7, 9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Plectorhynchus caetodonoides 320
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Haplochromis nigripinnis 320
5, 7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Haplochromis mucronatus 320
5-7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L

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Plectorhinchus cerebleus 320
7 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 50 cm 500L

#218



Plectorhinchus goldmani 320
6-7 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 50 cm 500L



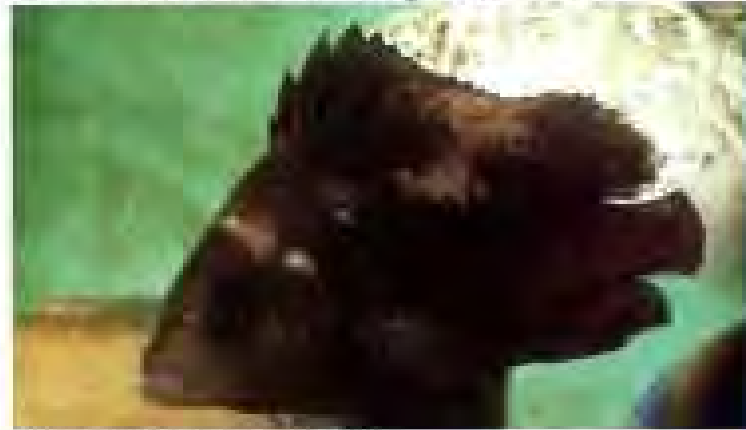
Plectorhinchus diagrammus 320
7, 9 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 50 cm 500L



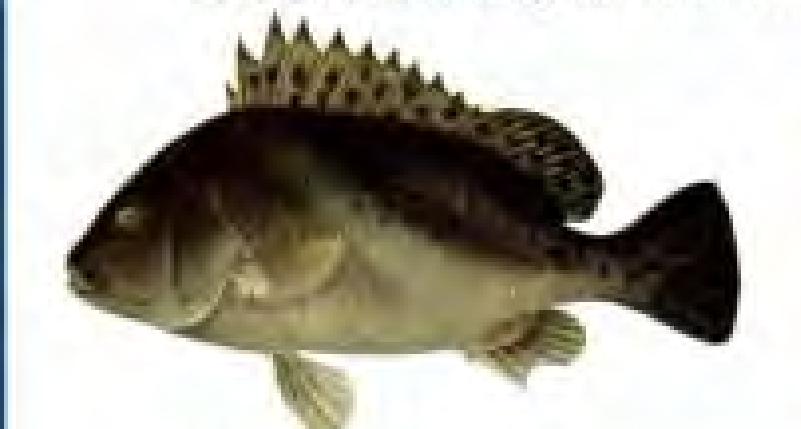
Plectorhinchus diagrammus 320
7, 9 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 50 cm



Plectorhinchus schotaf 320
7-9 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 60 cm 600L



Plectorhinchus nigrus 320
7, 9-10 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 60 cm 600L



Plectorhinchus cinctus 320
7, 9 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 60 cm 600L



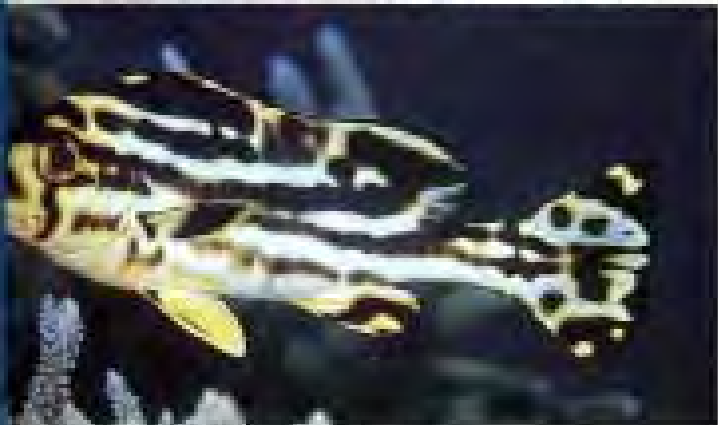
Plectorhinchus sordidus 320
9-10 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 60 cm 600L



Plectorhinchus galarinus 320
9-10 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Plectorhinchus sordidus 320
9-10 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Plectorhinchus lineatus 320
7, 9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 400L



Plectorhinchus lineatus 320
7, 9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 400L



Plectorhinchus pictus 320
7, 9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



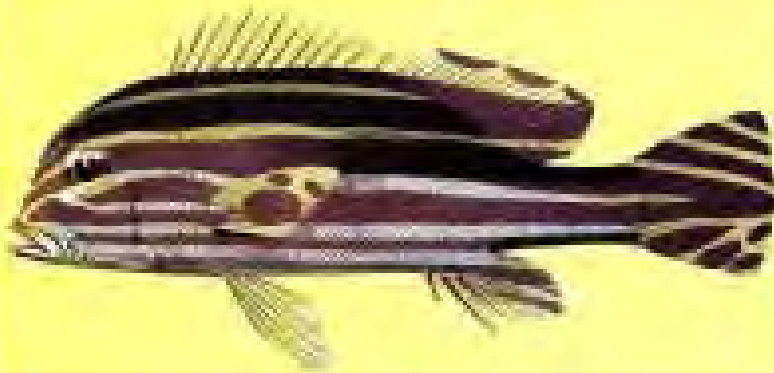
Plectorhinchus pictus 320
7, 9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



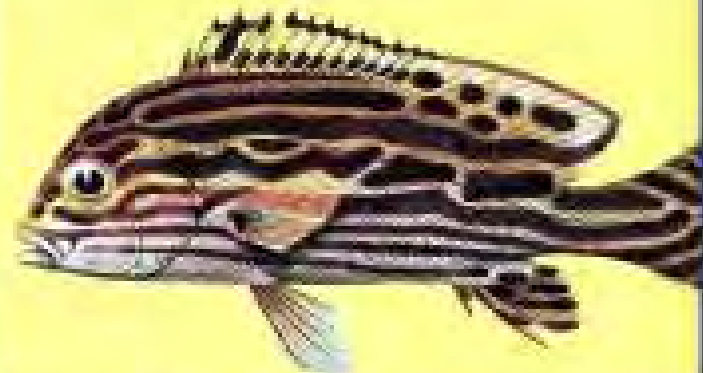
Plectorhinchus pictus 320
7, 9 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



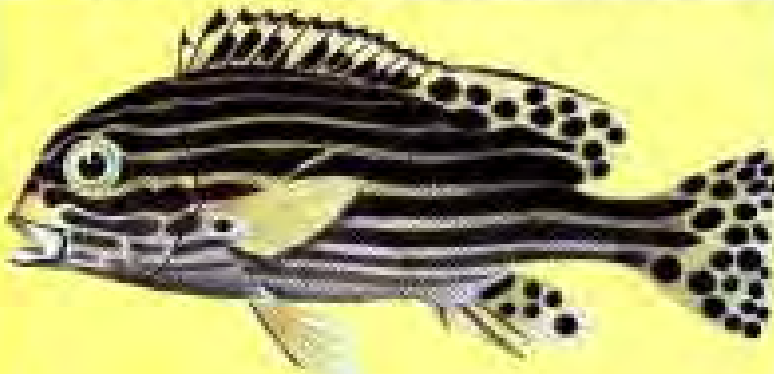
Plectorhinchus pictus 320
7, 9-10 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 90 cm 1000L



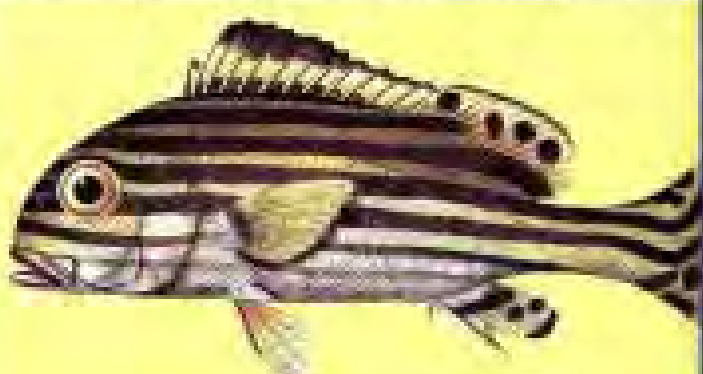
Plectorhinchus lineatus 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 35 cm 400L



Plectorhinchus lineatus 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 35 cm 400L



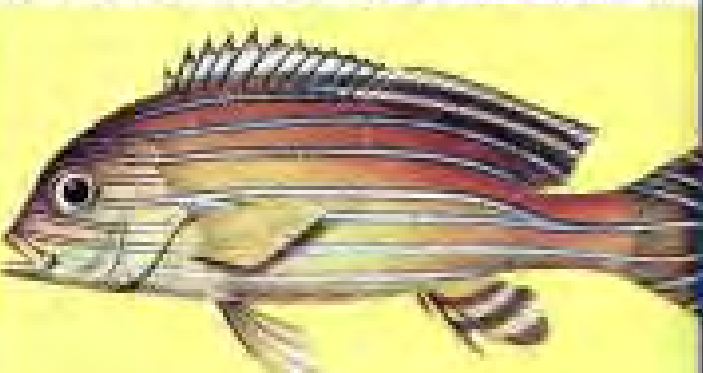
Plectorhinchus lineatus 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 35 cm 400L



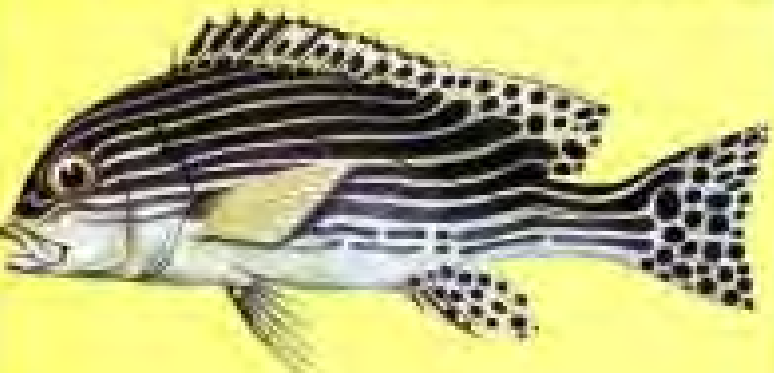
Plectorhinchus lineatus 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 35 cm 400L



Plectorhinchus lineatus? 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 35 cm 400L



Plectorhinchus polytaenia 320
7, 9 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 50 cm 500L



Plectorhinchus goldmanni? 320
6-7 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 50 cm 500L



Plectorhinchus goldmanni 320
6-7 ♀ ~ ~ 0 次 西 □ 26°C sg: 1.022 50 cm 500L



Inermia vittata 321
2匹 2ヶ月 20cm 26°C sg: 1.022 13cm 150L



Exocoelichthys ruber 315
2匹 2ヶ月 20cm 26°C sg: 1.022 13cm 150L



Spicara maena flexuosa 323
15匹 2ヶ月 20cm 26°C sg: 1.022 21cm 200L



Diplodus puntazzo 322
13, 15匹 2ヶ月 20cm 26°C sg: 1.022 45cm 500L



Boops salpa 322
13-15匹 2ヶ月 20cm 26°C sg: 1.022 45cm 500L



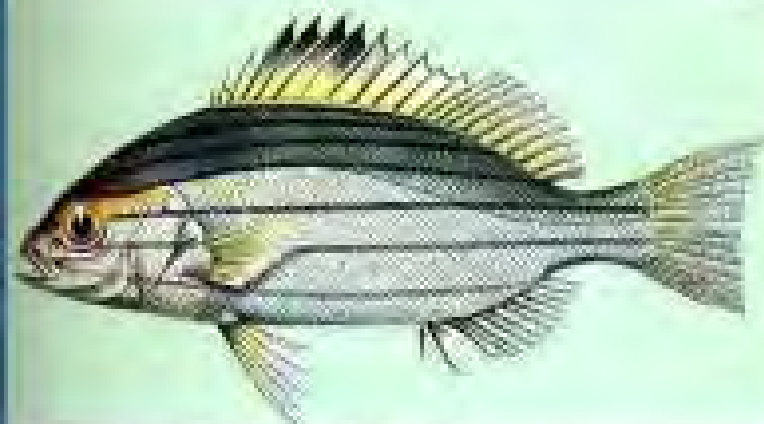
Lithognathus mormyrus 322
9-10, 15匹 2ヶ月 20cm 26°C sg: 1.022 55cm 500L



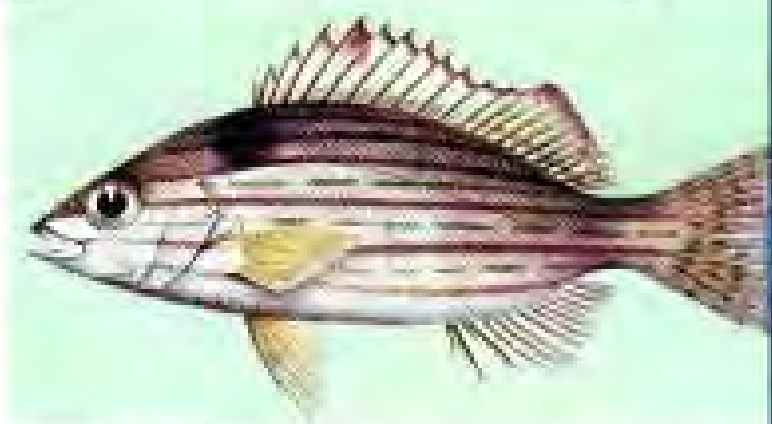
Diplodus bermudensis 322
2匹 2ヶ月 20cm 26°C sg: 1.022 30cm 300L



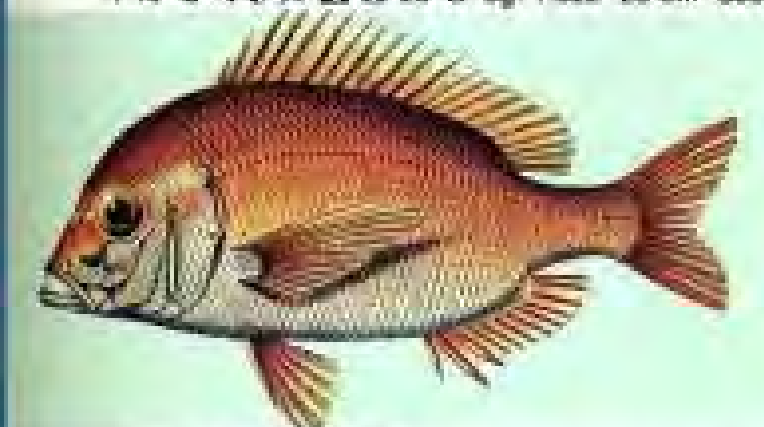
Diplodus vulgaris 322
13, 15匹 2ヶ月 20cm 26°C sg: 1.022 30cm 300L



Pelates quadrilineatus 291
7-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Pelates quadrilineatus 291
7-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Dentex tumifrons 322
5, 7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 35 cm 400L



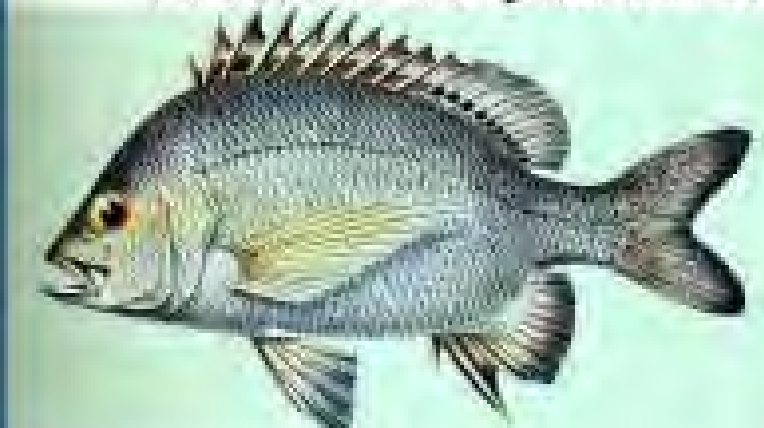
Evynnis japonica 322
5, 7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 45 cm 500L



Argyrops bleekeri 322
7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Argyrops spinifer 322
7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Acanthopagrus bairdi 322
7, 9-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Acanthopagrus bairdi 322
7, 9-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Argyrops bleekeri 322
7 ~ 8 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 50 cm 500L



Pagrus major 322
5, 7 ~ 8 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 70 cm 800L



Pagrus auratus 322
7-8, 12 ~ 13 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 100 cm 1000L



Pagrus major 322
5, 7 ~ 8 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 70 cm 800L



Gymnocranius japonicus 324
6-7 ~ 8 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 50 cm 500L



Gymnocranius bifurcatus 322
7-8 ~ 9 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 41 cm 400L



Pagellus eorume 322
14-15 ~ 16 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 35 cm 400L



Gymnocranius lethrinoides 322
6-7 ~ 8 ~ ♀ ♂ 大 鱗 26°C sg: 1.022 50 cm 500L



Acanthopagrus probatocephalus 322
2 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 91 cm 1000L



Acanthopagrus probatocephalus 322
2 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 91 cm 1000L



Acanthopagrus latus 322
7, 9-10 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 50 cm 500L



Lagodon rhomboides 322
2 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 35 cm 400L



Acanthopagrus schlegelii 322
5, 7 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 50 cm 500L



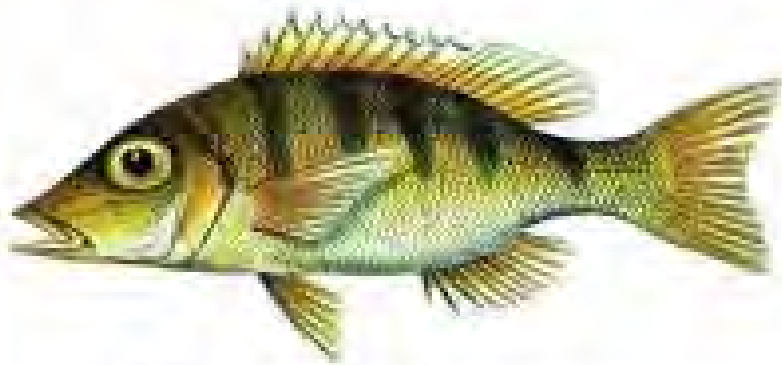
Acanthopagrus bifasciatus 322
9-10, 13 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 50 cm 500L



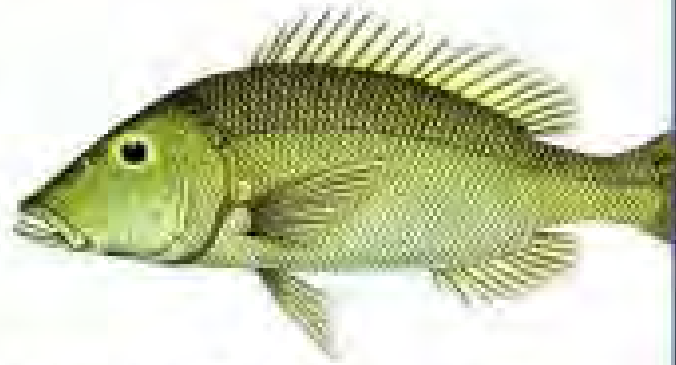
Rhabdosargus sarbe 322
5, 7, 9-10 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 48 cm 500L



Acanthopagrus australis 322
6-7 ♀ ~ ~ ~ ♂ 大 画 □ 26°C sg: 1.022 55 cm 600L



Lethrinus opacineus 324
7-8 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 60 cm 600L



Lethrinus fentjan 324
6-10 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 50 cm 500L



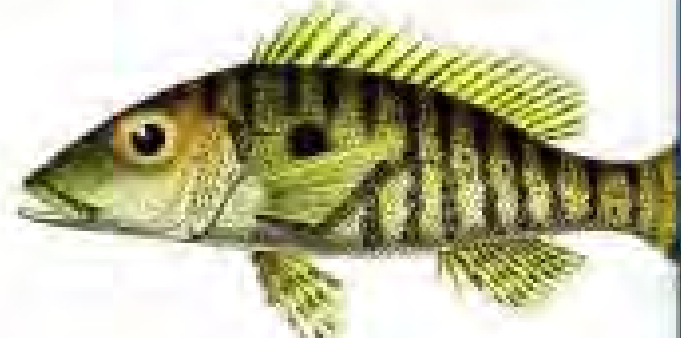
Lethrinus variegatus 324
6-8 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 60 cm 600L



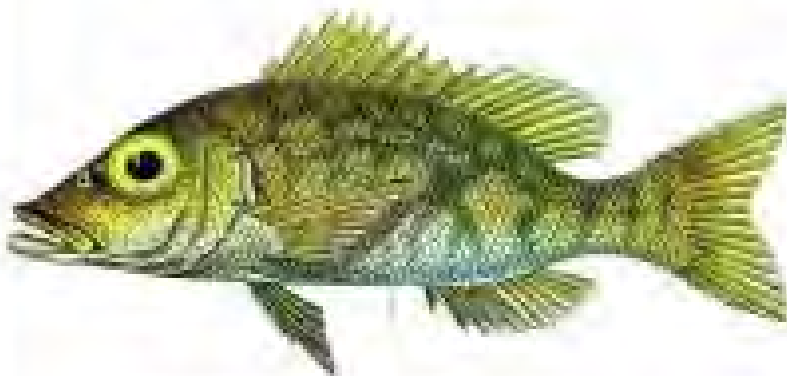
Lethrinus variegatus 324
6-8 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 60 cm 600L



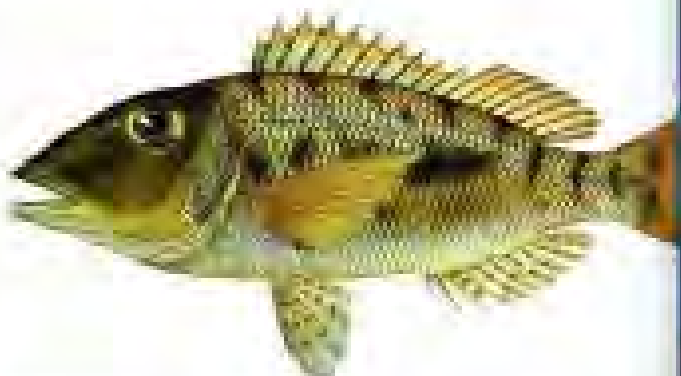
Lethrinus rostratus 324
7 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 60 cm 600L



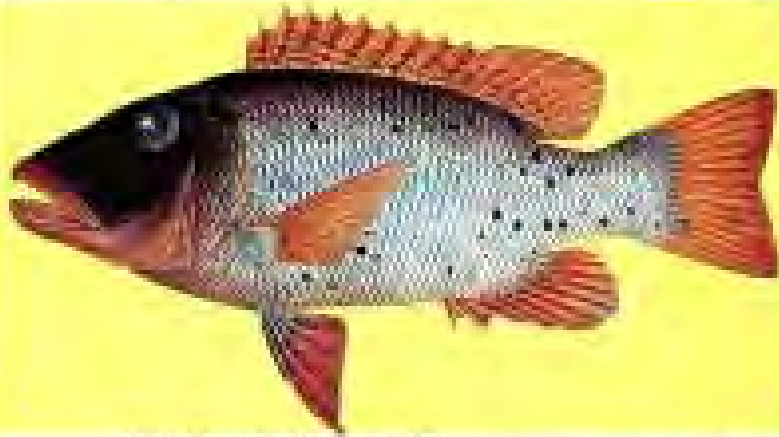
Lethrinus ambainensis 324
6-7 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 70 cm 800L



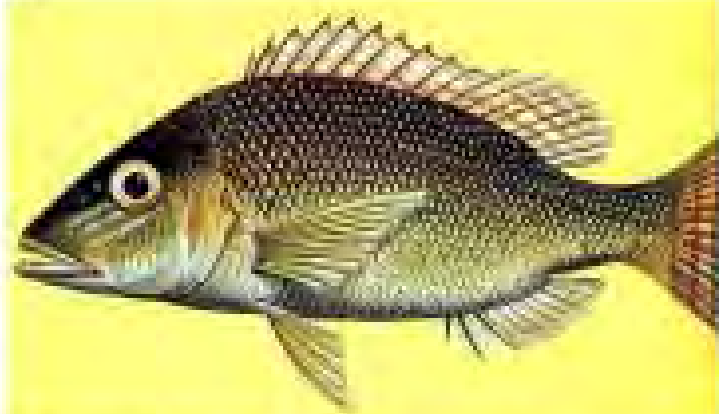
Lethrinus reticulatus 324
7-8 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 40 cm 400L



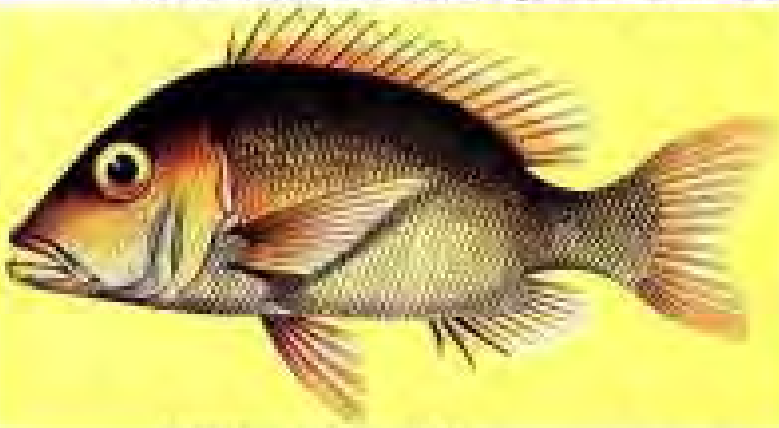
Lethrinus variegatus? 324
6-8 ~ ♀ ~ ♂ 大 鱗 26°C sg: 1.022 60 cm 600L



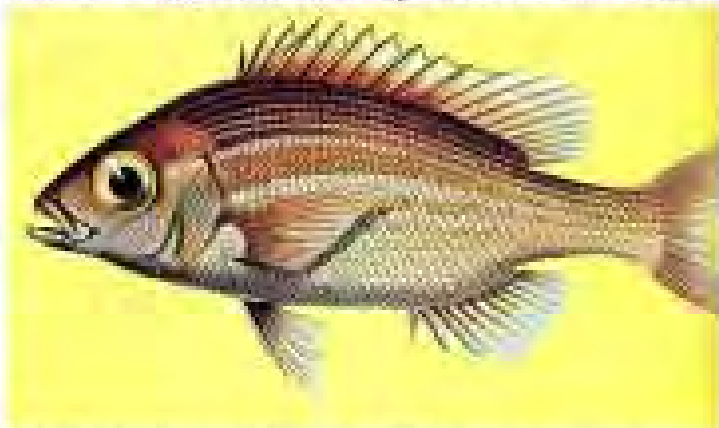
Lethrinus mahseene 324
7-10 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 50 cm 500L



Lethrinus nebulosus 324
7-10 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 90 cm 1000L



Lethrinus ornatus 324
7 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 45 cm 500L



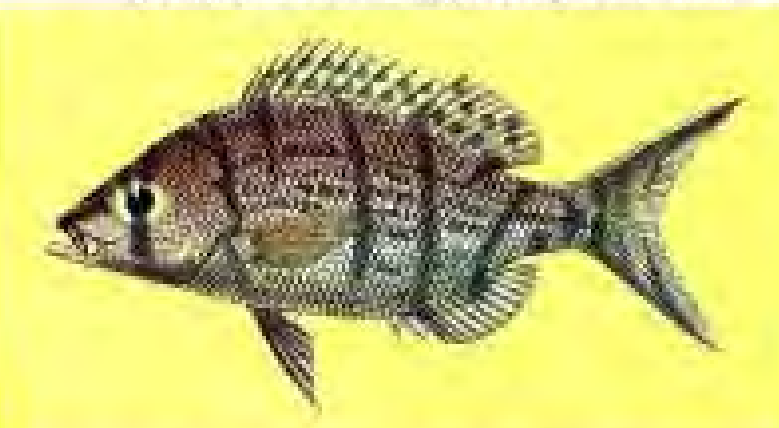
Gnathodentex aurolineatus 324
5, 7, 9 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 45 cm 500L



Monotaxis grandoculis 324
7, 9-10 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 8 cm 80L



Gymnocranius griseus 324
5, 7, 9 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 50 cm 500L



Gymnocranius lethrinoides 324
7 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 50 cm 500L



Gymnocranius griseus 324
5, 7, 9 ㎍ ㎍ ㎍ ㎍ ㎍ ㎍ 26°C sg: 1.022 50 cm 500L



Lethrinus nebulosus 324
5, 7, 9-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 100 cm 1000L



Lethrinus ramak 324
7-9 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Lethrinus lentjan 324
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Lethrinus mahsena? 324
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Lethrinus xanthurus 324
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 80 cm 800L



Lethrinus rubriperculatus 324
6, 7, 9 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 60 cm 600L



Lethrinus hypselepterus 324
7-9 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Lethrinus miniatus 324
7, 9-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 100 cm 1000L



Lethrinus chrysofomus 324
7-8 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 91 cm 1000L



Lethrinus enigmaticus 324
9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 40 cm 400L



Lethrinus karak 324
6-7, 9-10 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 60 cm 600L



Lethrinus kalliopterus 324
7, 9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 80 cm 800L



Lethrinus variegatus 324
5, 7, 9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 60 cm 600L



Lethrinus variegatus 324
5, 7, 9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 60 cm 600L



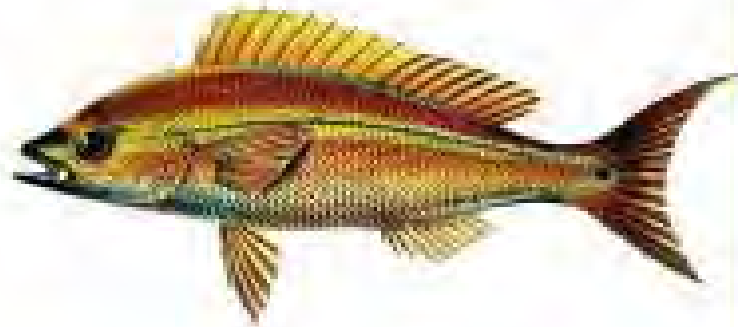
Gnathodentex aurolineatus 324
5, 7, 9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 45 cm 500L



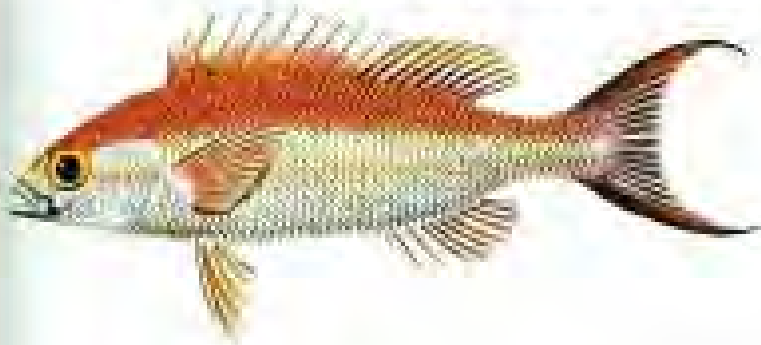
Gnathodentex aurolineatus 324
5, 7, 9 ~ ♀ ~ ♂ ♀: 26°C sg: 1.022 45 cm 500L



Pentapodus caninus 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 28 cm 300L



Pentapodus setosus 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 35 cm 400L



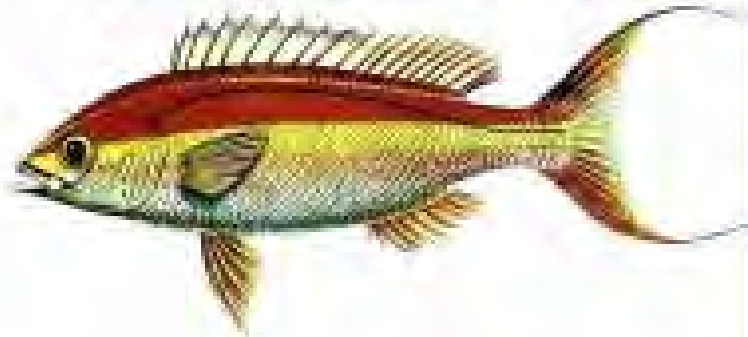
Pentapodus microdon 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 30 cm 200L



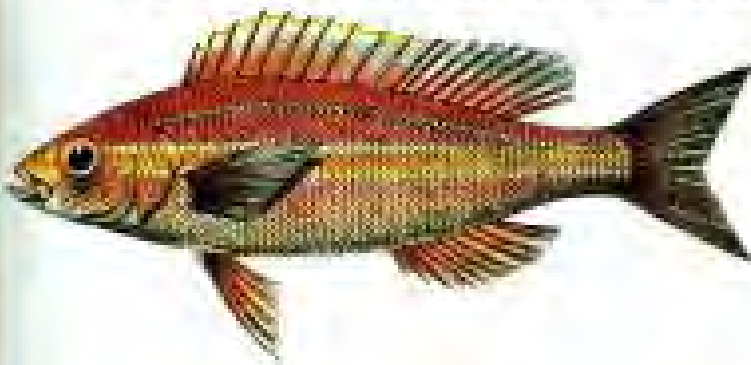
Pentapodus macrurus 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 35 cm 400L



Pentapodus nemurus 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 45 cm 500L



Pentapodus nemurus 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 45 cm 500L



Pentapodus heilmuthi 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 30 cm 200L



Pentapodus sp. 325
7~8, 12~14, 16~18, 20~22, 24~26°C sg: 1.022 35 cm 400L



Pentapodus carinus 325
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 28 cm 300L



Pentapodus nemurus 325
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 46 cm 500L



Pentapodus witte 325
7-8, 12 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Pentapodus porosus 325
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Pentapodus sp. 325
7-8 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



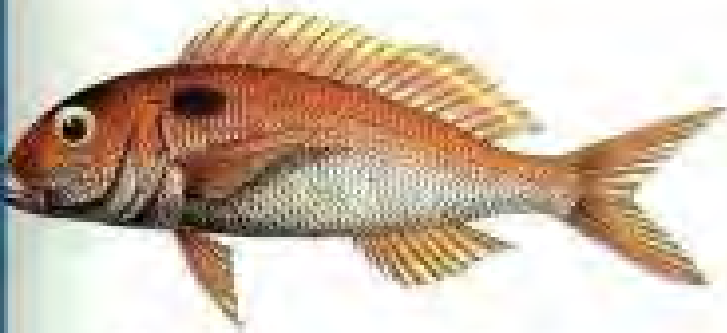
Pentapodus setosus 325
7-8, 12 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 400L



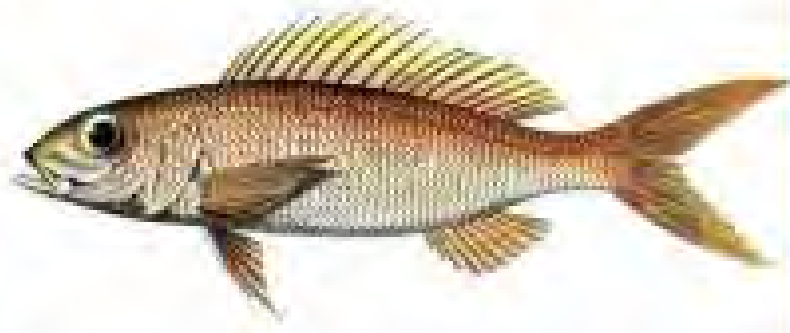
Pentapodus sp. 325
8 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 200L



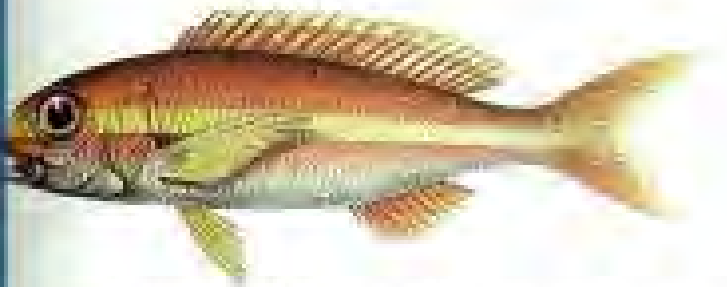
Pentapodus sp. 325
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



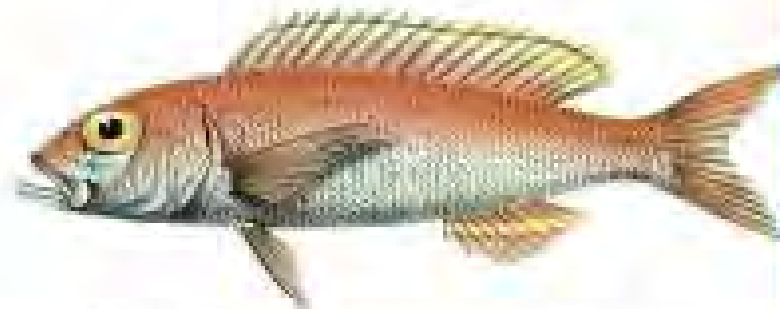
Nemipterus lipeneoides 325
7-8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 16 cm 200L



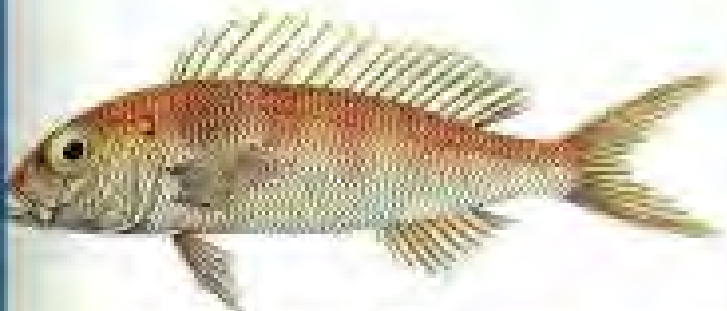
Nemipterus tofu 325
7, 8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



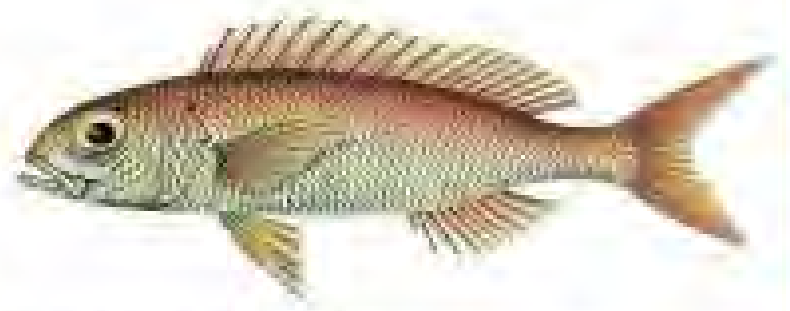
Nemipterus balneensis 326
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



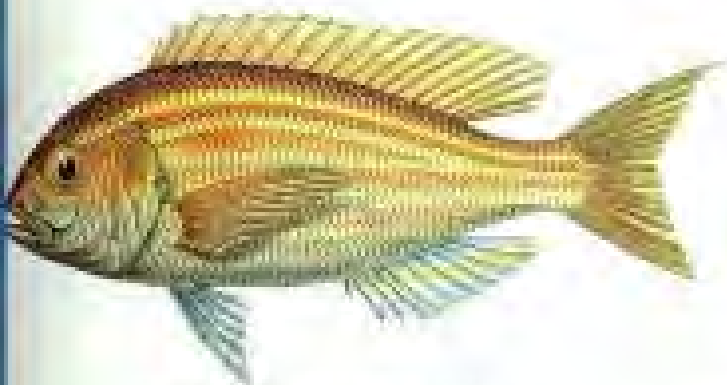
Nemipterus zyaroti 325
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Nemipterus oventi 325
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 19 cm 200L



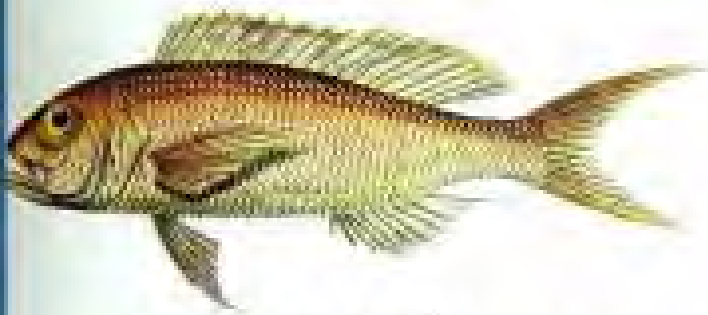
Nemipterus melopias 325
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



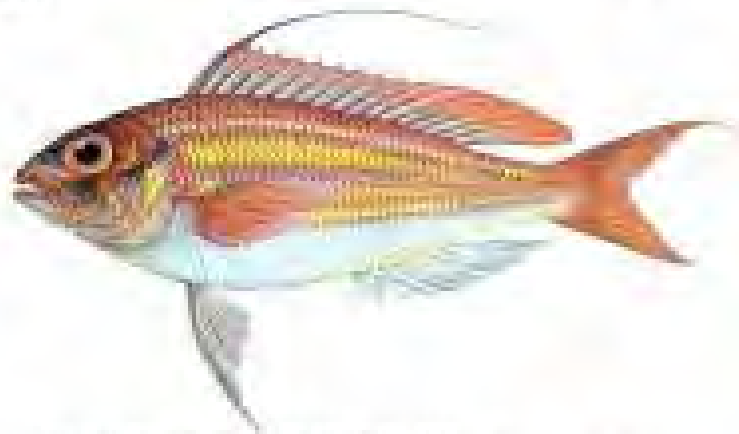
Nemipterus japonicus 325
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Nemipterus nematophorus 325
7 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Nemipterus herodon 325
 7 ~ ♀ ♂ 26°C sg: 1.022 30 cm 300L



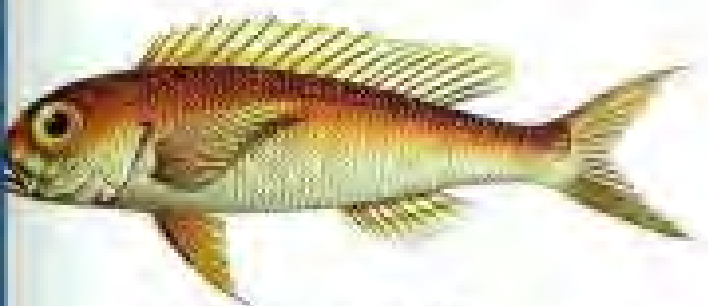
Nemipterus nematophorus 325
 7 ~ ♀ ♂ 26°C sg: 1.022 25 cm 300L



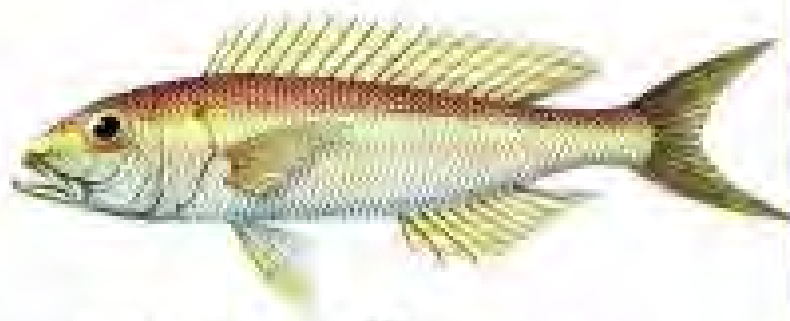
Nemipterus sp. 325
 ~ ♀ ♂ 26°C sg: 1.022



Nemipterus sp. 325
 ~ ♀ ♂ 26°C sg: 1.022



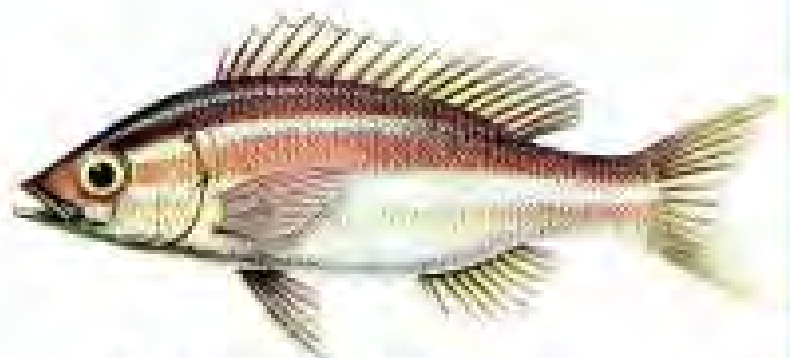
Nemipterus nemurus 325
 7 ~ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Nemipterus celebicus 325
 7 ~ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Pentapodus caninus (juv.) 325
 7, 9 ~ ♀ ♂ 26°C sg: 1.022 28 cm 300L



Pentapodus bifasciatus 325
 7 ~ ♀ ♂ 26°C sg: 1.022 20 cm 200L

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Scolopsis margaritifera 325
7.9 ~ 10.0 cm 26°C sg: 1.022 25 cm 300L

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Scolopsis margaritifera 325
7.9 ~ 10.0 cm 26°C sg: 1.022 25 cm 300L



Nemipterus virgatus 325
7.9 ~ 10.0 cm 26°C sg: 1.022 30 cm 300L



Nemipterus hexodon 325
7.9 ~ 10.0 cm 26°C sg: 1.022 30 cm 300L



Equetus acuminatus 326
2.5 ~ 3.0 cm 26°C sg: 1.022 23 cm 300L



Equetus acuminatus 326
2.5 ~ 3.0 cm 26°C sg: 1.022 23 cm 300L



Equetus acuminatus 326
2.5 ~ 3.0 cm 26°C sg: 1.022 23 cm 300L



Equetus umbratus 326
2.5 ~ 3.0 cm 26°C sg: 1.022 25 cm 300L



Equetus umbrosus 326
2 ♀ ~ 4 ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L

Equetus punctatus 326
2 ♀ ~ 4 ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L



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Equetus lanceolatus 326
2 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L

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Equetus lanceolatus (juv.) 326
2 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus punctatus 326
2 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus punctatus 326
2 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus viola 326
3 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus viola 326
3 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus punctatus 326
2 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Equetus viola 326
3 1/2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 25 cm 300L



Menthirinus undulatus 326
3 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 71 cm 800L



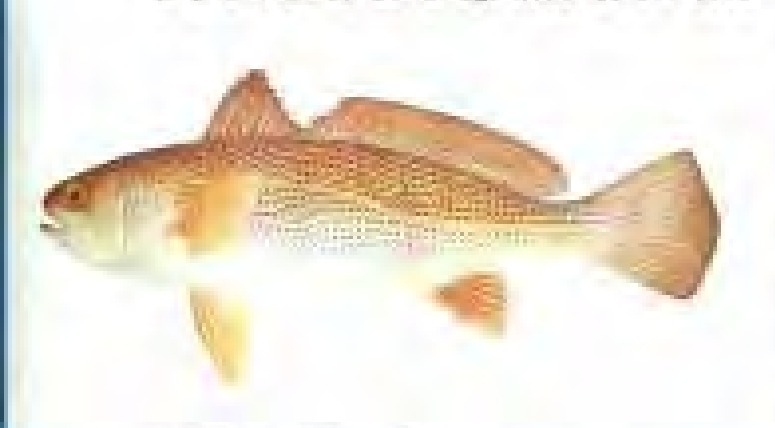
Umbrina roncador 326
3 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 51 cm 500L



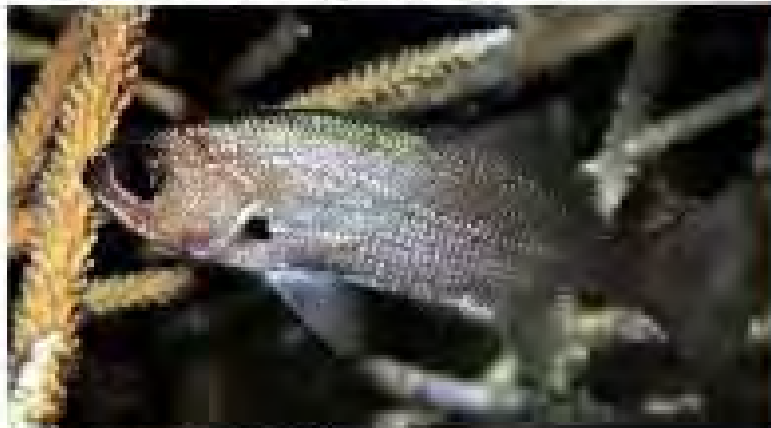
Roncador stearnsi 326
3 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 89 cm 800L



Genyonemus lineatus 326
3 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 41 cm 400L



Nibea mitsukurini 326
1 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 75 cm 800L



Odontaspion dentex 326
2 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Jabelus diacanthus 326
8 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 150 cm 2500L



Bairdiella batavana 326
2 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Parupeneus atrocingulatus 327

6-7 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 26°C sg: 1.022 25 cm 300L

Upeneichthys porcus 327

8, 11-12 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 25°C sg: 1.022 30 cm 300L



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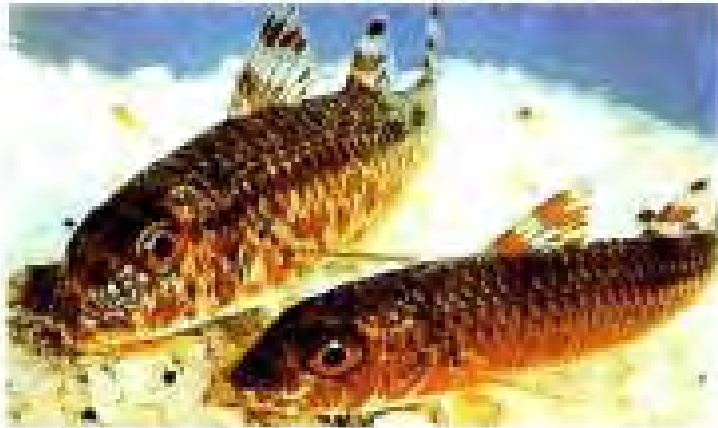


Upeneichthys lineatus 327
11-12 ~ ♀ ♂ ♀ ♂ 23°C sg: 1.024 35 cm 400L

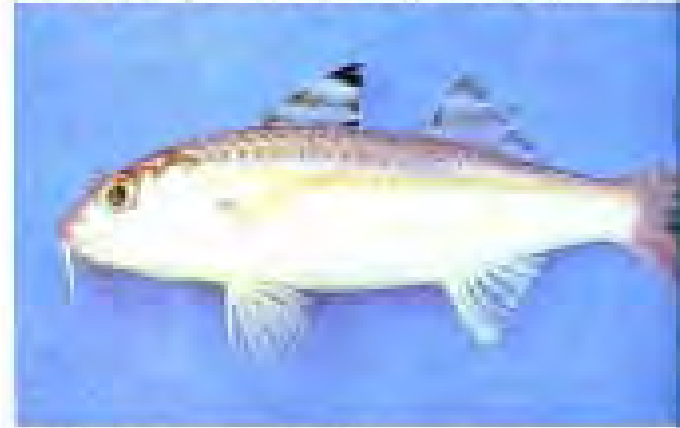
#248



Upeneichthys porosus 327
11, 12 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Upeneus benseasi 327
5, 7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



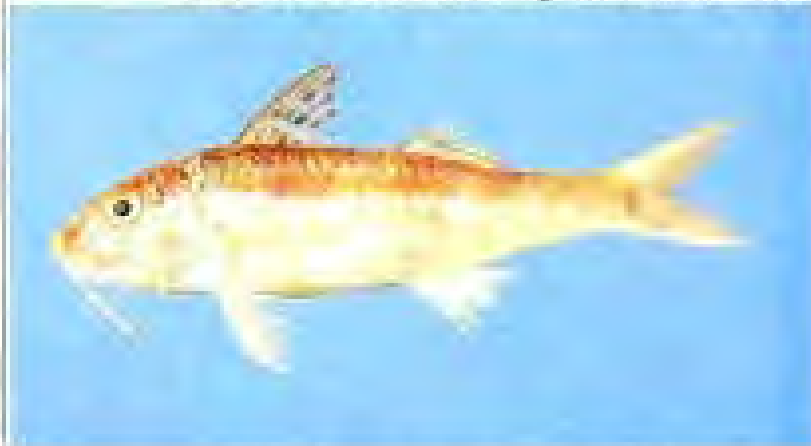
Upeneus moluccensis 327
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 23 cm 300L



Upeneus tragula 327
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Upeneus vittatus 327
7, 9-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Pseudupeneus grandisquamis 327
3 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Pseudupeneus maculatus 327
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



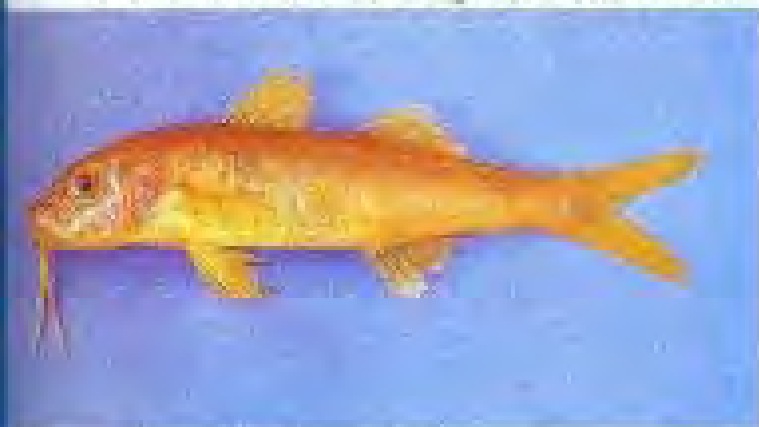
Mulloides dentatus 327
3 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 30.5 cm 400L

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Mulloides martinicus 327
2 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 40 cm 400L



Mulloides pflugeri 327
7 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 30 cm 300L



Mulloides flavolineatus 327
7-10 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 40 cm 400L



Parupeneus multifasciata 327
7 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 30 cm 300L



Parupeneus atrocinctatus 327
6-7 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 25 cm 300L



Pseudupeneus prayensis 327
13 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 21 cm 200L



Parupeneus pleurosigma 327
6-10 ♀ ~♂ ~● ~♥ ~□ ~□ 26°C sg: 1.022 25 cm 300L



Parupeneus atrorubrolineatus 327
6-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Parupeneus dinnabarrina 327
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 28 cm 300L



Parupeneus forsskali 327
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 28 cm 300L



Parupeneus indicus 327
5-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Parupeneus chrysopleuron 327
7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Parupeneus cyclostomus 327
7-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Parupeneus pleurotaenia 327
6-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 300L



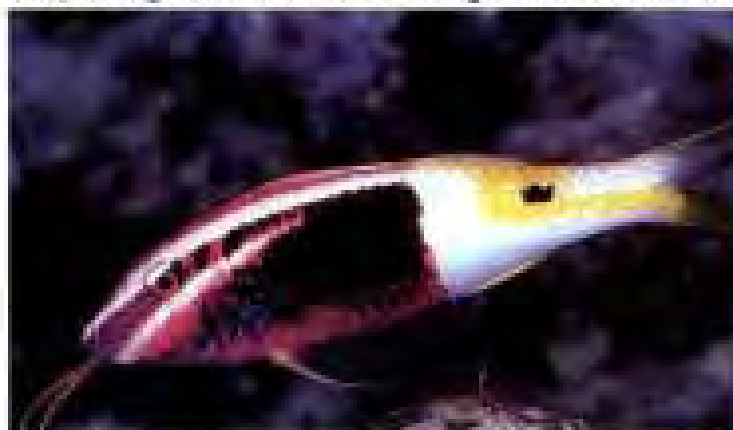
Parupeneus porphyreus 327
6-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 31 cm 300L



Mulloides vanicolensis 327
6-7, 9-10 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 38 cm 400L



Mulloides vanicolensis 327
6-7, 9-10 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 38 cm 400L



Parupeneus barberinoides 327
6-7 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 25 cm 300L



Parupeneus barberinus 327
7-10 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 50 cm 500L



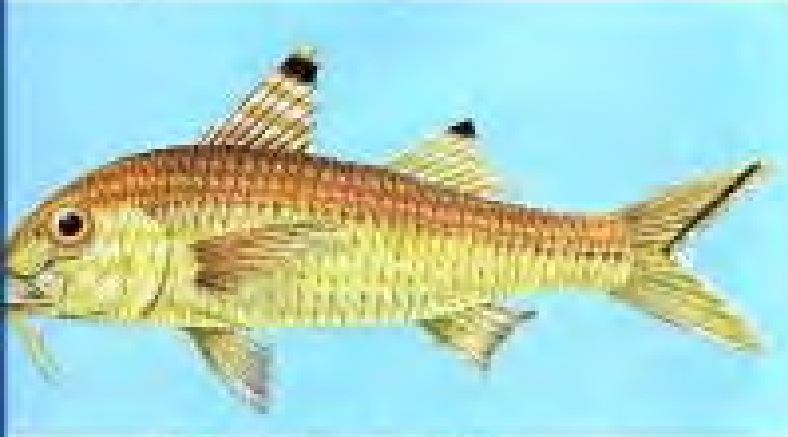
Parupeneus bifasciatus 327
7 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 40 cm 400L



Parupeneus cyclostomus 327
7, 9 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 52 cm 500L



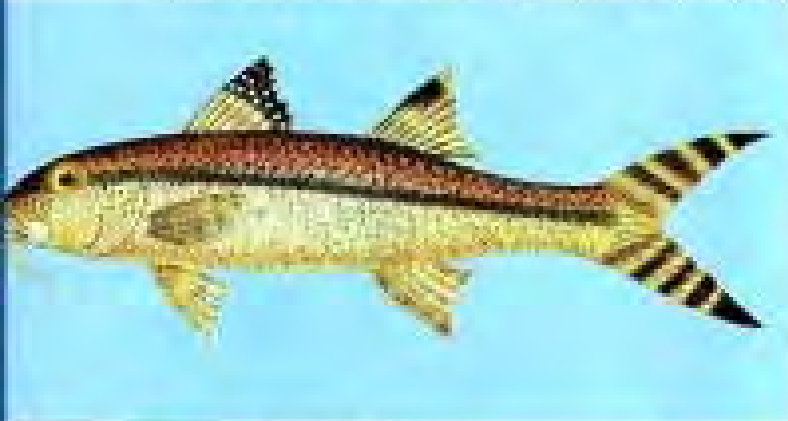
Parupeneus cyclostomus 327
7, 9 ♀ ~♂ ●♥☐☐ 26°C sg: 1.022 52 cm 500L



Upeneus sulphureus 327
7-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Upeneus vittatus 327
7, 9-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Upeneus fragula 327
7-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Upeneus moluccensis 327
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 17 cm 200L



Mulloides flavolineatus 327
5, 7, 9-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



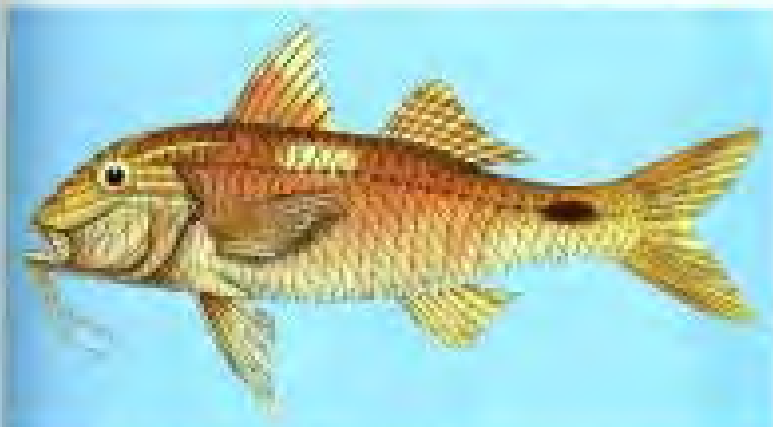
Upeneus sundanicus 327
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 22 cm 200L



Mulloides flavolineatus 327
5, 7, 9-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Mulloides vanicolensis 327
6-7, 9-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 38 cm 400L



Parupeneus indicus 327
5-9 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 40 cm 400L



Parupeneus pleurostigma 327
6-10 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



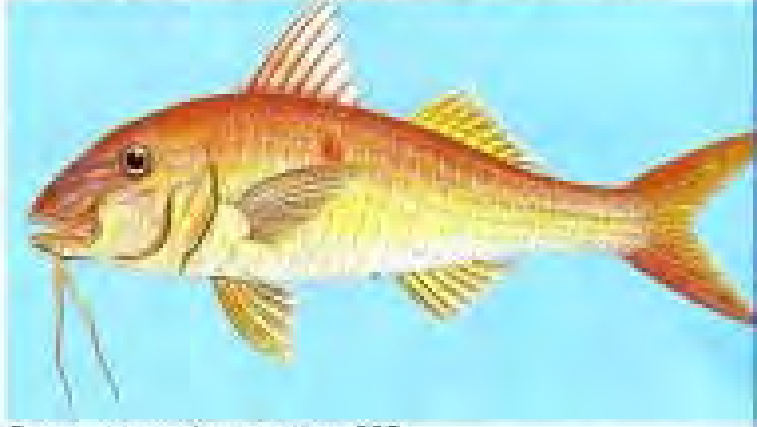
Parupeneus barberinus 327
7-10 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Parupeneus macronema 327
7 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



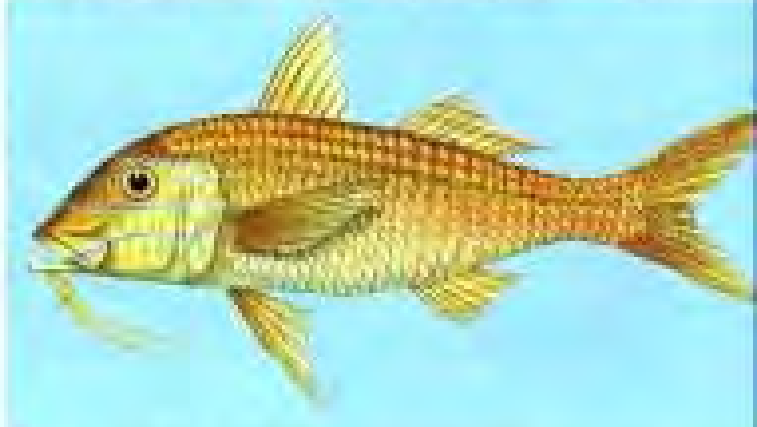
Parupeneus pleurospilus 327
7-10 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Parupeneus pleurospilus 327
7-10 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Parupeneus barberinoides 327
6-7 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Parupeneus luteus 327
7 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Schuettea woodwardi 328
12 ♀ ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.023 6 cm 100L



Monodactylus sebae 328
9 ♀ ~ ♀ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.018 20 cm 200L



Parapriacanthus unelai 329
12 ♀ ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.023 7 cm 100L



Parapriacanthus dispar 329
11-12 ♀ ~ ♀ ♂ ♀ ♀ ♀ 23°C sg: 1.024 8 cm 100L



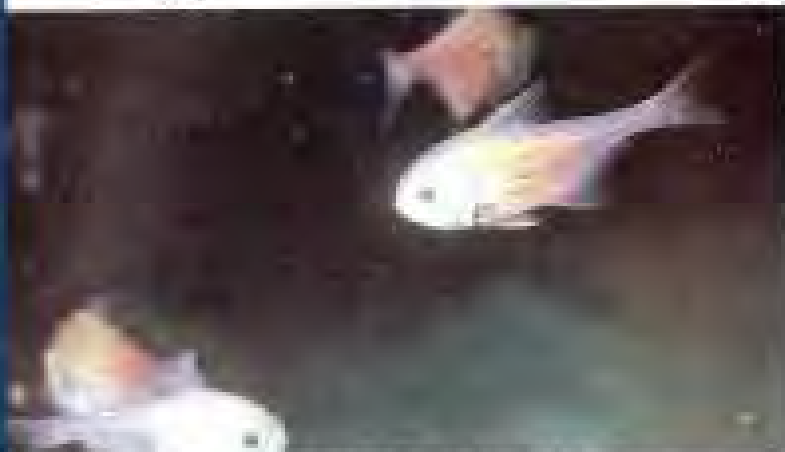
Pempheris ovalis 329
5-7, 9 ♀ ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Pempheris japonica 329
5, 7 ♀ ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



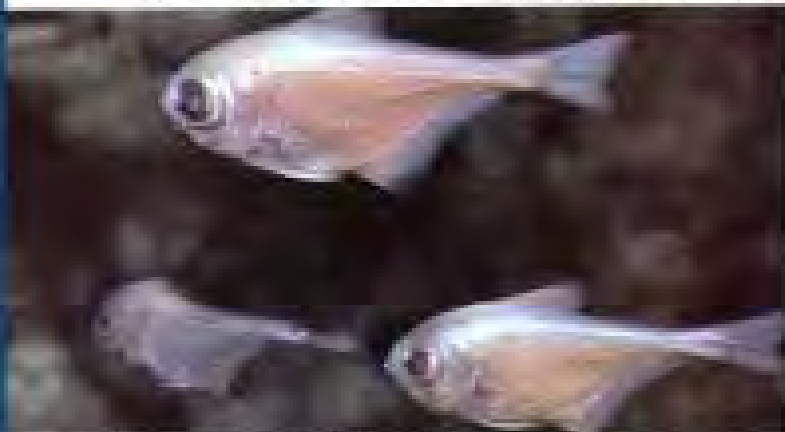
Pempheris analis 329
12 ♀ ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.023 12 cm 100L



Pempheris multiradiata (juv.) 329
12 ♀ ~ ♂ ♀ ♀ ♀ 23°C sg: 1.024 16 cm 80L



Pempheris schomburgki 329
2 ♀ ~ ♂ ♀ ♀ ♀ 25°C sg: 1.022 15 cm 200L



Pempheris adspersa 329
11-12 ♀ ~ ♂ ♀ ♀ ♀ 23°C sg: 1.023 16 cm 80L



Pempheris analis 329
12 ♀ ~ ♂ ♀ ♀ ♀ 24°C sg: 1.023 12 cm 100L



Pempheris cf japonicus 329
5, 7 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Pempheris compressa 329
12 ♀ ~ ♂ ♀ ♀ ♀ 23°C sg: 1.022



Pempheris klunzingeri 329
12 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Pempheris schwenki 329
7-9 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



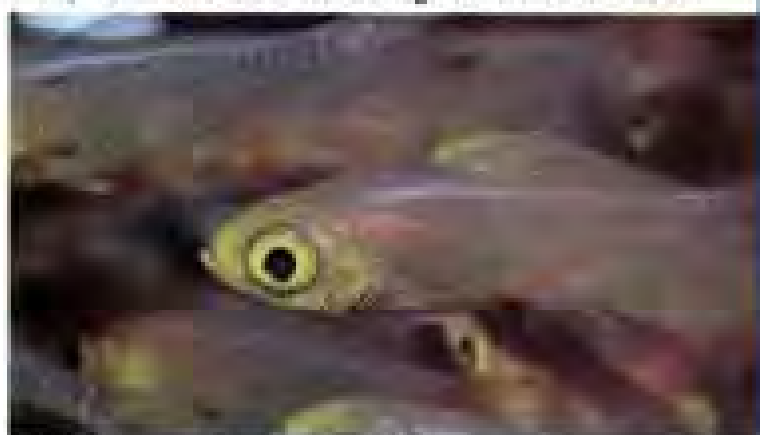
Archamia mozambiquensis 297
♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 8 cm 600L



Sphaeramia orbicularis 297
7-9 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 12 cm 150L



Parapriacanthus ransonneti 329
5-10 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 75 cm 800L



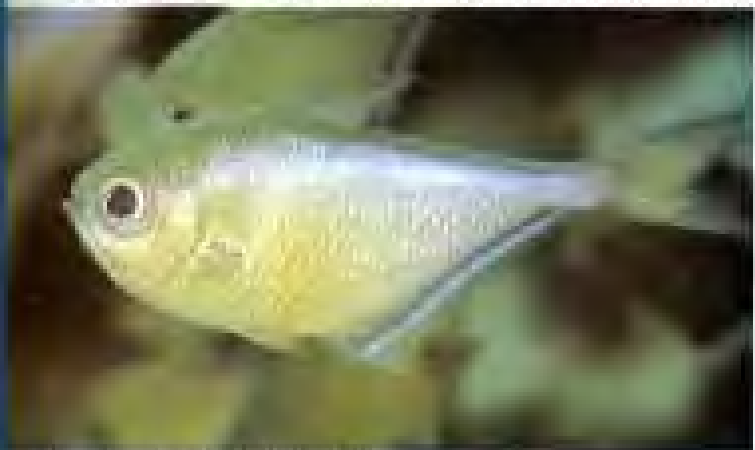
Parapriacanthus ransonneti 329
5-10 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 75 cm 800L



Pempheris vanicolensis 329
7 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 20 cm 200L



Pempheris vanicolensis 329
7 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 20 cm 200L



Pempheris oualensis 329
6-7, 9 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 30 cm 300L



Ambassis nana 329
9 ♀ ♀ ♀ ♀ ♀ ♂ ♂ ♂ ♂ ♂ 26°C sg: 1.022 9 cm 100L



Microcaninus striatus 334
5.7" → ← ◯ ▼ ■ ☼ ☾ 26°C sg: 1.022 20 cm 200L



Arypichthys strigatus 334
11-12 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 23°C sg: 1.024 16 cm 200L



Arypichthys latus 334
11-12 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 24°C sg: 1.023 13 cm 150L



Girella punctata 334
5-7 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 24°C sg: 1.023 55 cm 600L



Girella nigricans 334
3 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 26°C sg: 1.022 66 cm 800L



Girella tephrocops 334
12 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 24°C sg: 1.023 15 cm 200L



Girella simplicoides 334
3 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 26°C sg: 1.022 46 cm 500L



Girella mezzina 334
6-7 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 25°C sg: 1.022 11 cm 100L



Hermisilla azurea 334
3 ♀ ~♂ ◯ ♥ ♣ ☞ ☞ 26°C sg: 1.022 44 cm 500L



Tilodon sexfasciatum 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 30 cm 300L



Tilodon sexfasciatum 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 30 cm 300L



Kyphosus cornelli 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 38 cm 400L



Kyphosus sydneyanus 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 80 cm 1000L



Girella zebra 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 30 cm 300L



Microcanthus strigatus 334
 5-7 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 26°C sg: 1.022 30 cm 300L



Neoglyphis obliquus 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.024 14 cm 150L



Scorpio georgianus 334
 12 ♀ + 1 ♂ + 0 ♀ + 0 ♂ 23°C sg: 1.022 35 cm 400L

328



Medialuna californiensis 334
3 ♀ ~ + ♂ ♀ 26°C sg: 1.022 48 cm 500L

#357



Scorpius aequiplinnis 334
11 ♀ ~ + ♂ ♀ 22°C sg: 1.024 40 cm 400L



Kyphosus analogus 334
3 ♀ ~ + ♂ ♀ 26°C sg: 1.022 45 cm 500L



Kyphosus elegans 334
2 ♀ ~ + ♂ ♀ 26°C sg: 1.022 38 cm 400L



Kyphosus sp. 334
2 ♀ ~ + ♂ ♀ 26°C sg: 1.022 32 cm 300L



Kyphosus cinerascens (golden form) 334
7-10 ♀ ~ + ♂ ♀ 26°C sg: 1.022 50 cm 500L



Kyphosus incisus 334
2 ♀ ~ + ♂ ♀ 26°C sg: 1.022 30 cm 300L



Kyphosus seclatrix 334
2 ♀ ~ + ♂ ♀ 26°C sg: 1.022 35 cm 800L



Kyphosus fuscus 334
6 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.022 60 cm 600L



Kyphosus gibsoni 334
7 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.022 20 cm 200L



Kyphosus fuscus 334
6 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.022 60 cm 600L



Kyphosus sydneyanus 334
12 ♀ ~♂ + 0 ♀ 飼 23°C sg: 1.024 80 cm 1000L



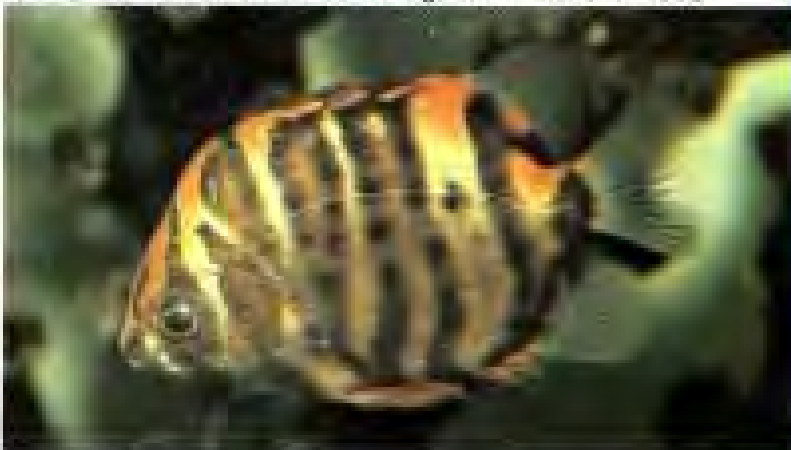
Scatophagus argus 336
7, 9 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.015 35 cm 400L



Scatophagus tetracanthus 336
7, 9 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.022 40 cm 400L



Selenofoca multifasciata 336
7 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.015 40 cm 400L



Scatophagus argus 336
7, 9 ♀ ~♂ + 0 ♀ 飼 26°C sg: 1.015 35 cm 400L



Chaetodipterus faber 335
1-2 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 91 cm 1000L



Chaetodipterus faber 335
1-2 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 91 cm 1000L



Chaetodipterus zonatus 335
3 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 65 cm 800L



Drepane punctata 335
7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Epiplatys orbis 335
7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Zebidius novemaculeatus 335
7-8 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Platax orbicularis 335
7-10 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Platax pinnatus 335
7, 9-10 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Platax batavianus 335
7-8 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Platax orbicularis 336
7-10 ♀ 尾 4 半 尾 28°C 体: 1.022 50 cm 500L



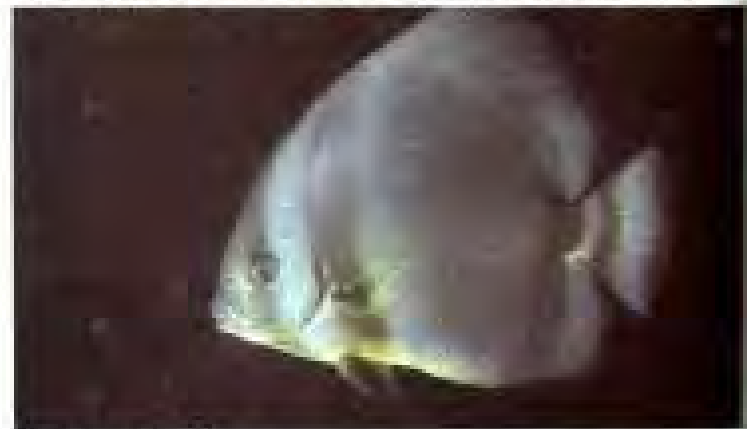
Eupomacentrus armatus 340
12 ♀ ~ + 0 ♀ ~ 23°C sg: 1.024 12 cm 150L



Pentaceropsis recurvirostris 341
12 ♀ ~ + 0 ♀ ~ 23°C sg: 1.024 50 cm 500L



Drepane punctata 335
7, 9 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 40 cm 400L



Platax teira 335
7-10 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 50 cm 500L



Platax teira 335
7-10 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 50 cm 500L



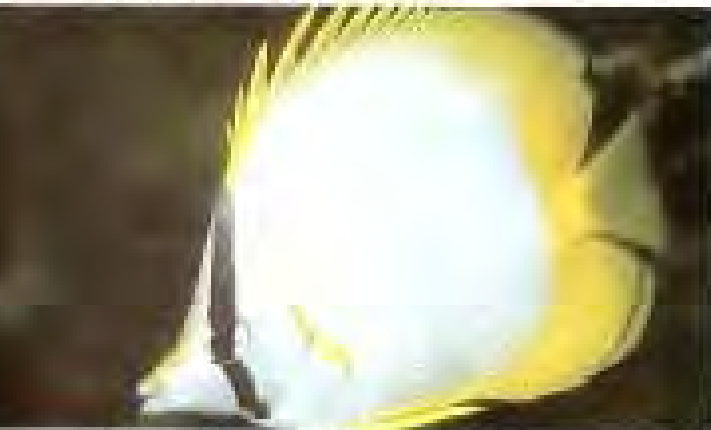
Platax teira 335
7-10 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 50 cm 500L



Chaetodon daedalus 338
5.7 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 15 cm 200L



Chaetodon quadrimaculatus 338
6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon ocellatus 338
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Chaetodon robustus 338
13 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Zanclus cornutus 341
11 ~ ♀ ♂ ♀ ♂ 22°C sg: 1.022 30 cm 300L



Pentaceros japonicus 341
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Eviotas acutirostris 341
5-6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 600L



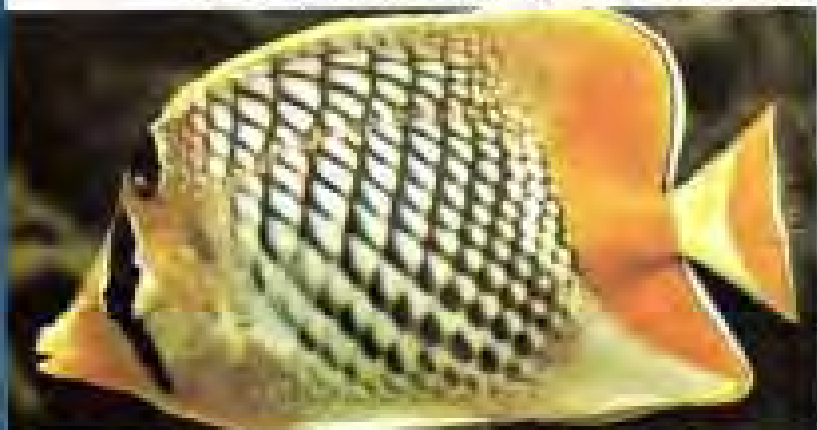
Eviotas acutirostris 341
5-6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 600L



Chaetodon declivis 338
6~8 〇 ♀ 〇 26°C sg: 1.022 15 cm 200L



Chaetodon argentatus 338
7~8 〇 ♀ 〇 26°C sg: 1.022 13 cm 200L



Chaetodon xanthurus 338
7~8 〇 ♀ 〇 26°C sg: 1.022 15 cm 200L



Chaetodon martensii 338
6-8 〇 ♀ 〇 26°C sg: 1.022 14 cm 200L



Chaetodon trifasciatus 338
6-10 〇 ♀ 〇 26°C sg: 1.022 15 cm 200L



Chaetodon baronessa 338
6-8 〇 ♀ 〇 26°C sg: 1.022 15 cm 200L



Chaetodon trifasciatus 338
6-10 〇 ♀ 〇 26°C sg: 1.022 17 cm 200L



Chaetodon reticulatus 338
6-7 〇 ♀ 〇 26°C sg: 1.022 18 cm 200L



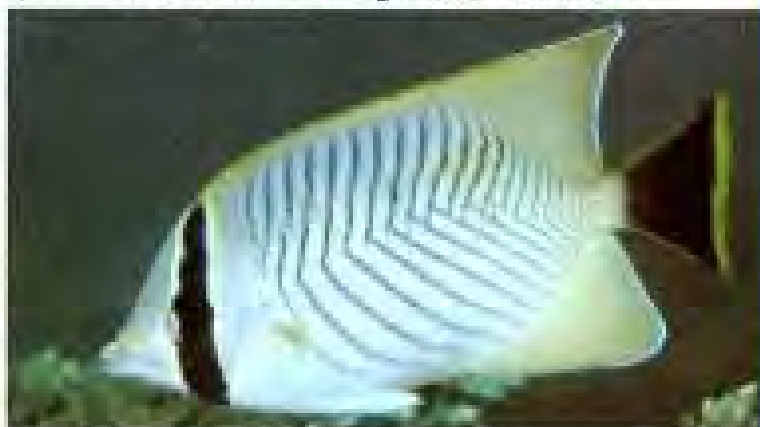
Chaetodon triangulum 338
9 ~ ♀ 25°C sg: 1.022 14 cm 200L



Chaetodon larvatus 338
9, 10 ~ ♀ 26°C sg: 1.023 14 cm 200L



Chaetodon leucopireus 338
9 ~ ♀ 26°C sg: 1.022 19 cm 200L



Chaetodon trifascialis 338
6-10 ~ ♀ 26°C sg: 1.022 15 cm 200L



Chaetodon paucifasciatus 338
8-10 ~ ♀ 26°C sg: 1.023 15 cm 200L



Chaetodon madagascariensis 338
9 ~ ♀ 26°C sg: 1.022 15 cm 200L



Chaetodon melanopus 338
5-10 ~ ♀ 25°C sg: 1.022 17 cm 200L



Chaetodon ocellicaudus 338
6-7, 9 ~ ♀ 26°C sg: 1.022 13 cm 200L

338

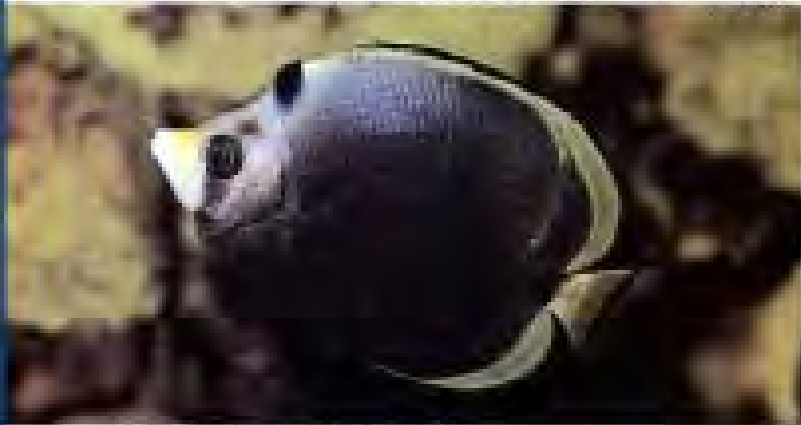


Chaetodon wiebelli 338
7 ~ ♀ ♂ 26°C sg: 1.022 19 cm 200L

#267



Chaetodon auripes 338
5, 7 ~ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Chaetodon flavicastris 338
6, 8, 12 ~ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Chaetodon adiergastes 338
7 ~ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Chaetodon nigropunctatus 338
9 ~ ♀ ♂ 26°C sg: 1.022 16 cm 200L



Chaetodon mesoleucos 338
10 ~ ♀ ♂ 26°C sg: 1.030 15 cm 200L



Chaetodon sefene 338
7 ~ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Chaetodon gardneri 338
9 ~ ♀ ♂ 26°C sg: 1.022 12 cm 200L



Chaetodon meyeri 338
6-7, ♀ ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 18 cm 200L

#268

339



Chaetodon ornatissimus 338
6-8 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 19 cm 200L



Chaetodon nigropunctatus 338
9 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 16 cm 200L



Chaetodon ocofasciatus 338
7-9 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 13 cm 200L



Chaetodon lineolatus 338
6-10 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 29 cm 400L



Chaetodon oxycephalus 338
7-9 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 22 cm 300L



Chaetodon plebeius 338
6-9 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 19 cm 200L



Chaetodon plebeius 338
6-9 ~♂ ◯ ♡ 🐠 🐡 🐢 26°C sg: 1.022 19 cm 200L

340



Chaetodon aureofasciatus 338
7-8 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 200L

#209



Chaetodon blackburnii 338
9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 200L



Chaetodon ulletensis 338
6-8 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 17 cm 200L



Chaetodon falcula 338
9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 29 cm 400L



Chaetodon fasciatus 338
10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.030 20 cm 200L



Chaetodon lunula 338
6-8 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 21 cm 200L



Chaetodon flavocoronatus 338
6 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 200L



Chaetodon kleinii 338
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Chaetodon assanius 338
7,12 ~ ♀ ♂ 26°C sg: 1.022 14 cm 200L



Chaetodon dolosus 338
9 ~ ♀ ♂ 26°C sg: 1.022 14 cm 200L



Chaetodon melapterus 338
9-10 ~ ♀ ♂ 26°C sg: 1.022 14 cm 200L



Chaetodon austriacus 338
10 ~ ♀ ♂ 26°C sg: 1.030 16 cm 200L



Chaetodon bennetti 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon trifasciatus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Chaetodon citrinellus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 13 cm 200L



Chaetodon collare 338
7, 9 ~ ♀ ♂ 26°C sg: 1.022 18 cm 200L

342



Chaetodon sedentarius 338
2 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 17 cm 200L

#271



Chaetodon sanctaehelenae 338
13 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Chaetodon incrowi 338
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 14 cm 200L



Chaetodon fremblii 338
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon litus 338
Easter Is. ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon hamichrysus 338
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Chaetodon pelewensis 338
6-7 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 13 cm 200L



Chaetodon multicinctus 338
6 ~ ♀ ♂ ♀ ♀ ♂ 26°C sg: 1.022 15 cm 200L

344

#273



Chaetodon guttatissimus 338
9-10 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon punctatofasciatus 338
6-7 ~ ♀ ♂ 26°C sg: 1.022 13 cm 200L



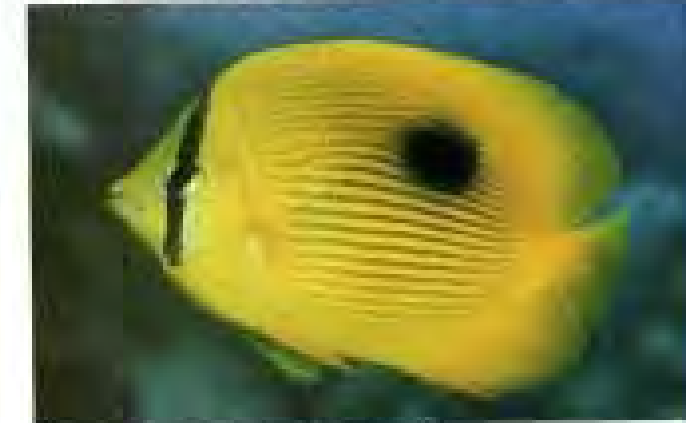
Chaetodon semilarvatus 338
10 ~ ♀ ♂ 26°C sg: 1.030 19 cm 200L



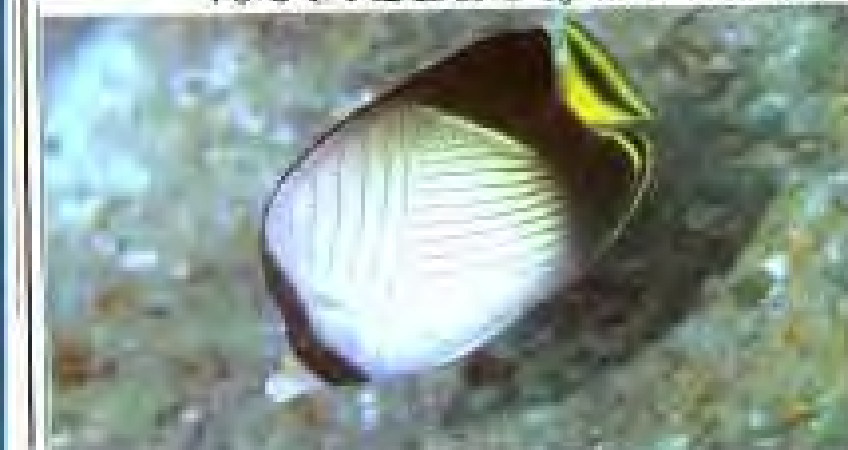
Chaetodon semeion 338
6-7.9 ~ ♀ ♂ 26°C sg: 1.022 22 cm 300L



Chaetodon speculum 338
7-8 ~ ♀ ♂ 26°C sg: 1.022 16 cm 200L



Chaetodon zanzibariensis 338
9 ~ ♀ ♂ 26°C sg: 1.022 16 cm 200L



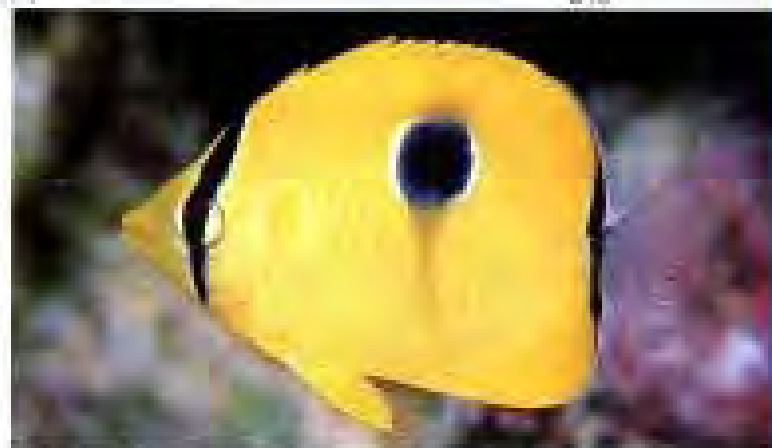
Chaetodon decussatus 338
8 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Chaetodon vagabundus 338
6-10 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Chaetodon unimaculatus 338
6-9 ~r ◯ ♀ 26°C sg: 1.022 20 cm 200L



Chaetodon unimaculatus 338
6-9 ~r ◯ ♀ 26°C sg: 1.022 20 cm 200L



Chaetodon mitratus 338
9 ~r ◯ ♀ 26°C sg: 1.022 14 cm 200L



Chaetodon marleyi 338
9 ~r ◯ ♀ 26°C sg: 1.022 28 cm 300L



Chaetodon xanthocephalus 338
9 ~r ◯ ♀ 26°C sg: 1.022 21 cm 200L



Chaetodon hippium 338
6-9 ~r ◯ ♀ 26°C sg: 1.022 21 cm 300L



Chaetodon auriga 338
6-10 ~r ◯ ♀ 26°C sg: 1.022 19 cm 200L



Chaetodon rafflesi 338
6-9 ~r ◯ ♀ 26°C sg: 1.022 17 cm 200L

346



Chaetodon dichrous 338
13 ~ ♀ ♀ 26°C sg: 1.022 15 cm 200L

#275



Chaetodon scufatus 338
2 ~ ♀ ♀ 26°C sg: 1.022 12 cm 150L



Chaetodon nippon 338
5, 7 ~ ♀ ♀ 26°C sg: 1.022 17 cm 200L



Chaetodon modestus 338
5, 7 ~ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Chaetodon excelsa 338
6 ~ ♀ ♀ 25°C sg: 1.022 15 cm 200L



Chaetodon jayakeri 338
9 ~ ♀ ♀ 26°C sg: 1.022 14 cm 200L



Chaetodon burgessi 338
6 ~ ♀ ♀ 25°C sg: 1.022 11 cm 150L



Chaetodon linkeri 338
6 ~ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Coradion chrysozonus 338
 7 ~ ♀ ♂ 26°C sg: 1.022 12 cm 150L



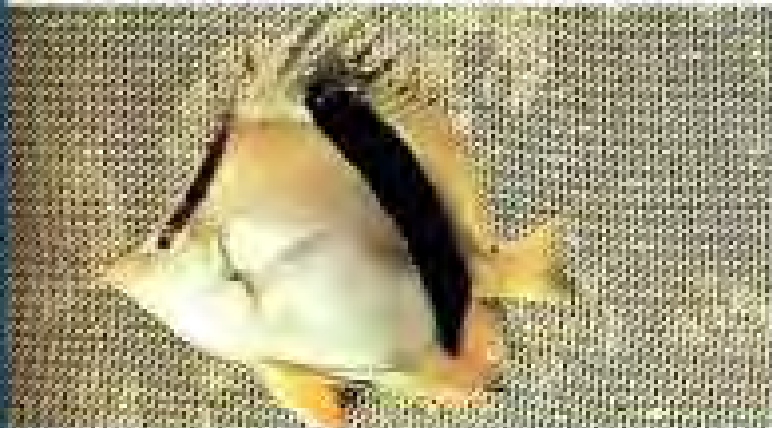
Coradion althreia 338
 7-8 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Pseudochaetodon nigrirostris 338
 3 ~ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Coradion melanopus 338
 7 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon aya 338
 2 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon falco 338
 3 ~ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Chaetodon guyanensis 338
 2 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Chaetodon marcellae 338
 13 ~ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Heniochus pleurotaenia 338
9~10 ~ ♀ ♂ 26°C sg: 1.022 16 cm 200L



Heniochus acuminatus 338
6-10 ~ ♀ ♂ 26°C sg: 1.022 20 cm 200L



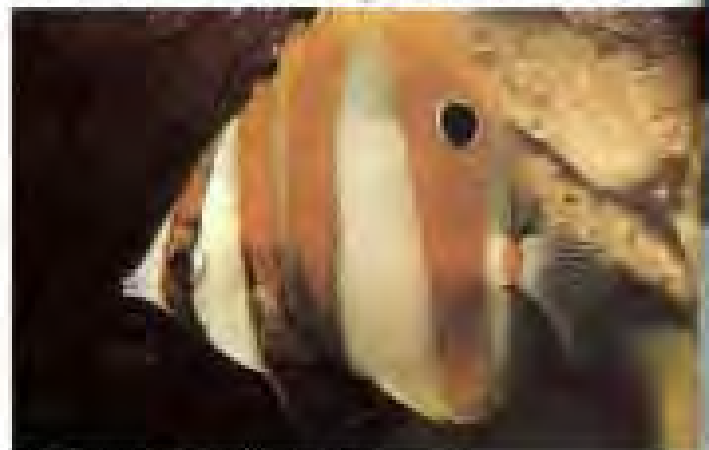
Chelmon marginalis 338
7 ~ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Parachaetodon ocellatus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Chelmonops truncatus 338
8, 12 ~ ♀ ♂ 23°C sg: 1.022 23 cm 250L



Coradion chrysozonus 338
7 ~ ♀ ♂ 26°C sg: 1.022 12 cm 150L

350



Amphichaetodon melbae 338
3 ~ ♀ ♂ 23°C sg: 1.022 16 cm 200L

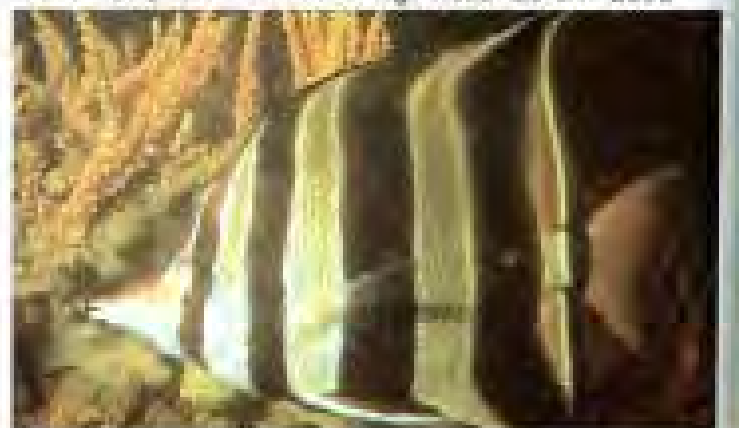
#279



Amphichaetodon howensis 338
11-12 ~ ♀ ♂ 23°C sg: 1.022 20 cm 200L



Cheilmonops truncatus 338
8, 12 ~ ♀ ♂ 23°C sg: 1.022 23 cm 250L



Cheilmonops truncatus 338
8, 12 ~ ♀ ♂ 23°C sg: 1.022 23 cm 250L



Cheilmon rostratus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Cheilmon muelleri 338
7-8 ~ ♀ ♂ 26°C sg: 1.022 15 cm 150L



Cheilmon rostratus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Parachaetodon ocellatus 338
6-9 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Forcipiger longirostris 338
6-7, 9 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 27 cm 300L



Forcipiger longirostris 338
6-7, 8 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 27 cm 300L



Forcipiger longirostris 338
6-7, 9 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 27 cm 300L



Forcipiger flavissimus 338
3, 5-10 ♀ ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 26 cm 300L



Hemitaenichthys polylepis 338
8 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Hemitaenichthys zoster 338
9 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Hemitaenichthys thompsoni 338
6 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 22 cm 300L



Hemitaenichthys multilineatus 338
6 ~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 21 cm 200L

362

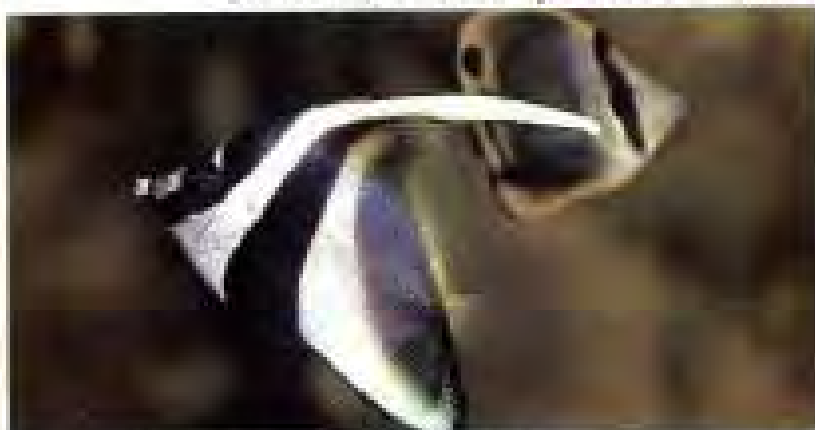


Heniochus chrysostrabus 338
6-8 ~ ♀ ♂ 26°C sg: 1.022 18 cm 300L

#281



Heniochus intermedius 338
9-10 ~ ♀ ♂ 26°C sg: 1.030 20 cm 200L



Heniochus monoceros 338
6-7, 9 ~ ♀ ♂ 26°C sg: 1.022 19 cm 300L



Heniochus singularis 338
7 ~ ♀ ♂ 26°C sg: 1.022 24 cm 300L



Heniochus varius 338
5-6 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Heniochus varius 338
5-6 ~ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Heniochus acuminatus 338
6-10 ~ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Heniochus monoceros 338
6-7, 9 ~ ♀ ♂ 26°C sg: 1.022 19 cm 200L

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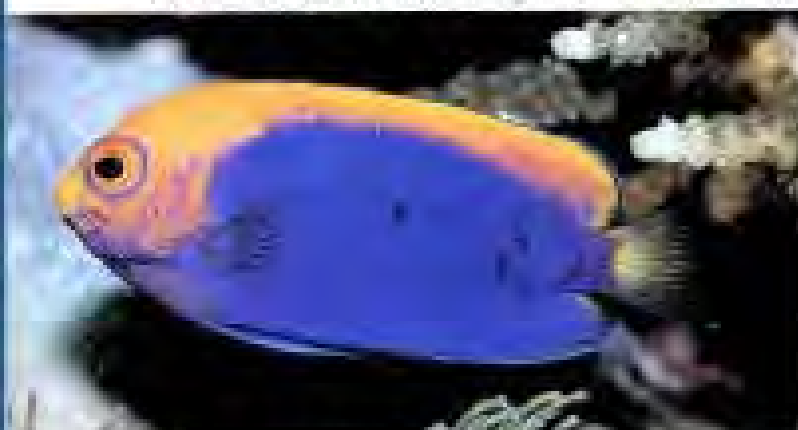


Apolectichthys trimaculatus 339
7-9 ~ + 0 ♀ ♂ 26°C sg: 1.022 30 cm 300L

#283



Apolectichthys kantharus 339
9 ~ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Centropyge acanthops 339
8 ~ + 0 ♀ ♂ 26°C sg: 1.022 8 cm 80L



Centropyge bicolor 339
7 ~ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Centropyge bispinosus 339
7-9 ~ + 0 ♀ ♂ 26°C sg: 1.022 12 cm 150L



Centropyge eibli 339
9 ~ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Centropyge flavopectoralis 339
9 ~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



Centropyge multispinis 339
9 ~ + 0 ♀ ♂ 26°C sg: 1.022 14 cm 150L

366



Centropyge resplendens 339
13½ ~ 16 + 0 ♀ ♂ 26°C sg: 1.022 7 cm 100L

#285



Centropyge suramensis 339
2½ ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 6 cm 60L



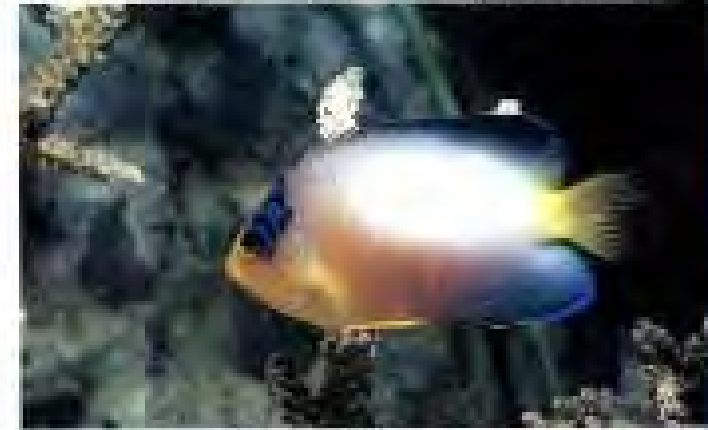
Centropyge argi 339
2½ ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 7 cm 100L



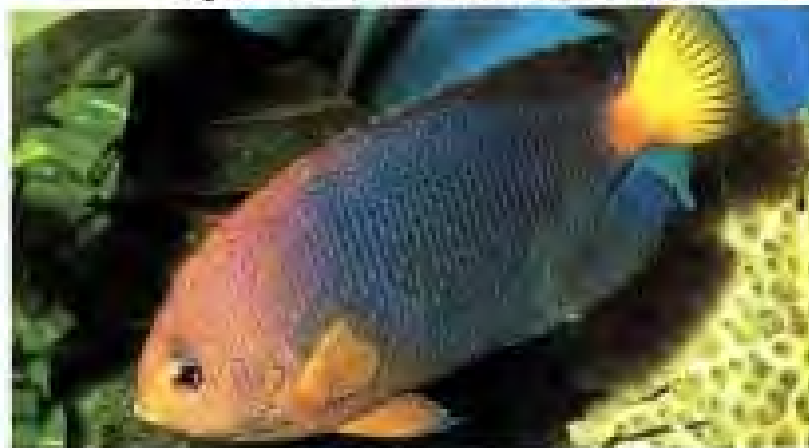
Centropyge fisheri 339
8½ ~ 11 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Centropyge hotumatua 339
6½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 9 cm 100L



Centropyge multicolor 339
6½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 8 cm 80L



Centropyge interruptus 339
5-7½ ~ 10 + 0 ♀ ♂ 26°C sg: 1.022 16 cm 200L



Centropyge flavicauda 339
7½ ~ 10 + 0 ♀ ♂ 26°C sg: 1.022 8 cm 80L



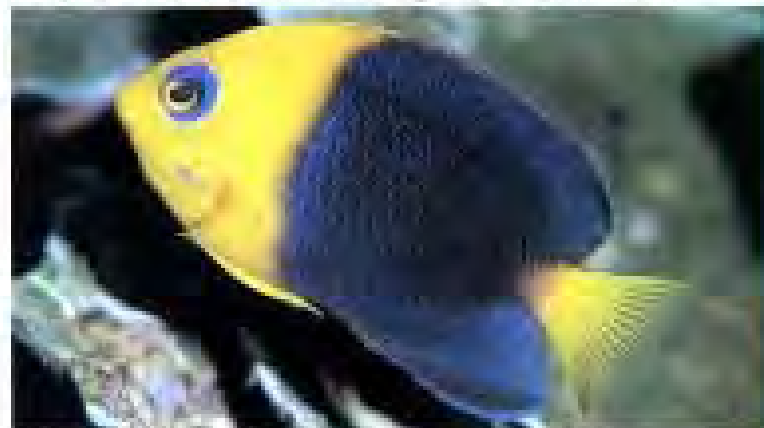
Centropyge flavissimus 339
6-7½ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Centropyge flavissimus 339
6-7½ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Centropyge multifasciatus 339
6-7½ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Centropyge joculator 339
8 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Centropyge rubicris 339
7½ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 19 cm 200L



Centropyge vrolii 339
7½ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Genicanthus caudowratus (male) 339
10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Genicanthus caudowratus 339
10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L

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#287



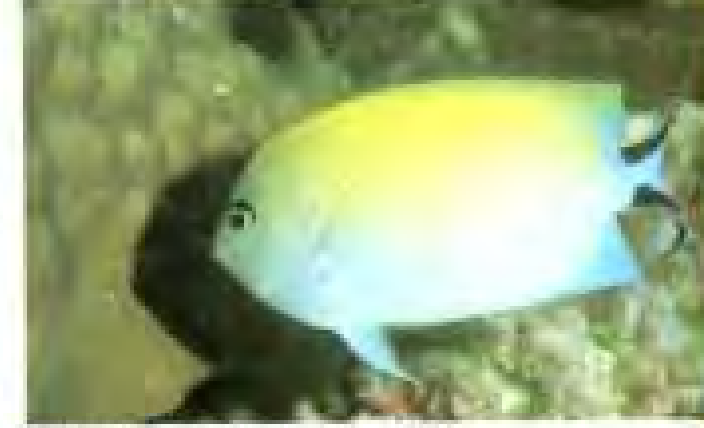
Genicanthus watanabei 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L

Genicanthus watanabei 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Genicanthus semifasciatus 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L

Genicanthus semifasciatus 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Genicanthus melanospius 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 21 cm 200L

Genicanthus melanospius 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 21 cm 200L



Genicanthus semicinctus 339
11½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L

Genicanthus semicinctus 339
11½ ~ + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L

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Genicanthus personatus 339
♂ 7 1/2 ~ 10 + 0 ♀ 10 ~ 13 @ 26°C sg: 1,022 21 cm 200L

♂ Genicanthus personatus 339
♂ 5 1/2 ~ 7 + 0 ♀ 7 ~ 10 @ 26°C sg: 1,022 21 cm 200L



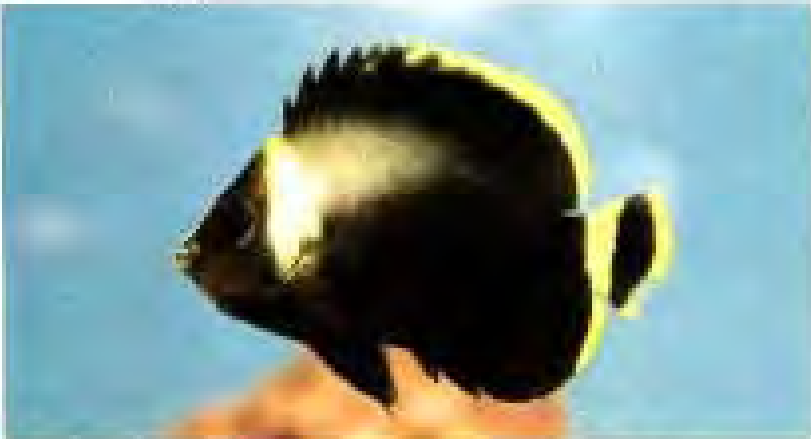
Genicanthus lamarckii 339
7.9% ~ 9 + 0 ♀ 10 ~ 13 @ 26°C sg: 1,022 24 cm 300L

♂ Genicanthus bellus 339
7 1/2 ~ 9 + 0 ♀ 10 ~ 13 @ 26°C sg: 1,022 13 cm 150L



Genicanthus bellus 339
7 1/2 ~ 9 + 0 ♀ 10 ~ 13 @ 26°C sg: 1,022 13 cm 150L

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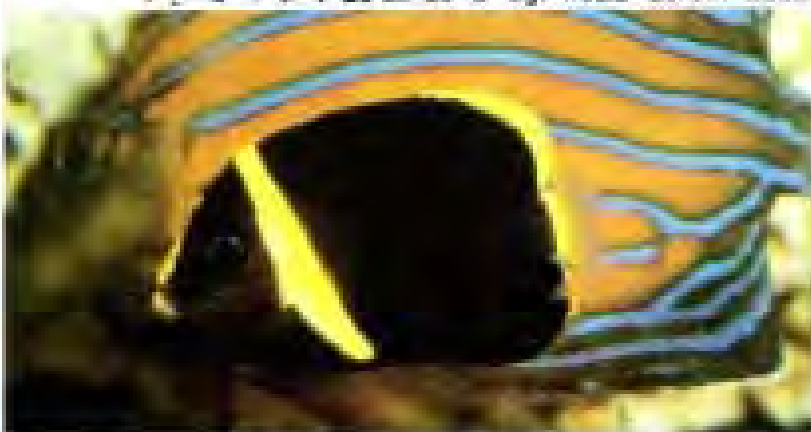


Chaetodontoplus melanosoma (juv.) 339
7½ ~ + 0 ♀ 26°C sg: 1.022 20 cm 200L

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Chaetodontoplus melanosoma 339
7½ ~ + 0 ♀ 26°C sg: 1.022 20 cm 200L



Chaetodontoplus septentrionalis (juv.) 339
7½ ~ + 0 ♀ 26°C sg: 1.022 22 cm 200L



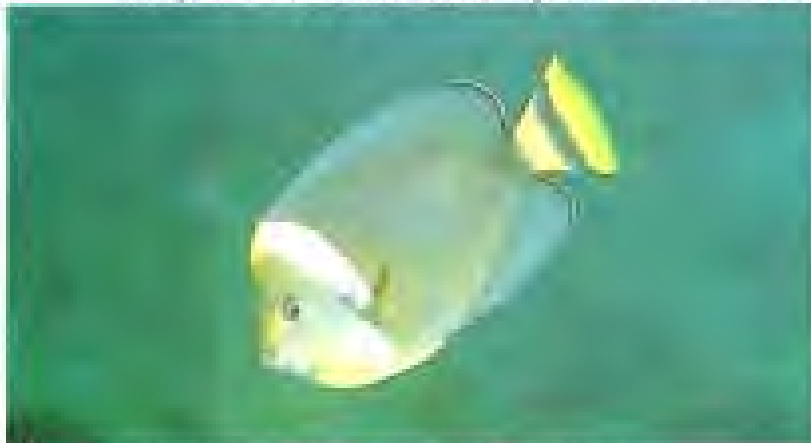
Chaetodontoplus septentrionalis 339
7½ ~ + 0 ♀ 26°C sg: 1.022 22 cm 200L



Chaetodontoplus duboulayi 339
7-8½ ~ + 0 ♀ 26°C sg: 1.022 22 cm 200L



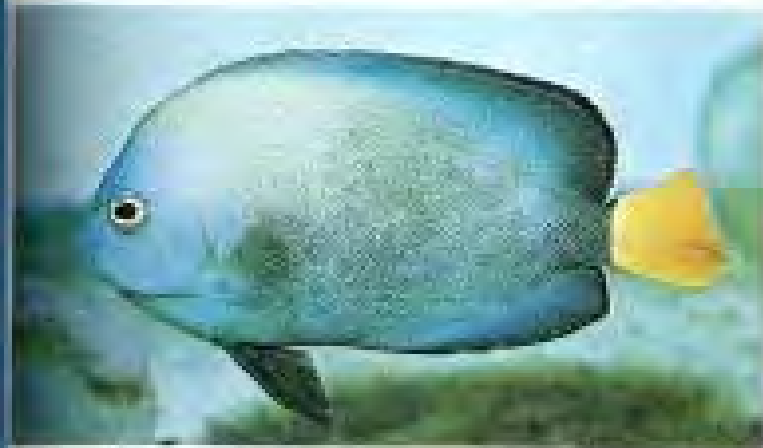
Chaetodontoplus chrysocephalus 339
7½ ~ + 0 ♀ 26°C sg: 1.022 22 cm 200L



Chaetodontoplus personifer 339
7-8½ ~ + 0 ♀ 26°C sg: 1.022 23 cm 250L



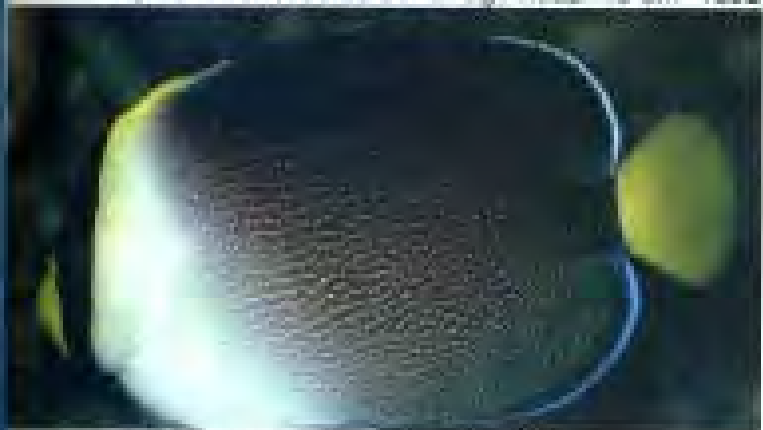
Chaetodontoplus personifer 339
7-8½ ~ + 0 ♀ 26°C sg: 1.022 23 cm 250L



Chaetodontoplus cyanopunctatus 349
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 13 cm 150L



Chaetodontoplus consociellatus 338
8½ ~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



Chaetodontoplus mesoleucus 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Chaetodontoplus mesoleucus 339
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Euxiphipops navaeohus 339 (juv)
7½ ~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



Euxiphipops xanthometopon? (juv.) 339
7-9½ ~ + 0 ♀ ♂ 26°C sg: 1.022 45 cm 500L



Euxiphipops xanthometopon 339
7-9½ ~ + 0 ♀ ♂ 26°C sg: 1.022 45 cm 500L



Pygoplites diacanthus (juv.) 339
7, 9-10½ ~ + 0 ♀ ♂ 26°C sg: 1.022 30 cm 300L

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Pomacanthus zonipectus 339
3♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 30 cm 300L

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Pomacanthus zonipectus (juv.) 339
3♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 30 cm 300L



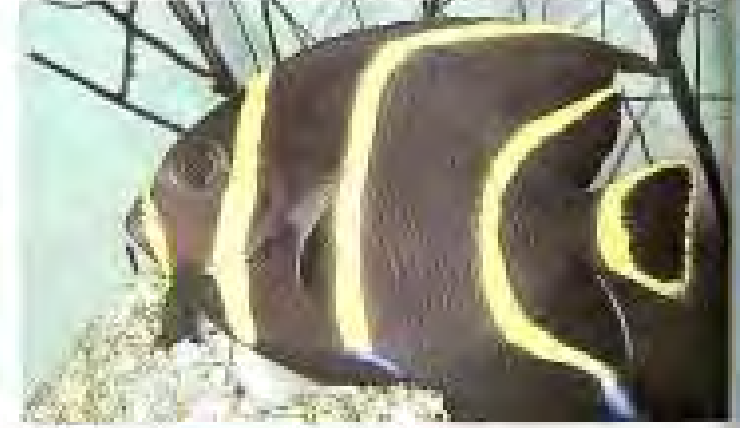
Pomacanthus paru 339
2, 13♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 40 cm 400L



Pomacanthus paru (juv.) 339
2, 13♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 40 cm 400L



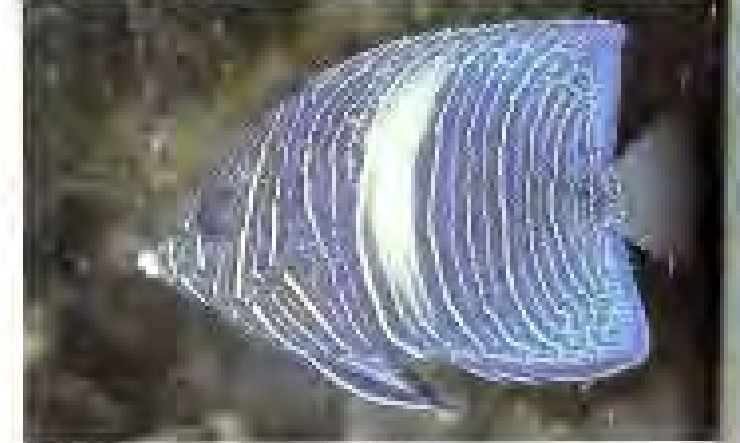
Pomacanthus arcuatus 339
2♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 36 cm 400L



Pomacanthus arcuatus (juv.) 339
2♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 36 cm 400L



Pomacanthus semicirculatus 339 (juv.)
7-10♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 45 cm 500L



Pomacanthus maculosus 339 (juv.)
9-10♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,024 40 cm 400L



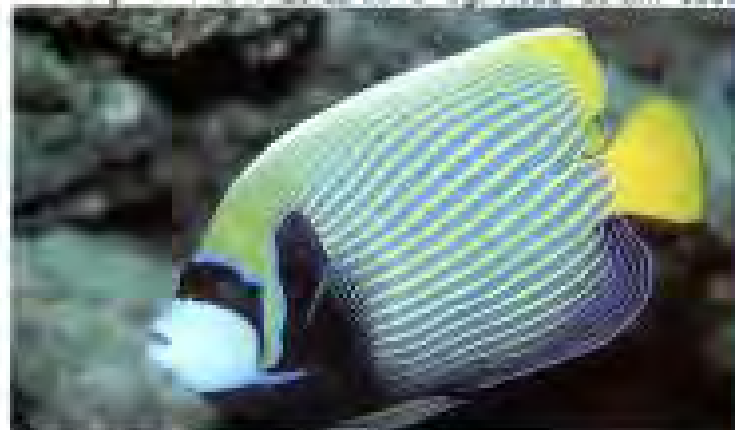
Pomacanthus annularis 339 (juv.)
9½ ~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 250L



Pomacanthus annularis 339
9½ ~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 250L



Pomacanthus imperator 339 (juv.)
6-10½ ~ + 0 ♀ ♂ 26°C sg: 1.022 38 cm 400L



Pomacanthus imperator 339
6-10½ ~ + 0 ♀ ♂ 26°C sg: 1.022 38 cm 400L



Pomacanthus maculosus 339
6-10½ ~ + 0 ♀ ♂ 26°C sg: 1.024 40 cm 400L

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Pomacanthus striatus 339
8 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L

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Pomacanthus semicirculatus 339
7-10 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Pomacanthus chrysurus 339
7, 9 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 33 cm 300L



Euxiphipops sexstriatus 339
7-9 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



Euxiphipops navarchus 339
7 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Euxiphipops xanthometapon 339
7-9 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Pygospites diacanthus 339
7, 8-10 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Arosetta asfur 339
8-10 1/2" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



Pomacanthus semicirculatus 339
7-9" ♀ + ♂ ♀ ♂ 26°C sg: 1.022 40 cm 400L



Apolemichthys arcuatus 339
6½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 17,5 cm 200L



Apolemichthys xanthurus 339
10½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,028 20 cm 200L



Apolemichthys xanthopunctatus 339
6½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 25 cm 300L



Holacanthus venustus 339
7½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 11 cm 100L



Holacanthus tricolor (juv.) 339
2½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 25 cm 300L



Holacanthus tricolor 339
2½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 25 cm 300L



Holacanthus africanus 339
13½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 18 cm 200L



Holacanthus africanus 339 (juv.)
13½ ~♂ + ♀ + ♂ ♀ 26°C sg: 1,022 18 cm 200L

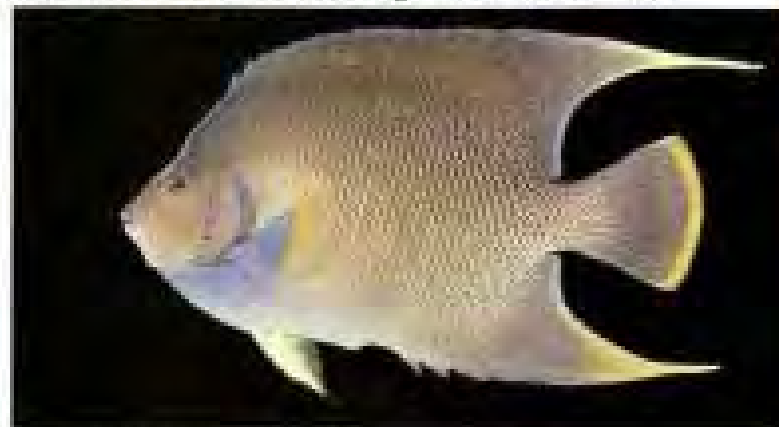
#296

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Holacanthus clarionensis 339
3½ ~r + 0 ♀ 26°C sg: 1.022 45 cm 500L

Holacanthus clarionensis 339 (juv.)
3½ ~r + 0 ♀ 26°C sg: 1.022 45 cm 500L



Holacanthus ciliaris 339
2½ ~r + 0 ♀ 26°C sg: 1.022 25 cm 300L

Holacanthus isabellita 339
2½ ~r + 0 ♀ 26°C sg: 1.022 45 cm 500L



Holacanthus ciliaris 339 (juv.)
2½ ~r + 0 ♀ 26°C sg: 1.022 25 cm 300L

Holacanthus isabellita (juv.) 339
2½ ~r + 0 ♀ 26°C sg: 1.022 45 cm 500L



Holacanthus passer 339
3½ ~r + 0 ♀ 26°C sg: 1.022 23 cm 250L

Holacanthus passer (juv.) 339
3½ ~r + 0 ♀ 26°C sg: 1.022 23 cm 250L



Girella tricuspidata 334
11~12~ ♀ ♂ ♀ ♀ ♀ ♀ 23°C sg: 1.022 50 cm 500L

#297

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Oplegnathus fasciatus 343
5~6~ ♀ ♂ ♀ ♀ ♀ ♀ 24°C sg: 1.022 80 cm 1000L



Oplegnathus punctatus 343
5~7~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 86 cm 1200L



Oplegnathus punctatus 343
5~7~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 86 cm 1200L



Amphistichus rhodoteros 345
3~4~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 41 cm 400L



Amphistichus argenteus 345
3~4~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 43 cm 500L



Dymalogaster aggregata 345
3~4~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Ditrema temminckii 345
5~6~ ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L

370



Embiotoca jacksoni 345
3〜4ヶ月 水温 26°C sg: 1.022 39 cm 500L

#298



Hypsurus caryi 345
3〜4ヶ月 水温 26°C sg: 1.022 30 cm 300L



Micrometrus aurora 345
3〜4ヶ月 水温 26°C sg: 1.022 18 cm 200L



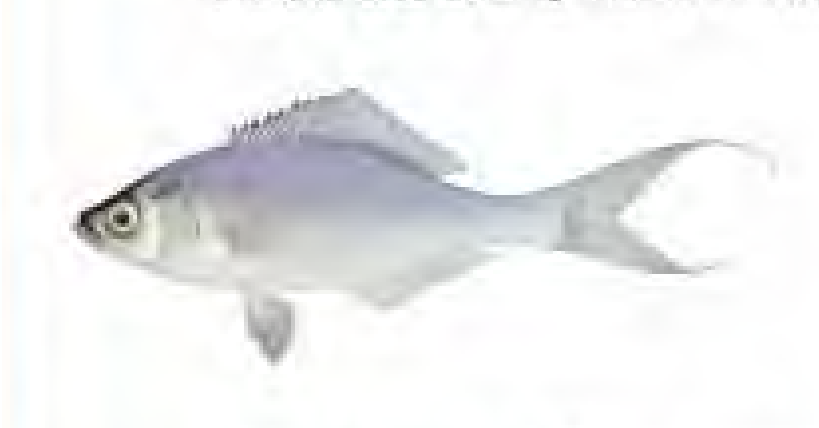
Micrometrus minimus 345
3〜4ヶ月 水温 26°C sg: 1.022 16 cm 200L



Damalichthys vacca 345
3〜4ヶ月 水温 26°C sg: 1.022 44 cm 500L



Hyperprosopon ellipticum 345
3〜4ヶ月 水温 26°C sg: 1.022 30 cm 300L



Neoditrema ransonnei 345
5〜6ヶ月 水温 24°C sg: 1.022 15 cm 200L



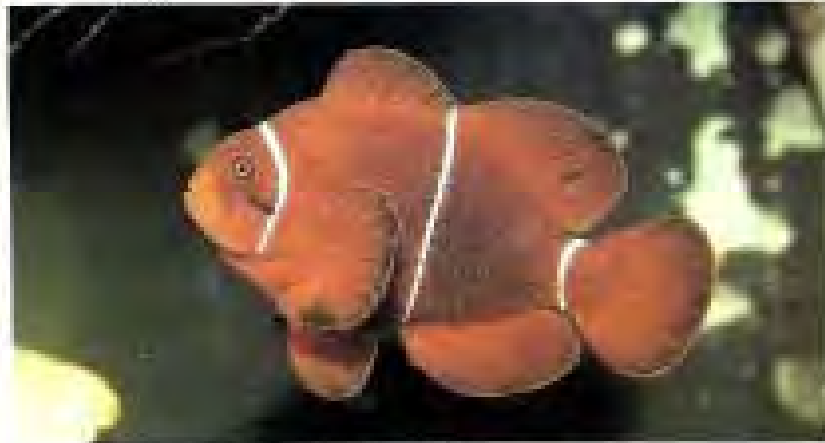
Phanerodon furcatus 345
3-4ヶ月 水温 26°C sg: 1.022 32 cm 300L



Dascyllus flavicauda 348
6 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 10 cm 100L

Chromis viridis 345
6 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 10 cm 100L





Premnas biaculeatus 348
6-8 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 18 cm 200L



Premnas biaculeatus 348
6-9 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 18 cm 200L



Amphiprion leucotrochus 348
6-7 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 12 cm 150L



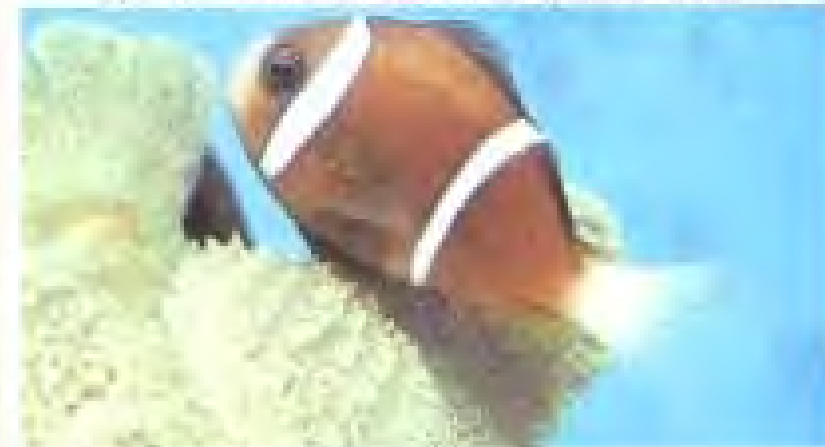
Amphiprion percula 348
6, 8 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 11 cm 120L



Amphiprion latezonatus 348
8, 12 ½ ~ ♀ + ♂ ♀ ♀ ☐ 24°C sg: 1.023 12 cm 100L



Amphiprion polymnus 348
5-7 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 10 cm 100L



Amphiprion akindynos 348
6, 8, 12 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 12 cm 150L



Amphiprion akindynos 348
6, 8, 12 ½ ~ ♀ + ♂ ♀ ♀ ☐ 26°C sg: 1.022 12 cm 150L

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Amphiprion melanopus 346
11-12 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L

#301



Amphiprion melanopus 346
6-8 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Amphiprion melanopus 346
6-8 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Amphiprion melanopus (var)
6-8 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Amphiprion ephippium 346
7, 9 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



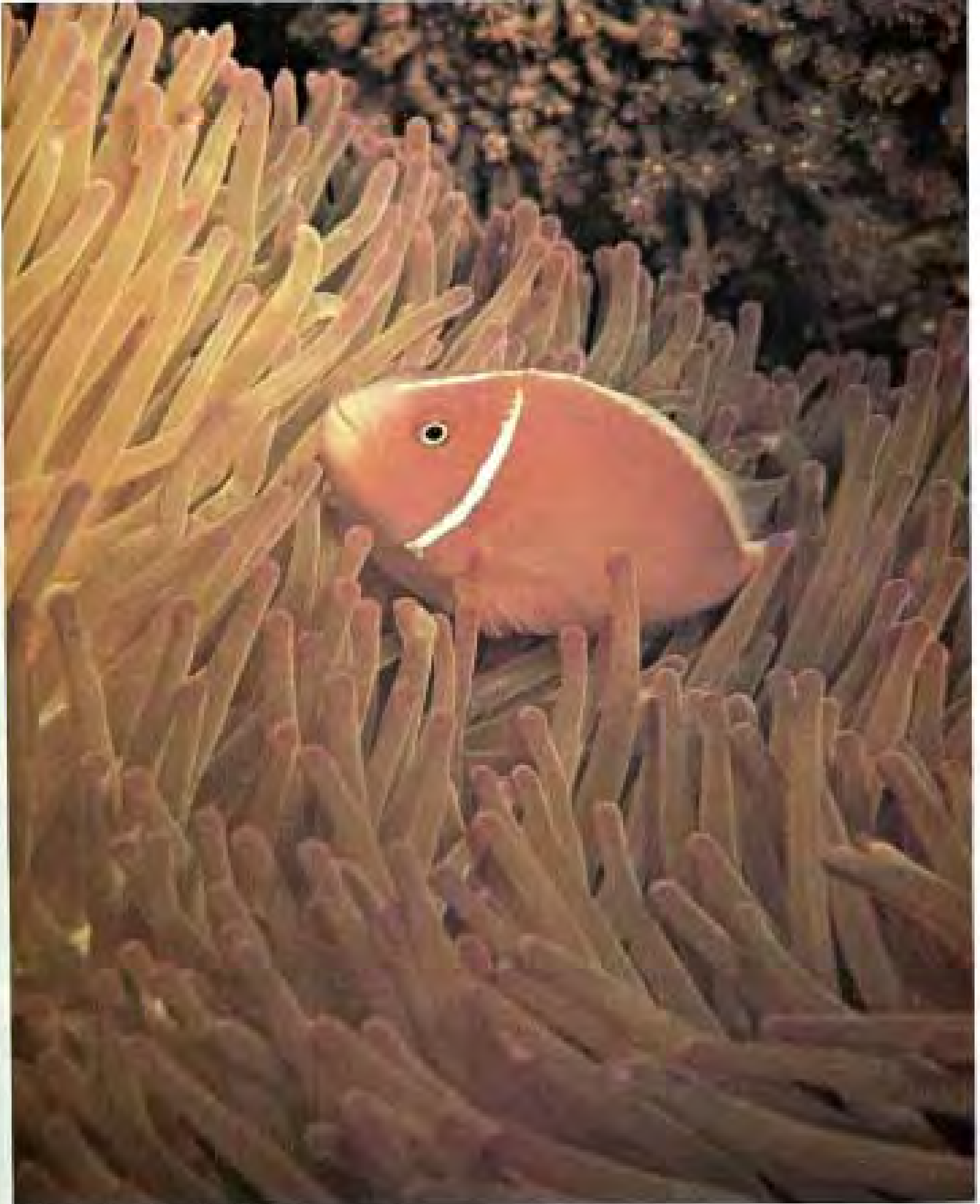
Amphiprion ephippium 346
7, 9 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Amphiprion bicinctus 346 (uv)
6 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Amphiprion thalassae 346
7 ♀ ♂ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Amphiprion perideraion 348
6-8 1/2 1/2 1/2 1/2 1/2 26°C sg: 1.022 11 cm 100L

376



Amphiprion sandaracinos 346
6-7 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L

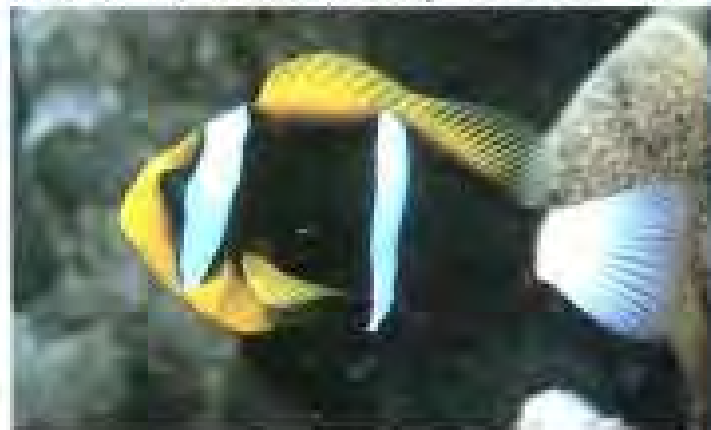
#303



Amphiprion perideraion 346
6-8 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Amphiprion lineatus 346
8 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Amphiprion chrysopterus 346
6-7 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 12.5 cm 150L



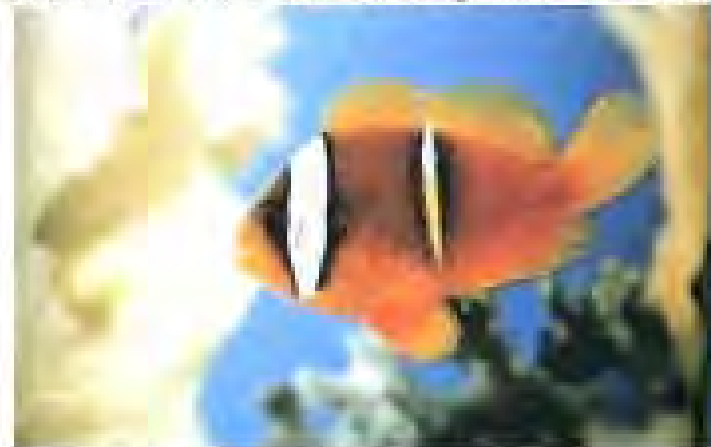
Amphiprion rubrocinctus 346
6-8, 12 ½" ♀ ♂ ♀ ♀ ♀ 25°C sg: 1.022 14 cm 150L



Amphiprion rubrocinctus 346
6-8, 12 ½" ♀ ♂ ♀ ♀ ♀ 25°C sg: 1.022 14 cm 150L



Amphiprion frenatus 346
7, 9 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Amphiprion frenatus 346
7, 9 ½" ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Amphiprion nigripes 346
9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 12 cm 150L

Amphiprion nigripes 346
9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 12 cm 150L



Amphiprion ocellaris 346
6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 15 cm 200L

Amphiprion sebae 346
7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Dascyllus carneus 346
7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 50L

Dascyllus aruanus 346
6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Dascyllus trimaculatus 346
6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 14 cm 150L

Pomacentrus bicolor 346
12 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 20 cm 200L

370



Dascyllus albivittata 346
6 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 13 cm 200L

#305



Dascyllus trimaculatus 346
6-7 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 14 cm 200L



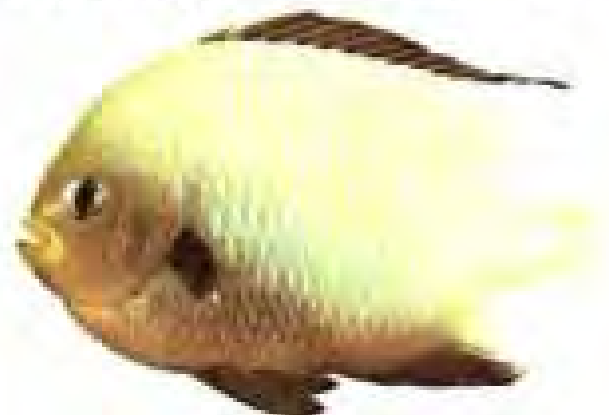
Dascyllus flavicauda 346
6 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Dascyllus strasburgi 346
6 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 14 cm 200L



Dascyllus melanurus 346
6-7 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Dascyllus marginatus 346
9-10 ½ ~ 11 + 0 ♀ ♂ 26°C sg: 1.022 12 cm 100L



Dascyllus reticulatus 346
6-7 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Dascyllus carneus 346
7 ½ ~ 8 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 50L



Parma oligolepis 346
8, 12 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 25°C sg: 1.022 30 cm 200L



Parma maculata 346
12 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.023 12 cm 50L



Parma microlepis 346
11 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.024 30 cm 300L



Parma microlepis 346 (juv.)
11 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.024 30 cm 300L



Parma alboscapharis 346
11 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.023 20 cm 200L



Parma victoriae 346
11 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.024 20 cm 200L



Parma polylepis 346
5, 8, 12 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 25°C sg: 1.022 21 cm 200L



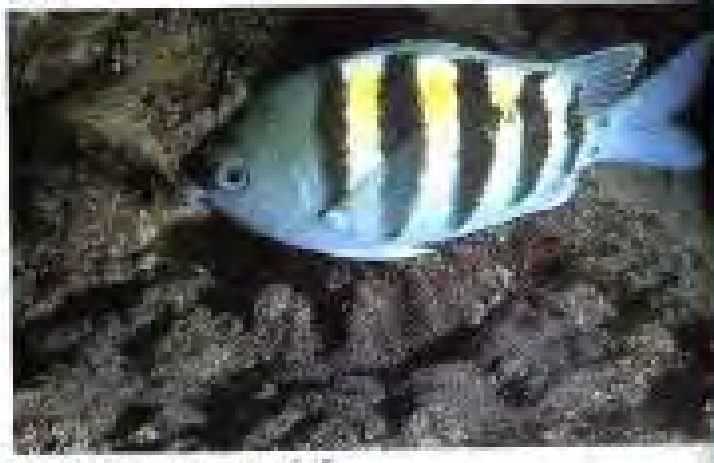
Parma occidentalis 346
11 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.023 30 cm 300L

340



Abudefduf vaigiensis 346
7 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 20 cm 200L

#307



Abudefduf saxatilis 348
Circumtrop. 3 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 15 cm 200L



Abudefduf troscheli 346
3 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 23 cm 200L



Abudefduf troscheli 346
3 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 23 cm 200L



Abudefduf doederleini 346
3 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 25 cm 200L



Abudefduf sordidus 346
5-9 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 20 cm 300L



Abudefduf taurus 348
2 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 25 cm 300L



Abudefduf taurus 346
2 ♀ ~♂ + 0 ♀ ~♂ 26°C sg: 1.022 25 cm 300L



Abudefduf bangalensis 346
 7-8 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 17 cm 200L



Abudefduf margaritatus 346
 8-9 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 16 cm 80L



Abudefduf notatus 346
 5-7 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 17 cm 200L



Abudefduf sextasciatus 346
 8-10 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 15 cm 200L



Abudefduf aporoides 346
 8 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 16 cm 200L



Amblyglyphidodon flavilatus 346
 9-10 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



Amblyglyphidodon leucogaster 346
 5-10 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 13 cm 150L



Lepidozygus tapeinostoma 346
 5-7 ♀ ♂ + 0 ♀ ♂ 26°C sg: 1.022 12 cm 150L

382



Abudefduf whiteleyi 346
6-9 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 18 cm 200L

#309



Abudefduf septemfasciatus 346
6-7 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 23 cm 300L



Abudefduf lorentzi 346
6-9 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 12 cm 150L



Abudefduf abdominalis 346
6-9 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 19 cm 200L



Amblyglyphidodon leucogaster 346
6-10 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 13 cm 150L



Amblyglyphidodon aureus 346
6-7 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 14 cm 200L



Amblyglyphidodon ternatensis 346
6-7 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 14 cm 150L



Amblyglyphidodon aureus 346
6-7 ♀ ~♂ + 0 ♀ 25-30 26°C sg: 1.022 13 cm 150L



Chromis atripectoralis 345
6-7 ♀, 12 ♀ ~♂ + ♀ ♀ ♂ 25°C sg: 1.022 13 cm 150L



Chromis axillaris 345
9 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Chromis viridis 346
6 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Chromis dimidiata 346
9-10 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Chromis eleuae 346
6-7 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Chromis klunzingeri 346
12 ♀ ~♂ + ♀ ♀ ♂ 24°C sg: 1.023 10 cm 100L



Chromis nigrura 346
9 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Chromis opercularis 346
9 ♀ ~♂ + ♀ ♀ ♂ 26°C sg: 1.022 16 cm 200L



Chromis flavomaculata 346
7 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 12 cm 150L



Chromis anchysura 346
1-2 ♀ ♀ + 0 ♀ ♀ 25°C sg: 1.022 10 cm 100L



Chromis sp. 346
8 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 10.5 cm 150L



Chromis ovalis 346
6 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 19 cm 200L



Chromis randalli 346
6 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 17 cm 200L



Chromis westaustralis 346
12 ♀ ♀ + 0 ♀ ♀ 24°C sg: 1.023 7 cm 100L



Chromis cinerascens 346
7 ♀ ♀ + 0 ♀ ♀ 26°C sg: 1.022 10 cm 100L



Chromis notata 346
5 ♀ ♀ + 0 ♀ ♀ 23°C sg: 1.022 4 cm 50L



Chromis lineata 346
6-7 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 8 cm 100L



Chromis vanderbilii 346
6, 8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 10 cm 100L



Chromis acarea 346
6 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 9 cm 100L



Chromis agilis 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 12 cm 150L



Chromis anafis 346
6-7, 9 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 13 cm 150L



Chromis chrysova 346
5-6, 8-9 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 15 cm 200L



Chromis mirafioris 346
5 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 12 cm 150L



Chromis verater 346
5 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1,022 20 cm 200L

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Chromis ambelnensis 346
6-7 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 11 cm 100L

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Chromis atripes 346
6-8 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 5 cm 50L



Chromis fermatensis 346
6-7, 9 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 12 cm 100L



Chromis lepidolepis 346
6-7 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 12 cm 150L



Chromis fumea 346
7-8, 11-12 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 9 cm 100L



Chromis hypolepis 346
11-12 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 23°C sg: 1,024 13 cm 150L



Chromis opercularis 346
9 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 16 cm 200L



Chromis weberi 346
6-7, 9 ♀ ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1,022 19 cm 200L



Chromis nitida 346
6, 12 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 12 cm 150L



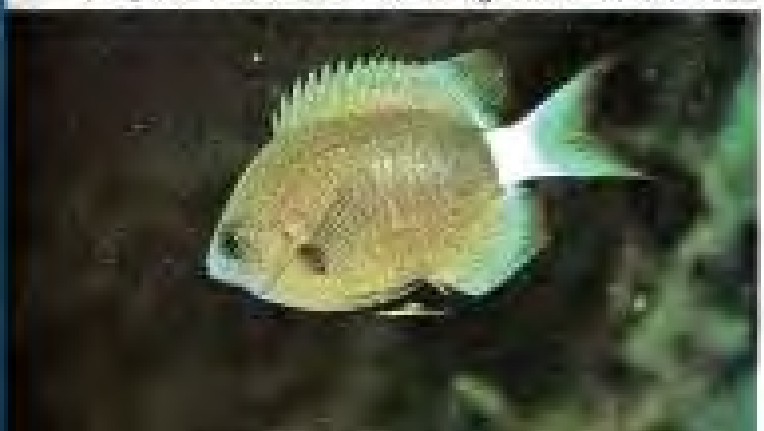
Chromis retrofasciata 346
6-8 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 9 cm 100L



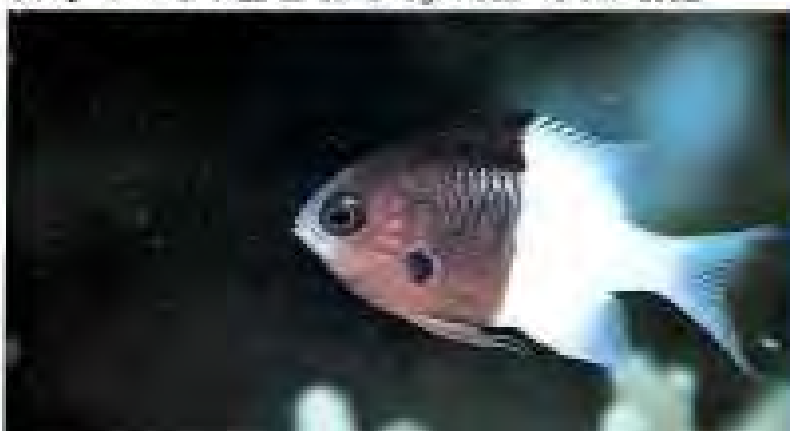
Chromis bicolor 346
6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Chromis xanthura 346
6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 16 cm 200L



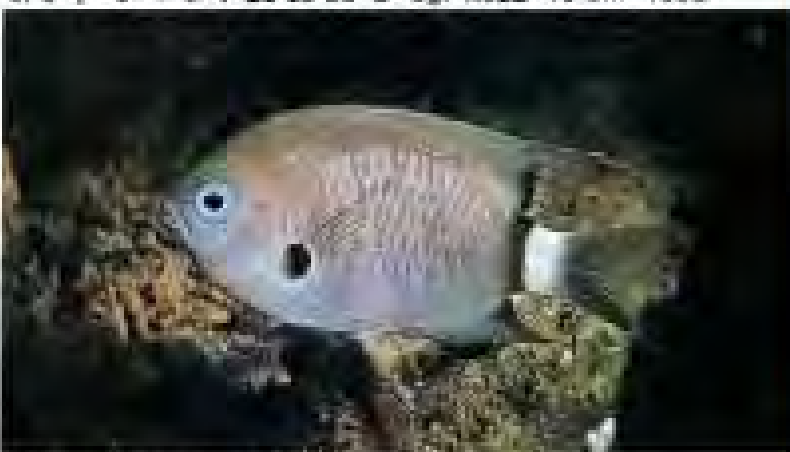
Chromis hanui 346
6 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Chromis romelas 346
6, 8 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Chromis leucura 346
6 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



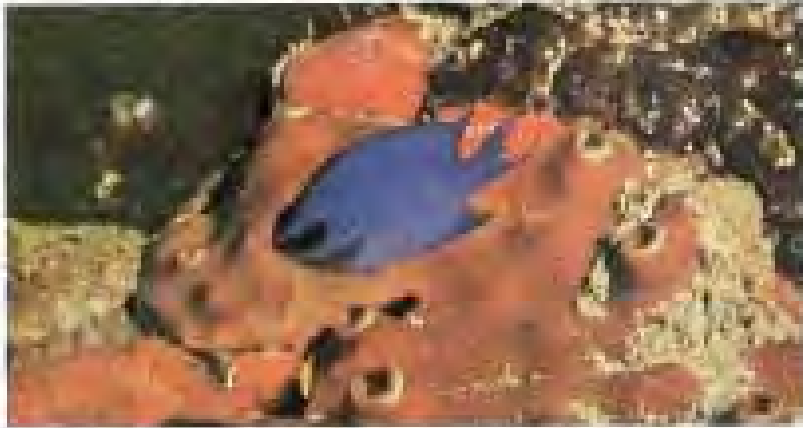
Chromis sp. "D" 346
6 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Chromis insolatus 346
2 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 10 cm 100L



Chromis cyaneus 346
2 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 13 cm 150L



Chromis scottii 346
2 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 10 cm 100L



Chromis scottii 346
2 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 10 cm 100L



Chromis baileyi 346
13 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 11 cm 100L



Chromis fiancauda 346
2 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 8 cm 100L



Chromis chromis 346
13-15 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.024 12 cm 150L



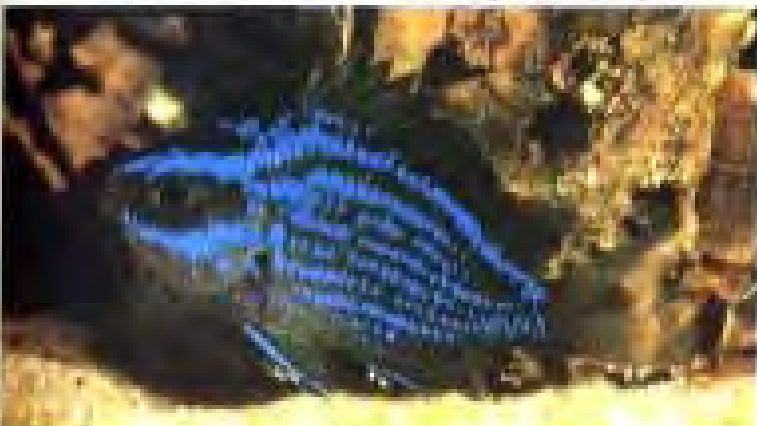
Chromis padaneti 346
13 ♀ ♀ + 0 ♀ ♀ @ 26°C sg: 1.022 12 cm 100L



Chromis Amboighi 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 10 cm 100L



Chromis Amboighi 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 10 cm 100L



Chromis altus 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 9 cm 100L



Chromis altus 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 9 cm 100L



Chromis multilineatus 346
2 ½ ~ 3 ~ 4 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 16 cm 300L



Chromis punctipinnis 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 30 cm 300L



Chromis viridis 346
5 ½ ~ 6 ~ 7 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 10 cm 100L



Chromis atrirostris 346
3 ½ ~ 4 ~ 6 ~ ♀ ~ ♂ ~ 26°C ~ sg: 1.022 7 cm 80L



Chrysiptera leucopoma 346
6-7 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 150L



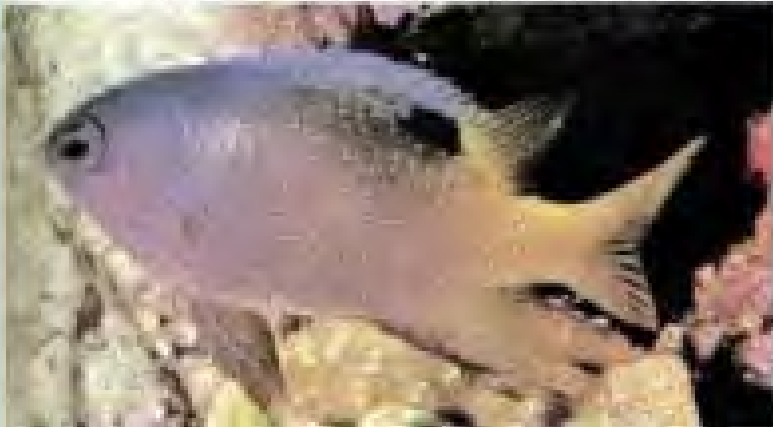
Chrysiptera leucopoma 346 (juv.)
6-7 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 150L



Chrysiptera caeruleolineata 346
6-7 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Paraglyphidodon sp. (juv.) 346
8 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 150L



Chrysiptera traceyi 346
6-7 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Chrysiptera falboti 346
6-8 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Chrysiptera annulata 346
9-10 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.024 7 cm 80L



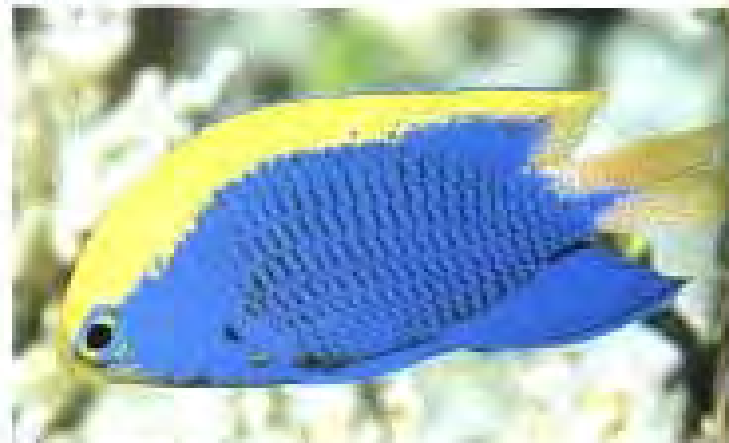
Chrysiptera trilineata 346
6 ♀ ♂ + ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L

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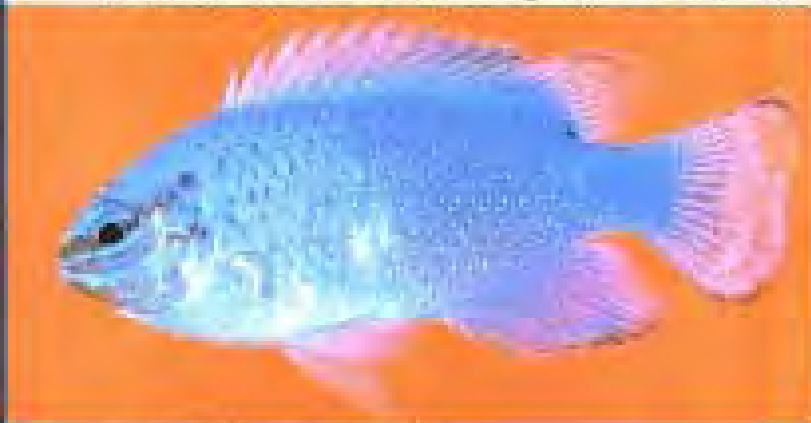


Chrysiptera flexipinnis 346
6-8 ½ ~ ♀ + ♂ ♀ ♂ 25°C sg: 1.022 11 cm 100L

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Chrysiptera starcki 346
6-8 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Chrysiptera cyanea 346 ♂
6-7 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Chrysiptera cyanea 346 ♂
6-7 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Chrysiptera taupou 346
6 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 7.5 cm 100L



Chrysiptera parasema 346
7 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 50L



Chrysiptera springeri 346
7 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L

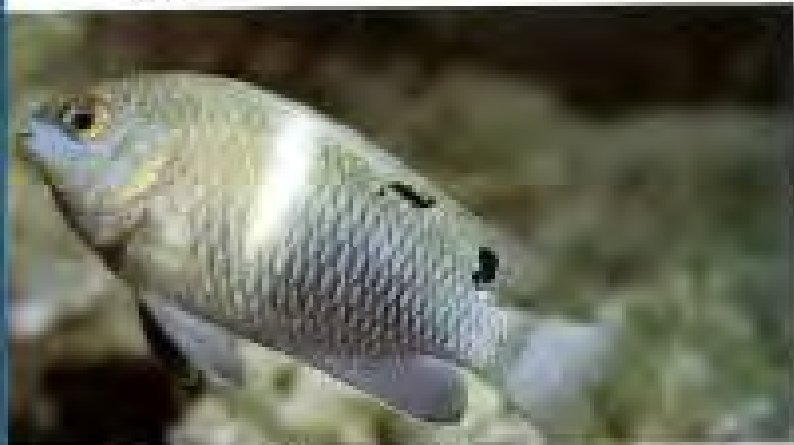


Chrysiptera rollandi 346
6, 8 ½ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Chromis hemicyanea 346
79 1/2 x 6 1/2 in 26°C sg: 1.022 20 cm 200L

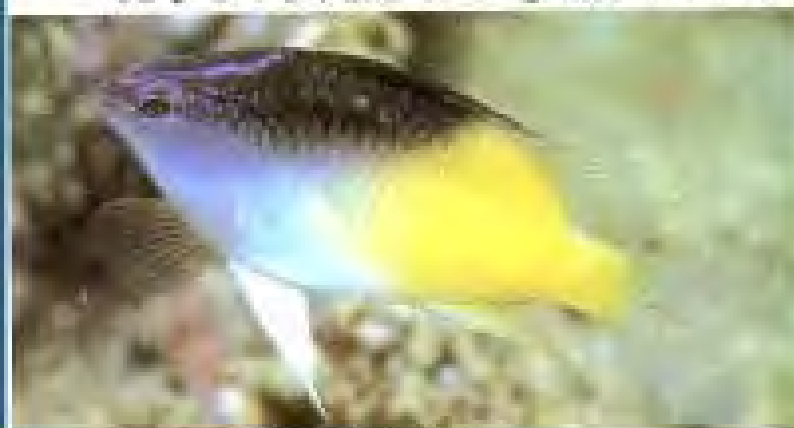
194



Chrysiptera biocellata 346
6-7 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 12 cm 150L



Chrysiptera unimaculata 348
6-8 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Chrysiptera rollandi 346
6, 8 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Plectroglyphidodon leucacina 346
6-8 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L

#721



Chrysiptera glauca 346
6-7 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 12 cm 100L



Chrysiptera unimaculata 348
6-8 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Neopomacentrus miryae 346
10 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



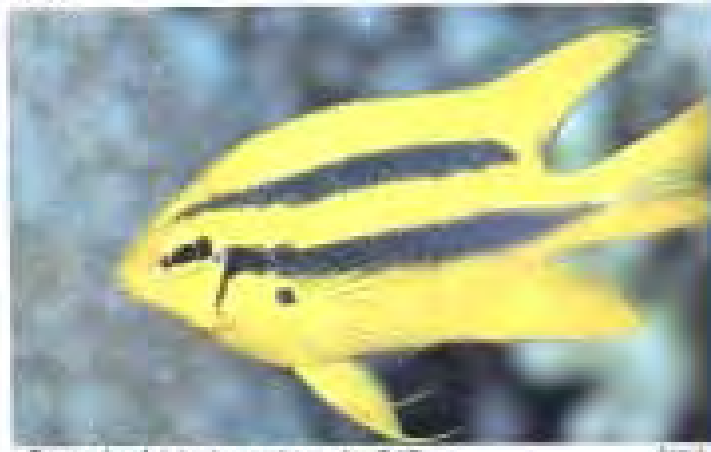
Plectroglyphidodon phoeniceus 346
6 ♀ ♂ ♀ + ♀ ♀ ♀ 26°C sg: 1.022 7 cm 100L

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Paraglyphidodon nigroris 346
6-7 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 15 cm 200L

#323



Paraglyphidodon nigroris 346 (ca)
6-7 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 15 cm 200L



Paraglyphidodon melas 346
6-10 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 17 cm 200L



Paraglyphidodon melas 346 (ca)
6-10 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 17 cm 200L



Paraglyphidodon polyacanthus 346
8, 11-12 1/2 1/2 1/2 + C 1/2 1/2 24°C sg: 1.023 17 cm 200L



Paraglyphidodon polyacanthus 346
6, 11-12 1/2 1/2 1/2 + C 1/2 1/2 24°C sg: 1.023 17 cm 200L



Paraglyphidodon lacrymatus 346
6-7 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 13 cm 150L



Paraglyphidodon oryodon 346
7 1/2 1/2 1/2 + C 1/2 1/2 26°C sg: 1.022 5 cm 50L



Hypopyops rubicunda 346
 3 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 36 cm 500L



Hypopyops rubicunda 346 (juv.)
 3 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 36 cm 500L



Acanthochromis polyacanthus 346
 6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Acanthochromis polyacanthus (juv.) 346
 6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Hemiglyphidodon plagiometopon 346
 6-7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 19 cm 200L



Hemiglyphidodon plagiometopon 346
 6-7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 19 cm 200L



Cheilodactylus labiatus 346
 6-7, 9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Amblypomacentrus breviceps 346
 6-7 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L

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Neopomacentrus taeniurus 346
6-7 ♀ ~ + 0 ♀ 26°C sg: 1,018 11 cm 100L

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Neopomacentrus taeniurus 346
6-7 ♀ ~ + 0 ♀ 26°C sg: 1,018 11 cm 100L



Neopomacentrus cyanomas 346
6-7, 9 ♀ ~ + 0 ♀ 26°C sg: 1,022 12 cm 150L



Neopomacentrus azyron 346
6-7 ♀ ~ + 0 ♀ 26°C sg: 1,022 8 cm 80L



Neopomacentrus violascens 346
5-7 ♀ ~ + 0 ♀ 26°C sg: 1,022 10 cm 100L



Neopomacentrus nemurus 346
6-7 ♀ ~ + 0 ♀ 26°C sg: 1,022 11 cm 100L



Neopomacentrus metallicus 346
6 ♀ ~ + 0 ♀ 26°C sg: 1,022 6 cm 80L



Neopomacentrus filamentus 346
7 ♀ ~ + 0 ♀ 26°C sg: 1,022 7 cm 80L



Pomacentrus philippinus 346
 6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Pomacentrus trichourus 348
 6-9 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Pomacentrus caeruleus 346
 7-9 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Pomacentrus affinis 346
 7-9 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 8 cm 50L



Pomacentrus caelestis 346
 6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 12 cm 150L

400

#327



Pomacentrus australis 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 11 cm 100L



Pomacentrus coelestis 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 12 cm 150L



Pomacentrus lepidogenys 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 12 cm 150L



Pomacentrus reidi 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 14 cm 150L



Pomacentrus chrysurus 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 12 cm 150L



Dischistodus prosopocentrus 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 19 cm 200L



Pomacentrus impunctatus 346
6-8 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 11 cm 100L



Pomacentrus emarginatus 346
6-7 ♀ ♂ + ♀ ♀ ♂ 26°C sg: 1.022 13 cm 150L

402



Pomacentrus amboinensis 346
6-8 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 12 cm 150L

#329



Pomacentrus amboinensis 346
6-8 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 12 cm 150L



Pomacentrus smithi 346
6-7 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Pomacentrus vaiuli 346
6-8 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Pomacentrus grammorhynchus 346
6-8 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Pomacentrus bankanensis 346
6-8 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Pomacentrus suffureus 346
9-10 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Pomacentrus moluccensis 346
6-7 ♀ ~♂ + ♀ ♂ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Pomacentrus chrysurus 346
6-8 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 12 cm 150L



Pomacentrus pavo 345
6-9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 13 cm 150L



Pomacentrus pikei 346
9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 12 cm 150L



Pomacentrus trilineatus 346
10 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 7 cm 100L



Pomacentrus sp. 346
9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 10 cm 150L



Stegastes fasciatus 346
6 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 13 cm 150L



Stegastes sp. 346
1, 9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 8 cm 100L



Stegastes sp. 346
9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 8 cm 100L

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Stegastes albifasciatus 346
6-7 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 13 cm 150L

#331



Stegastes apicalis 346
8 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Stegastes lividus 346
6-10 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Stegastes fasciatus 346
8 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 13 cm 150L



Stegastes sp. 346
3 ½ ~ 4 + 0 ♀ ♂ 24°C sg: 1.023 12 cm 150L



Stegastes simsiang 346
7 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Pomacentrus milleri 346
7 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 7 cm 80L



Pomacentrus milleri 346
7 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 7 cm 80L



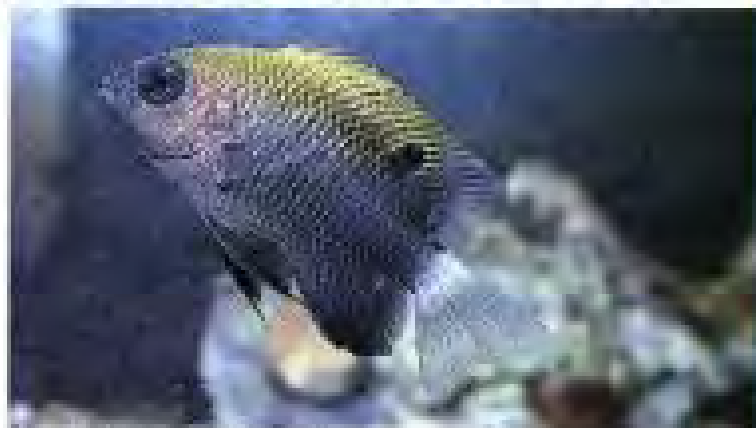
Stegastes rectifraenum 346
3 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



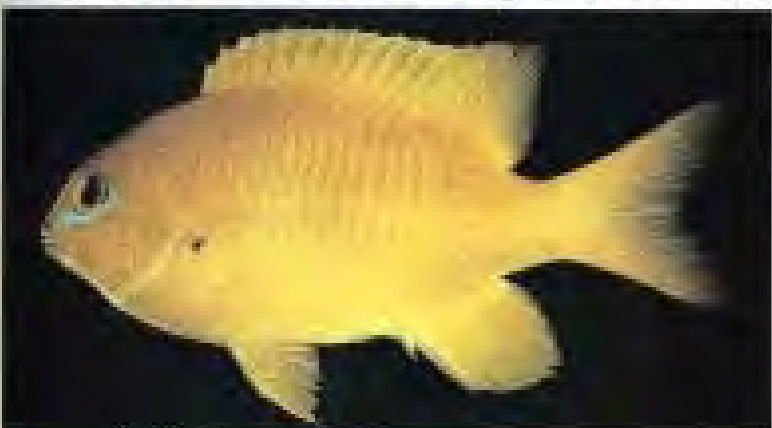
#332 405
Stegastes rectifraenum 346
3 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



Stegastes gascoynei 346
5, 11-12 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Stegastes leucurus 346
3 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 50 cm 500L



Stegastes aureus 346
6 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 13 cm 150L



Stegastes ameryi 346
6 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 11 cm 100L



Stegastes nigricans 346
8-7 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 15 cm 150L



Stegastes obrepus 346
7 1/2 ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 12 cm 150L

406



Stegastes partitus 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 10 cm 100L

#313



Stegastes partitus 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 10 cm 100L



Stegastes planifrons 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 13 cm 150L



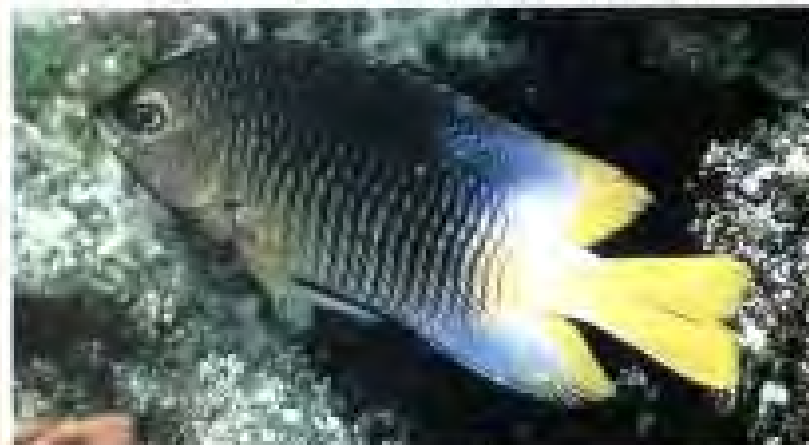
Stegastes planifrons 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 13 cm 150L



Stegastes dorsopunicans 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 15 cm 150L



Stegastes dorsopunicans 346
2 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 15 cm 150L



Stegastes redemptus 346
3 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 12 cm 150L



Stegastes redemptus 346
3 ♀ ~ + 0 ♀ ~ 26°C sg: 1.022 12 cm 150L

#324

407



Stegastes diencaeus 346
2 1/2 ~ + 0 ♀ 26°C sg: 1.022 13 cm 150L



Stegastes melis 346
2 1/2 ~ + 0 ♀ 26°C sg: 1.022 12.5 cm 800L



Stegastes variabilis 346
2 1/2 ~ + 0 ♀ 26°C sg: 1.022 13 cm 150L



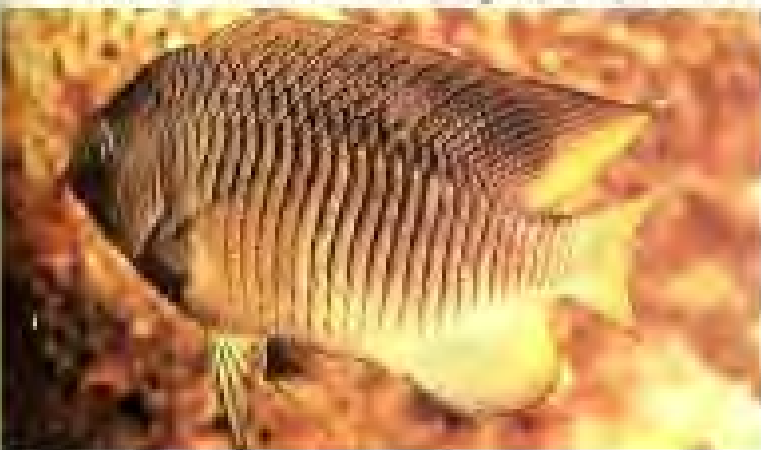
Stegastes variabilis 346
2 1/2 ~ + 0 ♀ 26°C sg: 1.022 13 cm 800L



Stegastes imbricata 346
13 1/2 ~ + 0 ♀ 26°C sg: 1.022 13 cm 150L



Stegastes leucostictus 346
2 1/2 ~ + 0 ♀ 26°C sg: 1.022 10 cm 100L



Stegastes flavilatus 346
3 1/2 ~ + 0 ♀ 26°C sg: 1.022 5 cm 50L



Stegastes flavilatus 346
3 1/2 ~ + 0 ♀ 26°C sg: 1.022 5 cm 50L

408



Microspathodon dorsalis 346
3 ½ ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 31 cm 300L

4335



Microspathodon dorsalis 346
3 ½ ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 31 cm 300L



Microspathodon chrysurus 346
2 ½ ~ 3 + 0 ♀ ♂ 26°C sg: 1.022 20 cm 200L



Microspathodon chrysurus 346
2 ½ ~ 3 + 0 ♀ ♂ 26°C sg: 1.022 20 cm 200L



Microspathodon beirdi 346
3 ½ ~ 4 + 0 ♀ ♂ 26°C sg: 1.022 20 cm 200L



Microspathodon frontalis 346
13 ½ ~ 14 + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



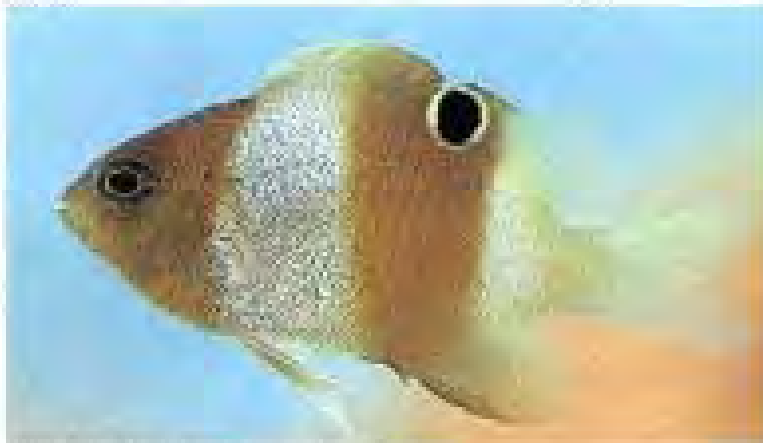
Pristotis jerdoni 346
7-8 ½ ~ 9 + 0 ♀ ♂ 26°C sg: 1.022 11 cm 100L



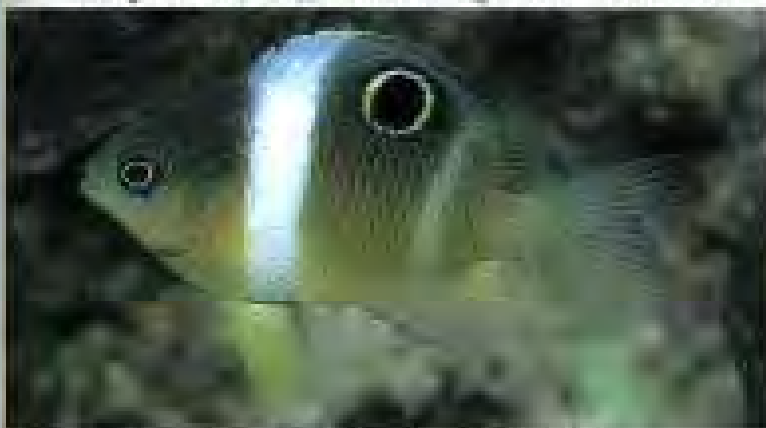
Pristotis cyanostigma 346
10 ½ ~ 11 + 0 ♀ ♂ 26°C sg: 1.022 10 cm 100L



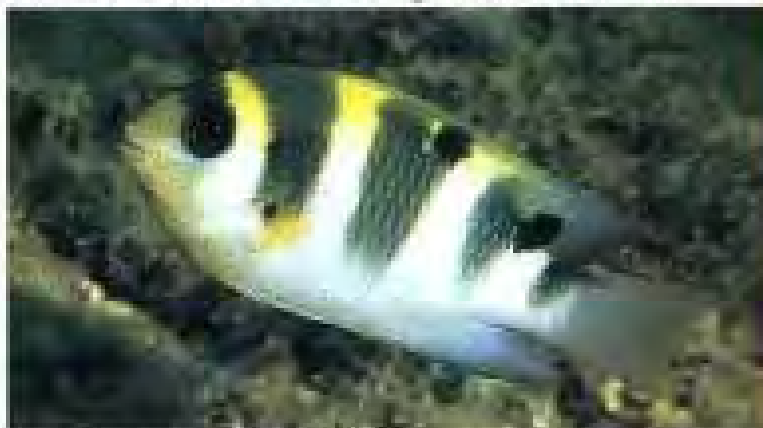
Dichistodus prosopotaenia 348
6-9 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



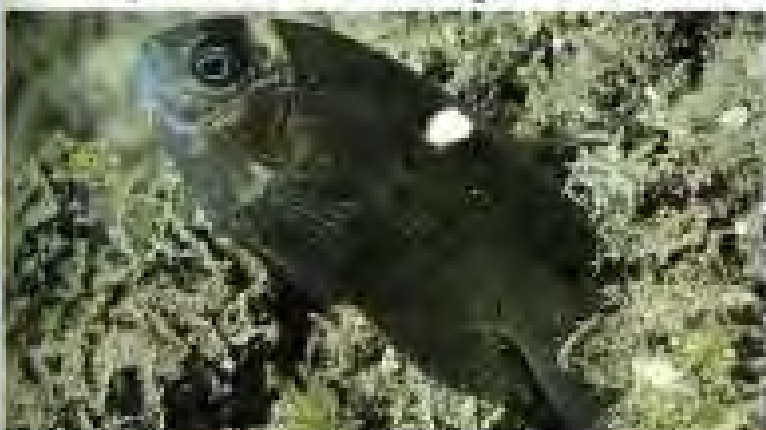
Dichistodus prosopotaenia 346
6-9 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Dichistodus pseudochrysocephalus 345
6-7 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Dichistodus fasciatus 345
7-8 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 11.5 cm 150L



Dichistodus physopoecilus 346
6-7 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Dichistodus melanotus 346
6, 11-12 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 24°C sg: 1.022 10 cm 100L



Dichistodus perspicillatus 346
6-9 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L



Meuschenia immaculatus 346
12 1/2 ~ ♀ + ♂ ♀ ♀ ♀ 23°C sg: 1.024 10 cm 100L



Paracirrhites forsteri 348
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L

Cirrhichthys aprinus 348
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L





Cirriichthys oxycephalus 348
 3-10 ♀ ~♂ 26°C sg: 1.022 8 cm 100L



Cirriichthys bleekeri 348
 9 ♀ ~♂ 26°C sg: 1.022 10 cm 100L



Cirriichthys aprinus 348
 6-9 ♀ ~♂ 26°C sg: 1.022 7 cm 80L



Cirriichthys guichenoti 348
 9 ♀ ~♂ 26°C sg: 1.022 11 cm 100L



Cirriichthys oxycephalus 348
 3-10 ♀ ~♂ 26°C sg: 1.022 8 cm 100L

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Cirrhilabrus aureus 348
5-7 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 13 cm 150L

#338



Cirrhilabrus faveo 348
7 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 8 cm 50L



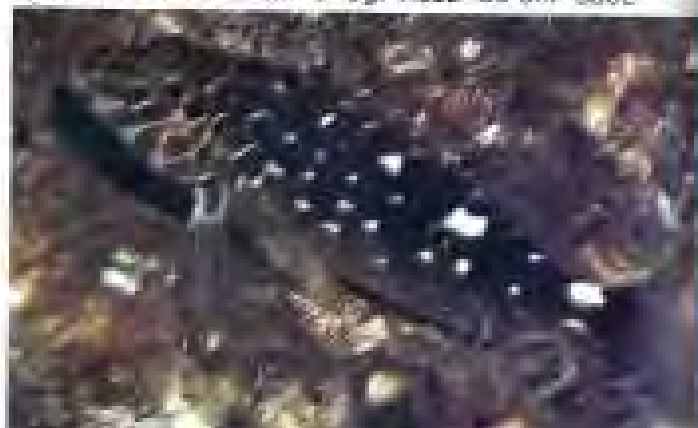
Cirrhilus rivulatus 348
3 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 52 cm 500L



Cirrhilus rivulatus 348
3 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 50 cm 500L



Cirrhilus splendens 348
11-12 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 20 cm 300L



Cirrhilus affantius 348
13 ½ ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 19 cm 200L



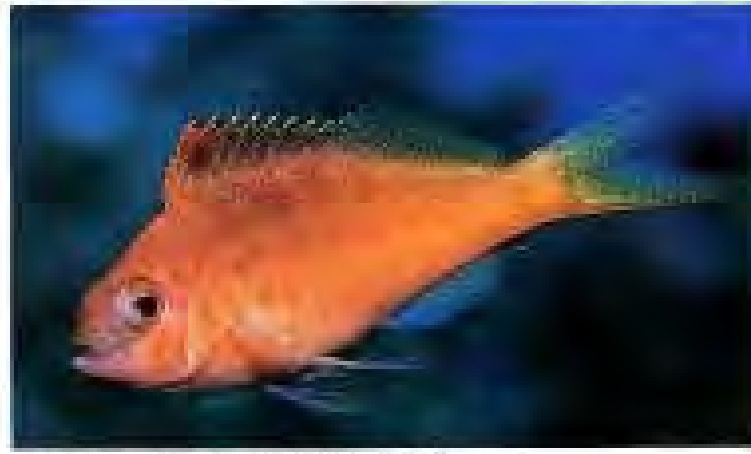
Neocirrhilus armatus 348
6, 8 ½ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 60L



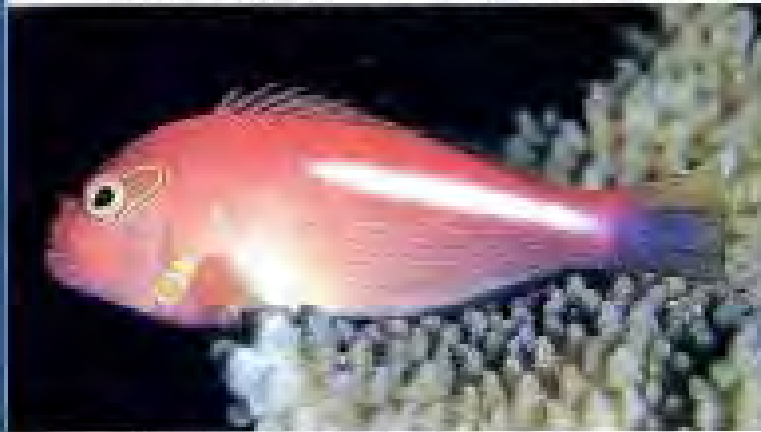
Cyprinocirrhites sp. 348
6 ½ ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 12 cm 150L



Cirrhites fasciatus 348
6-8 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 13 cm 150L



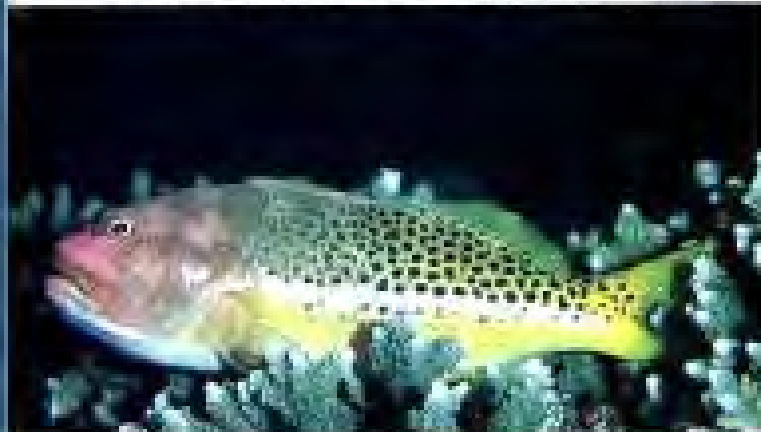
Cyprinocirrhites polyactus 348
6-8 1/2 ~ 1 1/2 ~ 2 1/2 ~ 25°C sg: 1.022 12 cm 150L



Paracirrhites arcatus 348
6-8 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 14 cm 150L



Paracirrhites forsteri 348
6-10 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 25 cm 300L



Paracirrhites hemistriatus 348
6-8 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 18 cm 200L



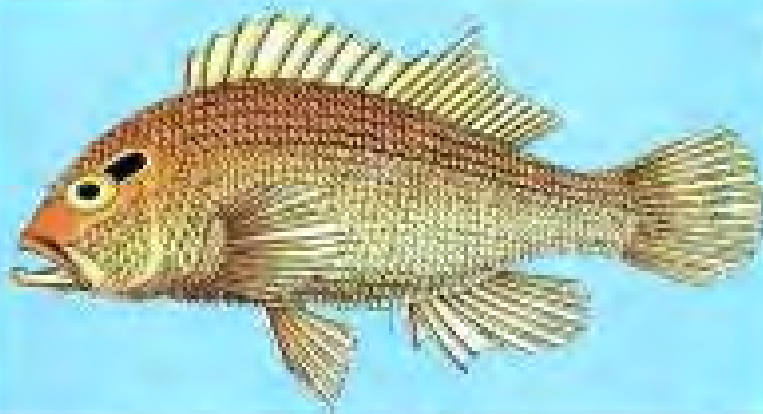
Paracirrhites hemistriatus 348
6-8 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 18 cm 200L



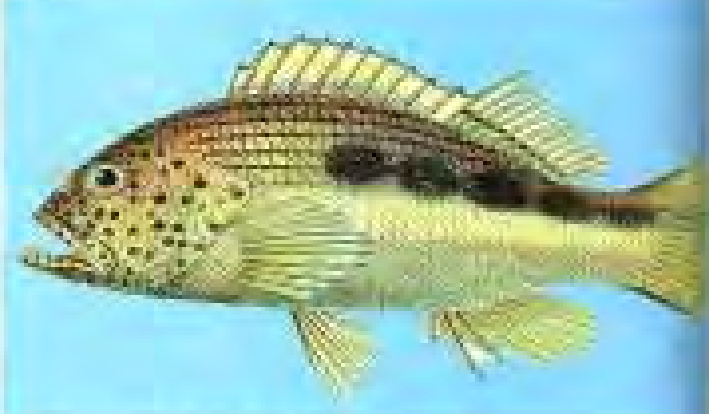
Cirrhites pinnaeatus 348
6-10 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 25 cm 300L



Oxyrrhites typus 348
3-6-10 1/2 ~ 1 1/2 ~ 2 1/2 ~ 26°C sg: 1.022 13 cm



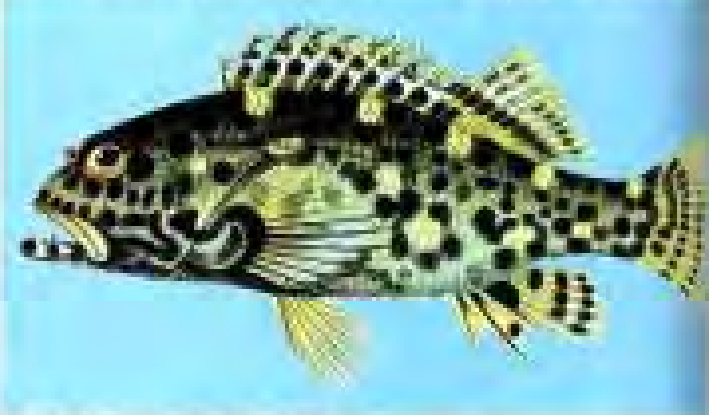
Paracirrhites arcatus 348
6-9 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



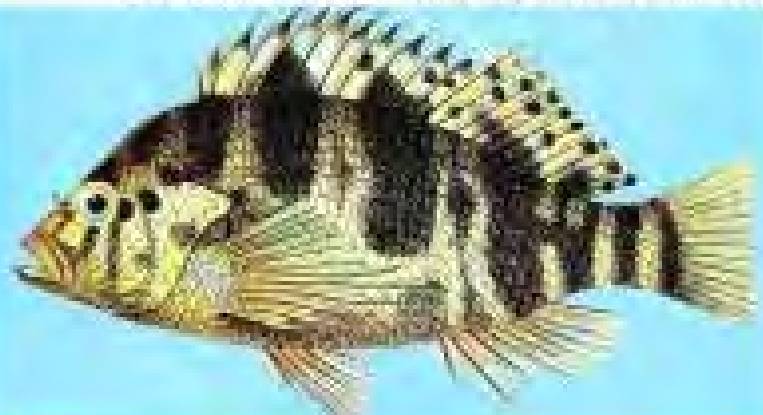
Paracirrhites forsteri 348
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



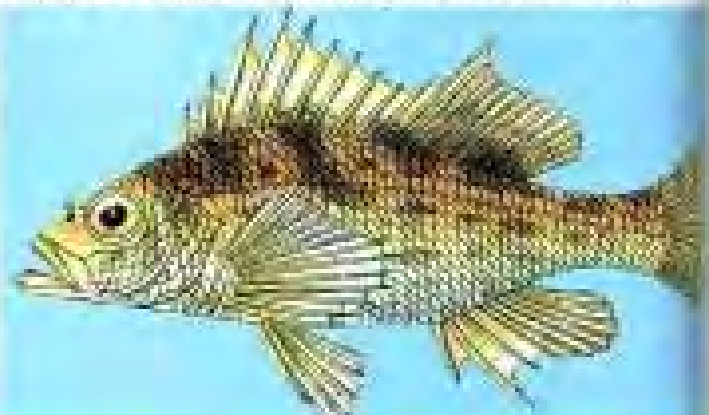
Cirrhites pinnulatus 348
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



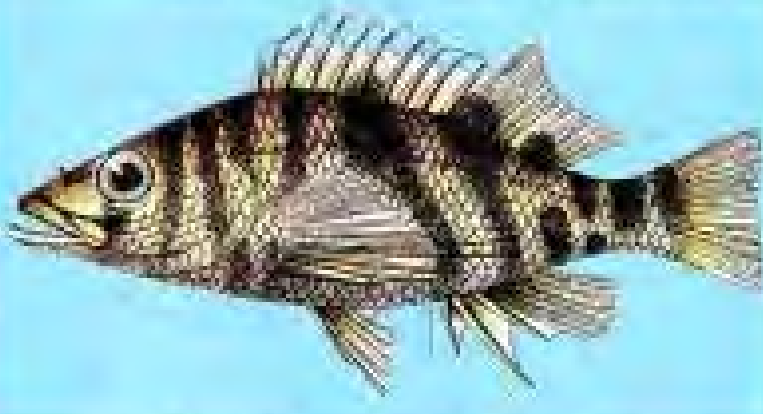
Cirrhites pinnulatus 348
6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



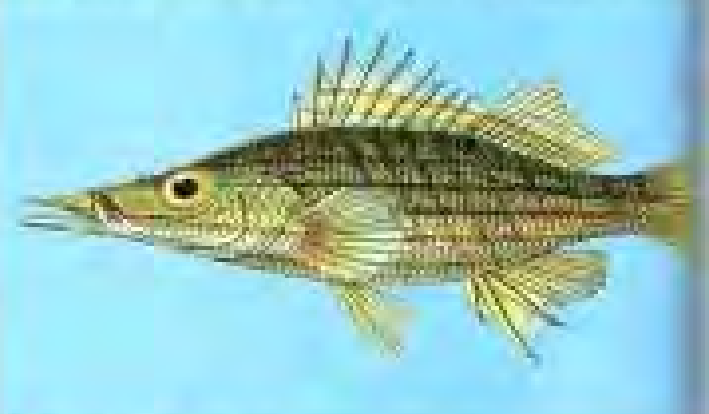
Cirrhitichthys aprinus 348
6-9 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Cirrhitichthys oxycephalus 348
3-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Amblycirrhitus oxyrhynchus 348
7 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 50L



Oxycirrhitus typus 348
3, 6-10 ♀ ~ ♂ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L

#348



Aporodactylus meandritus 350
11½ ~ 15 ~ 18 ~ 22°C sg: 1.024 38 cm 400L

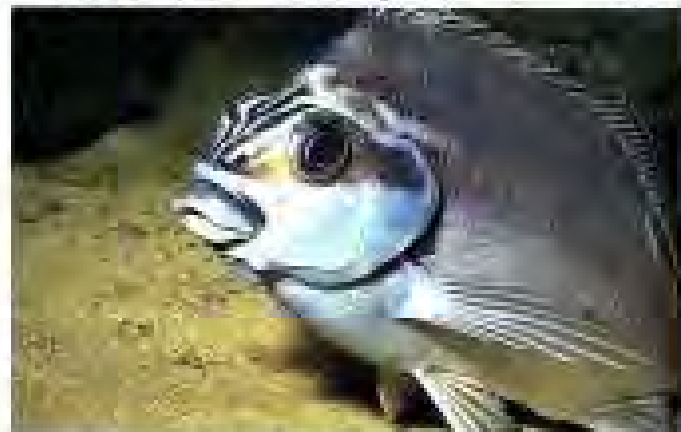
#349



Nemadactylus sarenensis 351
11½ ~ 15 ~ 18 ~ 22°C sg: 1.024 70 cm 700L



Cheilodactylus zonatus 351
6, 7½ ~ 10 ~ 12 ~ 25°C sg: 1.022 45 cm 500L



Cheilodactylus fuscus 351
8, 12½ ~ 15 ~ 18 ~ 22°C sg: 1.024 45 cm 500L



Nemadactylus macropterus 351
11½ ~ 15 ~ 18 ~ 22°C sg: 1.024 58 cm 600L



Cheilodactylus spectabilis 351
11-12½ ~ 15 ~ 18 ~ 23°C sg: 1.024 30 cm 200L



Cheilodactylus douglasi 351
11½ ~ 15 ~ 18 ~ 22°C sg: 1.024 70 cm 700L



Lapidops ciliaris 352
11½ ~ 15 ~ 18 ~ 22°C sg: 1.024 105 cm 1200L



Cheilodactylus gibbosus 351
8, 12 1/2 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.022 30 cm 300L



Cheilodactylus gibbosus 351
8, 12 1/2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 30 cm 300L



Cheilodactylus ephraipium 351
11-12 1/2 ~ ♀ ♂ ♀ ♂ □ 29°C sg: 1.024 20 cm 200L



Cheilodactylus vittatus 351
6-7 1/2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 25 cm 300L



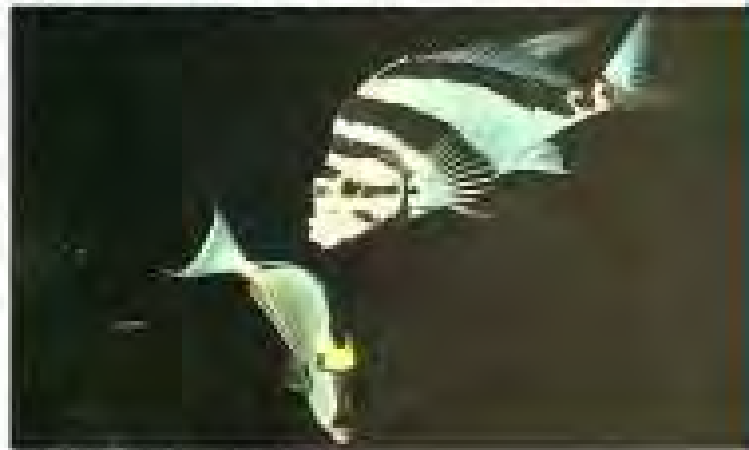
Cheilodactylus vittatus 351
6-7 1/2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 25 cm 300L



Cheilodactylus quadricornis 351
5, 7 1/2 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 40 cm 400L



Cheilodactylus gibbosus 351
8, 12 1/2 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 30 cm 300L



Cheilodactylus vittatus 351
6-7 1/2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 25 cm 300L

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Cheilodactylus nigripes 351
12½ ~ ♀ ♀ ♀ ♀ ♀ 23°C sg: 1.024 24 cm 250L

#334



Cheilodactylus rubrostriatus 351
12½ ~ ♀ ♀ ♀ ♀ ♀ 24°C sg: 1.022 50 cm 500L



Dactylosargus sp. 350
7, 12½ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 500L



Dactylophora nigricans 351
12½ ~ ♀ ♀ ♀ ♀ ♀ 24°C sg: 1.024 120 cm 1200L



Cheilodactylus brachydactylus 351
9½ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Cheilodactylus brachydactylus 351
9½ ~ ♀ ♀ ♀ ♀ ♀ 25°C sg: 1.022 40 cm 400L



Monodactylus argentus 328
6-10½ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.017 23 cm 250L



Monodactylus leuciformes 328
6-10½ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.017 31 cm 300L



Cheilodactylus zonatus 351
6, 7 ½ ~ 8 ½ 吋 ♀ 25°C sg: 1.022 45 cm 500L

#343



Oaxstonia grammodon (?) 353
7~9~ 26°C sg: 1.022 23 cm 250L

#345



Acanthocepola limbata 354
7~9~ 26°C sg: 1.022 41 cm 400L



Cepola australis 354
12~ 26°C sg: 1.022 38 cm 400L



Acanthocepola indica 354
7~9~ 26°C sg: 1.022 35 cm 400L



Polydactylus sp. 357
7~9~ 26°C sg: 1.022 30 cm 300L



Polydactylus virginicus 357
2~9~ 26°C sg: 1.022 30 cm 300L



Eleutheronema tetradactylum 357
7~9~ 26°C sg: 1.022 22 cm 200L



Polydactylus sexfiliis 357
7~9~ 26°C sg: 1.022 100 cm 1000L

x346

421



Liza vaigiensis 355
7-9 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.020 60 cm 600L



Liza vaigiensis 355
7-9 1/2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 60 cm 600L



Liza oligolepis 355
7 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.017 30 cm 300L



Mugil cephalus 355
2 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.020 50 cm 500L



Liza saliens 355
15 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.010 40 cm 400L



Liza vaigiensis 355
7-9 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.020 60 cm 600L



Liza sp. 355
15 1/2 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.020 35 cm 400L



Aldrichetta forsteri 355
11 1/2 ~ ♀ ♂ ♀ ♂ 22°C sg: 1.020 50 cm 500L

#347A



Sphyræna barracuda 356
 1-2, 7-10 ~ 1 火 25°C sg: 1,022 200 cm 2000L

Sphyræna barracuda 356
 1-2, 7-10 ~ 1 火 25°C sg: 1,022 200 cm 2000L



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#348

Parachanna filamentosa 358
7.4x4.0 cm TL 26°C sp: 1.022 8 cm 100L





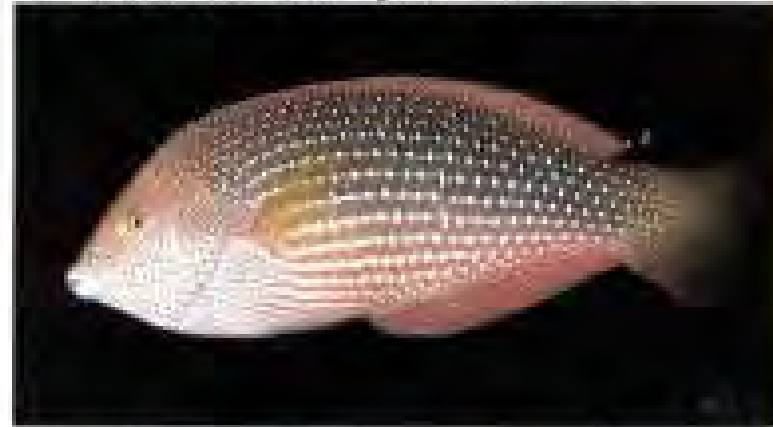
Anampses caeruleopunctatus 358
6-10 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 40 cm 300L



Anampses melanogrides 358
7-10 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 22 cm 200L



Anampses curier 358 ♂
6 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 38 cm 300L



Anampses curier 358 ♀
6 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 38 cm 300L



Anampses phrysocephalus 358 ♂
6 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 16 cm 200L



Anampses phrysocephalus 358 ♀
6 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 16 cm 200L



Anampses geographicus 358
6-9 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 25 cm 250L



Anampses neoguinaicus 358
7-8 ~ ♀ ♂ ♀ ♂ 25 26°C sg: 1.020 14 cm 150L

426

#329



Anampses caeruleopunctatus 358
6-10 ♀♂ 26°C sg: 1.020 40 cm 300L



Anampses farrardi 358
7 ♀♂ 26°C sg: 1.020 25 cm 300L



Anampses lineatus 358
9-10 ♀♂ 26°C sg: 1.020 12 cm 150L



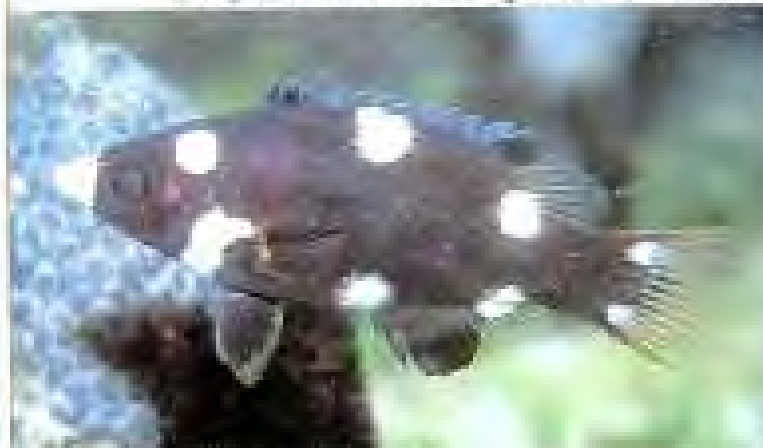
Anampses fawcetti 358
6-10 ♀♂ 26°C sg: 1.020 18 cm 200L



Bodianus opercularis 358
7-9 ♀♂ 26°C sg: 1.020 12 cm 150L



Bodianus bimaculatus 358
7 ♀♂ 26°C sg: 1.020 9 cm 100L



Bodianus axillaris 358 (NW)
6-9 ♀♂ 26°C sg: 1.020 20 cm 250L



Bodianus axillaris 358
6-9 ♀♂ 26°C sg: 1.020 20 cm 250L



Anampses fennardi 358
7 ♀ C ♀ 25°C sg: 1,020 25 cm 300L

#350

427



Anampses femininus 358
6 ♀ C ♀ 26°C sg: 1,020 21 cm 300L



Pseudocoris bleekeri 358
7 ♀ C ♀ 26°C sg: 1,022 15 cm 200L



Anampses elegans 358
11-12 ♀ C ♀ 26°C sg: 1,020 28 cm 300L



Bodianus sp. 358
9 ♀ C ♀ 25°C sg: 1,020 21 cm 200L



Bodianus orycephalus 358
7-9 ♀ C ♀ 25°C sg: 1,020 27 cm 300L



Bodianus speciosus 358
13 ♀ C ♀ 26°C sg: 1,022 80 cm 800L



Bodianus masunai 358
5, 7 ♀ C ♀ 26°C sg: 1,020 12 cm 200L

428

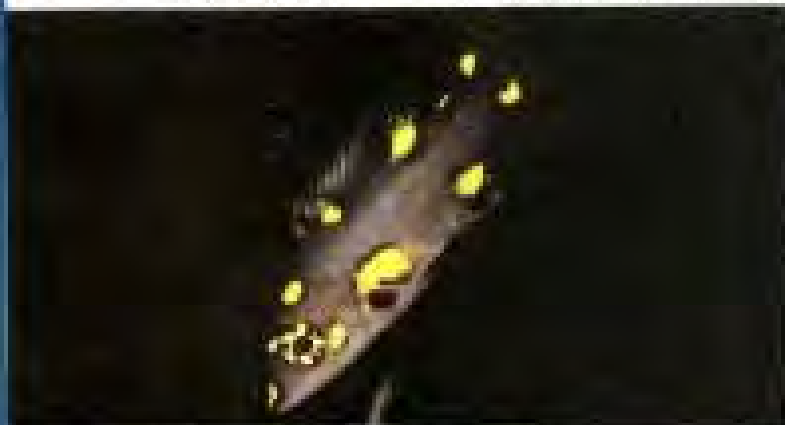


Bodianus bimaculatus 358
6-8 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 55 cm 600L

4251



Bodianus macrourus 358
7-9 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 40 cm 500L



Bodianus mesothorax 358 (juv.)
7 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 30 cm 300L



Bodianus mesothorax 358
7 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 30 cm 300L



Bodianus diama 358 (juv.)
7-10 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 25 cm 300L



Bodianus diama 358 (juv.)
7-10 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 25 cm 300L



Bodianus perdito 358
6-8 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 60 cm 800L



Bodianus perdito 358
6-8 ♀ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1.020 60 cm 800L



Bodianus bilunulatus 358 6WJ
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 55 cm 600L



Bodianus bilunulatus 358
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 55 cm 600L



Bodianus anthoides 358
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 21 cm 200L



Bodianus diana 358
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 25 cm 300L



Bodianus frenchii 358
7-9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 50 cm 500L



Bodianus macrourus 358
7-9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 40 cm 500L



Choerodon rubescens 358
12 ♀ ♂ ♀ ♂ 25°C sg: 1.020 75 cm 800L



Choerodon gaurdii 358
8, 12 ♀ ♂ ♀ ♂ 26°C sg: 1.020 125 cm 2000L

430



Bodianus rufus 358
2 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 50 cm 500L

#353



Bodianus rufus 358
2 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 50 cm 500L



Bodianus pulchellus 358 (juv.)
2 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 23 cm 300L



Bodianus pulchellus 358
2 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 23 cm 300L



Bodianus eplanchei 358
3 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 25 cm 300L



Bodianus eplanchei 358
3 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 25 cm 300L



Bodianus diplosteus 358
3 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 76 cm 800L



Bodianus diplosteus 358
3 ♀♂ ♂ ♀ ♂ ♂ 26°C sg: 1.020 76 cm 800L



Choerodon cyanodus 358
12 ~ ♀ ♂ 26°C sg: 1.020 30 cm 300L



Choerodon anchorago 358
7-9 ~ ♀ ♂ 26°C sg: 1.020 25 cm 300L



Choerodon azurite 358
7 ~ ♀ ♂ 26°C sg: 1.020 40 cm 500L



Choerodon jordani 358
7 ~ ♀ ♂ 26°C sg: 1.020 14 cm 200L



Choerodon schoenleinii 358
7 ~ ♀ ♂ 26°C sg: 1.020 100 cm 2000L



Choerodon schoenleinii 358
7 ~ ♀ ♂ 26°C sg: 1.020 100 cm 2000L



Cheilinus erycephalus 358
7-8 ~ ♀ ♂ 26°C sg: 1.020 17 cm 200L



Cheilinus unifasciatus 358
6-7 ~ ♀ ♂ 26°C sg: 1.020 30 cm 300L

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#355



Cheilinus bimaculatus 358
7-9 ~ ♀ ♂ 26°C sg: 1.020 15 cm 200L

Cheilinus bimaculatus 358
7-9 ~ ♀ ♂ 26°C sg: 1.020 15 cm 200L



Cheilinus digrammus 358
6-10 ~ ♀ ♂ 26°C sg: 1.020 35 cm 400L

Cheilinus digrammus 358
6-10 ~ ♀ ♂ 26°C sg: 1.020 35 cm 400L



Cheilinus digrammus 358
6-10 ~ ♀ ♂ 26°C sg: 1.020 35 cm 400L

Cheilinus fasciatus 358
6-9 ~ ♀ ♂ 26°C sg: 1.020 35 cm 400L



Cheilinus lunulatus 358
10 ~ ♀ ♂ 27°C sg: 1.020 50 cm 500L

Cheilinus triobatus 358
6-9 ~ ♀ ♂ 26°C sg: 1.020 40 cm 400L



Cheilinus undulatus 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 330 cm 5000L



Cheilinus digrammus 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 35 cm 400L



Cheilinus chlorourus 358
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 38 cm 400L



Cirrhilabrus sp. 358
9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 10 cm 100L ^d



Cirrhilabrus cyanopleura 358
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 15 cm 200L



Cirrhilabrus cyanopleura 358
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 15 cm 200L ^d



^d *Cirrhilabrus exquisitus* 358
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 11 cm 150L



Cirrhilabrus exquisitus 358
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 11 cm 150L [♀]

434



♂ *Cirrhilabrus rubriventrals* 358
10 ~ ♀ 26°C sg: 1.030 7.5 cm 100L

#357



Cirrhilabrus melanomarginatus 358
7 ~ ♀ 26°C sg: 1.022 13 cm 100L ♂



Cirrhilabrus sp. 358
7-8 ~ ♀ 26°C sg: 1.022 10 cm 100L



Cirrhilabrus lemmingi 358
7, 12 ~ ♀ 26°C sg: 1.022 10 cm 100L ♂



Cirrhilabrus labouti 358
7-8 ~ ♀ 26°C sg: 1.022 10 cm 100L



Cirrhilabrus sp. "D." 358
7-8 ~ ♀ 26°C sg: 1.022 10 cm 100L ♂



♂ *Cirrhilabrus lineatus* 358
7-8 ~ ♀ 26°C sg: 1.022 10 cm 100L



Cirrhilabrus cyanopectus 358
5, 7 ~ ♀ 26°C sg: 1.022 9 cm 100L ♂



Cirrhilabrus jordanii 358
 6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Cirrhilabrus scortorum 358
 6 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 8 cm 100L



Cirrhilabrus lubbocki 358
 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 100L



Cirrhilabrus rubripinnis 358
 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 100L



Verruculus sanguineus 358
 6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 150L



Coniella apterygia 358
12 ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.020 8 cm 100L



Coris caudimacula 358
7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 20 cm 200L



Coris auricularis 358
12 ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.020 32 cm 400L



Coris auricularis 358 (gr.)
12 ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.020 32 cm 400L



Coris aygula 358 (gr.)
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 120 cm 2000L



Coris aygula 358
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 120 cm 2000L



Coris variegata 358
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 20 cm 200L



Coris variegata 358
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 20 cm 200L



Coris julis 358 ♂
15 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 25 cm 300L



Coris julis 358 ♂
15 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 25 cm 300L



Coris pictoides 358
7, 12 ♀ ◯ ♣ ◻ ◼ ◽ 24°C sg: 1.020 15 cm 200L



Coris bulbifrons 358 ♂
11-12 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.020 30 cm 400L



Coris picta 358 (juv.)
7-8, 11-12 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.020 25 cm 300L



Coris picta 358 ♂
7-8, 11-12 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.020 25 cm 300L



Coris sandageri 358 (juv.)
11-12 ♀ ◯ ♣ ◻ ◼ ◽ 25°C sg: 1.020 25 cm 300L



Coris dorsomacula 358 ♂
7-8 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.020 15 cm 200L

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Coris auricularis 358 (liv)
12 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 24°C sg: 1.020 32 cm 400L

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Coris auricularis 358
12 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 24°C sg: 1.020 32 cm 400L



Coris flaviventris 358
6 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 45 cm 500L



Coris flaviventris 358
6 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 45 cm 500L



Coris caudimaculata 358
7-10 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 20 cm 200L



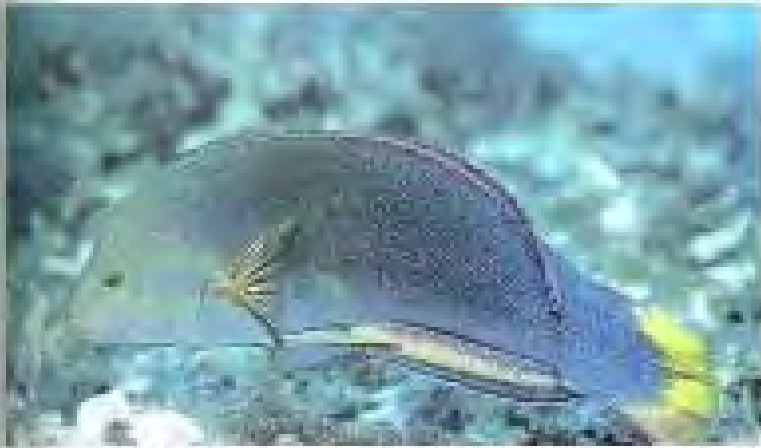
Coris caudimaculata 358
7-10 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 20 cm 200L



Coris venusta 358
6 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 15 cm 200L



Coris bailliei 358
6 ♀ ♂ ♣ ♣ ☐ ☐ ☐ 26°C sg: 1.020 35 cm 400L



Coris gaimard africana 358 ♂
 9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 35 cm 400L



Coris gaimard africana 358 (fw.)
 9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 35 cm 400L



Coris formosa 358 ♀
 9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 60 cm 800L



Coris formosa 358 (fw.)
 9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 60 cm 800L



Coris formosa 358 ♂
 9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 60 cm 800L



Epibulus insidiator 358
 6-10 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.022 35 cm 400L



Dirosteacanthus xanthurus 358
 7-9" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 10 cm 100L



Gampohosus varius 358
 7-9 ½" ♀ ◯ ♥ ◻ ◼ ◽ 26°C sg: 1.020 30 cm 300L



Halichoeres bipocellatus 358
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 10 cm 100L



Halichoeres chrysus 358
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 10 cm 100L



Halichoeres triopplus 358
9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 10 cm 100L



Halichoeres nebulosus 358
7-9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 11 cm 100L



Halichoeres marginatus 358 ♂
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 18 cm 200L



Halichoeres marginatus 358 ♂
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 18 cm 200L



Halichoeres scapularis 358 ♂
9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 20 cm 200L



Halichoeres scapularis 358 ♂
9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 20 cm 200L



Halichoeres prosopion 358 (NW)
7 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 17 cm 200L



Halichoeres prosopion 358
7 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 17 cm 200L



Halichoeres zeylonicus 358
9 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 17 cm 200L



Halichoeres hartzfeldii 358
7 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 16 cm 200L



Halichoeres trispilus 358
8 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 10 cm 100L



Halichoeres midis 358 (NW)
9 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 11 cm 100L



Halichoeres brownfieldi 358 (NW)
12 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 15 cm 200L



Halichoeres brownfieldi 358
12 ♀ C ♀ ♀ ♀ ♀ 26°C sg: 1.020 15 cm 200L

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Halichoeres pelliciarl 358 ♂
9 ½ C ♀ 26°C sg: 1.020 15 cm 200L

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Halichoeres timorensis 358 (NW)
7 ½ C ♀ 26°C sg: 1.020 20 cm 200L



Halichoeres melasmapomus 358 ♂
7, 9 ½ C ♀ 26°C sg: 1.020 12 cm 100L



Halichoeres melanurus 358 ♂
7 ½ C ♀ 26°C sg: 1.020 12 cm 100L



Halichoeres cosmetus 358 ♂
9 ½ C ♀ 26°C sg: 1.020 11 cm 100L



Halichoeres indis 358 (NW)
9 ½ C ♀ 26°C sg: 1.020 11 cm 100L



Halichoeres timorensis 358 ♂
7 ½ C ♀ 26°C sg: 1.020 20 cm 200L



Halichoeres melanochir 358 ♂
7 ½ C ♀ 26°C sg: 1.020 18 cm 200L



Halichoeres argus 358 (♂)
7 ½ C ♀ ♂ 26°C sg: 1.020 12 cm 100L



Halichoeres argus 358
7 ½ C ♀ ♂ 26°C sg: 1.020 12 cm 100L ♂



Halichoeres biocellatus 358 (♂)
7 ½ C ♀ ♂ 26°C sg: 1.020 10 cm 100L



Halichoeres biocellatus 358
7 ½ C ♀ ♂ 26°C sg: 1.020 10 cm 100L



Halichoeres hoeweni 358 (♂)
8-7 ½ C ♀ ♂ 26°C sg: 1.020 12 cm 100L



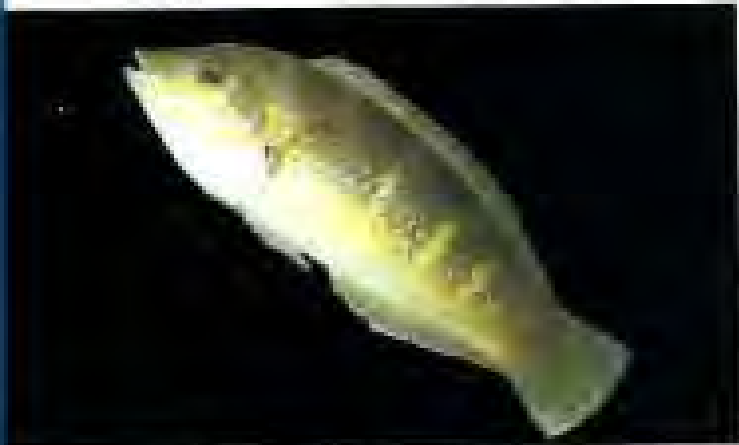
Halichoeres melanurus 358
7 ½ C ♀ ♂ 26°C sg: 1.020 12 cm 100L ♂



Halichoeres bimaculatus 358
7, 9 ½ C ♀ ♂ 26°C sg: 1.020 12 cm 100L



Halichoeres chloropterus 358
7 ½ C ♀ ♂ 26°C sg: 1.020 15 cm 200L



Halichoeres nigrescens 358
7, 12 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 30 cm 400L



Halichoeres marginatus 358 (w)
6-10 ♀ C ♡ ♣ ☼ ☽ 25°C sg: 1.020 18 cm 200L



Halichoeres poecilopterus 358
7 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 34 cm 400L



Halichoeres poecilopterus 358
7 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 34 cm 400L



Halichoeres margaritaceus 358
6-8 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 12 cm 100L



Halichoeres margaritaceus 358
6-8 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 12 cm 100L



Halichoeres nebulosus 358
7-9 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 11 cm 100L



Halichoeres trimaculatus 358
7 ♀ C ♡ ♣ ☼ ☽ 26°C sg: 1.020 18 cm 200L



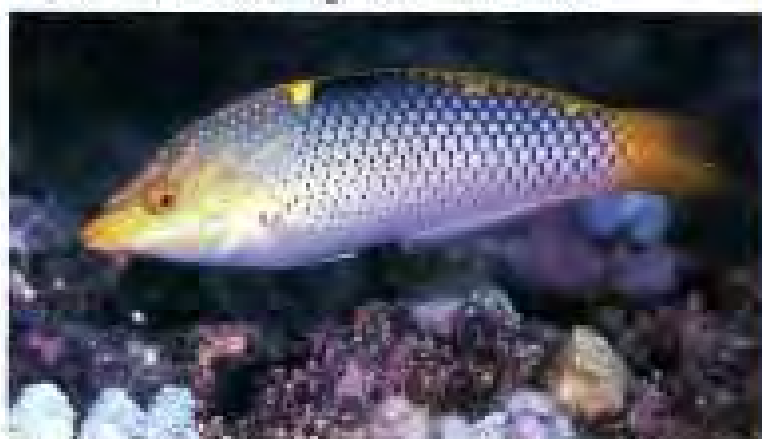
Halichoeres chloropterus 358 (4w)
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 15 cm 200L



Halichoeres chloropterus 358
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 15 cm 200L



Halichoeres hortulanus 358 (4w)
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 22 cm 300L



Halichoeres hortulanus 358 ♂
6-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 22 cm 300L



Halichoeres melanochir 358
7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 18 cm 200L



Halichoeres podostigma 358
6-7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 16 cm 200L



Halichoeres miniatus 358
7-8 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 16 cm 100L



Halichoeres ornatus 358
6-7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.020 18 cm 200L

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Halichoeres cyanocephalus 358 (juv.)
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 30 cm 300L

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Halichoeres cyanocephalus 358 ♂
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 30 cm 300L



Halichoeres maculipinna 358 ♀
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 18 cm 200L



Halichoeres maculipinna 358 ♂
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 18 cm 200L



Halichoeres poeyi (juv.) 358
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 20 cm 200L



Halichoeres poeyi 358 ♂
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 20 cm 200L



Halichoeres bathyphilus 358
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 23 cm 300L



Halichoeres pictus 358 ♂
2 1/2 C ♀ ▾ ▢ 26°C sg: 1.020 13 cm 150L

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Halichoeres garnoti 358
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 19 cm 200L



Halichoeres garnoti 358 (juv.)
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 19 cm 200L



Halichoeres bivittatus 358 ♂
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 22 cm 300L



Halichoeres garnoti 358 ♂
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 19 cm 200L



Halichoeres bivittatus 358 ♂
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 22 cm 300L



Halichoeres bivittatus 358 ♀
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 22 cm 300L



Halichoeres radiatus 358
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 46 cm 500L



Halichoeres radiatus 358 ♂
2 ♀ ♀ ♂ ♀ ♂ 26°C sg: 1.020 46 cm 500L



Halichoeres semicinctus 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 24°C sg: 1.020 36 cm 400L



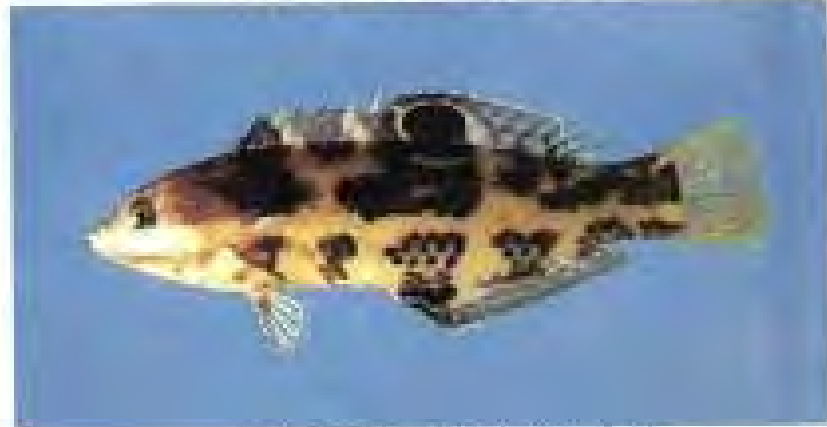
Halichoeres chierchiae 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 20 cm 200L^d



Halichoeres nicholsi 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 38 cm 400L



Halichoeres nicholsi 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 30 cm 400L^d



Halichoeres nicholsi 358 (U-W)
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 38 cm 400L



Halichoeres sp. 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 12 cm 100L



Halichoeres dispilus 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 20 cm 200L



Halichoeres dispilus 358
3 ♀ 0 ♀ 0 ♀ 0 ♀ 26°C sg: 1.020 20 cm 200L^d



Gomphosus varius 358
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.020 30 cm 300L



Gomphosus caeruleus 358
9-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 28 cm 300L



Gomphosus varius 358 (juv.)
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.020 30 cm 300L



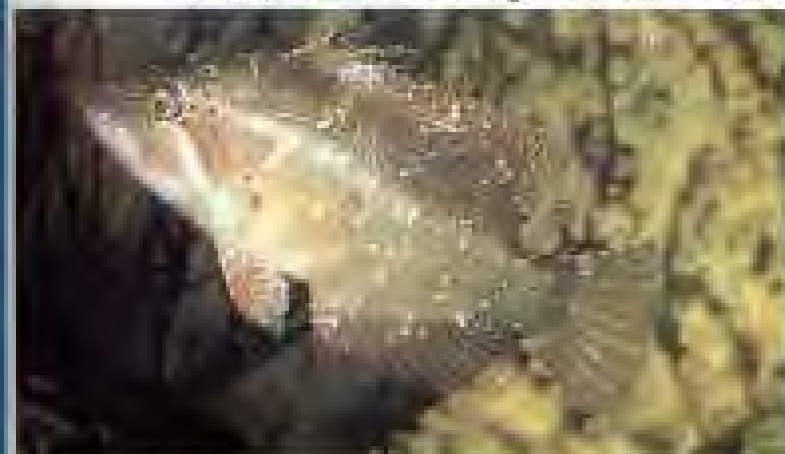
Hologymnosus annulatus 358 (juv.)
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 40 cm 400L



Epibulus insidiator 358
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



Epibulus insidiator 358 (juv.)
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



Pteragogus flagellifer 358
9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 20 cm 200L



Pteragogus pelycus 358
9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 15 cm 200L

450



Hemigymnus fasciatus (juv.) 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 40 cm 400L

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Hemigymnus fasciatus 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 40 cm 400L



Hemigymnus melapterus 358
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 90 cm 1000L



Hologymnosus annulatus 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 40 cm 400L



Hologymnosus dollatus 358 (juv.)
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 45 cm 500L



Hologymnosus dollatus 358
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 45 cm 500L



Hologymnosus dollatus 358
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 45 cm 500L



Pteragogus pelycus 358
9 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.020 15 cm 200L



Labrichthys unilineatus 358 (juv.)
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 18 cm 200L



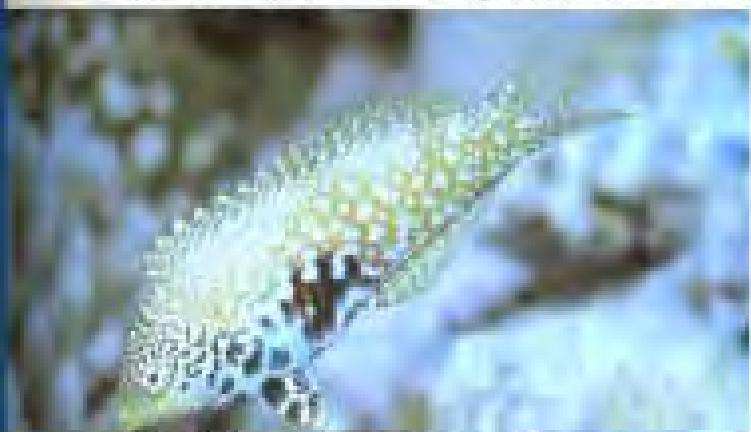
Labrichthys unilineatus 358
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 18 cm 200L



Labropsis xanthonota 358
6-8 ♀ ♂ ♀ ♂ 26°C sg: 1.020 10 cm 100L



Lablabius quadrilineatus 358
10 ♀ ♂ ♀ ♂ 27°C sg: 1.030 12 cm 100L



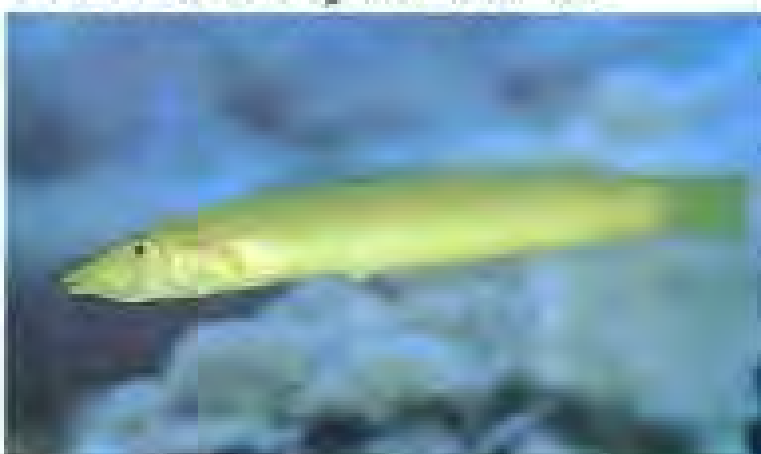
Macropharyngodon bipartitus 358
8-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 11 cm 100L



Macropharyngodon cyanoguttatus 358
9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 12 cm 100L



Macropharyngodon ornatus 358
7-9 ♀ ♂ ♀ ♂ 26°C sg: 1.020 12 cm 100L



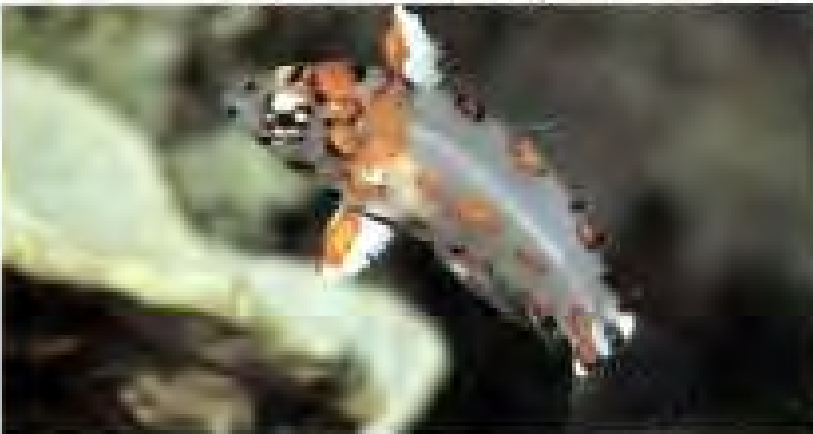
Cheilodactylus inermis 358
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.020 50 cm 500L



Liopardella fasciata (juv.) 358
7-8 ~ ◯ ♀ ♂ 26°C sg: 1.020 30 cm 300L



Liopardella fasciata (adult) 358
7-8 ~ ◯ ♀ ♂ 26°C sg: 1.020 30 cm 300L



Macropharyngodon choati (juv.) 358
8 ~ ◯ ♀ ♂ 26°C sg: 1.020 10 cm 100L



Macropharyngodon choati (adult) 358
8 ~ ◯ ♀ ♂ 26°C sg: 1.020 10 cm 100L



Macropharyngodon negrosensis 358
7 ~ ◯ ♀ ♂ 26°C sg: 1.020 12 cm 100L



Macropharyngodon geoffroyi 358
6-7 ~ ◯ ♀ ♂ 26°C sg: 1.020 18 cm 200L



Macropharyngodon meleagris 358
6-9 ~ ◯ ♀ ♂ 26°C sg: 1.020 15 cm 200L



Macropharyngodon meleagris 358
6-9 ~ ◯ ♀ ♂ 26°C sg: 1.020 15 cm 200L



Lionardella fasciata(adult) 358
7-8 ~ 0 ~ 26°C ~ sg: 1.020 ~ 30 cm ~ 300L

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Stethojulis interrupta 358 ♀
7-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 13 cm 100L



Stethojulis interrupta 358 ♂
7-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 13 cm 100L



Stethojulis strigiventer 358 ♀
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Labropsis alleni 358 ♂
6-7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 8 cm 100L



Labropsis micronesica 358 ♂
6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 8 cm 100L



Labropsis xanthonota 358 ♂
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 10 cm 100L



Wetmorella nigropinnata 358 ♀
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 7 cm 100L



Labropsis manabai 358 ♂
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.020 12 cm 100L



Stethojulis balteata 358 ♀
7 ~ ♀ ◻ ♥ ◻ ◻ 26°C sg: 1.022 14 cm 100L

Stethojulis balteata 358 ♂
7 ~ ◻ ◻ ♥ ◻ ◻ 26°C sg: 1.022 14 cm 100L



Stethojulis bandanensis 358 ♀
7 ~ ♀ ◻ ♥ ◻ ◻ 26°C sg: 1.022 15 cm 200L

Stethojulis bandanensis 358 ♂
7 ~ ◻ ◻ ♥ ◻ ◻ 26°C sg: 1.022 15 cm 200L



Stethojulis trilineata 358 ♀
7-10 ~ ♀ ◻ ♥ ◻ ◻ 26°C sg: 1.022 15 cm 200L

Stethojulis trilineata 358 ♂
7-10 ~ ◻ ◻ ♥ ◻ ◻ 26°C sg: 1.022 15 cm 200L



Stethojulis albovittata 358 ♀
9-10 ~ ♀ ◻ ♥ ◻ ◻ 26°C sg: 1.022 13 cm 100L

Stethojulis albovittata 358 ♂
9-10 ~ ◻ ◻ ♥ ◻ ◻ 26°C sg: 1.022 13 cm 100L

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Xyrichtys splendens 358
 2 ♀ C ♀ □ □ 26°C sg: 1.022 14 cm 100L

Xyrichtys novacula 358
 2, 13 ♀ C ♀ □ □ 26°C sg: 1.022 22 cm 200L



Xyrichtys splendens 358
 2 ♀ C ♀ □ □ 26°C sg: 1.022 14 cm 100L

Xyrichtys martinicensis 358
 2 ♀ C ♀ □ □ 26°C sg: 1.022 15 cm 200L



Xyrichtys pavo (juv.) 358
 3, 6-10 ♀ C ♀ □ □ 26°C sg: 1.022 35 cm 400L

Xyrichtys martinicensis 358
 2 ♀ C ♀ □ □ 26°C sg: 1.022 15 cm 200L



Xyrichtys pavo 358
3, 6-10 ♀♂ 26°C sg: 1.022 35 cm 400L



Xyrichtys sp. 358
8 ♀♂ 26°C sg: 1.022 12 cm 100L



Xyrichtys pavo 358
1, 6-10 ♀♂ 26°C sg: 1.022 35 cm 400L



Xyrichtys dea (juv.) 358
7 ♀♂ 26°C sg: 1.022 30 cm 300L



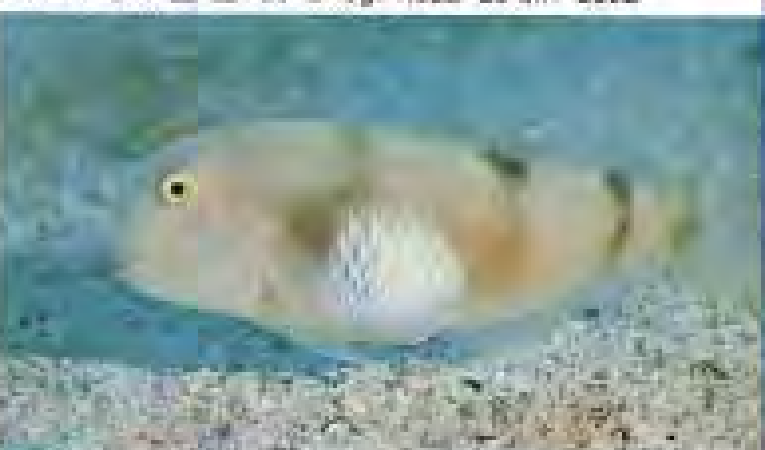
Xyrichtys pentadactylus 358
7-10 ♀♂ 26°C sg: 1.022 25 cm 300L



Xyrichtys pentadactylus 358
7-10 ♀♂ 26°C sg: 1.022 25 cm 300L



Xyrichtys verrana 358
7 ♀♂ 26°C sg: 1.022 30 cm 300L



Xyrichtys aneitensis 358
6-7 ♀♂ 26°C sg: 1.022 25 cm 300L

458



Xyrichtys pavo 358 (m)
3, 6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L

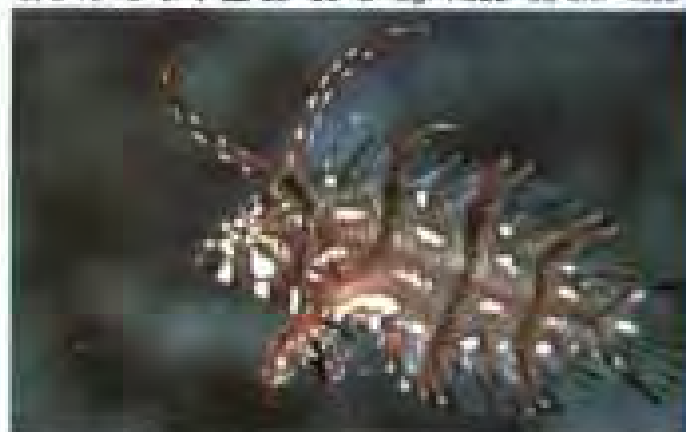
#381



Xyrichtys pavo 358
3, 6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 35 cm 400L



Novaculichthys taeniourus 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



Novaculichthys taeniourus 358 (m)
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



Novaculichthys macrolepidotus 358
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 100L



Pseudocheilinus evanidus 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Pseudocheilinus hexataenia 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Pseudocheilinus octotaenia 358
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 12 cm 100L



Paracheilinus filamentosus 358
 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 100L^d



Paracheilinus carpenteri 358
 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 100L



Paracheilinus lineopunctatus 358
 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 100L^d



Pseudocoris yamashiroi 358
 5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Minifabrus striatus 358
 10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.030 4 cm 50L

460



Paracheilinus octofasciatus 358
10 ♀♂ ♂ ♀ ♀ ♀ 27°C sg: 1.030 9 cm 100L

#383



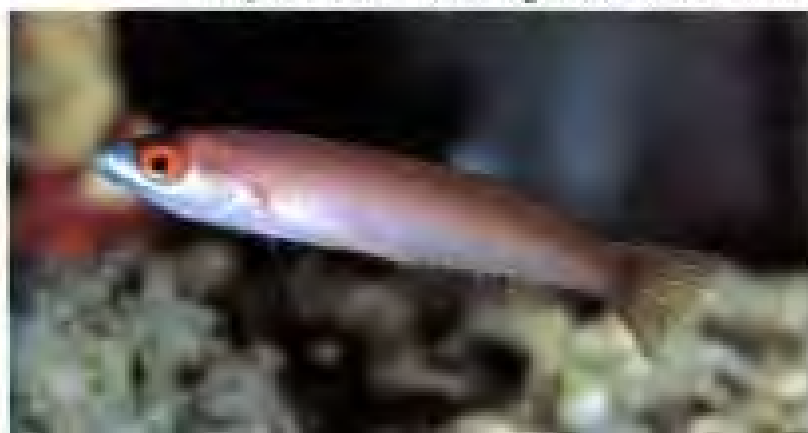
Pseudocoris yamashiroi 358
7 ♀♂ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



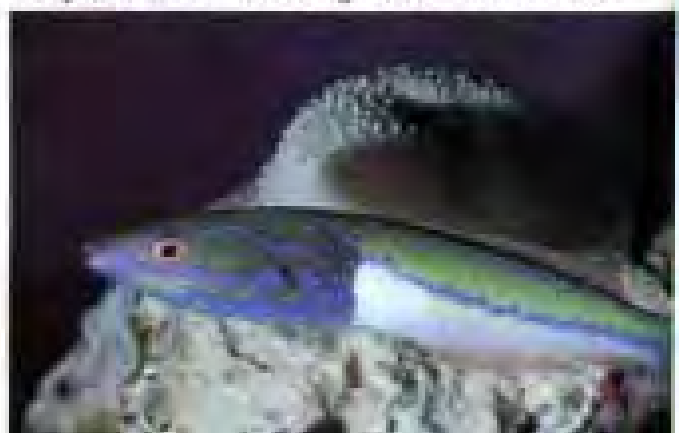
Ophthalmolepis lineolatus 358
12 ♀♂ ♂ ♀ ♀ ♀ 24°C sg: 1.020 40 cm 400L



Ophthalmolepis lineolatus 358
12 ♀♂ ♂ ♀ ♀ ♀ 24°C sg: 1.020 40 cm 400L



Pseudojuloides erythrops 358
9 ♀♂ ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Pseudojuloides erythrops 358
9 ♀♂ ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Pseudojuloides infasciatus 358
8 ♀♂ ♂ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Pseudojuloides cerasinus 358
6-9 ♀♂ ♂ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 100L

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Pseudojuloides sp. 358
7~9 ♀♂ 26°C sg: 1.022 10 cm 100L



Pseudojuloides cerasimus 358 ♂
6-9 ♀♂ 26°C sg: 1.022 12 cm 100L



Pseudojulis melanopus 358
3 ♀♂ 26°C sg: 1.022 20 cm 200L



Pseudojuloides elongatus 358 ♂
7-8, 12 ♀♂ 25°C sg: 1.022 14 cm 100L



Pseudojulis notospilus 358 ♂
3 ♀♂ 26°C sg: 1.022 25 cm 300L



Pseudojulis notospilus 358 ♂
3 ♀♂ 26°C sg: 1.022 25 cm 300L



Pseudochellinus sp. 358
6 ♀♂ 26°C sg: 1.022 13 cm 100L



Pseudochellinus terraenaia 358
6 ♀♂ 26°C sg: 1.022 12 cm 100L



Cirrhilabrus biatfeus 358 ♂
10 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.028 10 cm 100L



Cirrhilabrus biatfeus 358 ♀
10 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.028 10 cm 100L



Leptojulis cyanopleura 358 ♂
6 ~ 7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 9 cm 200L



Leptojulis chrysozona 358 ♂
7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 6 cm



Picilabrus sp. 358 ♂
7, 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 14 cm 160L



Picilabrus latidorsus 358 ♂
7, 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 20 cm 200L



Pseudolabrus biserialis 358 ♂
7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 20 cm 200L



Picilabrus latidorsus 358 ♂
7, 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 °C sg: 1.022 20 cm 200L



Semicossyphus pulcher 358 ♂
3-4ヶ月 0.4ヶ月 22°C sg: 1.024 91 cm 1500L



Semicossyphus pulcher 358 ♀
3-4ヶ月 0.4ヶ月 22°C sg: 1.024 91 cm 1500L



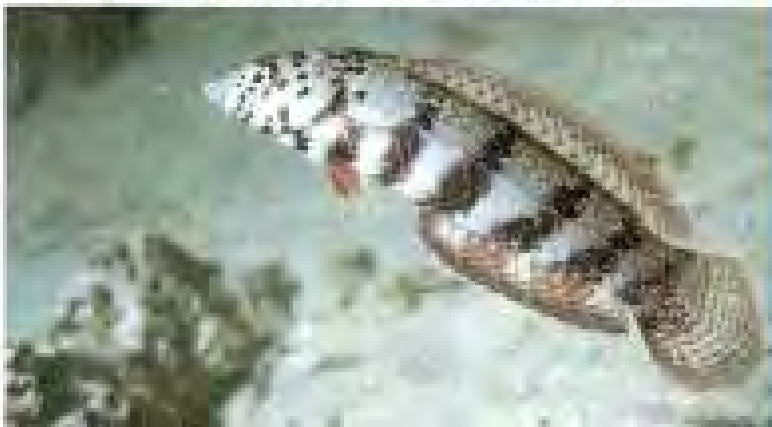
Semicossyphus reticulatus 358 (juv.)
7ヶ月 0.4ヶ月 26°C sg: 1.022 100 cm 2000L



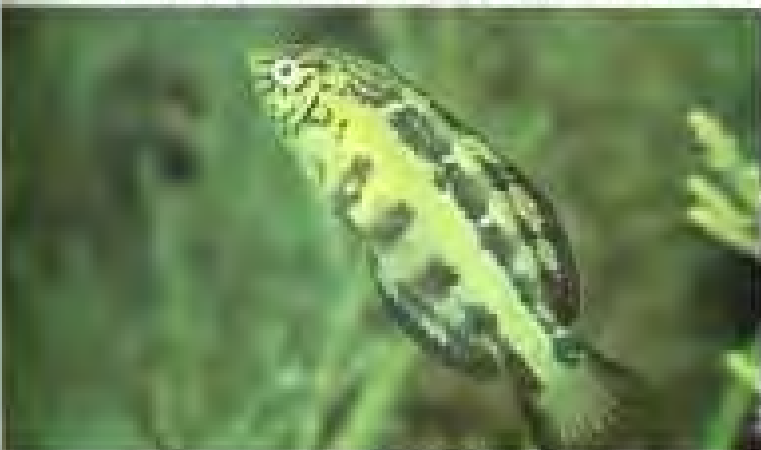
Semicossyphus reticulatus 358
7ヶ月 0.4ヶ月 26°C sg: 1.022 100 cm 2000L



Pseudolebrius miles 358
11-12ヶ月 0.4ヶ月 22°C sg: 1.024 38 cm 400L



Eupetrichthys angustipes 358
12ヶ月 0.4ヶ月 22°C sg: 1.024 15 cm 400L



Dotalebrius aureofasciatus 358
12ヶ月 0.4ヶ月 23°C sg: 1.022 20 cm 200L



Dotalebrius sp. 358
12ヶ月 0.4ヶ月 23°C sg: 1.022 9 cm 100L

464



Suezichthys gracilis 358
5, 7, 8, 12 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 15 cm 200L

#387



Suezichthys gracilis 358
5, 7, 8, 12 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Pseudolabrus gymnogenis 358
12 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 38 cm 460L



Pseudolabrus fulvulentus 358
11-12 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 24 cm 300L



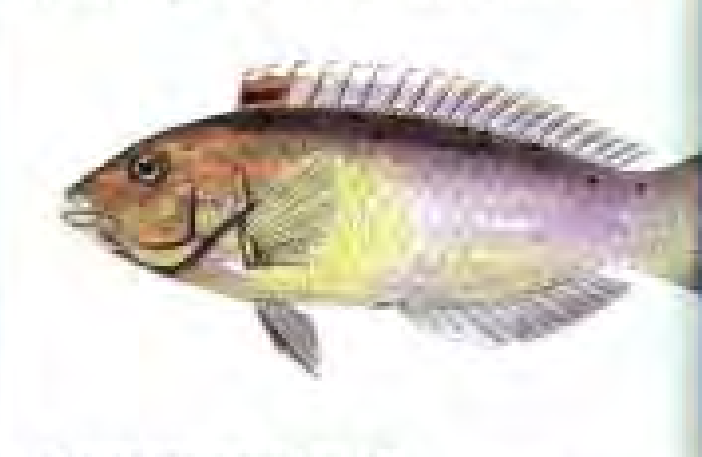
Pseudolabrus inscriptus 358
11 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Pseudolabrus celidotus 358
11 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 24 cm 300L



Pseudolabrus japonicus 358
5, 7 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Pseudolabrus guntheri 358
8 ♀♂ ♂ ♀ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Pseudolabrus biserialis 358 ♂
 12 ♀ ◯ ♣ ◻ ◼ ◽ 24°C sg: 1.022 20 cm 200L



Pseudolabrus parvus 358 ♀
 12 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 45 cm 500L



Stethojulis bandanensis 358 ♂
 7 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 15 cm 200L



Stethojulis strigiventer 358 ♀
 6-9 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 15 cm 200L



Thalassoma amblycephalum 358 ♂
 7-9 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 16 cm 200L



Thalassoma amblycephalum 358 ♀
 7-9 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 16 cm 200L



Thalassoma penicillatum 358 ♂
 9 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 20 cm 200L



Thalassoma hardenocke 358 ♂
 7-9 ♀ ◯ ♣ ◻ ◼ ◽ 26°C sg: 1.022 18 cm 200L



Thalassoma lucasanum 358 (juv)
3 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Thalassoma lucasanum 358 ♂
3 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Thalassoma bifasciatum 358
2 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Thalassoma bifasciatum 358
2 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Thalassoma jansseni 358
7 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



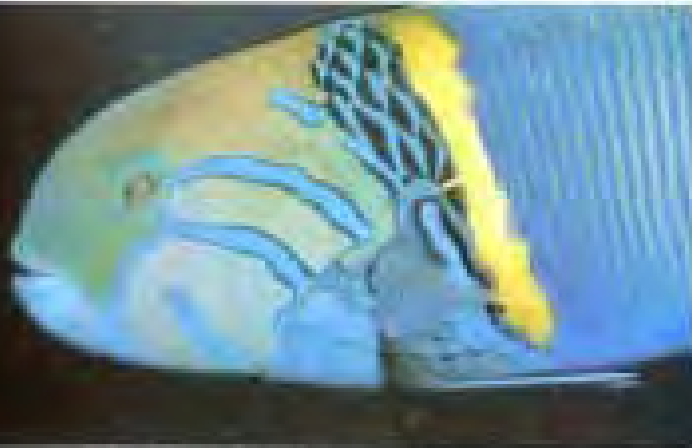
Thalassoma bifasciatum 358 ♂
2 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Thalassoma ballieu 358
6 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 45 cm 500L



Thalassoma duperreyi 358
6 1/2" C ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Thalassoma hebraicum 358
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Thalassoma hebraicum 358 ♂
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Thalassoma lunare 358 ♂
8-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



Thalassoma lutescens 358 ♂
7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 200L



Thalassoma quinquevittatum 358 ♂
6-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 17 cm 200L



Thalassoma künzingeri 358 ♂
10 ♀ ♂ ♀ ♂ 26°C sg: 1.030 20 cm 200L



Thalassoma genivittatum 358
9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Pseudodax moluccanus 358
6-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 25 cm 300L



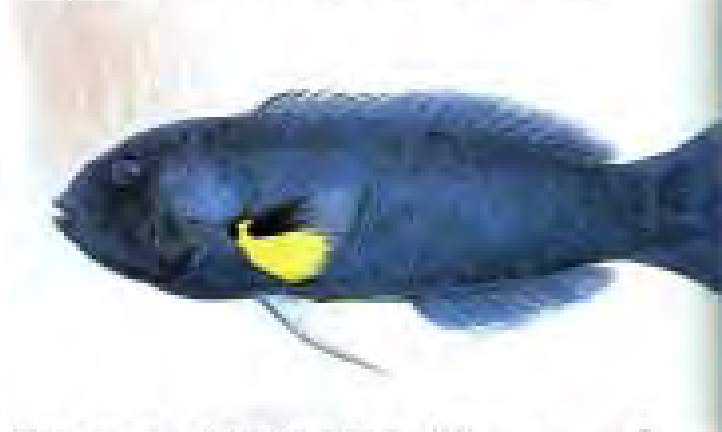
Thalassoma purpuraceum 358
6-8 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 43 cm 500L



Thalassoma lutescens 358
7 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 15 cm 200L



Thalassoma septemfasciatum 358 ♂
7, 12 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 23 cm 300L



Thalassoma septemfasciatum 358 ♂
7, 12 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 23 cm 300L



Tautoglabrus adspersus 358
1 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 38 cm 400L



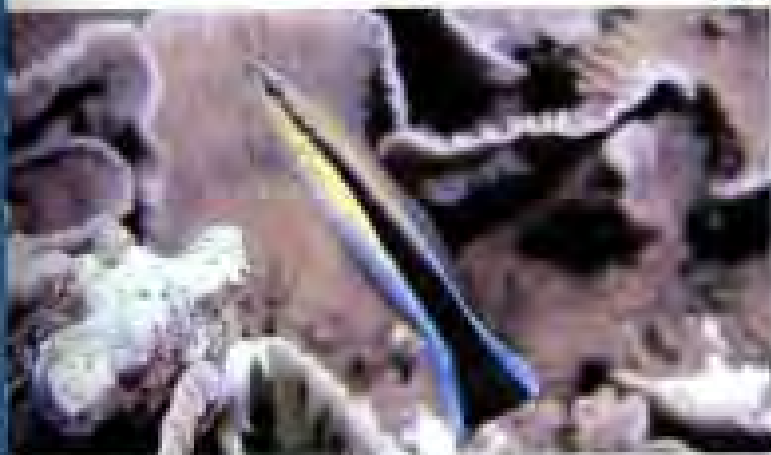
Thalassoma trilobatum 358
6-9 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 30 cm 300L



Suezichthys sp. 358 ♂
11 ♀ ♂ ♡ ☐ ☒ 26°C sg: 1.022 18 cm 200L



Suezichthys sp. 358 ♀
11 ♀ ♂ ♡ ☐ ☒ 20°C sg: 1.024 16 cm 200L



Labroides dimidiatus 358
6-10 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 12 cm 150L



Labroides phthirophagus 358
8 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 10 cm 100L



Labroides rubrolabialis 358
6 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 6 cm 100L



Labroides pectoralis 358
7-8 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 12 cm 100L



Labroides bicolor 358
7-9 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 14 cm 150L



Xenojulis margaritaceus 358
7, 12 ♀♂ ◯ ♡ ◻ ◼ 25°C sg: 1.023 12 cm 100L



Labrus bergyllia 358
13-15 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 60 cm 800L



Labrus merula 358
13-15 ♀♂ ◯ ♡ ◻ ◼ 26°C sg: 1.022 45 cm 500L



Lachnolaimus maximus 358
2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 91 cm 1500L



Lachnolaimus maximus 358
2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 91 cm 1500L



Clepticus parrae 358
2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Clepticus parrae 358
2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Decodon pueffaris 358
2 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Decodon metasma 358
3 ~ ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Doratomotus megalepis 358
2 ~ ♀ ♂ ♀ ♀ ♀ 24°C sg: 1.022 7.5 cm 100L



Oryzias californica 358
3-4 ~ ♀ ♂ ♀ ♀ ♀ 22°C sg: 1.023 26 cm 300L



Symphodus melanocara 358 ♀
 15 ♀ ♂ ♣ ♣ ♣ 25°C sg: 1.022 14 cm 150L



Symphodus ocellatus 358 ♂
 15 ♀ ♂ ♣ ♣ ♣ 25°C sg: 1.022 12 cm 100L



Symphodus dodonaei 358
 15 ♀ ♂ ♣ ♣ ♣ 25°C sg: 1.022 10 cm 100L



Symphodus tinca 358
 14-15 ♀ ♂ ♣ ♣ ♣ 24°C sg: 1.022 35 cm 400L



Symphodus cinereus 358
 14-15 ♀ ♂ ♣ ♣ ♣ 24°C sg: 1.022 15 cm 200L



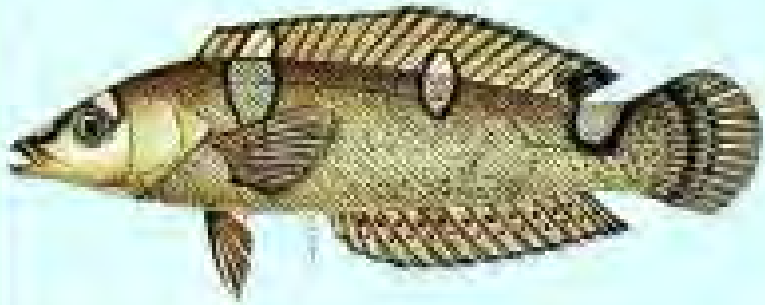
Symphodus mediterraneus 358
 14-15 ♀ ♂ ♣ ♣ ♣ 25°C sg: 1.022 15 cm 200L



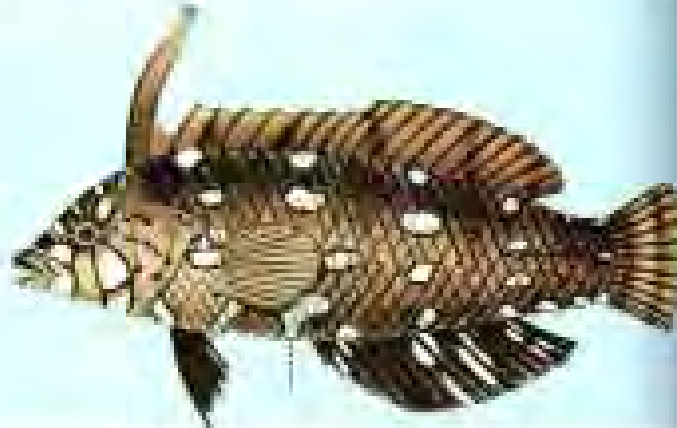
Symphodus rostratus 358 ♂
 14-15 ♀ ♂ ♣ ♣ ♣ 24°C sg: 1.022 17 cm 200L



Symphodus rostratus 358
 15 ♀ ♂ ♣ ♣ ♣ 24°C sg: 1.022 13 cm 150L



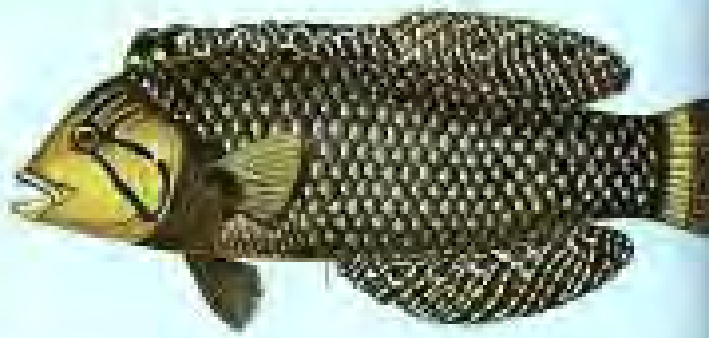
Coris gaimard 358
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



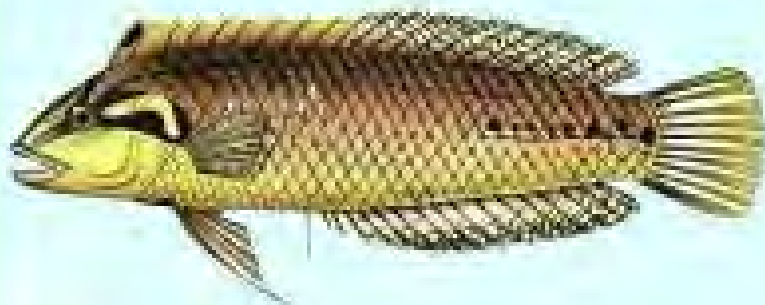
Novaculichthys taeniourus (juv.) 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



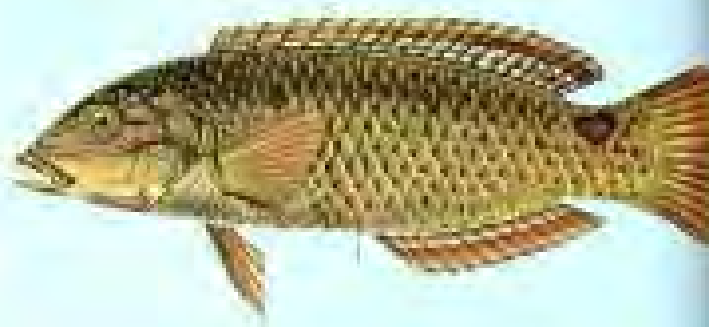
Chelio inermis 355
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 50 cm 500L



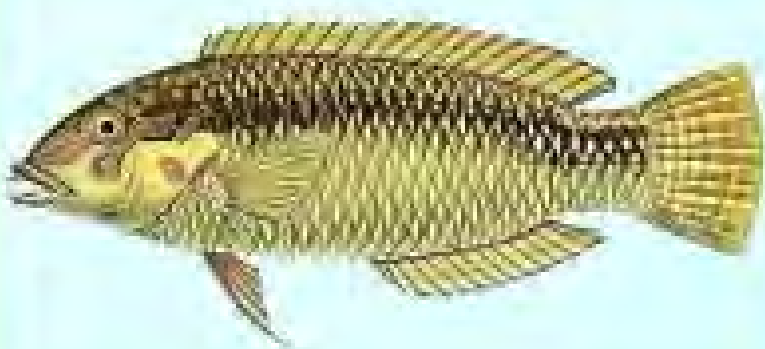
Novaculichthys taeniourus (adult) 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



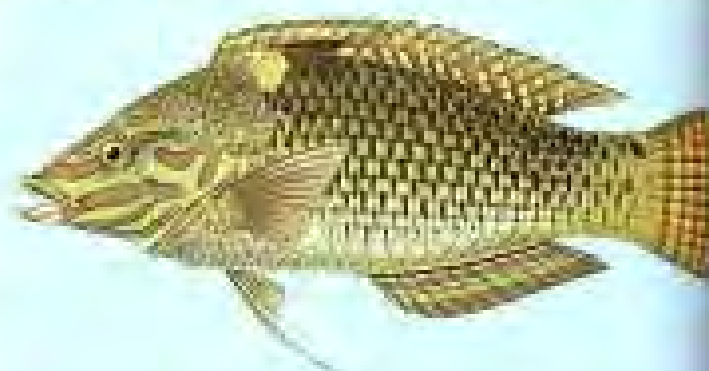
Novaculichthys macrolepidotus 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 150L



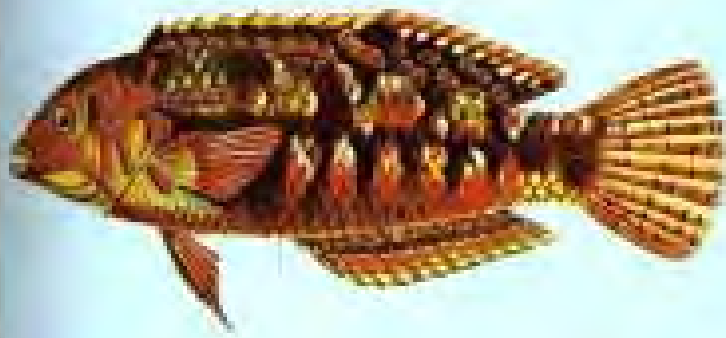
Halichoeres trimaculata 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



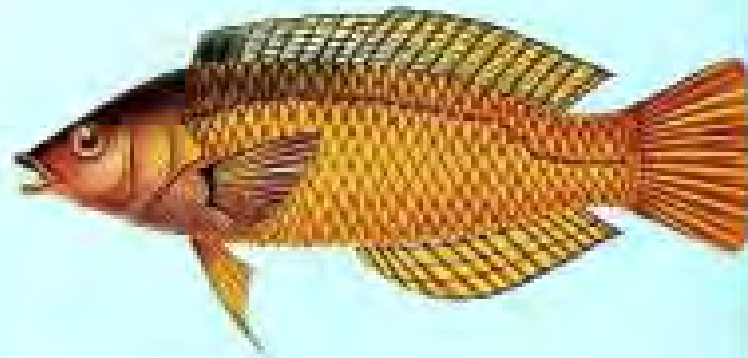
Halichoeres scapularis 358
6-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



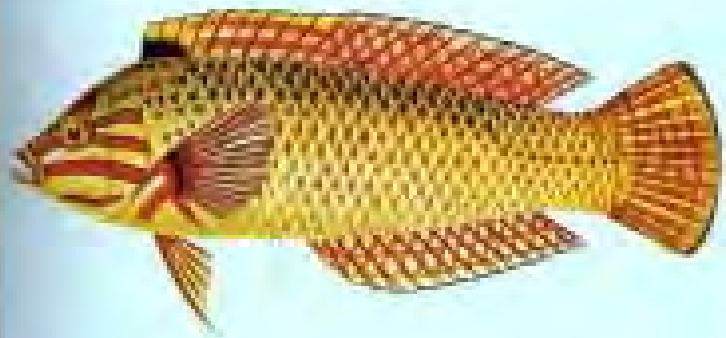
Halichoeres hortulanus 358
7-10 ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 27 cm 300L



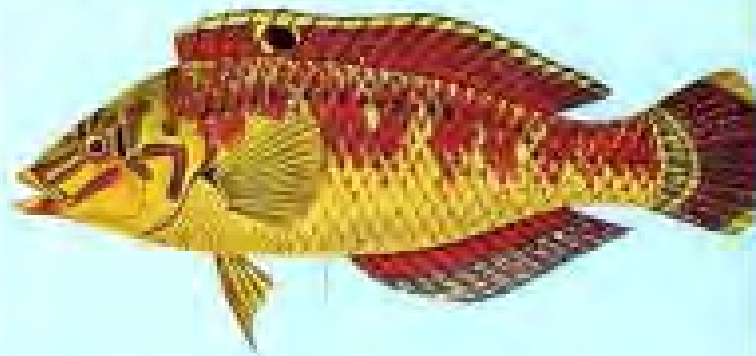
Halichoeres nebulosus 358
 8-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 12 cm 150L



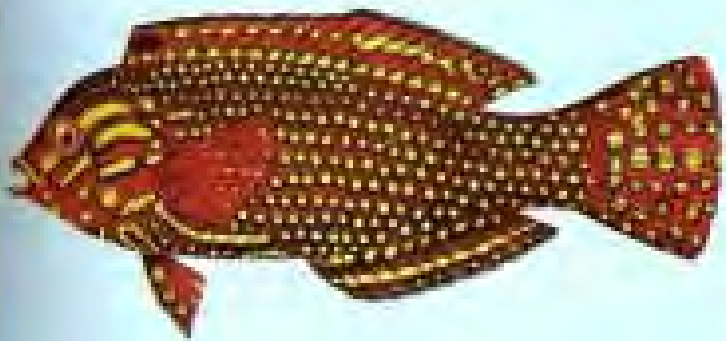
Halichoeres prosopelon 358
 7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



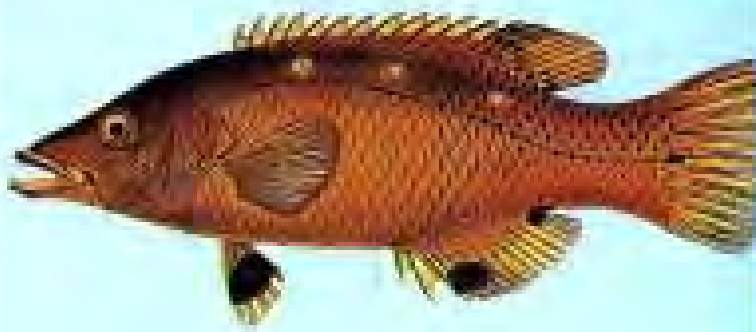
Halichoeres amboiensis 358
 7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



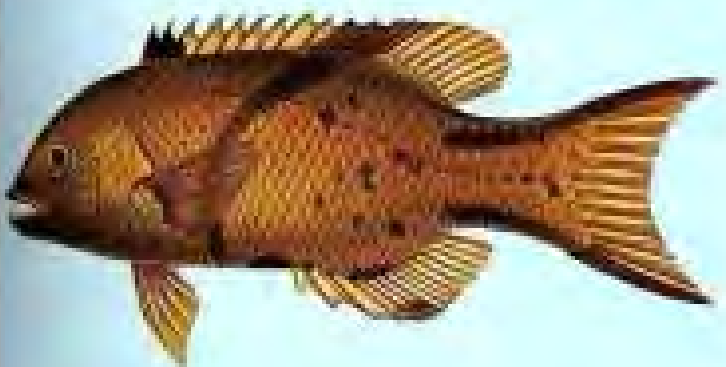
Halichoeres nigrescens 358
 7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



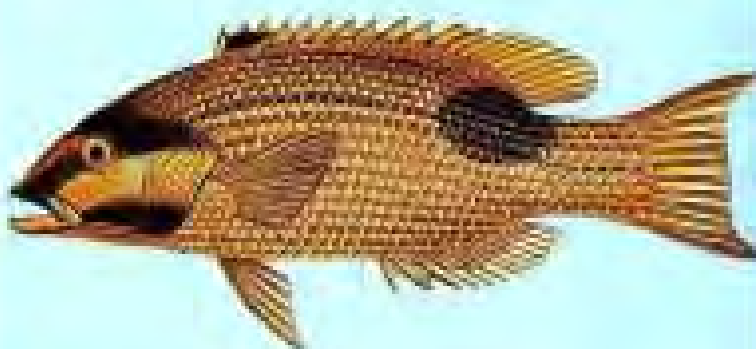
Macropharyngodon meleagria 358
 6-7 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 150L



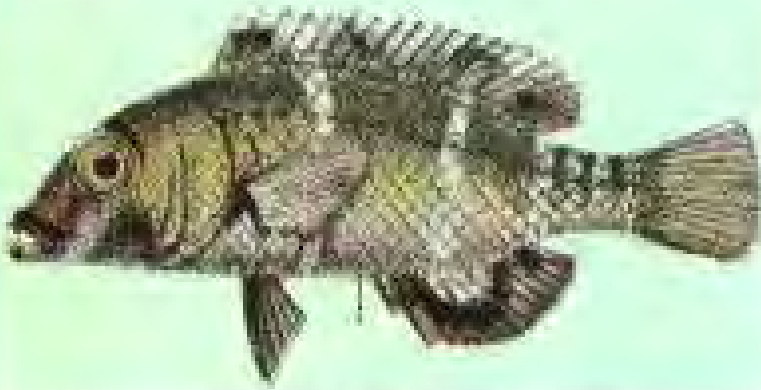
Bodianus diana 358
 7, 9-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



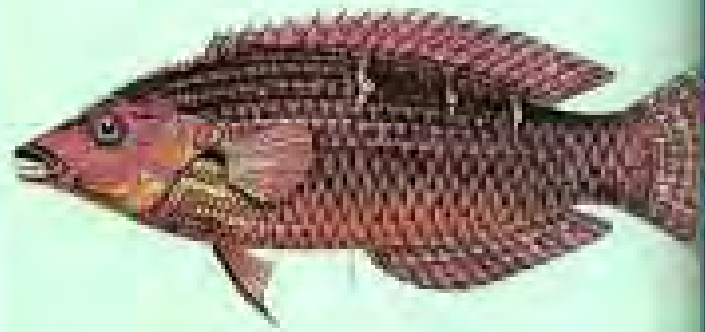
Bodianus anthracinus 358
 7-10 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 21 cm 200L



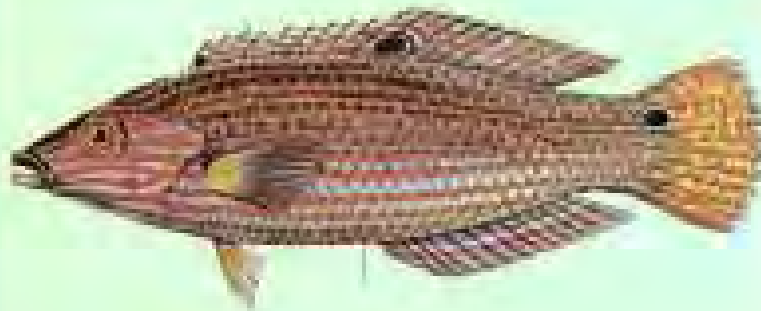
Bodianus bimaculatus 358
 7, 9 ♀ ♂ ♀ ♀ ♀ 26°C sg: 1.022 55 cm 600L



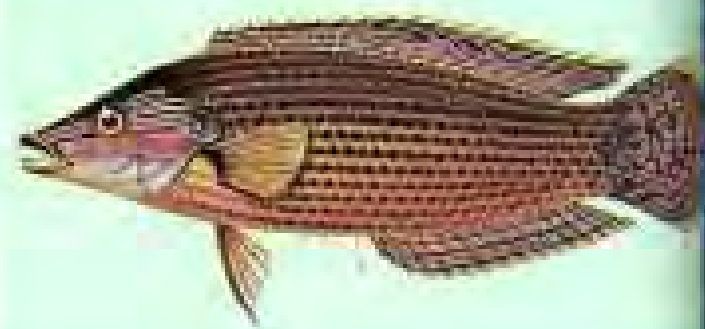
Choerodon anchorago (juv.) 358
7-9 ♀ ♂ ♀ ♂ 26°C sg: 1,020 25 cm 300L



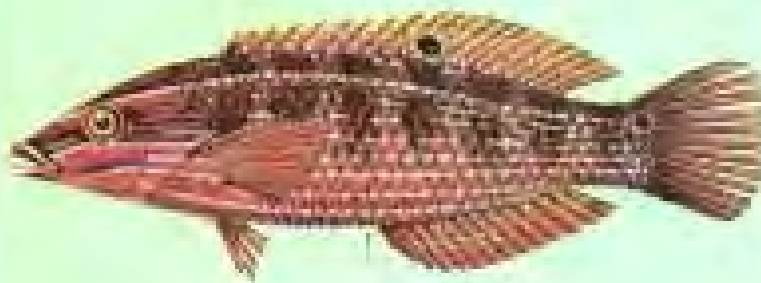
Halichoeres hoevenii 358
6-7 ♀ ♂ ♀ ♂ 26°C sg: 1,020 12 cm 100L



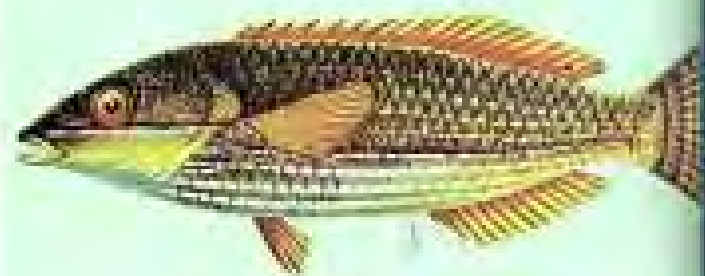
Halichoeres hoevenii 358
6-7 ♀ ♂ ♀ ♂ 26°C sg: 1,020 12 cm 100L



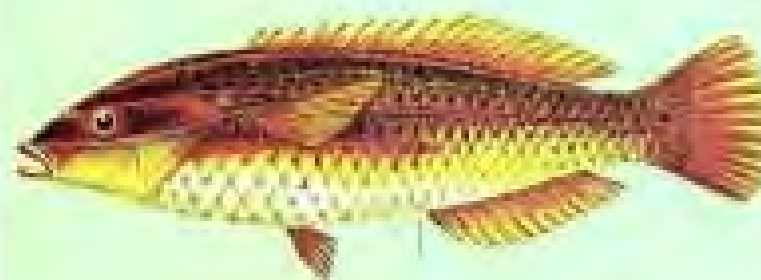
Halichoeres kallochroma 358
7 ♀ ♂ ♀ ♂ 26°C sg: 1,020 15 cm 100L



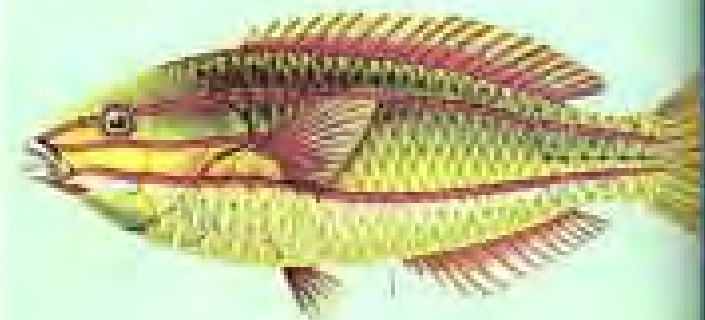
Halichoeres argus 358
7 ♀ ♂ ♀ ♂ 26°C sg: 1,020 12 cm 100L



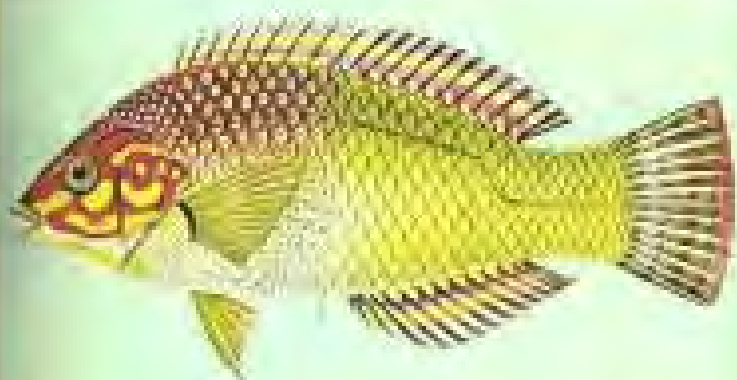
Stegajulis strigiventer 358
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1,022 15 cm 200L



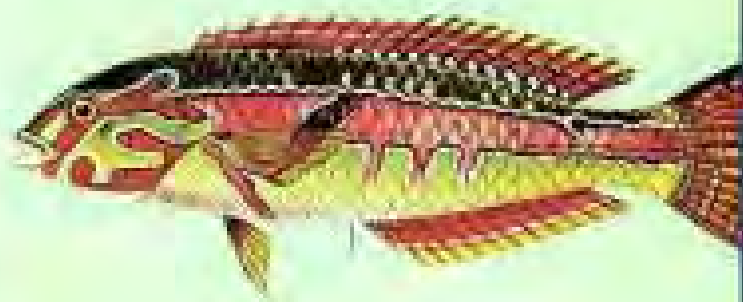
Stegajulis strigiventer 358
6-9 ♀ ♂ ♀ ♂ 26°C sg: 1,022 15 cm 200L



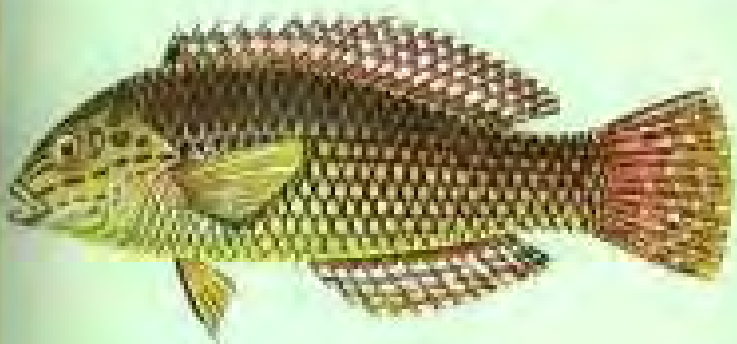
Stegajulis trilineata 358
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1,022 15 cm 200L



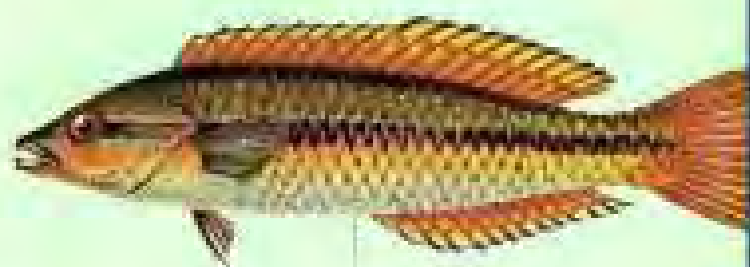
Halichoeres chloropterus 358
 7 ♀ 0 ♀ 26°C sg: 1.020 15 cm 200L



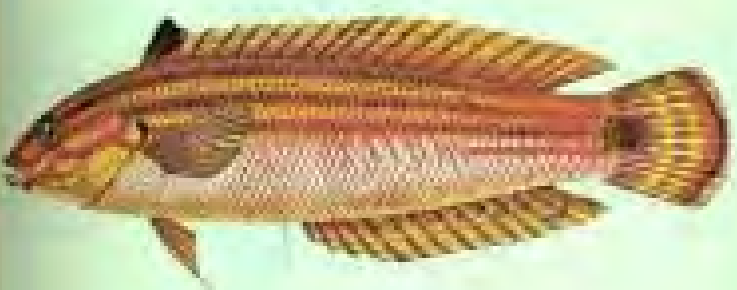
Halichoeres hartzfeldii 358
 7 ♀ 0 ♀ 26°C sg: 1.020 18 cm 200L



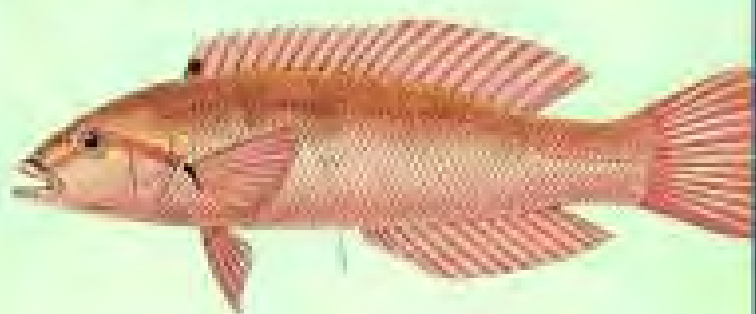
Halichoeres pardaliocephalus 358
 7, 9 ♀ 0 ♀ 26°C sg: 1.020 9 cm 100L



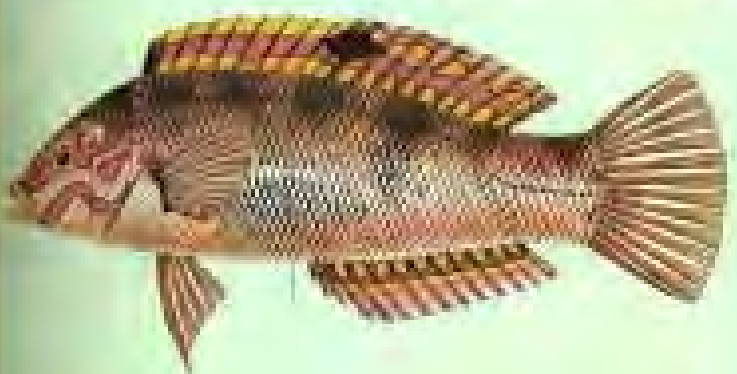
Leptojulis cyanopleura 358
 6-7 ♀ 0 ♀ 26°C sg: 1.022 9 cm 200L



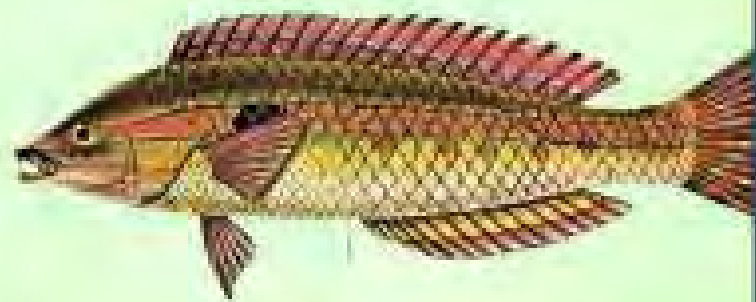
Coris caudimaculata 358
 7-10 ♀ 0 ♀ 26°C sg: 1.020 28 cm 200L



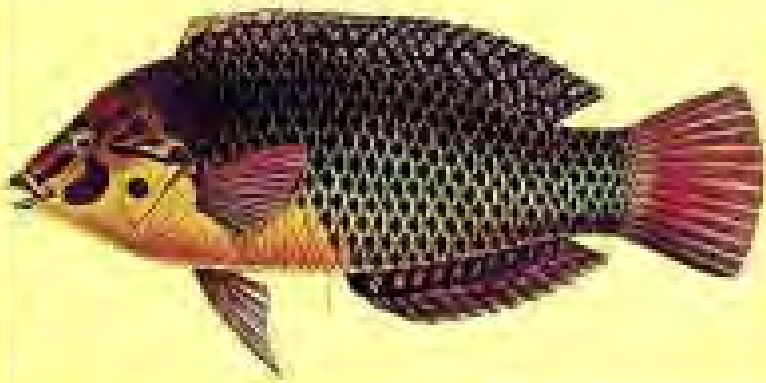
Coris batuensis 358
 7 ♀ 0 ♀ 26°C sg: 1.022 11 cm 150L



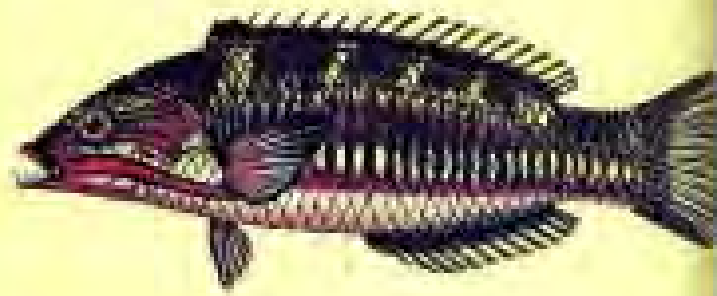
Coris variegata 358
 6-10 ♀ 0 ♀ 26°C sg: 1.020 20 cm 200L



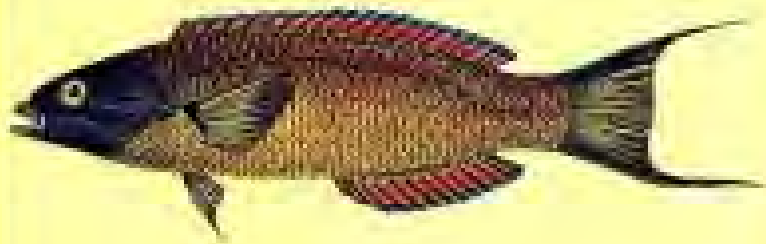
Leptojulis cyanopleura 358
 6-7 ♀ 0 ♀ 26°C sg: 1.022 9 cm 200L



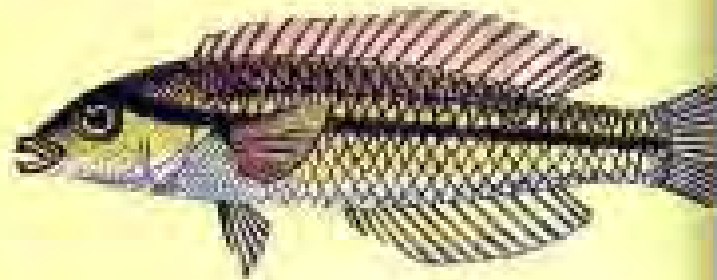
Halichoeres pavocephalus 358
7.9 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 18.5 cm 200L



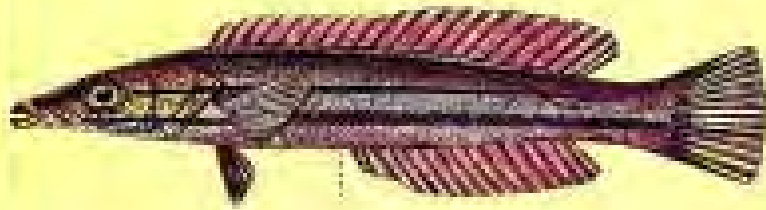
Thalassoma cupido 358
5.7 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 18 cm 150L



Thalassoma amblycephalus 358
7.9 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 16 cm 200L



Pseudojulis girardi 358
7.9 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 10 cm 100L



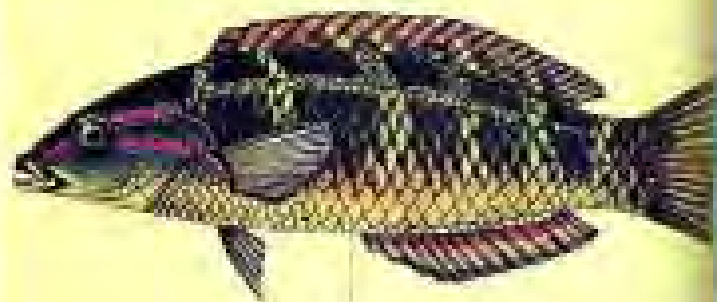
Hologymnopus dollfus 358
6.8, 12 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 32 cm 300L



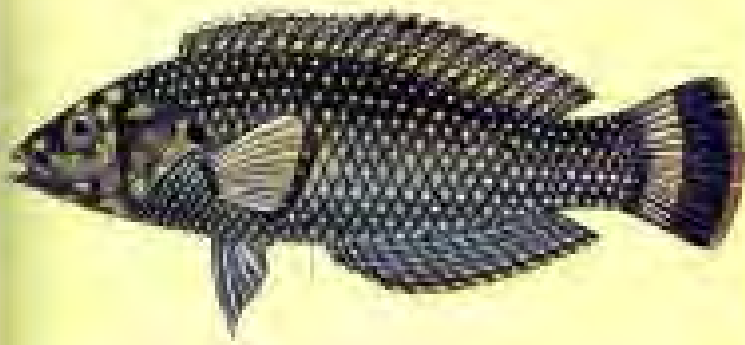
Thalassoma lunare 358
7.9 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 26 cm 300L



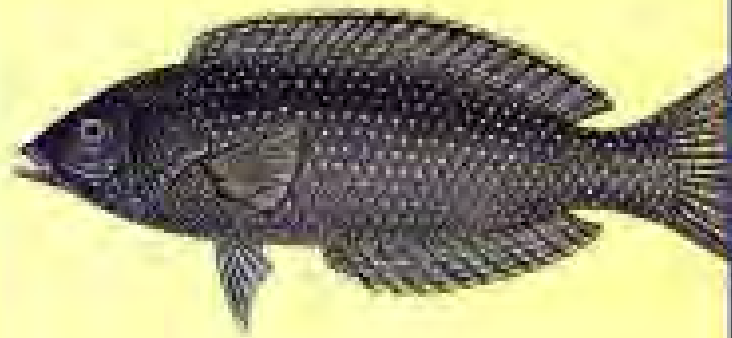
Thalassoma amblycephalus 358
7.9 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 16 cm 200L



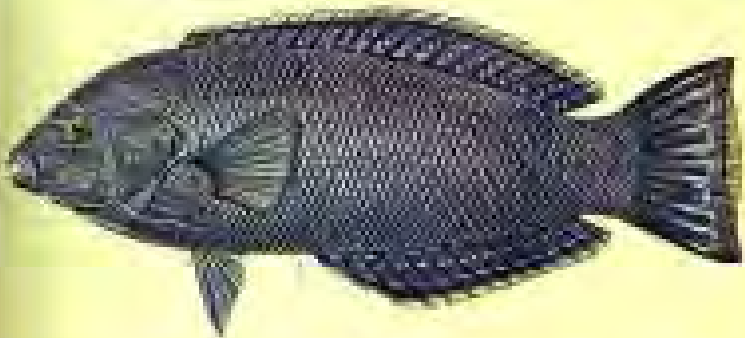
Thalassoma schwanerfeldi 358
6.7 ♀ ~♂ ◊ ♥ ◻ ◻ 26°C sg: 1.022 10 cm 100L



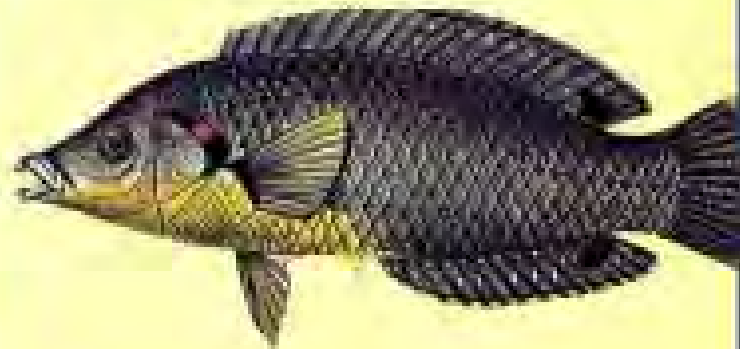
Anampses melanurus melanurus 358
6-7 ~r C ♀ ♂ 26°C sg: 1,020 12 cm 150L



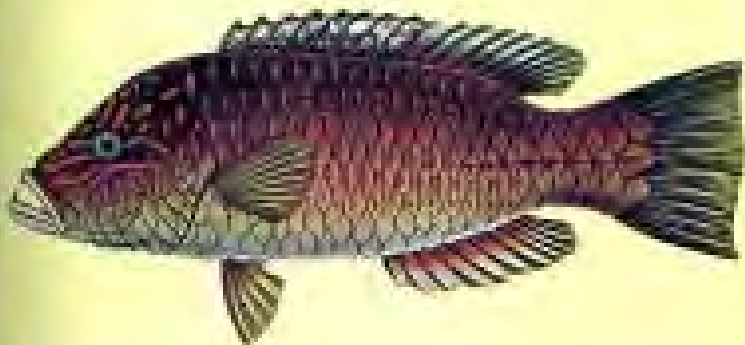
Anampses melanoideus 358
7, 9 ~r C ♀ ♂ 26°C sg: 1,020 20 cm 200L



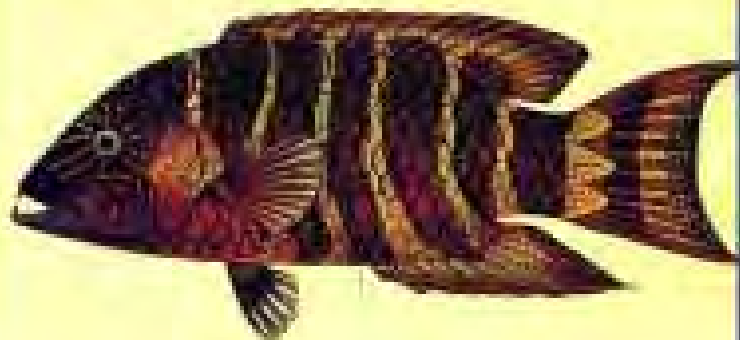
Anampses geographicus 358
6-9 ~r C ♀ ♂ 26°C sg: 1,020 25 cm 250L



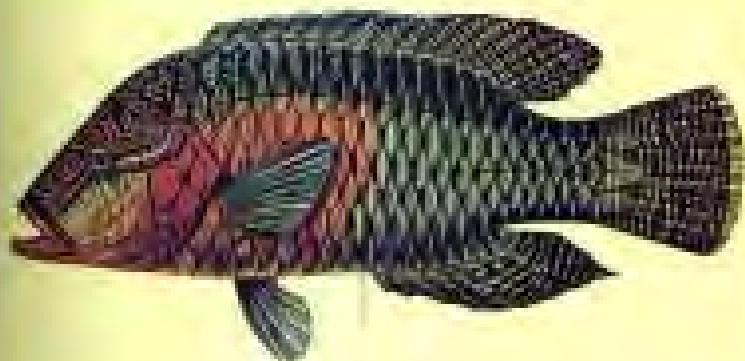
Anampses iwami 358
6-10 ~r C ♀ ♂ 26°C sg: 1,020 18 cm 200L



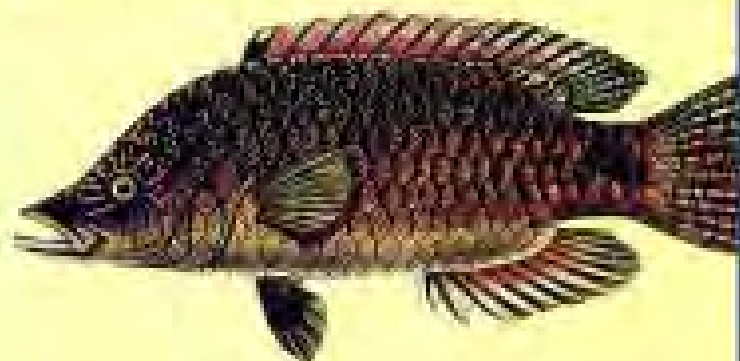
Cheilinus diogrammus 358
6-10 ~r C ♀ ♂ 26°C sg: 1,020 35 cm 400L



Cheilinus fasciatus 358
6-9 ~r C ♀ ♂ 26°C sg: 1,020 35 cm 400L



Cheilinus undulatus 358
6-10 ~r C ♀ ♂ 26°C sg: 1,022 230 cm 5000L



Cheilinus celebicus 358
7 ~r C ♀ ♂ 26°C sg: 1,020 20 cm 200L



Odax acropterus 359 ♀
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ● ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



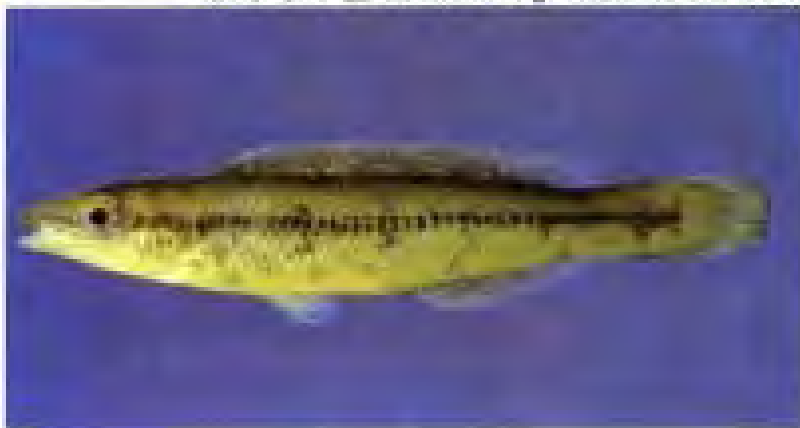
Odax acropterus 358 ♂
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Odax cyanomélas 359
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Odax cyanomélas 359
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Neodax balleatus 359
7, 12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Siphonognathus radiatus 359
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Siphonognathus argyrophanes 359
6, 7 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Siphonognathus beddomei 359
12 ~ 14 °C ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ ◁ ▷ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ●



Scarus frenatus 360
S. T. 1/2 + 0 1/2 1/2 23.26°C sg. 1.022 40 cm 400L



Cetoscarus bicolor 360 (HV) 6-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 80 cm 1000L



Cetoscarus bicolor 360 6-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 80 cm 1000L



Hipposcarus haerd 360 9-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 75 cm 1000L



Scarus gibbus 360 7-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 70 cm 1000L



Scarus gibbus 360 7-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 70 cm 1000L



Scarus praefignathos 360 ♂
5-7, 15 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 800L



Scarus niger 360 ♂
7-10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 500L



Scarus niger 360 ♀
7-10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 500L



Scarus niger 360 ♂
7-10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 500L



Scarus cyanescens 360 ♂
9 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus psittacus 360 ♂
7-10 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 27 cm 300L



Scarus rubriviolaceus 360 ♂
3, 6-9 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 66 cm 800L



Scarus rubriviolaceus 360 ♀
3, 6-9 ~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 66 cm 800L



Scarus atrilunula 360
9 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Scarus dimidiatus 360
7, 9 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 400L



Scarus sordidus 360
5-10, 15 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus venosus 360
7, 9 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus gibbus 360
7-10 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 1000L



Hipposcarus caudovittatus 360
8 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Scarus ghobban 360
7-10 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 80 cm 800L



Scarus frenatus 360
5, 7 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L

#406

443



Scarus brevifilis 360 ♂
6, 7 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 46 cm 500L



Scarus brekeri 360 ♂
6, 7 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 26 cm 300L



Scarus frontalis 360 ♂
6, 7 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 56 cm 500L



Scarus perspicillatus 360 ♂
6 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 62 cm 600L



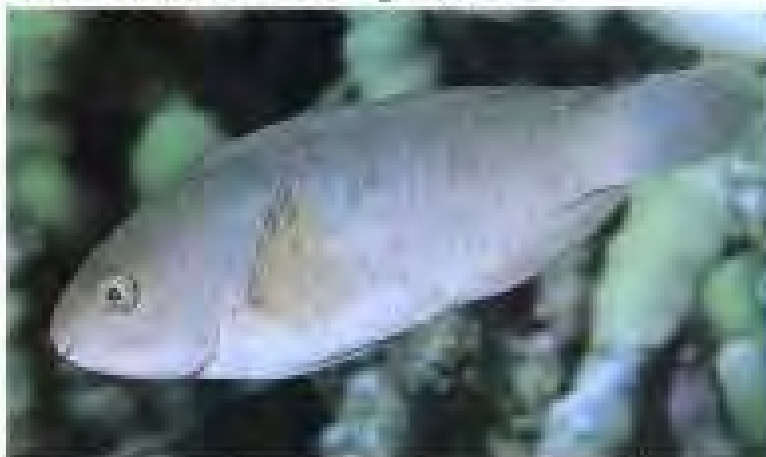
Scarus rubrivittatus 360 ♂
7-9 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Scarus sp. 360 ♂
6 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm



Scarus ferrugineus 360 ♂
9-10 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 41 cm 500L



Scarus perspicillatus 360 ♀
6 ~ ♀ + ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 62 cm 600L

#404



Balibometopon muricatus 360
7-10 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 150 cm 2000L

#407



Scarus dubius 360
5, 7, 9 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus gibbus 360
7-10 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 1000L



Scarus gibbus 360
7-10 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 1000L



Scarus schlegelii 360
5, 7, 9 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus flavipectoralis 360
6 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 15 cm 250L



Scarus tricolor 360
5, 7, 9 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Scarus sp. 360
6 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 250L



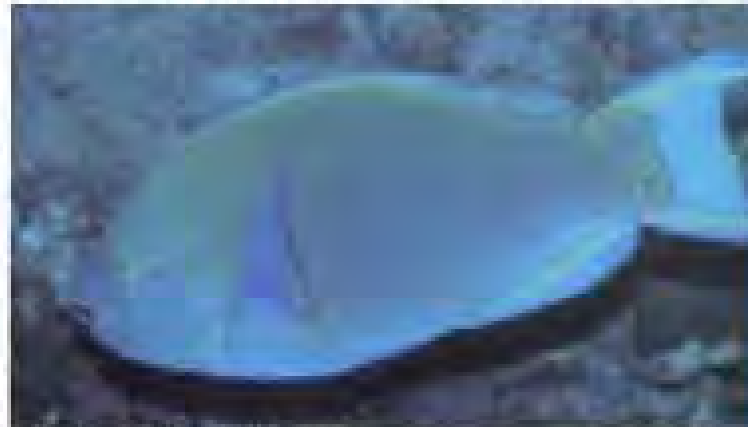
Scarus palifacus 360
7-10~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 27 cm 300L



Scarus ghobban 360
8-10~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 80 cm 800L



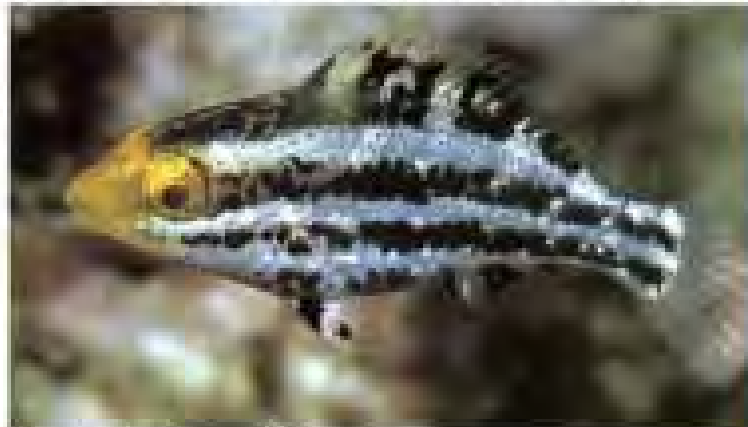
Scarus ferrugineus 360
10~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 41 cm 400L



Scarus prosiognathus 360
8-9~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 800L



Scarus frenatus 360
5, 7~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Scarus frenatus 360
5, 7~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Scarus guacamaia 360
2~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 83 cm 1000L



Scarus perico 360
3~ ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 80 cm 800L



Sparisoma atomarium 360 ♂
2~ ♀ 26°C sg: 1.022 10 cm 100L



Sparisoma atomarium 360 ♀
2~ ♀ 26°C sg: 1.022 10 cm 100L



Sparisoma aurofrenatum 360 ♂
2~ ♀ 26°C sg: 1.022 28 cm 300L



Sparisoma aurofrenatum 360 ♀
2~ ♀ 26°C sg: 1.022 28 cm 300L



Sparisoma chrysopterum 360 ♂
2~ ♀ 26°C sg: 1.022 50 cm 500L



Sparisoma chrysopterum 360 ♀
2~ ♀ 26°C sg: 1.022 50 cm 500L



Sparisoma wide 360 ♂
2~ ♀ 26°C sg: 1.022 51 cm 500L



Sparisoma wide 360 ♀
2~ ♀ 26°C sg: 1.022 51 cm 500L

400



Cryptotomus roseus 360
2~9 ~+ ◯ ♀ 25°C sg: 1.022 7 cm 100L

#411



Calotomus zonarchia 360
8~9 ~+ ◯ ♀ 26°C sg: 1.022 35 cm 400L



Calotomus japonicus 360
6-8 ~+ ◯ ♀ 26°C sg: 1.022 60 cm 600L



Calotomus spinidens 360
7, 9 ~+ ◯ ♀ 26°C sg: 1.022 19 cm 200L



Leptoscarus vaigiensis 360
7-9 ~+ ◯ ♀ 26°C sg: 1.022 35 cm 400L



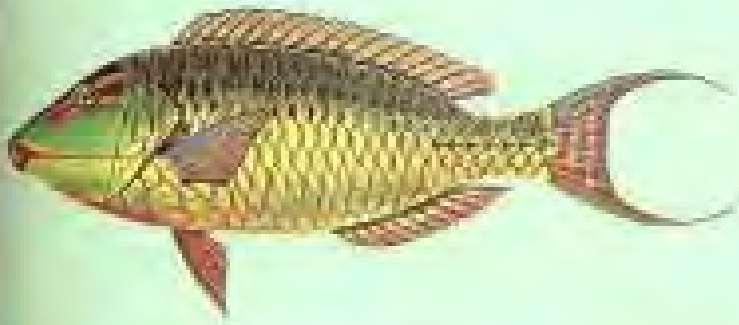
Nicholema denticulata 360
3~9 ~+ ◯ ♀ 26°C sg: 1.022 7 cm 100L



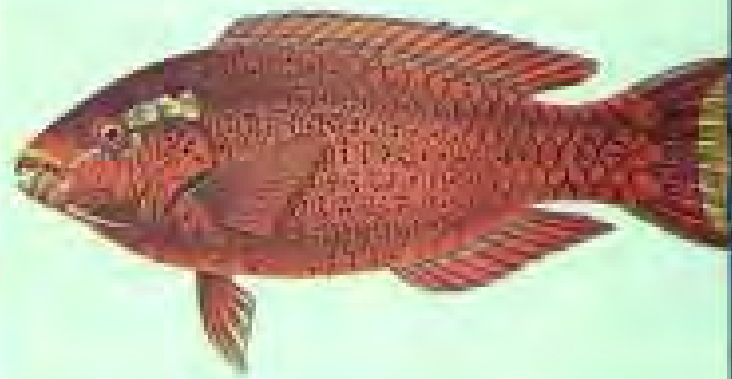
Sparisoma radians 360
2, 13 ~+ ◯ ♀ 26°C sg: 1.022 13.5 cm 300L



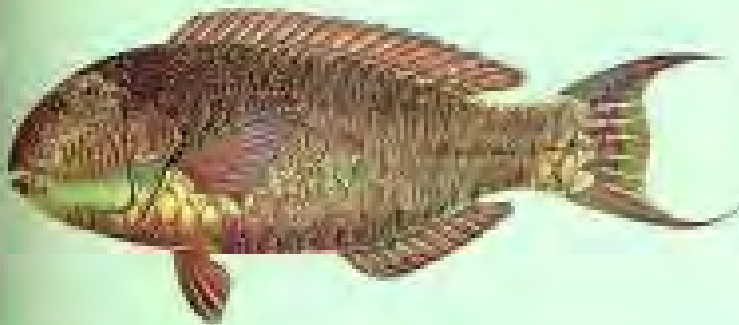
Sparisoma rubripinna 360
2, 13 ~+ ◯ ♀ 26°C sg: 1.022 46 cm 500L



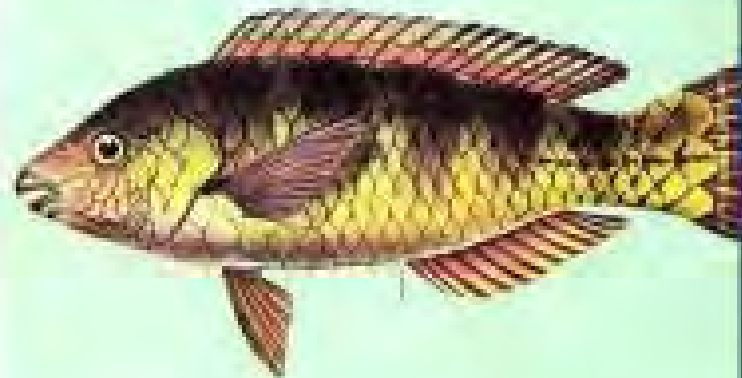
Hipposcarus harid 360
8~9~ + ♀ + ♂ 26°C sg: 1.022 75 cm 750L



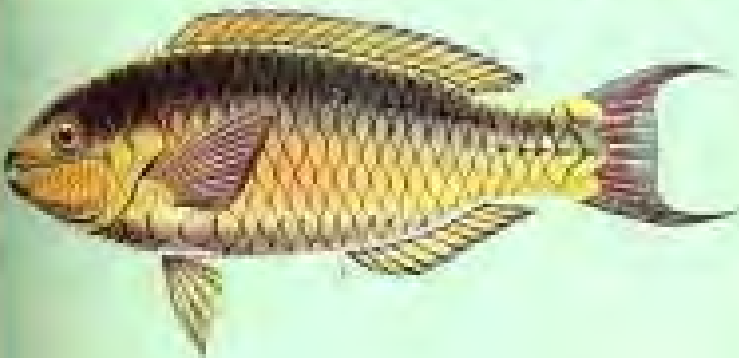
Scarus niger 360
7-10~ + ♀ + ♂ 26°C sg: 1.022 40 cm 500L



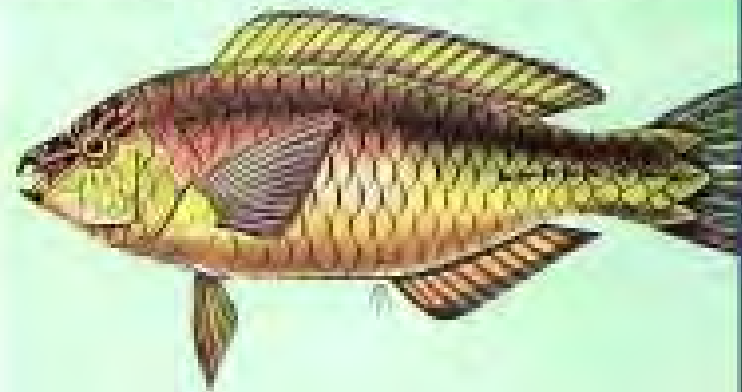
Cetoscarus bicolor 360
6-9~ + ♀ + ♂ 26°C sg: 1.022 60 cm 600L



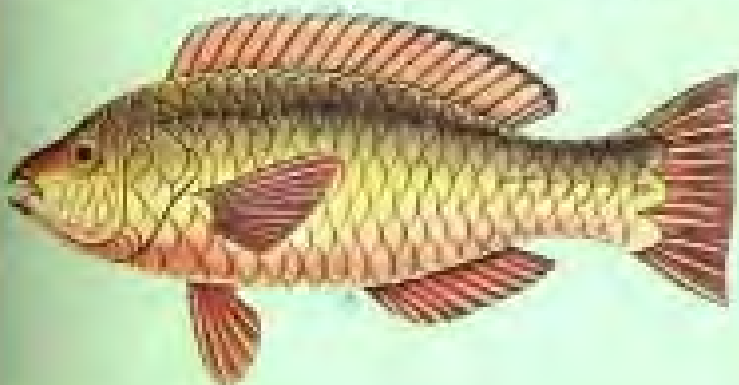
Scarus psittacus 360
7-10~ + ♀ + ♂ 26°C sg: 1.022 27 cm 300L



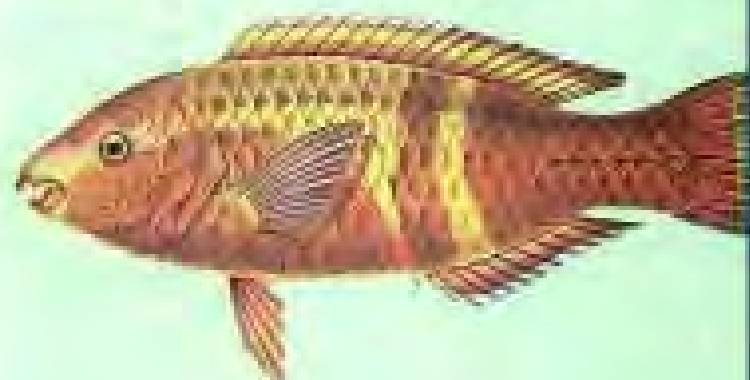
Scarus oviceps 370
7~ + ♀ + ♂ 26°C sg: 1.022 35 cm 400L



Scarus javanicus 360
7~ + ♀ + ♂ 26°C sg: 1.022 26 cm 300L

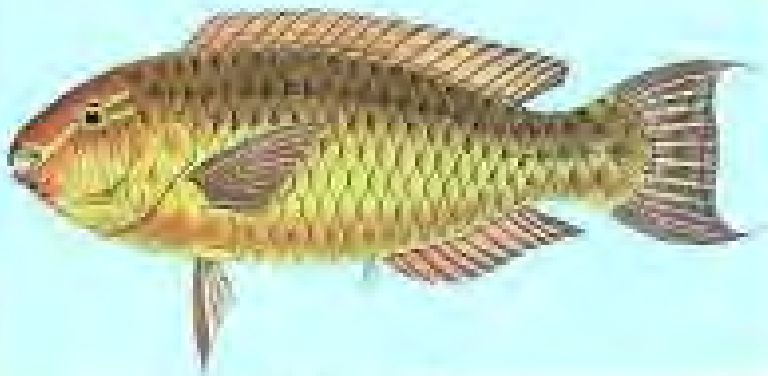


Scarus moesi 360
6-9~ + ♀ + ♂ 26°C sg: 1.022 20 cm 200L



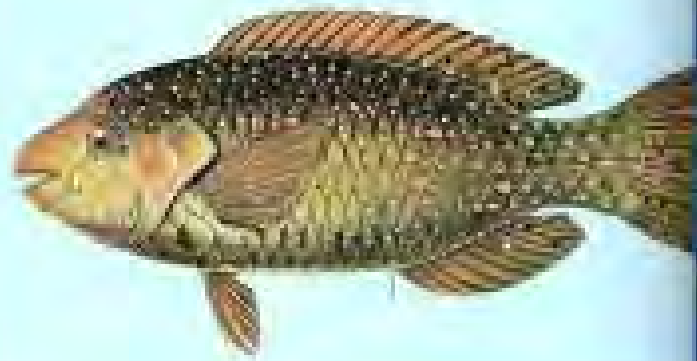
Scarus psittacus 360
7-10~ + ♀ + ♂ 26°C sg: 1.022 27 cm 300L

#490

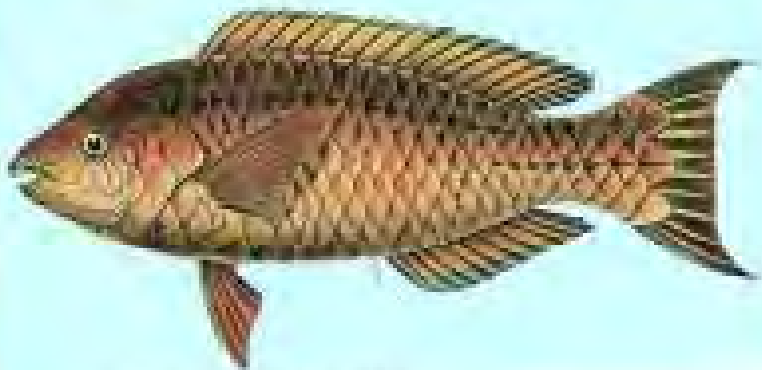


Scarus belaniensis 360
7, 9~ + 0 ♀ ♂ 26°C sg: 1.022 35 cm 400L

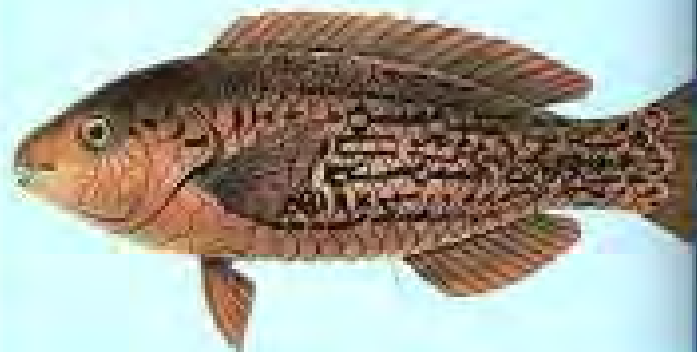
#413



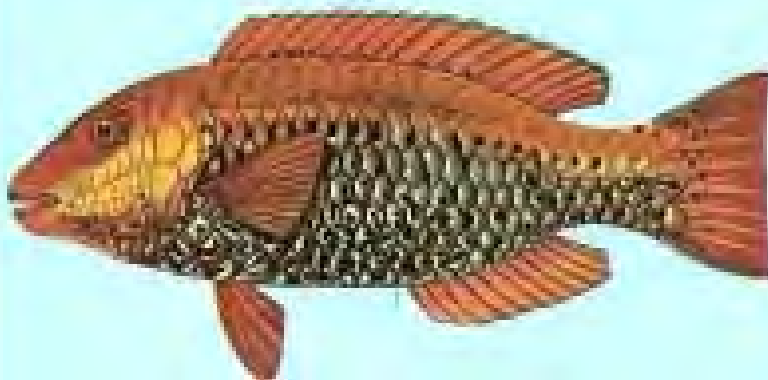
Scarus prasognathos 360
6-9~ + 0 ♀ ♂ 26°C sg: 1.022 70 cm 800L



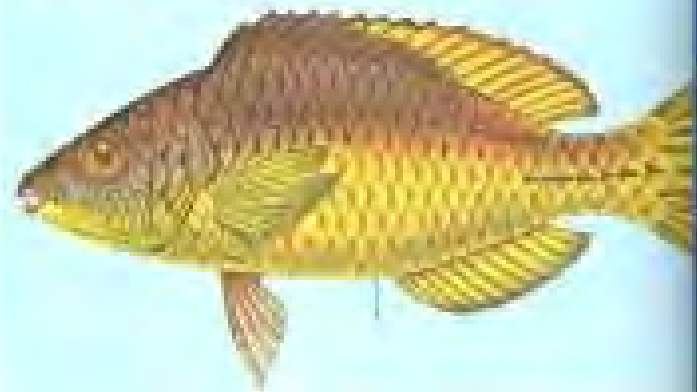
Scarus ohtorii 360
7, 9~ + 0 ♀ ♂ 26°C sg: 1.022 33 cm 300L



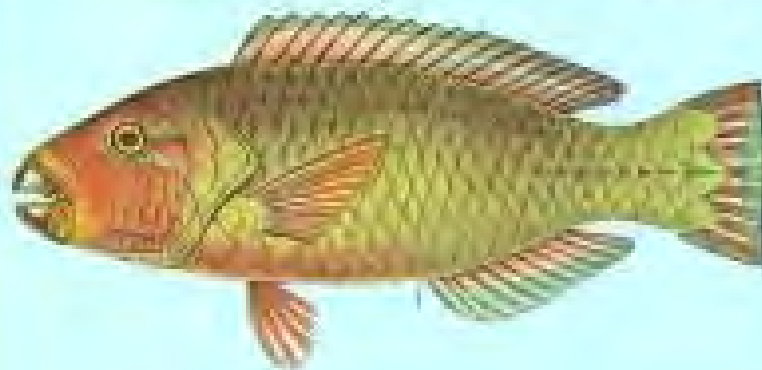
Scarus rubroviolaceus 360
3, 6-9~ + 0 ♀ ♂ 26°C sg: 1.022 66 cm 800L



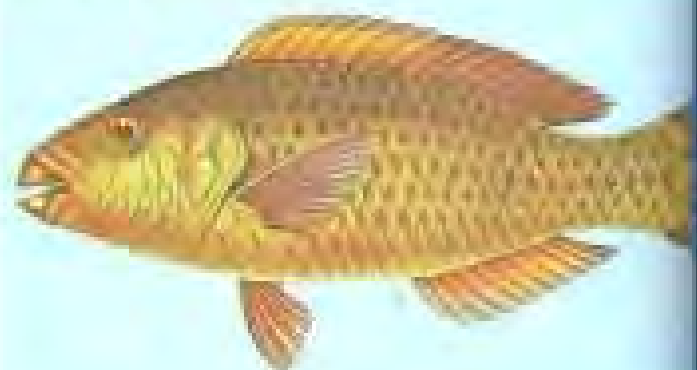
Cetoscarus bicolor 360
8-9~ + 0 ♀ ♂ 26°C sg: 1.022 60 cm 600L



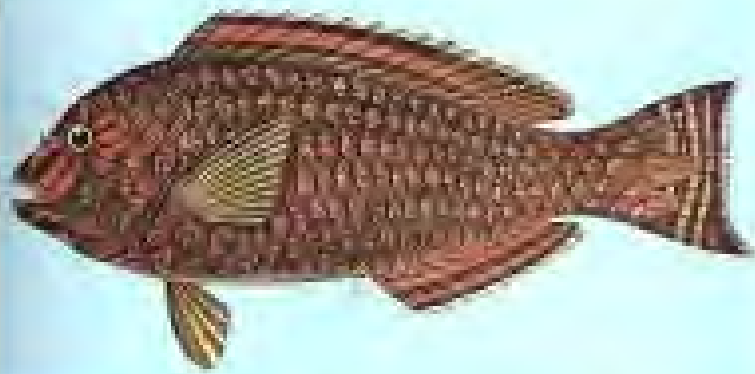
Scarus macrocheilus 360
7, 9~ + 0 ♀ ♂ 26°C sg: 1.022 12 cm 200L



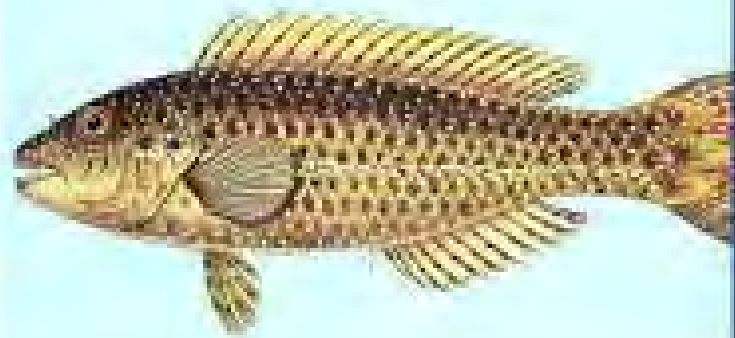
Scarus sortifus 360
8-9~ + 0 ♀ ♂ 26°C sg: 1.022 50 cm 500L



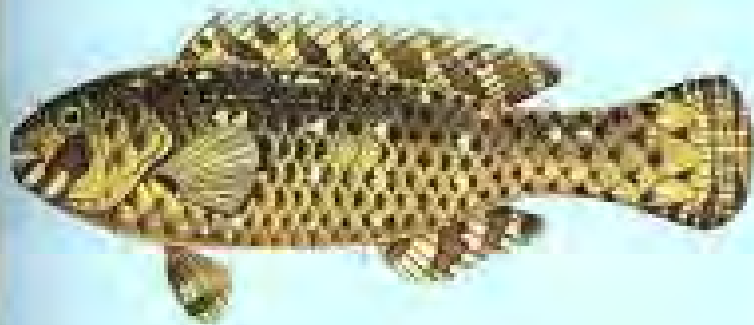
Scarus erythrodon 360
7, 9~ + 0 ♀ ♂ 26°C sg: 1.022 40 cm 400L



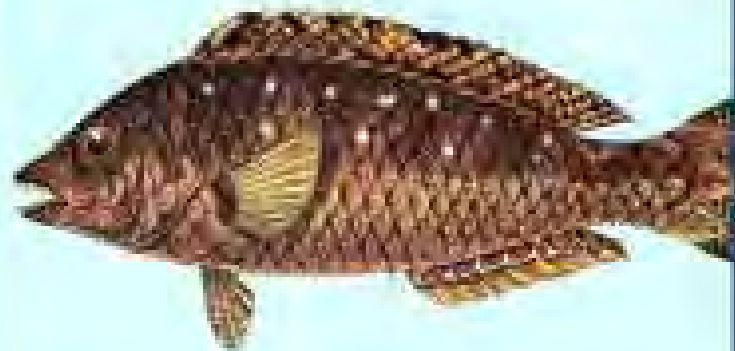
Calotomus spinidens 360
7, 9~10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



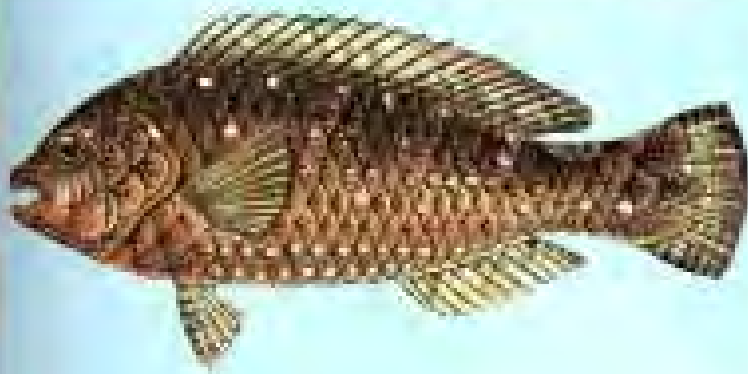
Leptoscarus vaigiensis 360
7-9~10 + 0 ♀ 26°C sg: 1.022 35 cm 400L



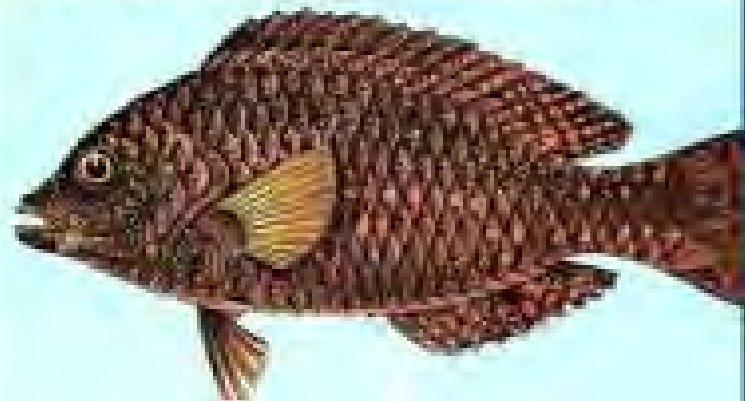
Leptoscarus vaigiensis 360
7-9~10 + 0 ♀ 26°C sg: 1.022 35 cm 400L



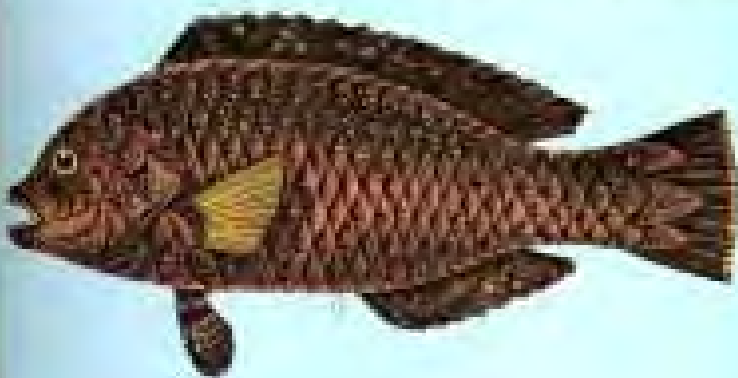
Calotomus spinidens 360
7, 9~10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



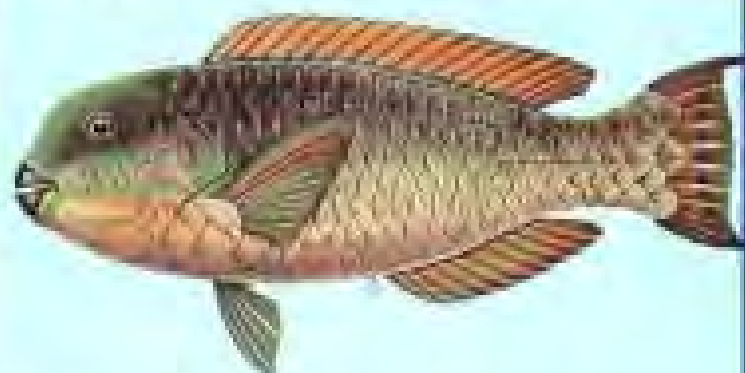
Calotomus spinidens 360
7, 9~10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



Calotomus spinidens 360
7, 9~10 + 0 ♀ 26°C sg: 1.022 19 cm 200L

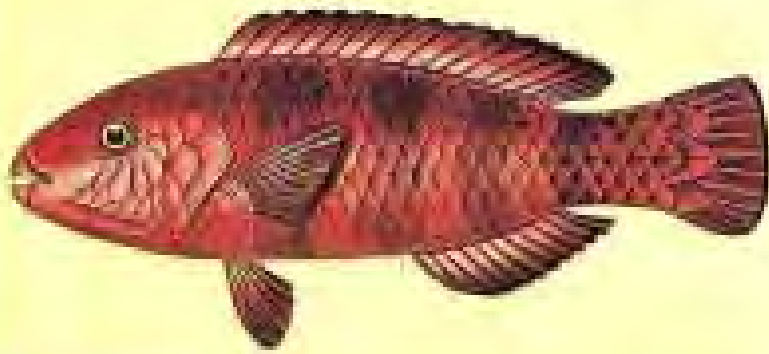


Calotomus spinidens 360
7, 9~10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



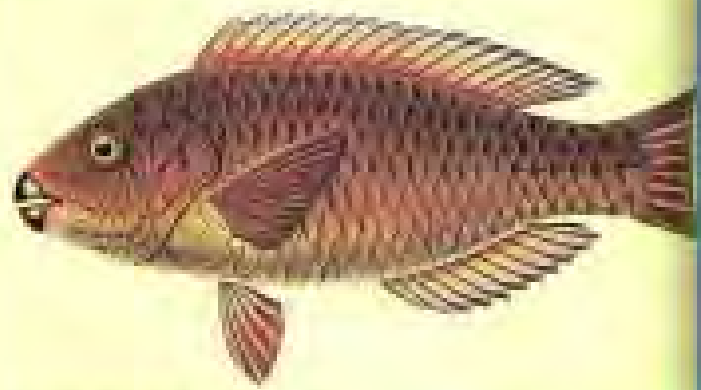
Scarus gibbus 360
7-10~11 + 0 ♀ 26°C sg: 1.022 70 cm 1000L

402

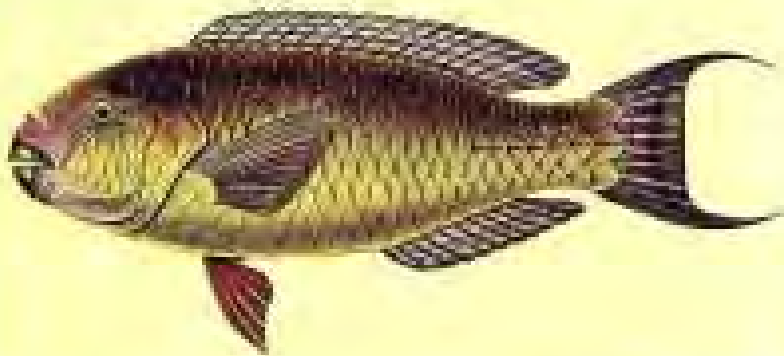


Scarus rhodopterus 360
7~9~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 250L

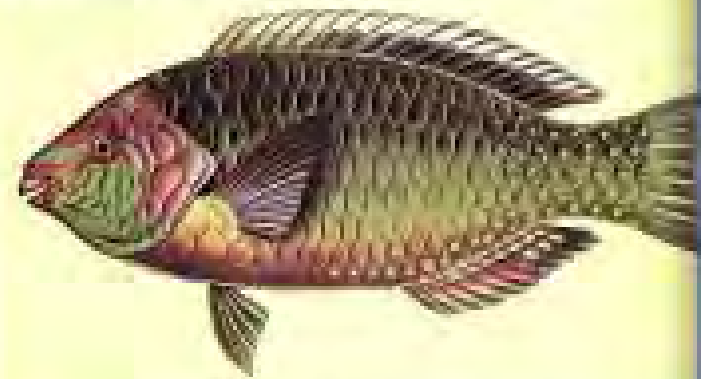
#415



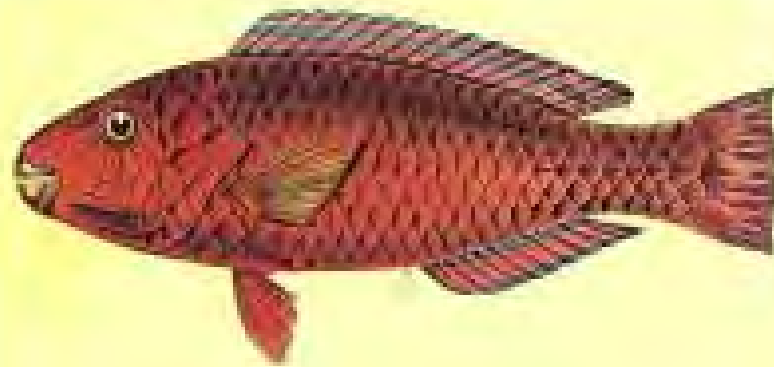
Scarus microcheilus 360
6, 7~9~ + 0 ♀ ♂ 26°C sg: 1.022 30 cm 300L



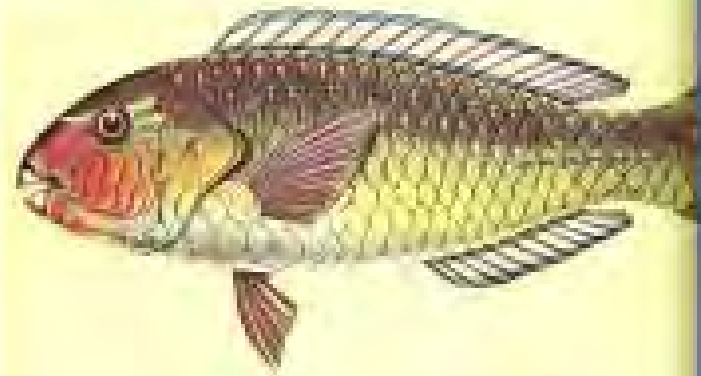
Scarus gibbus 360
7~10~ + 0 ♀ ♂ 26°C sg: 1.022 70 cm 1000L



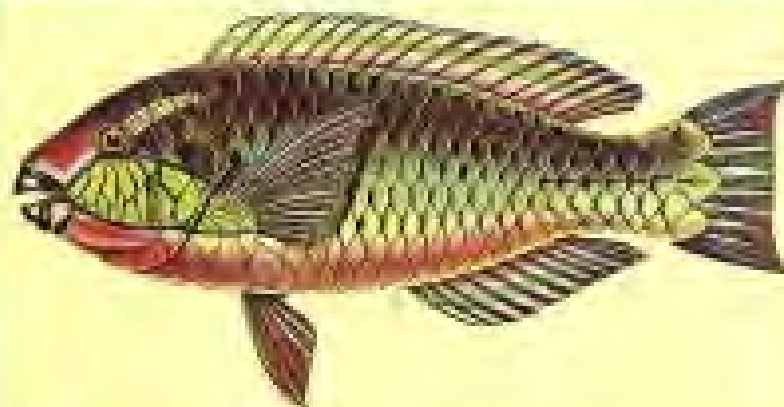
Scarus prosopeus 360
6~8~ + 0 ♀ ♂ 26°C sg: 1.022 70 cm 800L



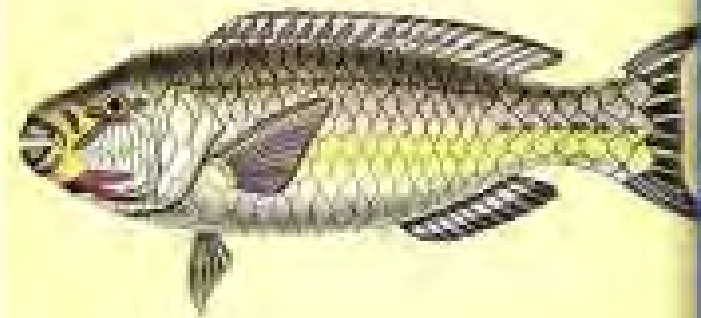
Scarus cyanopterus 360
7~8~ + 0 ♀ ♂ 26°C sg: 1.022 21 cm 250L



Scarus japonicus 360
6~7~ + 0 ♀ ♂ 26°C sg: 1.022 30 cm 300L



Scarus bleekeri 360
6, 7~9~ + 0 ♀ ♂ 26°C sg: 1.022 25 cm 300L



Scarus particeps 360
7~10~ + 0 ♀ ♂ 26°C sg: 1.022 27 cm 300L

#417

495



Chiridopsis japonicus 363
5 ♀ 5 ♂ 0 火 雷 □ 23°C sg: 1.024 55 cm 500L



Chiridopsis decoratus 363
4 ♀ 5 ♂ 0 火 雷 □ 22°C sg: 1.024 42 cm 400L



Chiridopsis nugator 363
4 ♀ 5 ♂ 0 火 雷 □ 23°C sg: 1.024 42 cm 500L



Cebidichthys violaceus 363
4 ♀ 5 ♂ 0 火 雷 □ 26°C sg: 1.022 50 cm 500L



Acanthichthys ocellatus 366
4 ♀ 5 ♂ 0 火 雷 □ 24°C sg: 1.023 200 cm 2000L



Acanthichthys lupus 366
4-5 ♀ 5 ♂ 0 火 雷 □ 23°C sg: 1.024 200 cm 2000L



Liocecranium proequisitum 267
8 ♀ 5 ♂ 0 火 雷 □ 26°C sg: 1.022 10 cm 100L



Pholis gunnellus 365
1, 14 ♀ 5 ♂ 0 火 雷 □ 23°C sg: 1.024 20 cm 200L



Oristognathus gilberti 375
2 ~ ♀ ~ 26°C sg: 1.022 5 cm 50L

Oristognathus gilberti 375
2 ~ ♀ ~ 26°C sg: 1.022 5 cm 50L





Opistognathus rhomaleus 375
 3-4 N S O * 24°C sg: 1,023 50 cm 500L

Opistognathus sp. 375
 3 N O * 26°C sg: 1,022 10 cm 100L

Opistognathus aurotrons 375
 2 N S O * 26°C sg: 1,022 10 cm 100L





Opistognathus rhomaleus 375
3-4 ~ ♀ ♂ ♀ ♂ ♀ ♂ 24°C sg: 1.023 50 cm 500L



Lonchopisthus micrognathus 375
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Opistognathus darwiniensis 375
8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 23 cm 250L



Opistognathus lonchurus 375
8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 12 cm 150L



Tandyia latitabunda 375
8 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 26 cm 250L



Opistognathus sp. 375
3 ~ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Opistognathus sp. 375
3〜4匹 26°C sg: 1.022 10 cm 100L



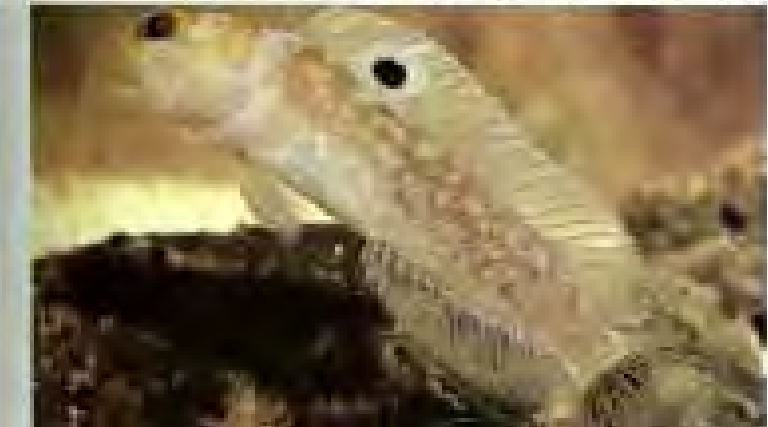
Opistognathus aurifrons 375
2〜3匹 26°C sg: 1.022 10 cm 100L



Opistognathus sp. 375
2匹 26°C sg: 1.022 11 cm 100L



Opistognathus scopis 375
3-4匹 26°C sg: 1.022 15 cm 150L



Opistognathus gilberti 375
2匹 26°C sg: 1.022 5 cm 50L



Opistognathus sp. 375
2匹 26°C sg: 1.022 11 cm 100L



Opistognathus whitnurni 375
2匹 26°C sg: 1.022 7.5 cm 80L



Opistognathus macrognathus 375
2匹 26°C sg: 1.022 20 cm 200L

500



Hallophis guttatus 376
9-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 12 cm 150L

#420



Blennodesmus scapularis 376
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Pholidichthys leucotaenia (juv.) 380
7 ♀ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 60L



Pholidichthys leucotaenia 380
7 ♀ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 60L



Arctoscopus japonicus 381
4.5 ~ ♀ ♂ ♀ ♂ 23°C sg: 1.023 22 cm 200L



Notograpus livingstonei 379
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 60L



Kahelestoma averruncus 383
3-4 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 31 cm 300L



Ichthyoscopus lebecki 383
5 ~ ♀ ♂ ♀ ♂ 23°C sg: 1.024 40 cm 400L



Parapercis aurantica 388
5, 7 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 15 cm 150L



Parapercis sexfasciata 388
5, 7 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.022 12 cm 100L



Parapercis pulchella 388
5, 7 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 12 cm 150L



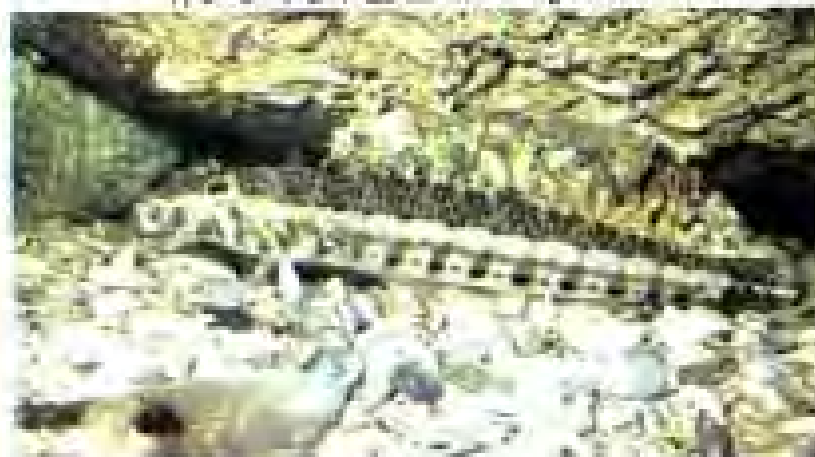
Parapercis multifasciata 388
5, 7 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.022 15 cm 150L



Parapercis sp. 388
7, 9 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 13 cm 150L



Parapercis schuinslandi 388
5, 7 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 20 cm 200L



Parapercis xanthozona 388
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8.5 cm 100L



Parapercis nebulosa 388
8 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 32 cm 350L



Parapercis anyeri 388
7.5 x 4.5 cm 26°C sg: 1.022 10 cm 100L

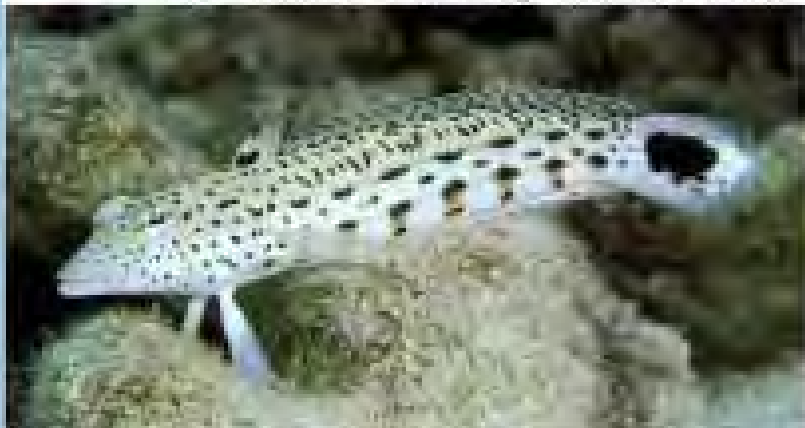
504



Parapercis cephalopunctata? 388
7, 9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 17 cm 200L



Parapercis bivittata 388
9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 20 cm 200L



Parapercis hexophthalma 388
7, 10 ♀ ♀ ♂ ♂ 26°C sg: 1.022 25 cm 250L



Parapercis trispinata 388
8 ♀ ♀ ♂ ♂ 26°C sg: 1.022 15 cm 150L

#424



Parapercis cephalopunctata 388
7-9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 17 cm 150L



Parapercis haackel 388
7 ♀ ♀ ♂ ♂ 26°C sg: 1.022 15 cm 150L



Parapercis tetracentha 388
7, 9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 20 cm 200L



Parapercis sp. (juv. cylindrical?) 388
7, 9 ♀ ♀ ♂ ♂ 26°C sg: 1.022 17 cm 150L



Paraperca tetraacantha 388
7. 9. 2004. 20. 26°C sg. 1.022 20 cm 200L

Paraperca snyderi 388
7. 9. 2004. 10. 26°C sg. 1.022 10 cm 100L



#423A



Plataneurus rhinorhynchus 395
8-10 Feb 2006 26°C sg: 1.022 12 cm 100L



Yucclosella sp. 380
12 ♀ ~ ♂ ♀ ♂ 24°C sg: 1.023 3 cm 50L



Holbogramma decurvens 380
7 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Enneanectes alivellii 380
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Norfolkia sp. 380
12 ♀ ~ ♂ ♀ ♂ 24°C sg: 1.023 3 cm 50L



Enneanectes boohikeri 380
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Enneanectes pectoralis 380
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Enneanectes sexmaculatus 380
3 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 2.5 cm 50L



Enneanectes sp. 380
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L

508



Undescribed Tripterygiid 390
3 ♀ ~ 0 ♀ ~ 25°C sg: 1.023 8 cm 80L

#426



Lepidoblennius marmoratus 390
7 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 9 cm 100L



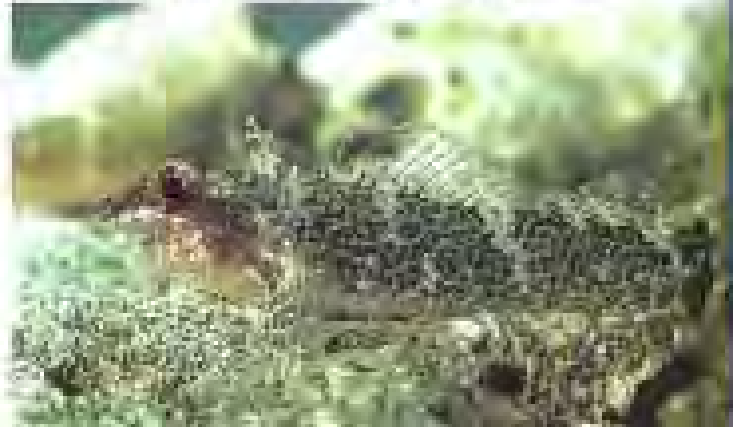
Epiplatys atrorubens 390
2 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 3.3 cm 50L



Gillioblennius tripenis 390
11 ♀ ~ 0 ♀ ~ 22°C sg: 1.024 5 cm 50L



Norfolkia sp. 390
12 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 5 cm 50L



Vaoclusella sp. 390
12 ♀ ~ 0 ♀ ~ 24°C sg: 1.023 3 cm 50L



Norfolkia brachylepis 390
7 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 3.5 cm 50L



Helicogramma sp. 390
7 ♀ ~ 0 ♀ ~ 26°C sg: 1.022 3 cm 50L



Tripterygion tripteronotus 390
15 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 8 cm 80L



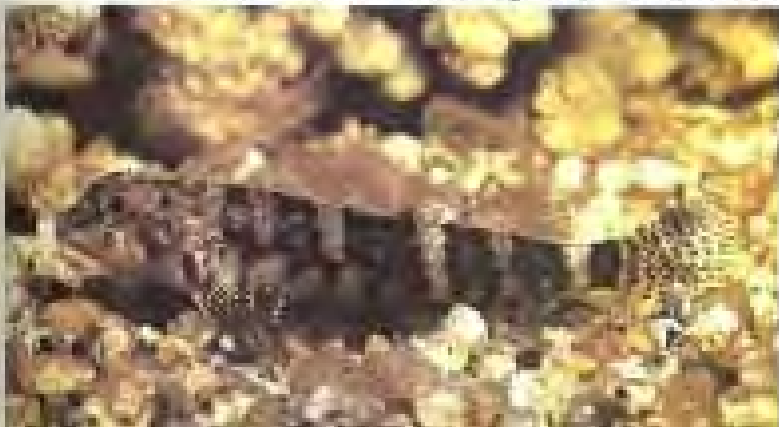
Tripterygion tripteronotus 390 ♂
15 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 8 cm 80L



Tripterygion sp. 390
3 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 3.8 cm 50L



Tripterygion tripteronotus 390
15 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 8 cm 80L



Enneapterygius theostomus 390
5 ♀ ~ ♀ ♂ ♀ ♀ □ 24°C sg: 1.023 4 cm 50L



Tripterygion sp. 390
11 ♀ ~ ♀ ♂ ♀ ♀ □ 22°C sg: 1.024 8 cm 80L



Tripterygiid 390
8 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 4 cm 40L



Tripterygiid 390
8 ♀ ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.024 4 cm 40L

510



Tripterygion sp. 390
11 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 6 cm 60L



Tripterygion sp. 390
11 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 6 cm 60L

#428



Tripterygion bucknilli 390
11 ~ ♀ ♂ ♀ ♂ □ 22°C sg: 1.024 8 cm 60L



Tripterygion sp. B. 390
11 ~ ♀ ♂ ♀ ♂ □ 22°C sg: 1.024 8 cm 60L



Norfolkia cristata 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 5 cm 60L



Norfolkia incisa 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 3 cm 40L



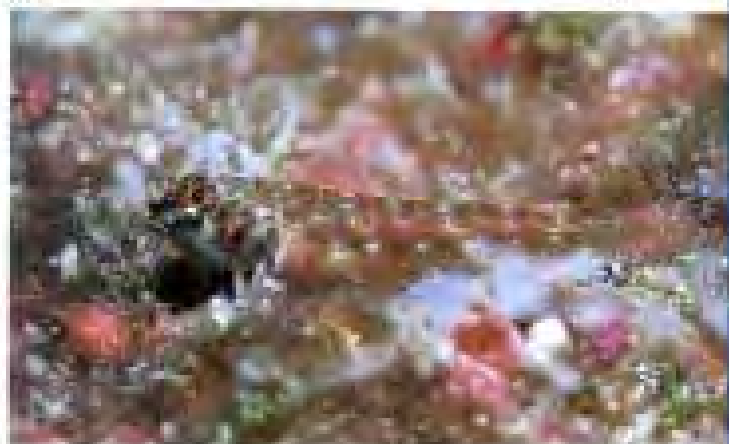
Norfolkia clarkii 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 6 cm 60L



Apoglypterygion alba 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 4.4 cm 60L



Helicogramma striata 390
7 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 3 cm 50L



Helicogramma decurrens 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 5 cm 50L



Helicogramma decurrens 390
12 ~ ♀ ♂ ♀ ♂ □ 24°C sg: 1.023 5 cm 50L



Helicogramma sp. 390
9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.020 3 cm 50L



Gunnellochthys curiosus 407
6 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 11 cm 100L



Gunnellochthys monostigma 407
13 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Malacosteus brevirostris 300
3, 6-10 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 30 cm 300L



Hoplostethus cuniculus 300
6 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 9 cm 100L

512

#430



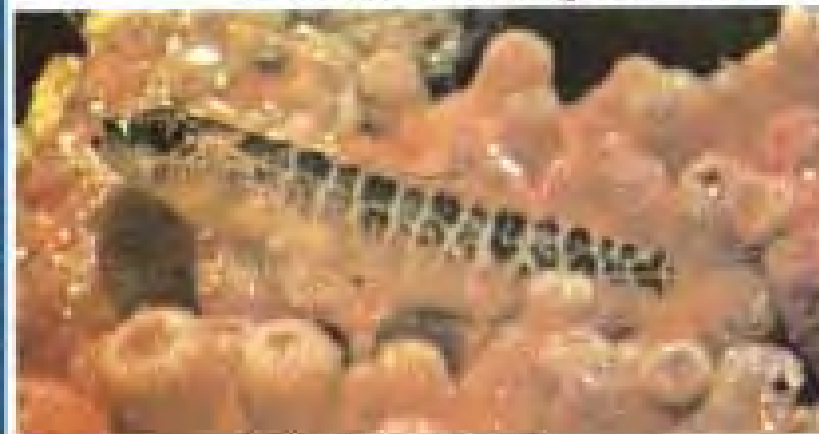
Heteristius rubrocinctus 381
2 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 6.0 cm 60L

Dactyloscopus pectoralis 381
3 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Gilletus greyae 381
2 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L

Exerpes asper 382
3 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Starkelia spinipennis 382
3 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L

Neoclinus bryops 382
5 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 60L



Starkelia ocellata 382
2 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L

Starkelia sp. 382
3 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Labrisomus nuchipinnis 392
1-2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 23 cm 300L



Labrisomus filamentosus 392
2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 8.0 cm 80L



Labrisomus bucciferus 392
1-2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 9 cm 100L



Labrisomus nigricinctus 392
2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 7.5 cm 80L



Labrisomus nuchipinnis 392
1-2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 23 cm 300L



Labrisomus kalisherse 392
2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 7.5 cm 80L



Labrisomus haitiensis 392
2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 7.5 cm 80L



Starksia starcki 392
2 ♀ ~ ~ ~ ♂ ~ ~ ~ □ 26°C sg: 1.022 4 cm 50L



Malacoctenus gigas 392
 3 ~ ♀ 26°C sg: 1.022 13 cm 150L



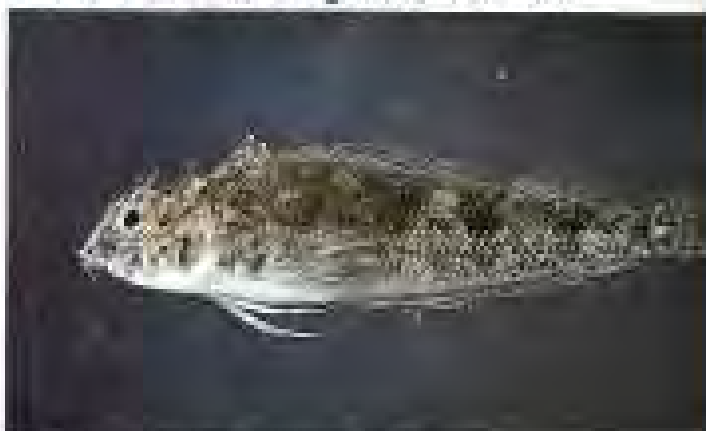
Paracittus mexicanus 392
 3 ~ ♀ 26°C sg: 1.022 4 cm 40L



Malacoctenus tetranemus 392
 3 ~ ♀ 26°C sg: 1.022 12 cm 150L



Malacoctenus ebisui 392
 3 ~ ♀ 26°C sg: 1.022 12 cm 150L



Malacoctenus margaritae 392
 3 ~ ♀ 26°C sg: 1.022 12 cm 150L



Malacoctenus tetranemus 392
 3 ~ ♀ 26°C sg: 1.022 12 cm 150L



Malacoctenus zoster 392
 3 ~ ♀ 26°C sg: 1.022 12 cm 150L



Malacoctenus triangularis 392
 2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 6.5 cm 80L



Malacoctenus gilli 392
 2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 4.7 cm 50L



Malacoctenus macropterus 392
 2 ♀ ~ ♂ ♀ ♀ □ 24°C sg: 1.023 5.5 cm 60L



Malacoctenus boehkei 392
 2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 6 cm 60L



Paraclinus marmoratus 392
 2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



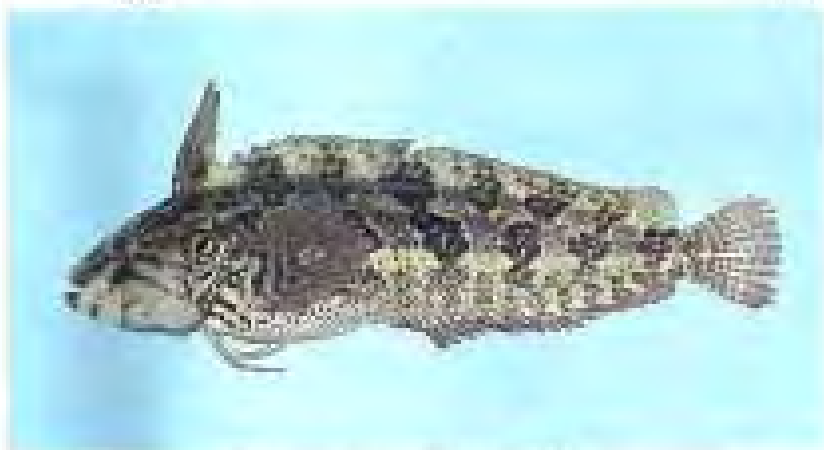
Dialommus fuscus 392
 3 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 7.0 cm 80L



Paraclinus fasciatus 392
 2 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 5.5 cm 80L



Paraclinus nigripinnis 392
 1-2 ♀ ~ ♂ ♀ ♀ □ 24°C sg: 1.023 5 cm 50L



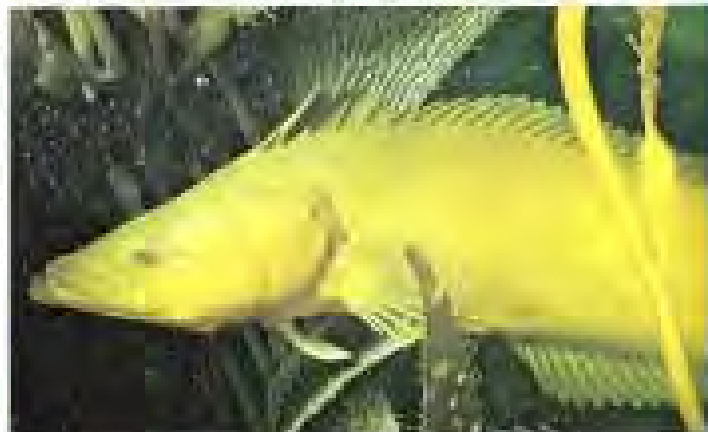
Clinus superciliosus 393
9 ~ ♀ ♀ ♀ □ 26°C sg: 1.020 30 cm 250L



Gibbonsia metzi 393
4 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 24 cm 250L



Sticharium dorsale 393
12 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Heterostichus rostratus 393
3-4 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 61 cm 600L



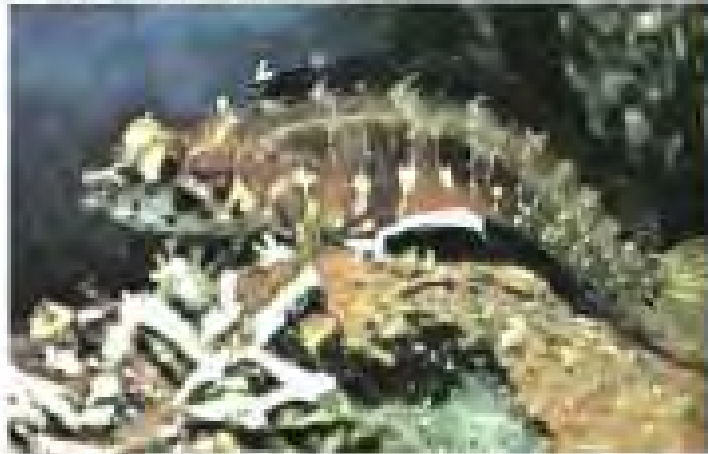
Stethmonotus hemphilli 392
2 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Ophiotinus gracilis 392
7 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 6 cm 80L



Stethmonotus sinuscalifornici 392
3 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 7.5 cm 80L



Xenomedia rhodopya 392
3 ~ ♀ ♀ ♀ □ 26°C sg: 1.022 6 cm 80L



Heteroclinus whitleyi 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 8 cm 80L



Heteroclinus sp. cf. *roseus* 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 8.5 cm 80L



Heteroclinus eckloniae 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 3 cm 50L



Heteroclinus roseus 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 7 cm 80L



Springeratus xanthosoma 393
7 ♀ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 7 cm 80L



Heteroclinus adelaidae 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 7 cm 80L



Grisoceps australis 393
7, 12 ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Grisoceps aurantiacus 393
12 ♀ ♂ ♀ ♀ □ 24°C sg: 1.022 4 cm 50L



Acanthemblemaria macrospilus 394
3 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Acanthemblemaria balanorum 394
3 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Acanthemblemaria aspera 394
2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



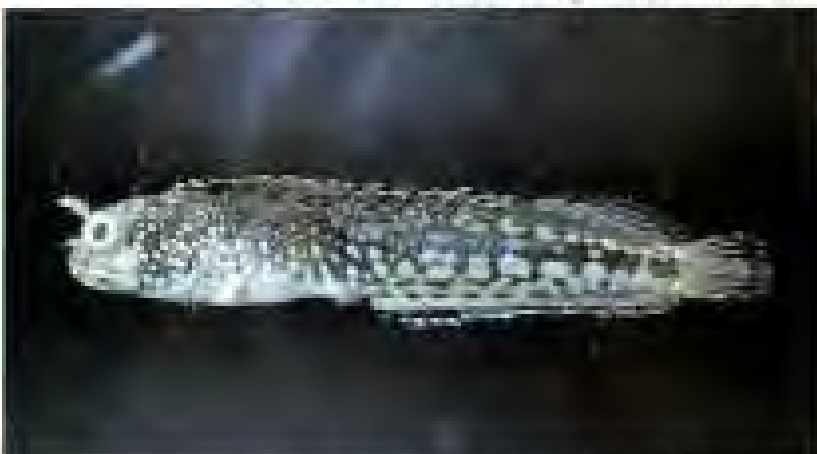
Acanthemblemaria spinosa 394
2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Acanthemblemaria hancocki 394
3 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



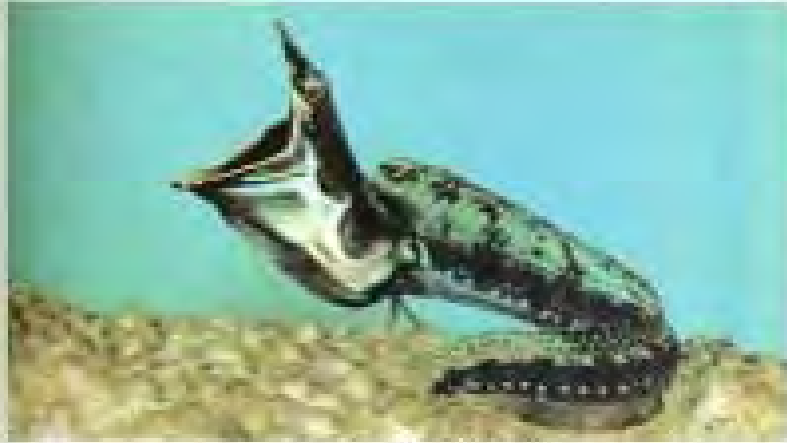
Acanthemblemaria crockeri 394
3 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Acanthemblemaria exilispinis 394
3 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Lucayablennius zingaro 394
2 ~ ♀ ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Chaenopsis alepidota 394
3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 15 cm 100L



Chaenopsis limbaughii 394
3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 8.5 cm 100L



Eramblemaria sp. (myersi?) 394
3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3.5 cm 50L



Chaenopsis ocellata 394
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 12.5 cm 100L



Coralliozetus angelica 394
3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 4 cm 50L



Coralliozetus micropes 394
3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 4 cm 50L



Hemimblemaria simulus 394
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Emblemaria waikeri 394
3 ~ ♀ 26°C sg: 1.022 6 cm 50L



Emblemaria piratula 394
2 ~ ♀ 26°C sg: 1.022 5 cm 50L



Emblemaria pandionis 394
2 ~ ♀ 26°C sg: 1.022 5 cm 50L



Emblemaria hypacanthus 394
3 ~ ♀ 26°C sg: 1.022 5 cm 50L



Coralliozetes diaphanus 394
2 ~ ♀ 26°C sg: 1.022 4 cm 50L



Emblemaria bottomei 394
2 ~ ♀ 26°C sg: 1.022 5 cm 50L



Protlemblemaria bicirrhia 394
3 ~ ♀ 26°C sg: 1.022 3.5 cm 50L



Protlemblemaria lucasana 394
3 ~ ♀ 26°C sg: 1.022 4.5 cm 50L



Plagiotremus phenaes 395
9 ~ ♀ 28°C sg: 1.022 8 cm 60L



Plagiotremus leuandus flavus 395
6 ~ ♀ 26°C sg: 1.022 6 cm 60L



Plagiotremus azaleus 395
3 ~ ♀ 26°C sg: 1.022 7.5 cm 80L



Plagiotremus goslinei 395
6 ~ ♀ 26°C sg: 1.022 7.5 cm 75L



Plagiotremus rhinorhynchus 395
6-10 ~ ♀ 28°C sg: 1.022 12 cm 100L



Plagiotremus rhinorhynchus 395
6-10 ~ ♀ 26°C sg: 1.022 12 cm 100L



Plagiotremus townsendi 395 ♂
10 ~ ♀ 28°C sg: 1.024 6 cm 60L



Plagiotremus rhinorhynchus 395
6-10 ~ ♀ 26°C sg: 1.022 12 cm 100L



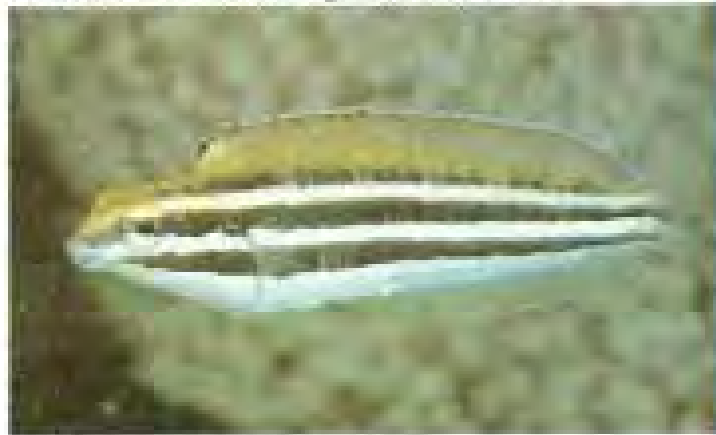
Meiacanthus lineatus 395
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Meiacanthus grammistes 395
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8cm 80L



Meiacanthus kamoaharui 395
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Petroscirtes fallax 395
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Petroscirtes xestus 395
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 12 cm 100L



Petroscirtes breviceps 395
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



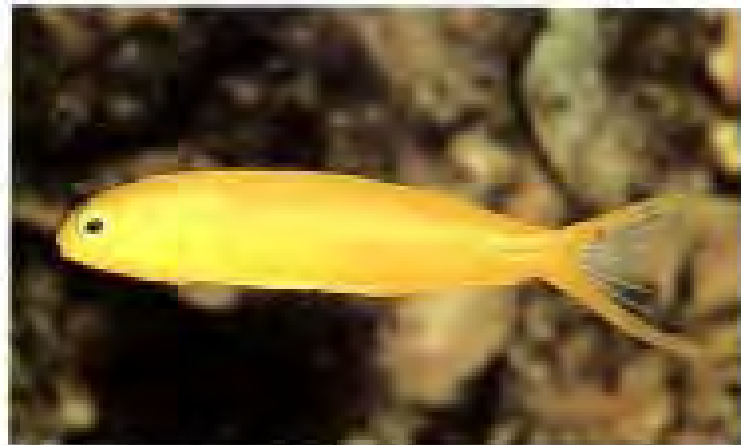
Petroscirtes breviceps 395
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Aspidontus taeniatum 395
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Melacanthus atrodorsalis 395
6-9 ~ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



Melacanthus ovalanensis 395
6 ~ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



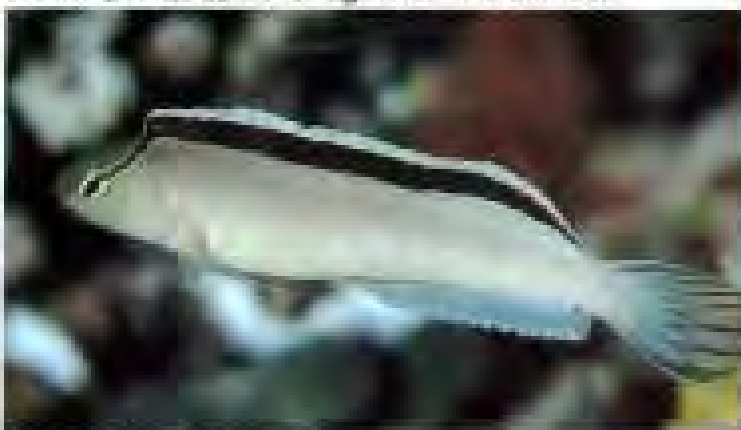
Eosentis grayii (left), *Melacanthus nigrolineatus* (right) 395
10 ~ ♀ ♂ 26°C sg: 1.022 9.5 cm 100L



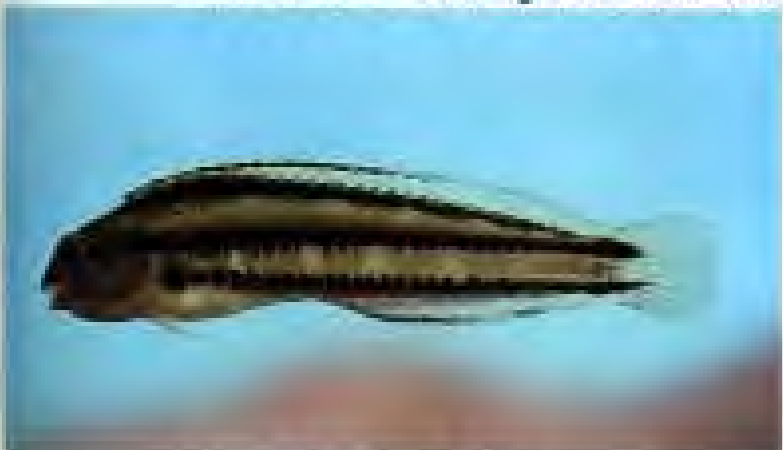
Melacanthus atrodorsalis 395
6-8 ~ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



Melacanthus bundoon 395
6 ~ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Melacanthus smithii 395
8 ~ ♀ ♂ 26°C sg: 1.022 8.5 cm 90L



Melacanthus anema 395
6-7 ~ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Melacanthus vittatus 395
7-8 ~ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



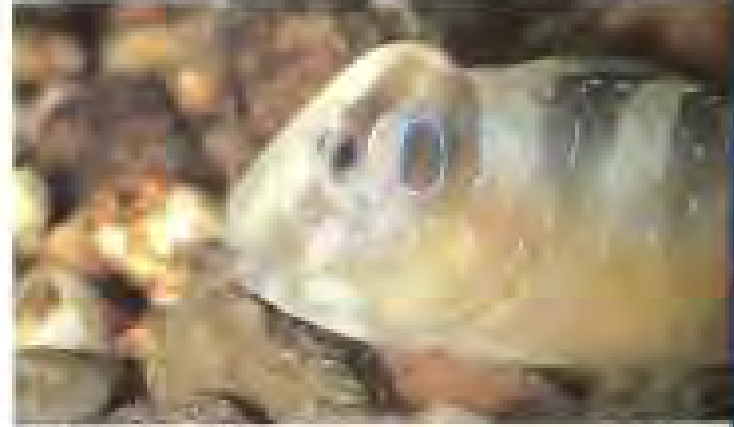
Aidablennius sphrynx 395 ♀
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 7 cm 80L



Aidablennius sphrynx 395 ♂
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 7 cm 80L



Parablennius tentaculatus 395
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 16 cm 200L



Salaria pavo 390
13 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.022 13 cm 150L



Lipophrys atlanticus 395
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 10 cm 100L



Parablennius sanguinolentus 395
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 20 cm 200L



Lipophrys dalmatinus 395 ♂
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 6 cm 60L



Parablennius roulei 395
15 ♀ ~♂ + ◻ ♥ ♀ ◻ 26°C sg: 1.024 8 cm 100L



Parablennius incognitus 395
 15 ♀ ~♂ + 0 ♀ 26°C sg: 1.024 8 cm 100L



Lipophrys nigriceps 395
 15 ♀ ~♂ + 0 ♀ 23°C sg: 1.022 5.5 cm 75L



Lipophrys canevae 395 ♂
 15 ♀ ~♂ + 0 ♀ 26°C sg: 1.024 8 cm 100L



Lipophrys canevae 395 ♂
 15 ♀ ~♂ + 0 ♀ 26°C sg: 1.024 8 cm 100L



Omobranchius feror 395
 7,9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 6 cm 60L



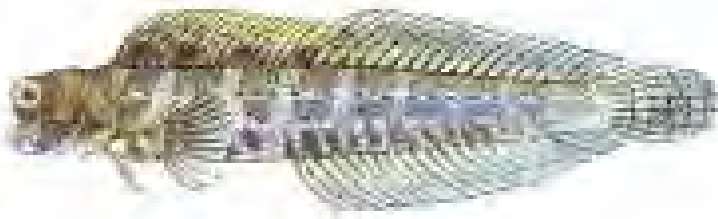
Parablennius zoniurus 395
 15 ♀ ~♂ + 0 ♀ 23°C sg: 1.023 7 cm 80L



Omobranchius gervillaini 395
 7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 6 cm 60L



Omobranchius elegans 395
 5 ♀ ~♂ + 0 ♀ 24°C sg: 1.023 7 cm 80L



Salarias sp. 395
7 ~ ♀ 26°C sg: 1.022 10 cm 100L



Enocheilurus flavipes 395
7 ~ ♀ 26°C sg: 1.022 8 cm 80L



Istiblennius sp. 395
7 ~ ♀ 26°C sg: 1.022 12 cm 100L



Istiblennius sp. 395
7 ~ ♀ 26°C sg: 1.022 12 cm 100L



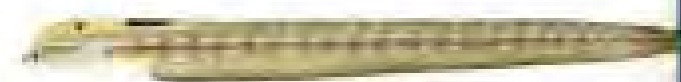
Istiblennius dussumieri 395
7 ~ ♀ 26°C sg: 1.022 13 cm 100L



Salarias fasciatus 395
7, 9 ~ ♀ 26°C sg: 1.022 10 cm 100L



Xiphasia setifer 395
7, 9 ~ ♀ 26°C sg: 1.022 50 cm 500L



Xiphasia setifer 395
7, 9 ~ ♀ 26°C sg: 1.022 50 cm 500L



Leiphognathus multimaculatus 395
7-9 ♀ ~ + ◻ ♀ ♀ ◻ 25°C sg: 1.022 4 cm 40L



Glyptoparus delicatulus 395
6-7, 9 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 3.5 cm 40L



Salarias sp. 395
7 ♀ ~ + ◻ ♀ ♀ ◻ 25°C sg: 1.022 10 cm 100L



Salarias guttatus 395
7 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 80L



Salarias fasciatus 395
8-9 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 15 cm 150L



Salarias inornatus 395
7 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 7 cm 80L



Atrasalaria fuscus 395
7-8 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 15 cm 150L



Atrasalaria fuscus (juv.) 395
7-8 ♀ ~ + ◻ ♀ ♀ ◻ 26°C sg: 1.022 15 cm 150L



Ophioblennius steindachneri 395
 3 1/2" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L



Ophioblennius atlanticus 395
 1, 2 1/2" ♀ + ♂ ♀ ♀ □ 24°C sg: 1.023 13 cm 150L



Cirripectes stigmaticus 395
 6-8" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Cirripectes stigmaticus 395
 6-8" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Cirripectes castaneus 395
 7, 8 1/2" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Cirripectes filamentosus 395
 7 1/2" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 80L



Cirripectes alboapicalis 395
 6 1/2" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L



Cirripectes chelomatius 395
 8 1/2" ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L



Salaria sp. 395
13 ♀ ~+ + ♂ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L

Salaria fasciata 396
8-9 ♀ ~+ + ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 150L





Ecsenius grawerii 305
 9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L

Melocanthus nigrolineatus 385
 10 ♀ ♂ ♀ ♀ ♀ ♀ 26° sg: 1.022 9.5 cm 100L



Ecsenius grawerii 390
 9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Ecsenius grawerii 395
 9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Ecsenius aroni 395
10 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.028 4 cm 50L



Ecsenius pulcher 395
9 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 70L



Ecsenius pulcher 395
8 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 70L



Ecsenius pulcher 395
9 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 70L



Ecsenius widdanalis 395
7 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 4 cm 50L



Ecsenius widdanalis 395
7 ♀ + ♂ ♀ ♀ ♀ 26°C sg: 1.022 4 cm 50L

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Ecsenius stigmatura 395
7 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,022 6 cm 60L



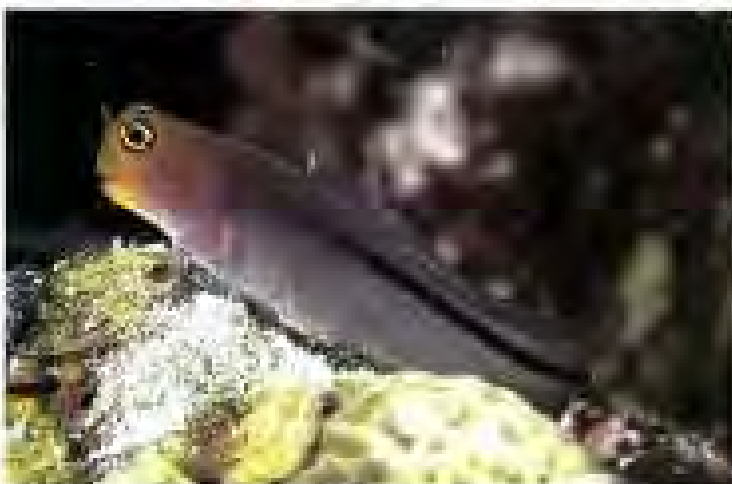
Ecsenius stigmatura 395
7 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,022 6 cm 60L



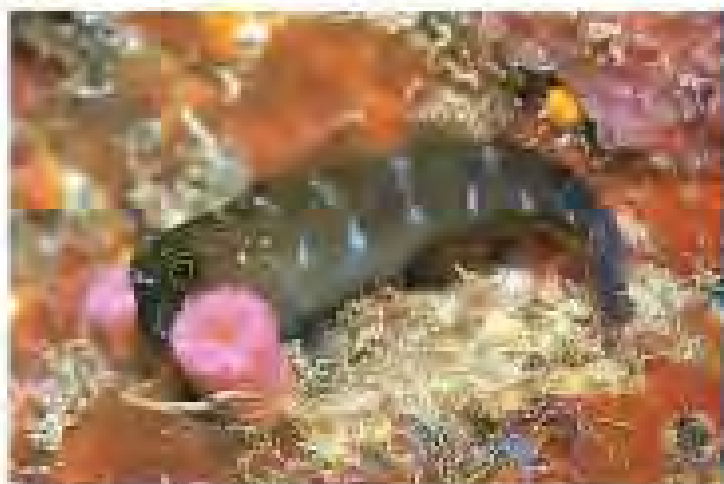
Ecsenius frontalis 395
10 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,026 8 cm 60L



Ecsenius frontalis 395
10 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,026 8 cm 60L



Ecsenius frontalis 395
10 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,026 8 cm 60L



Ecsenius bicolor 395
8-9 ♀ ~r + 0 ♀ ~r □ 26°C sg: 1,022 8 cm 100L



Ecsenius namiyeri 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



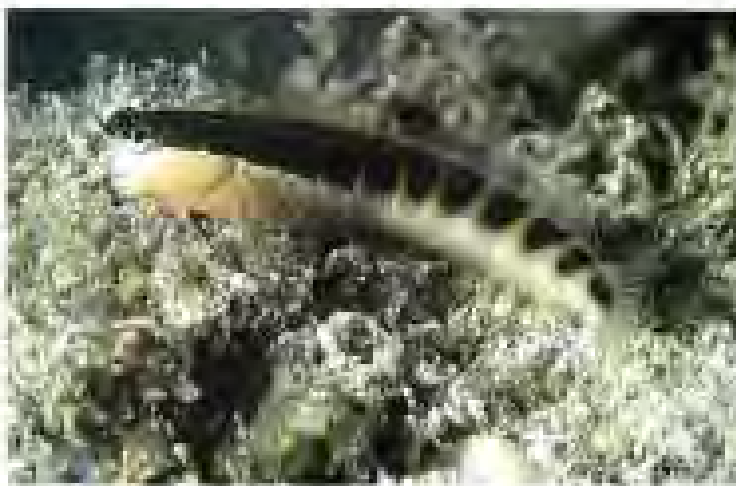
Ecsenius lineatus 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



Ecsenius lineatus 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



Ecsenius lineatus 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



Ecsenius lineatus 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



Ecsenius lineatus 395
7 ♀ 7 ♂ + 0 ♀ 0 ♂ □ 26°C sg: 1.022 B cm 100L



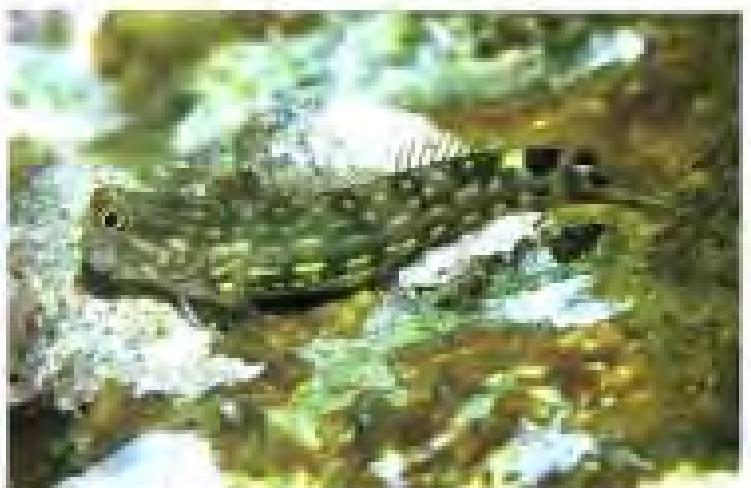
Ecsenius oculatus 385
7, 9, 12 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 6 cm 60L



Ecsenius parocellus 385
7 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius oculus 385
6-7 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 7 cm 60L



Ecsenius monocellus 385
7 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Ecsenius tessera 385
8 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 6 cm 60L



Ecsenius pardus 385
6 ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Eosentius pardus 395
6 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Eosentius portenoyi 395
6 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Eosentius portenoyi 395
8 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Eosentius dentex 395
10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.026 5 cm 50L



Eosentius natalo 395
9-10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Eosentius natalo 395
9-10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Ecsenius axelrodi 395
 7 ♀ 7 ♂ + 1 ♀ 1 ♂ 26°C sg: 1,022 5 cm 50L



Ecsenius axelrodi 395
 7 ♀ 7 ♂ + 1 ♀ 1 ♂ 26°C sg: 1,022 5 cm 50L



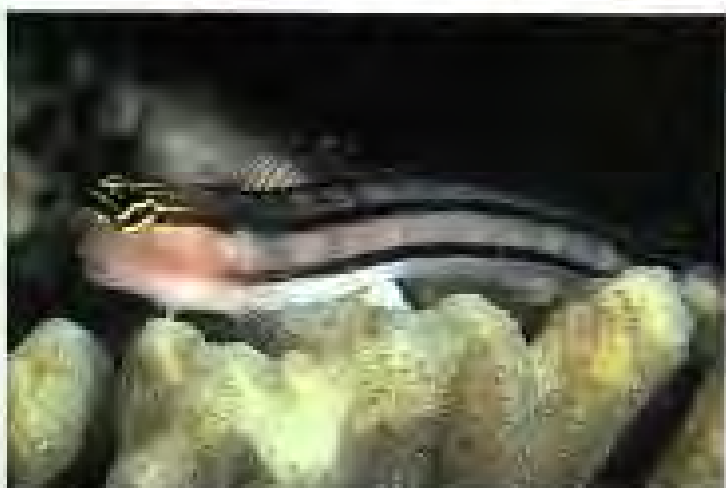
Ecsenius axelrodi 395
 7 ♀ 7 ♂ + 1 ♀ 1 ♂ 26°C sg: 1,022 5 cm 50L



Eosentus tigris 395
8 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



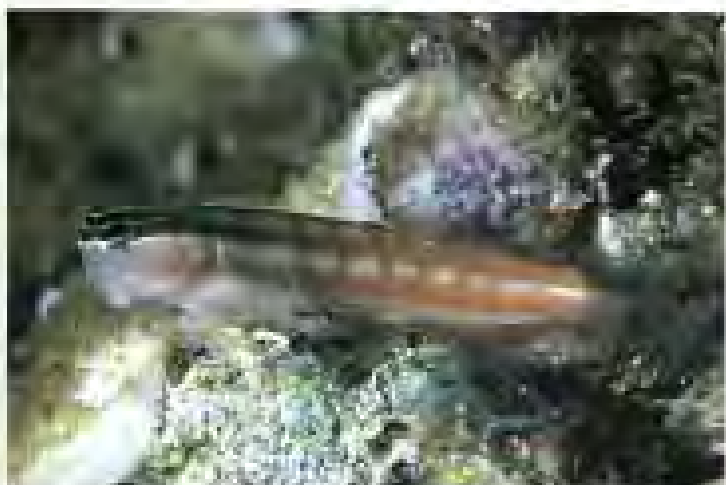
Eosentus dilemma 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Eosentus dilemma 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Eosentus dilemma 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Eosentus bathi 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Eosentus bathi 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Ecsenius allenii 395
7 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius australianus 395
8 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius thomasi 395
6 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius fourmanoiri 395
6, ♂ ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 5 cm 50L



Ecsenius opifrontalis 395
6 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius opifrontalis 395
6 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 4 cm 50L



Ecsenius arcos
6, 8 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 4 cm 50L



Ecsenius lineatus 395
7 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 4 cm 50L



Ecsenius pictus 395
7 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 5 cm 50L



Ecsenius pictus 395
7 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 5 cm 50L



Ecsenius bandanus 395
7 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 4 cm 50L



Ecsenius bimaculatus 395
7 ♀ + 1 ♂ + 1 ♀ + 1 ♂ 26°C sg: 1.022 3 cm 50L



Ecsenius colletti 395
7 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 4 cm 50L



Ecsenius proodulus 396
7 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 4 cm 50L



Ecsenius aequifis 395
8 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 4 cm 50L



Ecsenius aequifis 395
8 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 4 cm 50L



Ecsenius mandibulans 395
8 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 5 cm 50L



Ecsenius schroederi 395
7 ♀ ♀ + ♂ ♀ ♀ □ 26°C sg: 1,022 4 cm 50L



Entomacrodus striatus 395
6-7 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 9 cm 100L

Entomacrodus decussatus 395
6-7 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 17 cm 200L



Scarattia cristata 395
2, 13 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 11 cm 100L

Entomacrodus nigricans 395
2 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L



Parablennius marmoratus 395
2 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L

Parablennius tasmanianus 395
12-13 ½ ~ ♀ + ♂ ♀ ♀ □ 23°C sg: 1.024 13 cm 150L



Parablennius marmoratus 395
2 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L

Parablennius marmoratus 395
2 ½ ~ ♀ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L

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Hypsobriennius brewinnyi 395
3 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 12 cm 150L

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Hypsobriennius gentilis 395
3 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 15 cm 200L



Hypleurochilus bermudensis 395
1-2 ♀ ~♂ + 0 ♀ 24°C sg: 1.023 10 cm 100L



Salaria ceramensis 395
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 6 cm 60L



Scarlette cristata 395
2, 13 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 11 cm 100L



Parabriennius gattorugine 395
13-15 ♀ ~♂ + 0 ♀ 23°C sg: 1.024 30 cm 300L



Stronulus talboti 395
7-8 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 4 cm 50L



Stronulus seychellensis 395
9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 3.5 cm 40L



Istiblennius edentulus 395
6-9 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 18 cm 300L



Istiblennius gibbifrons 395
6-7, 9 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 13 cm 150L



Istiblennius meleagris 395
7 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 9 cm 100L



Istiblennius chrysospilus 395
6-8 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Istiblennius striatus 395
7 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 9 cm 100L



Istiblennius lineatus 395
7 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L



Istiblennius zebra 395
6 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L



Istiblennius chrysospilus 395
6-8 ♂ ♀ + 1 ♀ ♀ ♀ □ 26°C sg: 1.022 10 cm 100L

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Aspidontus dussumieri 395
6-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L

#450



Aspidontus dussumieri 395
6-10 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Cirripectes variolatus 395
6-7, 9 ♀ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Pterapogon kauderni 395
9 ♀ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 24 cm 300L



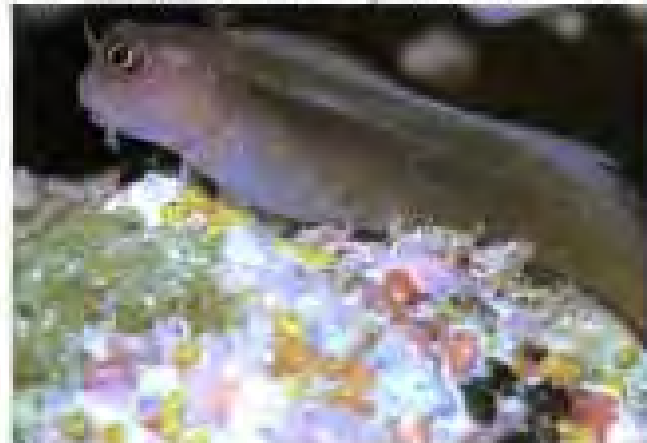
Plagiotremus tapeinosoma 395
6-9 ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



Melacanthus mosambicus 395
9 ♀ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Ecsenius bicolor 395
6-9 ♀ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Ecsenius bicolor 395
6-9 ♀ ~ ♀ + ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Ecsenius midax 395
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Ecsenius midax 395
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Ecsenius oculus 395
6-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Ecsenius oculus 395
6-7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Ecsenius lineatus 395
7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Ecsenius lineatus 395
7 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Ecsenius nufoto 395
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Ecsenius graweri 395
9-10 ♀ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L

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Istiblennius edentulus 395
6-9 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 18 cm 200L



Istiblennius dussumieri 395
6-9 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 14 cm 150L



Omobranchius elongatus 395
6-9 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 8 cm 100L



Exallias brevis 395
6-10 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 15 cm 200L

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Istiblennius perlophthalmeus 395
6-9 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 16 cm 200L



Istiblennius dussumieri 395
6-9 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 14 cm 150L



Petrosocles mifrofos 385
6-10 ♀ ~ + ♂ ♀ ♀ □ 26°C sg: 1.022 9 cm 100L



Congrogadus subfucens 376
7 ♀ ~ ♂ ♀ ♀ □ 26°C sg: 1.022 50 cm 500L

#453

535



Synchiropus picturatus 399
7~r: 0 ♀ 26°C sg: 1,022.7 cm 80L

Pterosynchiropus splendidus 399
7~r: 0 ♀ 26°C sg: 1,022.6 cm 80L



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Repomucenus richardsoni 399
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L

Repomucenus richardsoni 399
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Callorhynchus japonicus 399
5, 7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L

Anzora tentaculata 399
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Neosynchiropus ocellatus 399
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L

Forcipopus sp. 399
5, 7 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 15 cm 200L



Callionymus calcaratus 399
12 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.023 7 cm 60L

Callionymus goodleyi 399
7, 12 ~ ♀ ♂ ♀ ♂ 25°C sg: 1.022 14 cm 150L

538



Synchiropus sp. 399
7-9 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 7 cm 75L

#455



Synchiropus marmoratus 399
9 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 13 cm 150L



Synchiropus sp. 399
7-9 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 7 cm 75L



Synchiropus sp. 399
7-8 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 8 cm 80L



Paradiptogrammus bairdi 399
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 11.4 cm 100L



Diplogrammus pauciradatus 399
2 ~ ♀ ♂ ♀ ♂ □ 25°C sg: 1.022 5 cm 50L



Paradiptogrammus bairdi 399
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 11.4 cm 100L



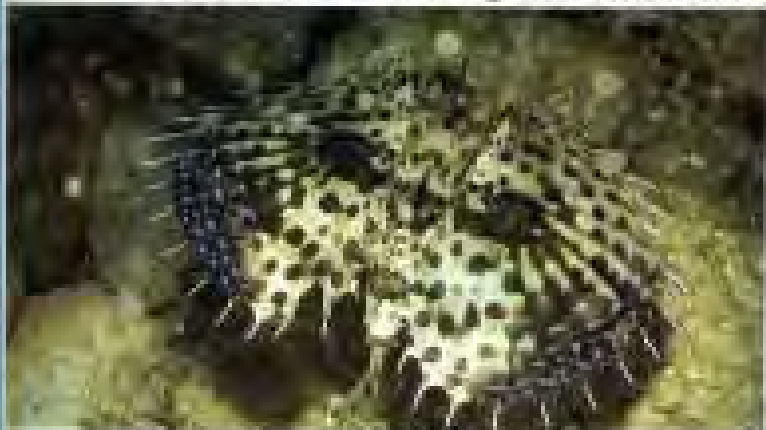
Paradiptogrammus bairdi 399
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 11.4 cm 100L



Trichonotus setigerus 384
7-9 ~ ♀ ◻ 26°C sg: 1.022 25 cm 300L



Trichonotus setigerus 384
7-9 ~ ♀ ◻ 26°C sg: 1.022 25 cm 300L



Dactyloptena orientalis 260
7-9 ~ ♀ ◻ 26°C sg: 1.022 35 cm 400L



Pterosynchiropus splendidus 399
7 ~ ♀ ◻ 26°C sg: 1.022 6 cm 80L



Synchiropus sp. 399
7, 8 ~ ♀ ◻ 26°C sg: 1.022 8 cm 100L



Synchiropus picturatus 399
7 ~ ♀ ◻ 26°C sg: 1.022 7 cm 60L



Synchiropus sp. 399
7, 8 ~ ♀ ◻ 26°C sg: 1.022 9 cm 100L



Synchiropus sp. 399
7, 8 ~ ♀ ◻ 26°C sg: 1.022 8 cm 100L



Cryptocentrus leptocephalus #03
7 ♀ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L

Signigobius biocellatus #03
6 ♀ ~ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 5 cm 50L



#457A



541

Nemateleonia magnifica 403
6-9 ♀ ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022-8 cm 100L

Cryptocentrus cinctus 403
7, 8 ♀ ~ ♀ ♀ ♀ 26°C sg: 1.022-8 cm 80L





Oxymetopon sp. 402
7 ♀ 0 ♀ 0 ♀ 26°C sg: 1.022 30 cm 200L



Oxymetopon cyanoctenatum 402
7 ♀ 0 ♀ 0 ♀ 26°C sg: 1.022 20 cm 200L



Ophiocara porocephala (juv.) 402
7 ♀ 2 ♀ 0 ♀ 26°C sg: 1.022 34 cm 400L



Bostrychus sinensis (adult) 402
7 ♀ 2 ♀ 0 ♀ 26°C sg: 1.022 10 cm 100L



Electra cf. acanthopoma 402
7 ♀ 2 ♀ 0 ♀ 26°C sg: 1.022 18 cm 200L



Boris amboinensis 402
7 ♀ 2 ♀ 0 ♀ 26°C sg: 1.017 8 cm 100L



Ophiocara porocephala 402
8 ♀ 2 ♀ 0 ♀ 26°C sg: 1.018 18 cm 200L



Bathygobius laddi 403
7 ♀ 2 ♀ 0 ♀ 26°C sg: 1.022 5 cm 50L



Amblyeleotris aurora 403
9 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 9 cm 100L



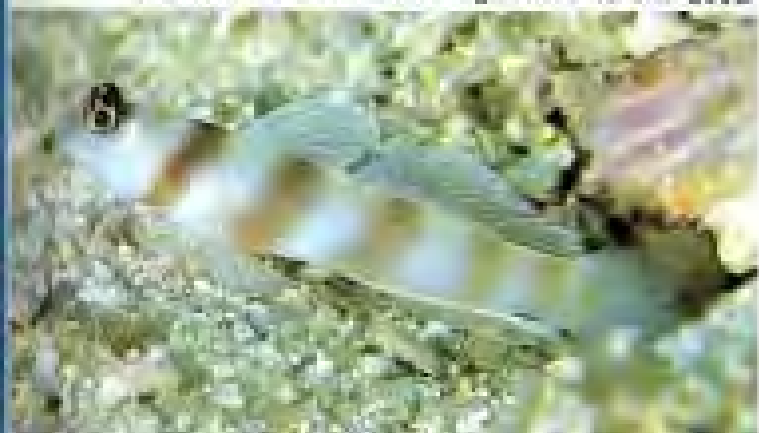
Amblyeleotris fasciatus 403
9 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 6 cm 60L



Amblyeleotris fontanesii 403
7 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 15 cm 200L



Amblyeleotris periphragmatus 403
12 ♀ ~♂ ◻ ◻ ◻ 24°C sg: 1.023 5 cm 50L



Amblyeleotris steinitzi 403
7-10 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 8 cm 80L



Amblyeleotris sungami 403
7-10 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 10 cm 100L



Amblyeleotris sp. 403
9 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 6 cm 60L



Amblyeleotris diagonalis 403
7-8 ♀ ~♂ ◻ ◻ ◻ 26°C sg: 1.022 6 cm 60L

544



Goby sp. 5 403
13 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 2.5 cm

#459



Amblyeleotris sp. 403
6-8 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 10 cm



Goby sp. 1 403
13 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 2.5 cm



Amblyeleotris sp. 403
6-8 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 10 cm



Gnatholepis sp. 403
13 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 3 cm



Amblyeleotris calliparens 403
7 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 8 cm



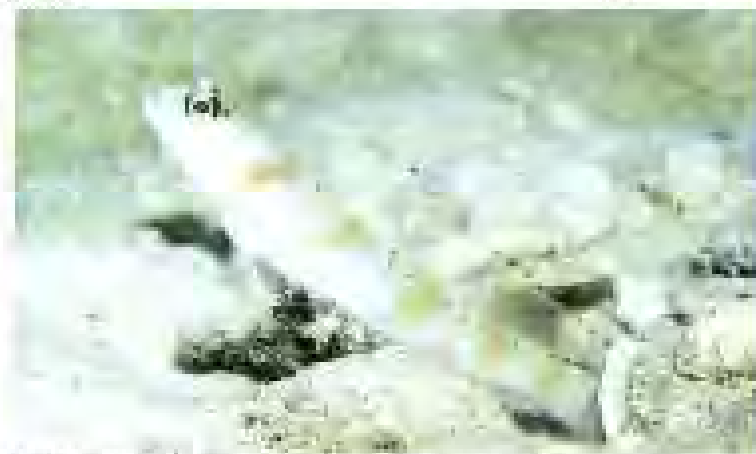
Goby sp. 2 403
13 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 2.5 cm



Amblyeleotris latifasciata 403
7-8 ♀ ♀ ♂ ♂ ♀ ♀ ♂ ♂ 26°C sg: 1,022 7 cm



Amblyeleotris randalli 403
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 3 cm 40L



Amblyeleotris sp. aff. *pericopthalmus* 403
12 ~ ♀ ♀ ♀ ♀ 24°C sg: 1.023 5 cm 50L



Amblyeleotris wheeleri 403
7-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Amblyeleotris wheeleri 403
7-9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



Amblyeleotris sp. 403
8 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 4 cm 40L



Amblyeleotris gutrata 403
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 60L



Amblyeleotris gymnocephala 403
7, 9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Amblyeleotris gymnocephala 403
7, 9 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 14 cm 150L

546



Amblyeleotris sp. 403
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L

461



Amblyeleotris steinitzi 403
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Amblyeleotris aungmyi 403
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Amblyeleotris steinitzi 403
7-10 ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Valenciennesa puellans 403
7, 9 ♀ ♂ ♀ ♂ 26°C sg: 1.022 14 cm 150L



Gnypogobius aurocingulus 403
6-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Siganus generonema 403
6, 7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Amblygobius sp. 403
7-8 ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Cryptocentrus cyanotaenia 403
7~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 11.5 cm 100L



Cryptocentrus cinctus 403
7~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 8 cm 100L



Radigobius parifeata 403
7~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 4.5 cm 50L



Cryptocentrus aurora 403
9~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 9 cm 100L



Ctenogobius aurocingulus 403
6~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 4 cm 50L



Ctenogobius aurocingulus 403
6~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 4 cm 50L



Ctenogobius pomastictus 403
7~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 4.5 cm 50L



Ctenogobius pomastictus 403
7~8 ㊦ ㊧ ㊨ ㊩ 26°C sg: 1.022 4.5 cm 50L



Ctenogobius langaroai 403
6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Ctenogobius pomastictus 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 4.5 cm 50L



Cryptocentrus ambanora 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Goby casamaneus 403
13 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 11.2 cm 100L



Amblyeleotris sp. cf. *japonica* 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Amblyeleotris sp. cf. *japonica* 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Goby sp. #3 403
13 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 50L



Tomiyamichthys ori 403
6-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Cryptocentrus caeruleomaculatus 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Cryptocentrus cinctus 403
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Cryptocentrus cryptocentrus 403
7, 9-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 100L



Cryptocentrus fasciatus 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Cryptocentrus lutheri 403
10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 11 cm 100L



Cryptocentrus atrigilliceps 403
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L

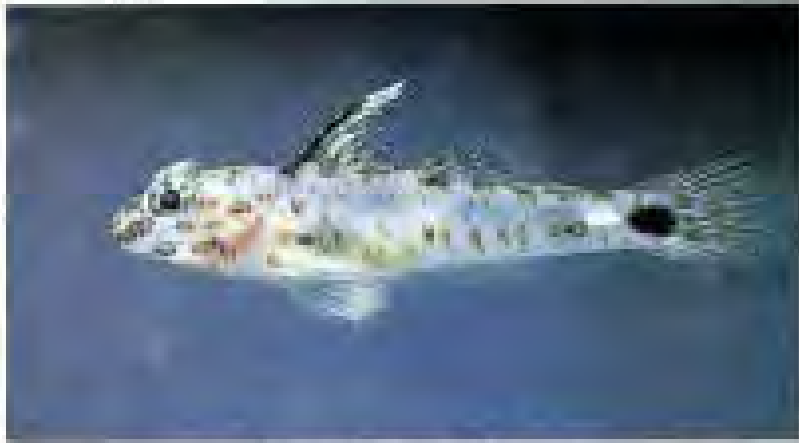


Ctenogobius crocineus 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L



Ctenogobius feroculus 403
8-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 6 cm 80L

550



Fusigobius sp. 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L

#465



Fusigobius sp. (*neophytus*?) 403
5(?) ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3(?) cm 50L



?*Eviota* sp. 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 50L



?*Eviota* sp. 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 50L



Oplipomus oplipomus 403
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Yongeleichthys criniger? 403
6-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Nes longus 403
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 100L



Nes longus 403
2 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Amblygobius rainfordi 403
7 ~ ♀ 26°C sg: 1.022 10 cm 100L



Signigobius biocellatus 403
6 ~ ♀ 26°C sg: 1.022 5 cm 50L



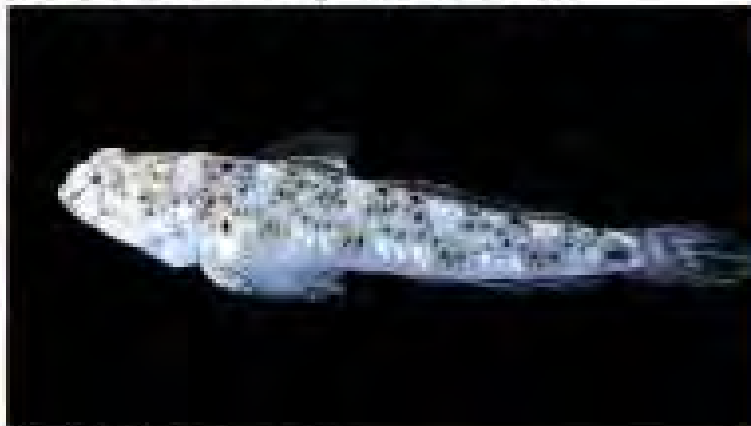
Nesogobius sp. 403
7 ~ ♀ 26°C sg: 1.022 6 cm 80L



Eviota sp. 403
8 ~ ♀ 26°C sg: 1.022 3.5 cm 50L



Pandaka lidewii 403
7 ~ ♀ 26°C sg: 1.022 4 cm 50L



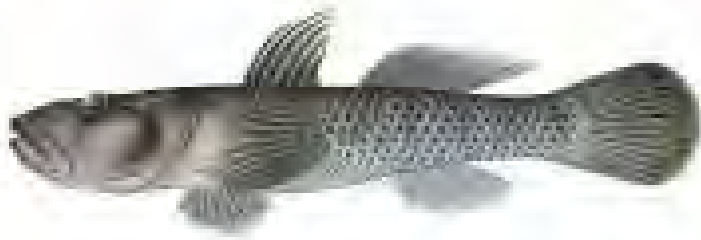
Silhouettea insinuans 403
7 ~ ♀ 26°C sg: 1.022 4 cm 50L



Kelloggella cardinalis 403
6 ~ ♀ 26°C sg: 1.022 3 cm 50L



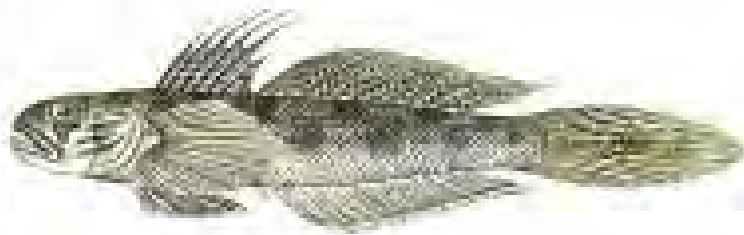
Acentrogobius gracilis 403
7 ~ ♀ 26°C sg: 1.018 6 cm 80L



Rhinogobius brunneus 403
5 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.018 10 cm 100L



Yongeichthys criniger 403
7-10 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 15 cm 300L



Oxyurichthys micralepis 403
7, 9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 13.5 cm 150L



Oxyurichthys papuensis 403
6 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 17 cm 200L



Acentrogobius flahimanus 403
5 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Stiphodon sp. 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 4.5 cm 50L



Myersina nigrivirgata 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 80L



Myersina macrostoma 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 80L



Tridentiger trigonocephalus 403
5~9~♂ ♀ 26°C sg: 1.022 4 cm 50L



Stenogobius xanthorhinica 403
7~8~♂ ♀ 26°C sg: 1.022 10 cm 100L



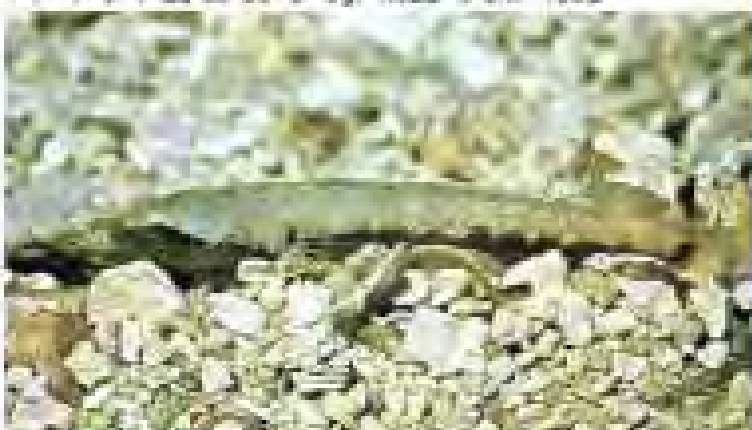
Asterropteryx sp. 403
7, 9~♂ ♀ 26°C sg: 1.022 7 cm 80L



Maldania mystacina 403
7~9~♂ ♀ 26°C sg: 1.022 6 cm 100L



Lamia gracillosa 403
7~10~♂ ♀ 26°C sg: 1.022 4 cm 50L



Gobulus myersi 403
2~♂ ♀ 26°C sg: 1.022 3 cm 50L

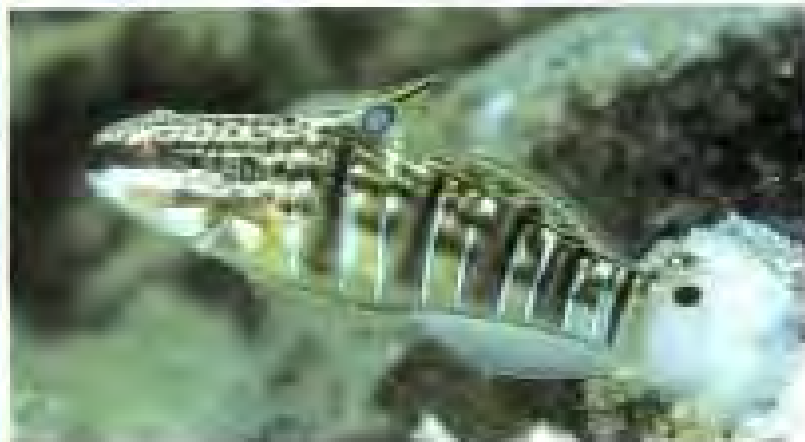


Stenogobius lacrymosus 403
6~9~♂ ♀ 26°C sg: 1.022 12 cm 150L



Yongeleichthys criniger 403
7~10~♂ ♀ 26°C sg: 1.022 15 cm 200L

554



Amblygobius phalaena 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L

#469



Amblygobius phalaena 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius albimaculatus 403
7-10 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 18 cm 200L



Amblygobius phalaena 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius phalaena 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius sphyrus 403
7, 9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 18 cm 200L



Amblygobius bynoensis 403
6-7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius bynoensis 403
6-7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius decussatus 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Amblygobius hectori 403
10 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Amblygobius nocturnus 403
9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



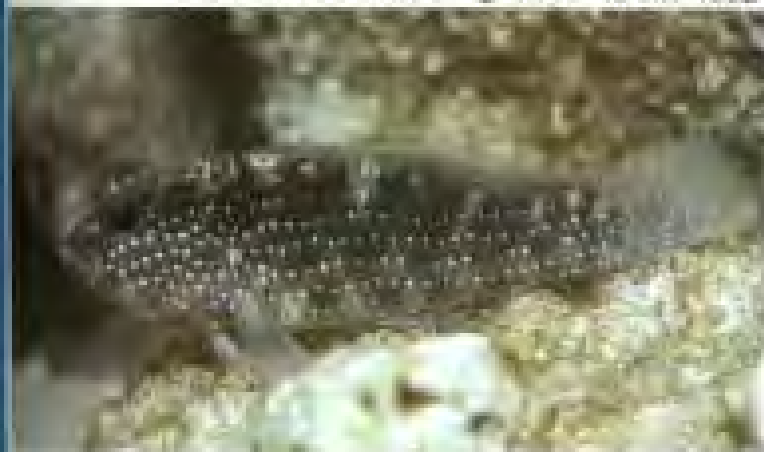
Amblygobius phalaena 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius seminctus 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Amblygobius sphynx 403
7, 9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 18 cm 200L



Asterropteryx semipunctatus 403
6-9 ~ ♀ ♂ ♀ ♂ □ 28°C sg: 1.022 6 cm 60L



Bryaninops sp. 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Cryptocentrus sp. 403
7-8 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 8 cm 80L



Amblyeleotris stewarti 403
7-10 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 8 cm 100L



Cryptocentrus leptocephalus 403
7-9 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 10 cm 100L



Cryptocentrus leptocephalus 403
7-9 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 10 cm 100L



Cryptocentrus fasciatus 403
7 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 8 cm 80L



Cryptocentrus fasciatus 403
7 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 8 cm 80L



Cryptocentrus niveatus 403
7 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 11 cm 100L



Cryptocentrus niveatus 403
7 ~> 1 ♀ 1 ♂ 26°C sg: 1.022 11 cm 100L



Cryptocentrus sp. 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 80L



Cryptocentrus caeruleomaculatus 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



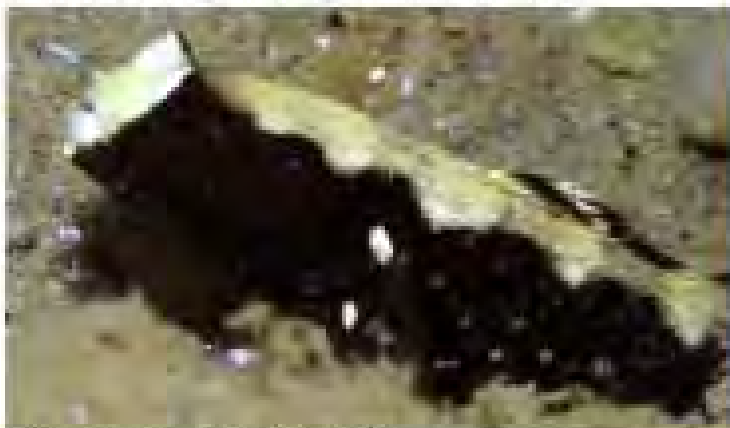
Cryptocentrus leptocephalus 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Cryptocentroides insignis 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 9 cm 100L



Cryptocentrus cinctus 403
7-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



Cryptocentrus albidarius 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 60L



Cryptocentrus sp. 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 100L



? Unidentified Goby 403
8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 11 cm 100L



Gnatholepis thomasoni 403
2 ♀ ♀ ♀ ♀ 26°C sg: 1.022 7.5 cm 80L



Gnatholepis deltoidea 403
7 ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Gnatholepis sp. 1 403
7, 9 ♀ ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Gnatholepis inconsequens 403
7 ♀ ♀ ♀ ♀ 26°C sg: 1.022 6 cm 80L



Favonigobius lateralis 403
7 ♀ ♀ ♀ ♀ 26°C sg: 1.022 6 cm 80L



Gnaenogobius urotaenia 403
5, 7 ♀ ♀ ♀ ♀ 24°C sg: 1.023 11 cm 100L



Caffrogobius caffer 403
9 ♀ ♀ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Pamatoschistus microps 403
14 ♀ ♀ ♀ ♀ 28°C sg: 1.022 7 cm 80L



Gobius niger 403
13-15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 15 cm 150L

#174

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Gobius orientatus 403
13-15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 18 cm 200L



Gobius vittatus 403
15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 4 cm 50L



Gobius auratus 403
14-15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 12 cm 100L



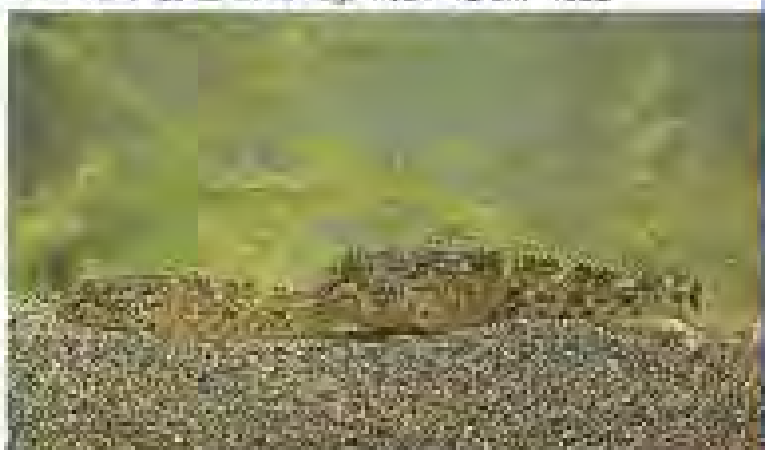
Cottogobius caffer 403
9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



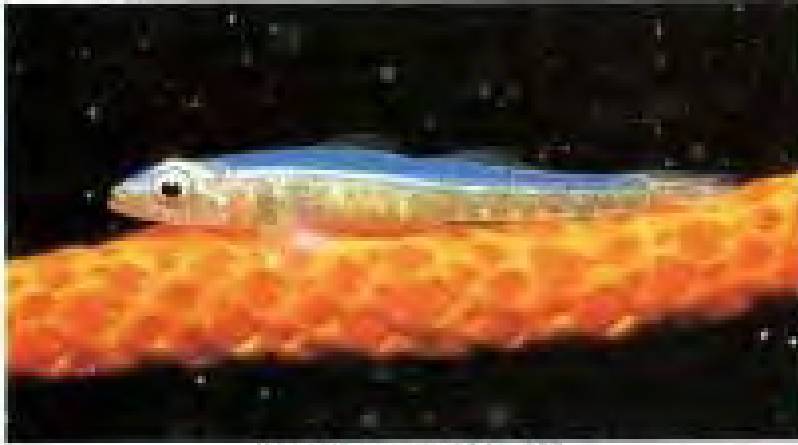
Gobius alatus 403
15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 12 cm 100L



Gobius boottcheri 403
15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 10 cm 100L



Gobius niger 403
13-15 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 15 cm 150L



Bryaninops amphix 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



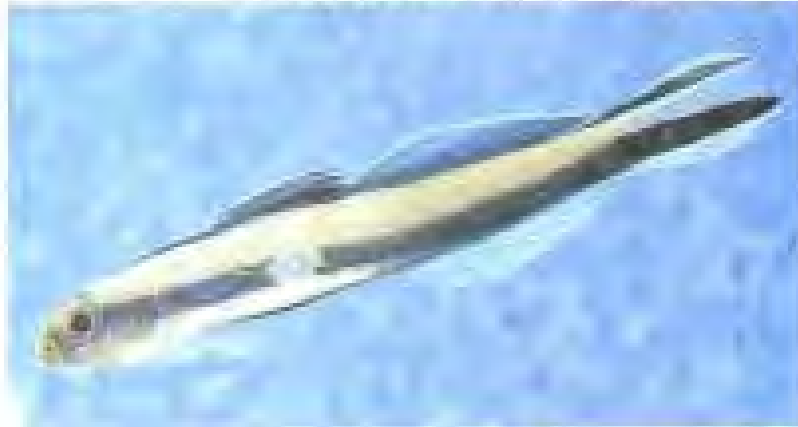
Bryaninops sp. 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Bryaninops natans 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Bryaninops nigris 403
8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Parioglossus formosus 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 2.8 cm 50L



Parioglossus lineatus 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



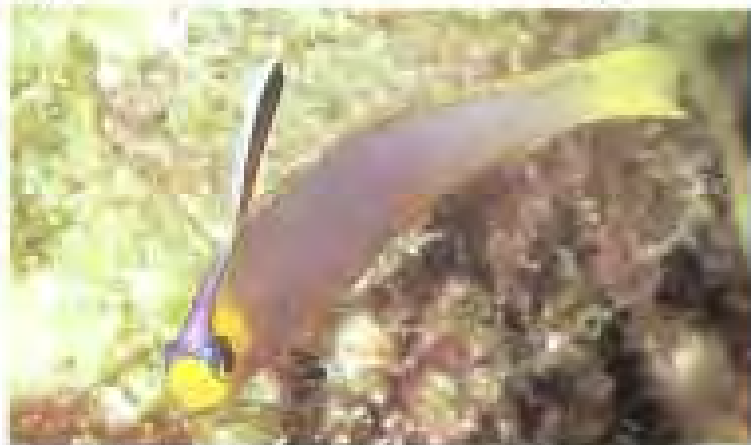
Favonigobius reichei 403
7-9 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7 cm 50L



Eviota bifasciata 403
7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Ptereleotris sp. 403
7 ~ ♀ 26°C sg: 1.022 7 cm 80L



Nemateleotris heifrichi 403
8 ~ ♀ 26°C sg: 1.022 5 cm 50L



Ptereleotris hanae 403
7 ~ ♀ 26°C sg: 1.022 8 cm 80L



Ptereleotris monoptera 403
7 ~ ♀ 26°C sg: 1.022 11 cm 100L



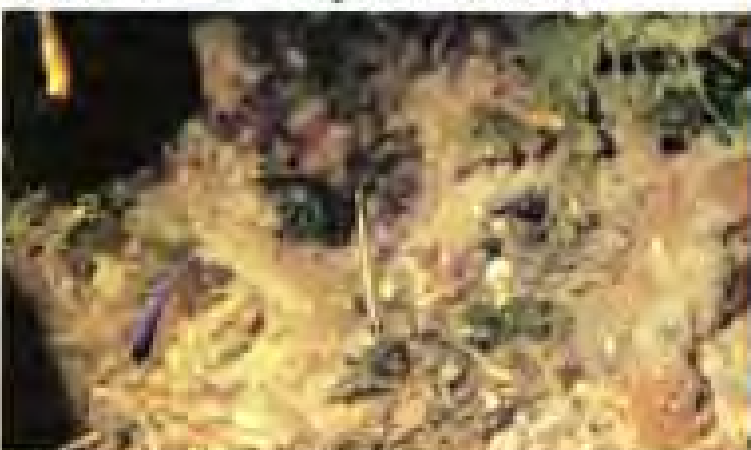
Ptereleotris microlepis and *P. monoptera* 403
6-9 ~ ♀ 26°C sg: 1.022 11 cm 100L



Ptereleotris zebra 403
6-9 ~ ♀ 26°C sg: 1.022 10 cm 100L



Gobioneellus saepepallens? 403
2 ~ ♀ 26°C sg: 1.022 5 cm 50L



Vomerogobius flavus 403
2 ~ ♀ 26°C sg: 1.022 4 cm 50L



Vanderhorstia ornatiflora 403
7-9 ~ ♀ ♂ □ 26°C sg: 1.022 7 cm 80L



Vanderhorstia ornatiflora 403
7-9 ~ ♀ ♂ □ 26°C sg: 1.022 7 cm 80L



Calliogobius smaragdus 403
7 ~ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Calliogobius sp. 403
7 ~ ♀ ♂ □ 26°C sg: 1.022 6 cm 60L



Calliogobius mucosus 403
7 ~ ♀ ♂ □ 26°C sg: 1.022 6 cm 80L



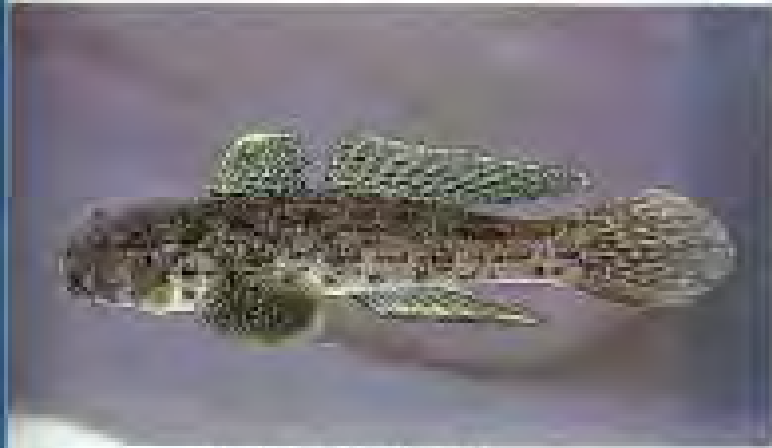
Calliogobius hasseiffi 403
7-8 ~ ♀ ♂ □ 26°C sg: 1.022 6 cm 100L



Arenigobius bifrenatus 403
12 ~ ♀ ♂ □ 24°C sg: 1.023 8 cm 100L



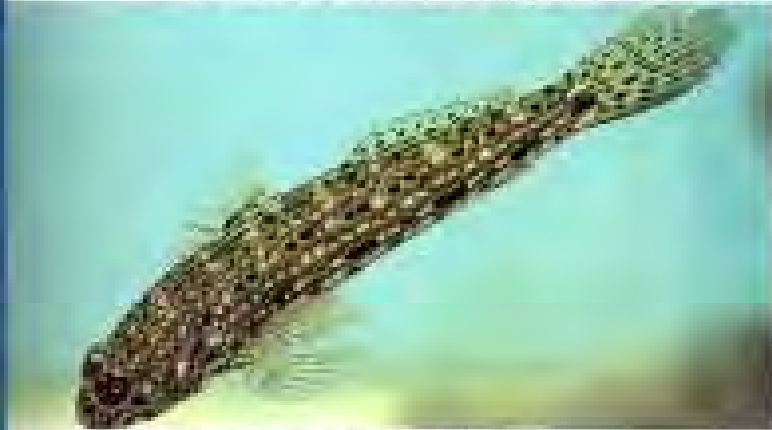
Arenigobius bifrenatus 403
12 ~ ♀ ♂ □ 24°C sg: 1.023 8 cm 100L



Istigobius ornatus 403
6-8 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Istigobius ornatus 403
5-6 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Istigobius nigroocellatus 403
5, 7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Istigobius decoratus 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 10 cm 100L



Istigobius goldmanni 403
7-10 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Istigobius ornatus 403
6-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Redigobius tessellatus 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5.2 cm 50L



Unidentified Goby 403
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 8 cm 80L



Eryrias punctang 403
7.9 ~ 8.1 ~ 9.1 ~ 10.1 ~ 11.1 ~ 12.1 ~ 13.1 ~ 14.1 ~ 15.1 ~ 16.1 ~ 17.1 ~ 18.1 ~ 19.1 ~ 20.1 ~ 21.1 ~ 22.1 ~ 23.1 ~ 24.1 ~ 25.1 ~ 26.1 ~ 27.1 ~ 28.1 ~ 29.1 ~ 30.1 ~ 31.1 ~ 32.1 ~ 33.1 ~ 34.1 ~ 35.1 ~ 36.1 ~ 37.1 ~ 38.1 ~ 39.1 ~ 40.1 ~ 26°C sg: 1.022 13 cm 150L



Eryrias baiesimus 403
7.9 ~ 8.1 ~ 9.1 ~ 10.1 ~ 11.1 ~ 12.1 ~ 13.1 ~ 14.1 ~ 15.1 ~ 16.1 ~ 17.1 ~ 18.1 ~ 19.1 ~ 20.1 ~ 21.1 ~ 22.1 ~ 23.1 ~ 24.1 ~ 25.1 ~ 26.1 ~ 27.1 ~ 28.1 ~ 29.1 ~ 30.1 ~ 31.1 ~ 32.1 ~ 33.1 ~ 34.1 ~ 35.1 ~ 36.1 ~ 37.1 ~ 38.1 ~ 39.1 ~ 40.1 ~ 26°C sg: 1.022 11 cm 100L



Aruma histrio 403
3 ~ 4 ~ 5 ~ 6 ~ 7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 ~ 27 ~ 28 ~ 29 ~ 30 ~ 31 ~ 32 ~ 33 ~ 34 ~ 35 ~ 36 ~ 37 ~ 38 ~ 39 ~ 40 ~ 26°C sg: 1.022 6.4 cm 50L



Eryrias punctang 403
7.9 ~ 8.1 ~ 9.1 ~ 10.1 ~ 11.1 ~ 12.1 ~ 13.1 ~ 14.1 ~ 15.1 ~ 16.1 ~ 17.1 ~ 18.1 ~ 19.1 ~ 20.1 ~ 21.1 ~ 22.1 ~ 23.1 ~ 24.1 ~ 25.1 ~ 26.1 ~ 27.1 ~ 28.1 ~ 29.1 ~ 30.1 ~ 31.1 ~ 32.1 ~ 33.1 ~ 34.1 ~ 35.1 ~ 36.1 ~ 37.1 ~ 38.1 ~ 39.1 ~ 40.1 ~ 26°C sg: 1.022 13 cm 150L



Barbulifer ceuthopecus 403
2 ~ 3 ~ 4 ~ 5 ~ 6 ~ 7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 ~ 27 ~ 28 ~ 29 ~ 30 ~ 31 ~ 32 ~ 33 ~ 34 ~ 35 ~ 36 ~ 37 ~ 38 ~ 39 ~ 40 ~ 26°C sg: 1.022 3 cm 50L



Barbulifer pantherinus 403
3 ~ 4 ~ 5 ~ 6 ~ 7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 ~ 27 ~ 28 ~ 29 ~ 30 ~ 31 ~ 32 ~ 33 ~ 34 ~ 35 ~ 36 ~ 37 ~ 38 ~ 39 ~ 40 ~ 26°C sg: 1.022 5 cm 50L



Bethygoobius cocosensis 403
7.9 ~ 8.1 ~ 9.1 ~ 10.1 ~ 11.1 ~ 12.1 ~ 13.1 ~ 14.1 ~ 15.1 ~ 16.1 ~ 17.1 ~ 18.1 ~ 19.1 ~ 20.1 ~ 21.1 ~ 22.1 ~ 23.1 ~ 24.1 ~ 25.1 ~ 26.1 ~ 27.1 ~ 28.1 ~ 29.1 ~ 30.1 ~ 31.1 ~ 32.1 ~ 33.1 ~ 34.1 ~ 35.1 ~ 36.1 ~ 37.1 ~ 38.1 ~ 39.1 ~ 40.1 ~ 26°C sg: 1.022 8 cm 50L



Bethygoobius retusus 403
3 ~ 4 ~ 5 ~ 6 ~ 7 ~ 8 ~ 9 ~ 10 ~ 11 ~ 12 ~ 13 ~ 14 ~ 15 ~ 16 ~ 17 ~ 18 ~ 19 ~ 20 ~ 21 ~ 22 ~ 23 ~ 24 ~ 25 ~ 26 ~ 27 ~ 28 ~ 29 ~ 30 ~ 31 ~ 32 ~ 33 ~ 34 ~ 35 ~ 36 ~ 37 ~ 38 ~ 39 ~ 40 ~ 26°C sg: 1.022 11.4 cm 100L



Pterogobius zonatoides 403
5, 7 ~ ♀ ♂ ♀ ♂ □ 23°C sg: 1.024 9 cm 100L



Pterogobius virgo 403
5, 7 ~ ♀ ♂ ♀ ♂ □ 23°C sg: 1.024 16 cm 200L



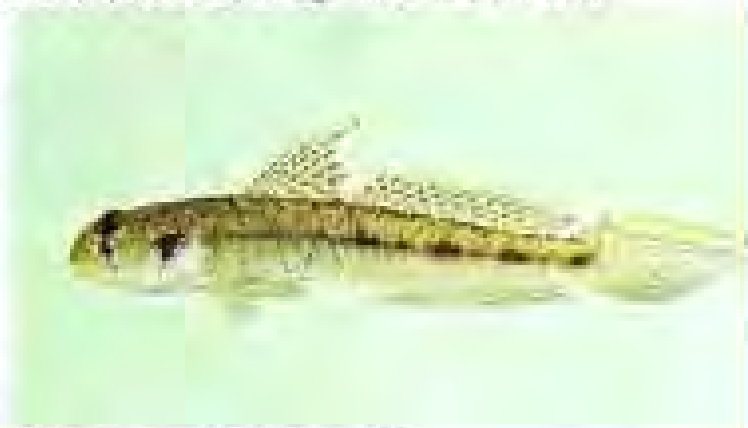
Pterogobius elspoides 403
5, 7 ~ ♀ ♂ ♀ ♂ □ 23°C sg: 1.024 8.5 cm 100L



Gobiomorus stigmatophus 403
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 16.5 cm 200L



Gobiomorus stigmatophus 403
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 8 cm 100L



Gobiomorus ascepsallens 403
2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Grammicichthys pulchellus 403
5, 7 ~ ♀ ♂ ♀ ♂ □ 23°C sg: 1.024 10 cm 100L



Grammicichthys dolichognathus 403
5 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Valenciennes longipinnis 403
7.9 ~ 10.0 cm 26°C sg: 1.022 17 cm 200L



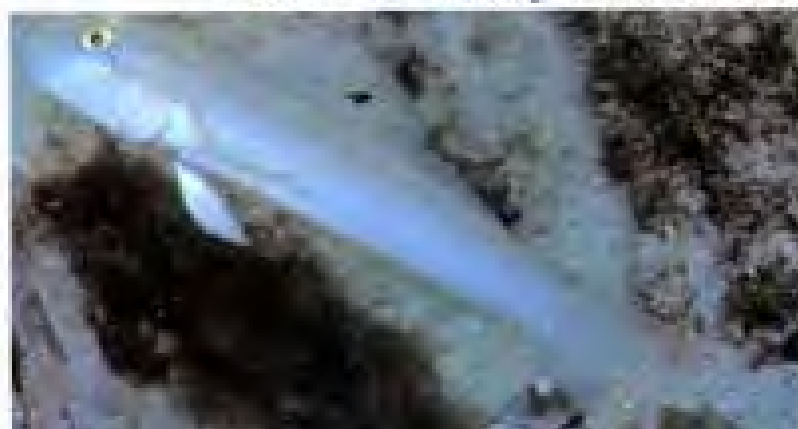
Valenciennes helsdingeni 403
7.9 ~ 10.0 cm 26°C sg: 1.022 16 cm 200L



Valenciennes puellaris 403
7.9 ~ 10.0 cm 26°C sg: 1.022 12 cm 100L



Valenciennes puellaris 403
7.9 ~ 10.0 cm 26°C sg: 1.022 12 cm 100L



Valenciennes sexguttata 403
7.9 ~ 10.0 cm 26°C sg: 1.022 13 cm 150L



Valenciennes strigata 403
7.9 ~ 10.0 cm 26°C sg: 1.022 18 cm 200L



Valenciennes murata 403
7.9 ~ 10.0 cm 26°C sg: 1.022 10 cm 100L



Priolepis cincta 403
7.9 ~ 10.0 cm 26°C sg: 1.022 4 cm 50L



Unidentified Goby 403
 8 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 4 cm 50L



Gymneleotris semifurcata 403
 3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Chriolepis fisheri 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 4 cm 50L



Chriolepis zebra 403
 3 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 50L



Priolepis semidoriatus 403
 7 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3 cm 50L



Priolepis cinctus 403
 7-8 ♀ ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 50L



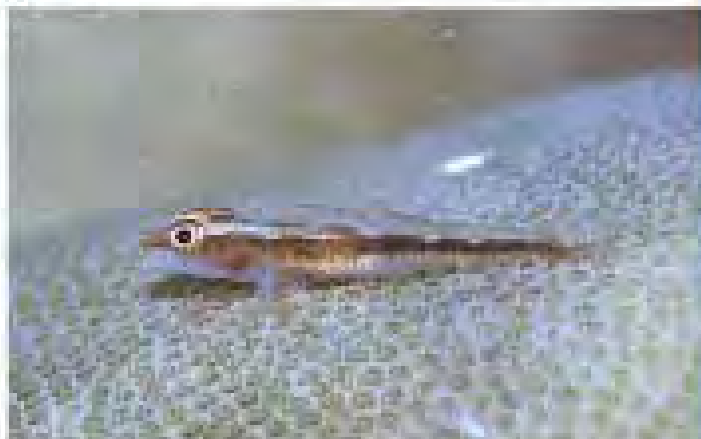
Priolepis boreus 403
 5 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 2.5 cm 50L



Priolepis hippoliti 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 3.5 cm 50L



Periophthalmus koefuerti 403
9 ~ ♀ 26°C sg: 1.022 10 cm 100L



Pleurosiocya sp. 403
9 ~ ♀ 26°C sg: 1.022 2.5 cm 30L



Ptereleotris euides 403
7-10 ~ ♀ 26°C sg: 1.022 12 cm 150L



Ptereleotris euides 403
7-10 ~ ♀ 26°C sg: 1.022 12 cm 150L



Ptereleotris heteropterus 403
7-9 ~ ♀ 26°C sg: 1.022 9 cm 100L



Ptereleotris microlepis 403
6-9 ~ ♀ 26°C sg: 1.022 11 cm 100L



Vanderhorstia ambonora 403
7-8 ~ ♀ 26°C sg: 1.022 8 cm 100L



Vanderhorstia ornativissima 403
7-9 ~ ♀ 26°C sg: 1.022 7 cm 80L



loglossus sp. 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



loglossus heleneae 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 24 cm 300L



loglossus callurus 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



loglossus callurus 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Microgobius carr 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Microgobius carr 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Ballmannia boqueronensis 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 10 cm 100L



Microgobius signatus 403
 2 ~ ♀ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 60L



Crenogobius maculosus 403
 8 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7 cm 80L



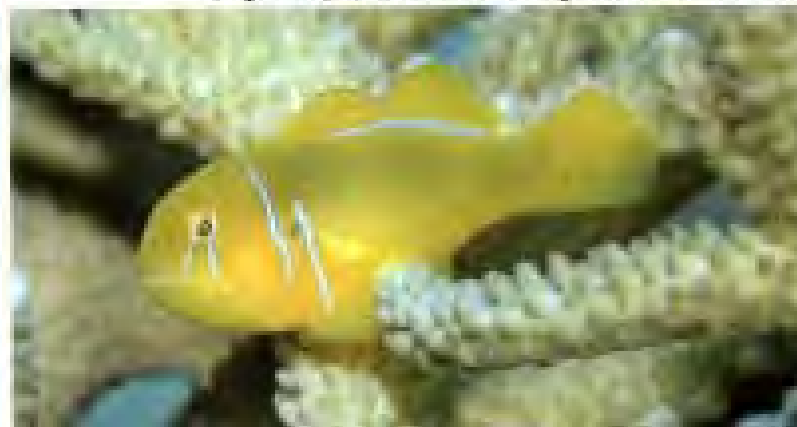
Fusigobius neophytus 403
 5 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Fusigobius sp. 403
 7 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 80L



Gnatholepis sp. 403
 7 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 5 cm 50L



Gobiodon cirrus 403
 7-9 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 6 cm 80L



Nemateleoptris magnifica 403
 6-8 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 9 cm 100L



Nemateleoptris decora 403
 7-8 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



Nemateleoptris decora 403
 7-8 ♀ ~ ♂ ♀ ♂ □ 26°C sg: 1.022 7.5 cm 80L



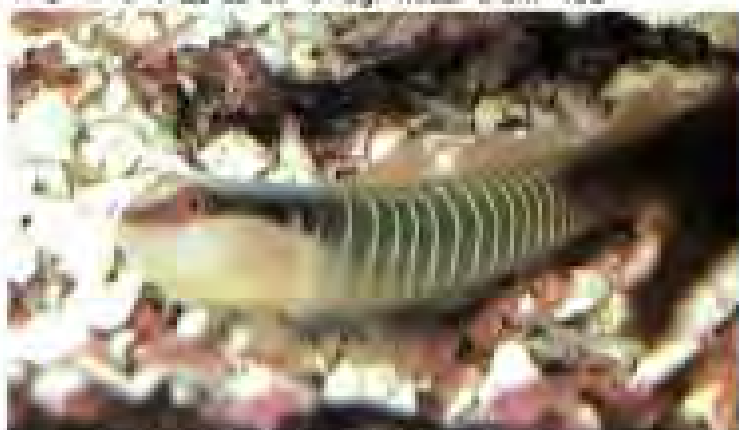
Gobiosoma puncticolatus 403
 3 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 3 cm 40L



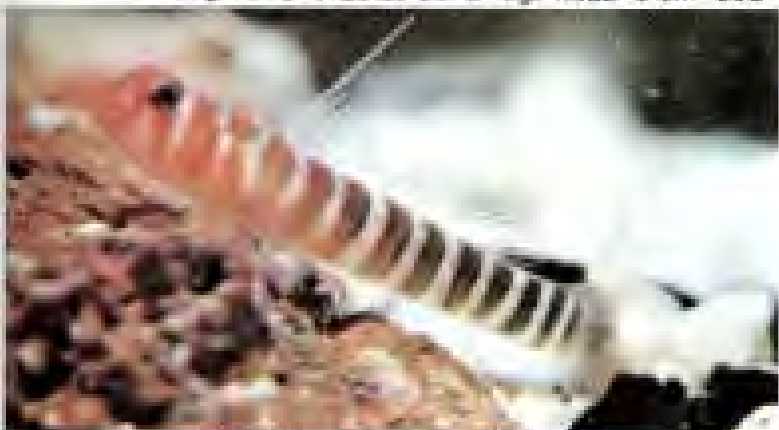
Gobiosoma saucrum 403
 2 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 3 cm 40L



Gobiosoma macrodon 403
 2 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 5 cm 50L



Gobiosoma multifasciatum 403
 2 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 4.5 cm 50L



Gobiosoma aff. *limbaughi* 403
 3 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 3 cm 40L



Gobiosoma digueti 403
 3 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 3 cm 40L



Gobiosoma ferox 403
 2 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 3.2 cm 40L



Gobiosoma sp. 403
 3 ♀ ~ 0 ♀ ~ 26°C sg: 1,022 2.5 cm 40L



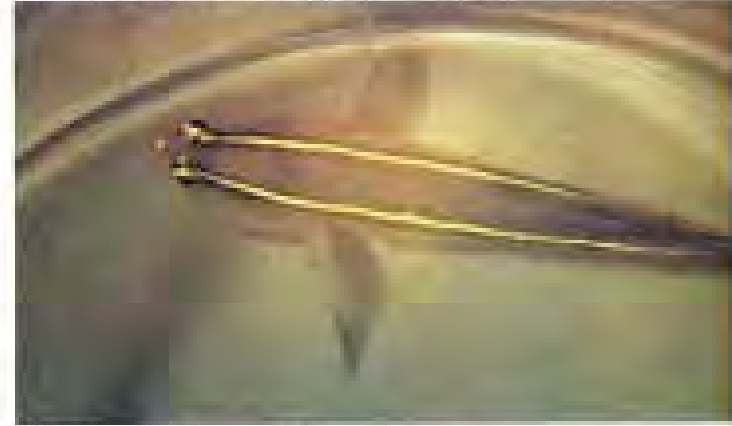
Gobiosoma atronotum 403
2 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 2.5 cm 40L



Gobiosoma prochilus 403
2 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 2.7 cm 40L



Gobiosoma chancei 403
2 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 4.3 cm 50L



Gobiosoma horsti 403
2 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 5 cm 50L



Gobiosoma foutsae 403
2 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 3.5 cm 40L



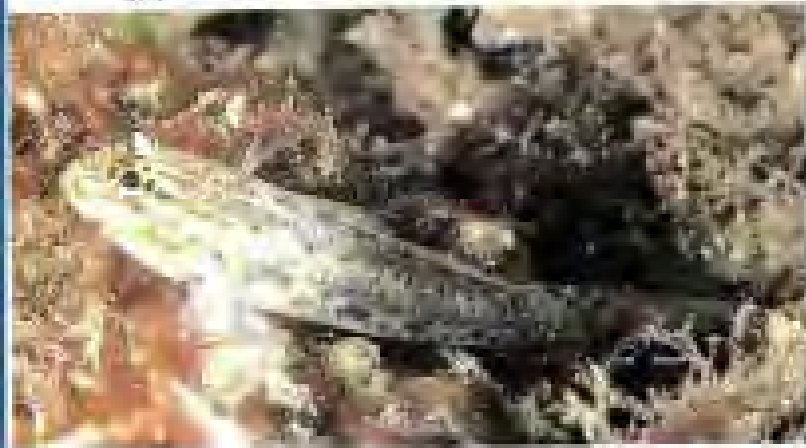
Gobiosoma chiguta 403
3 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 3 cm 40L



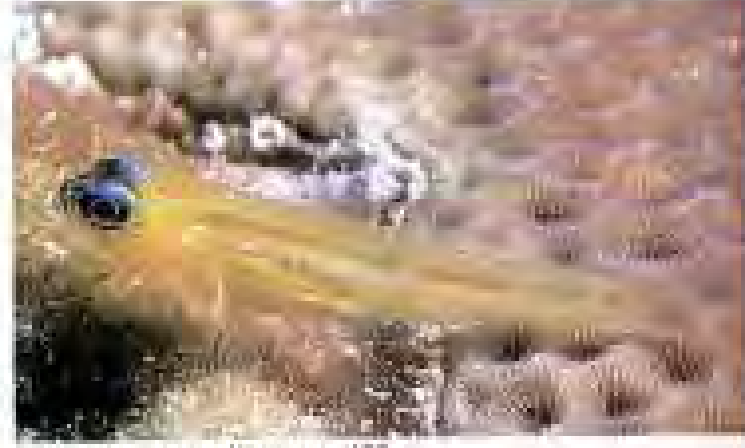
Eviota nigriventris 403
7 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 2.5 cm 40L



Eviota nigriventris 403
7 ♀ ~ 1 ♂ ~ 1 ♀ ~ 1 ♂ ~ 26°C sg: 1.022 2.5 cm 40L



Coryphopterus dierus 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



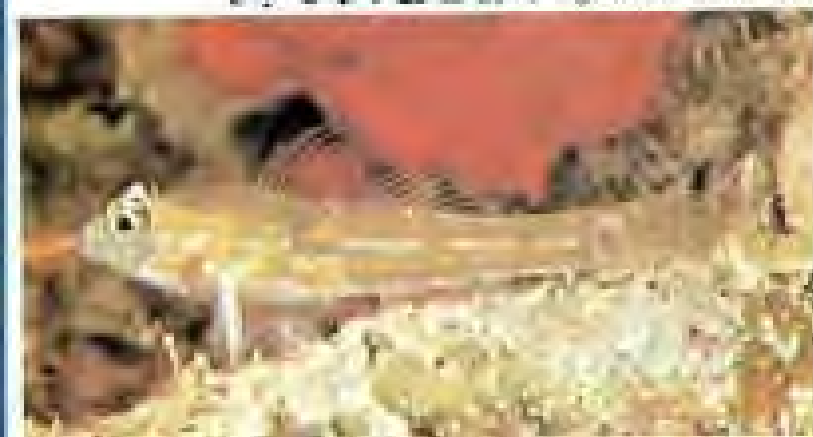
Coryphopterus lipernes 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 40L



Coryphopterus personatus 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 40L



Coryphopterus glaucifrenum 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 7.5 cm 80L



Coryphopterus sp. 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 40L



Coryphopterus nicholsi 403
3 ♀ ~ ♂ ♀ ♂ 24°C sg: 1.022 15 cm 150L



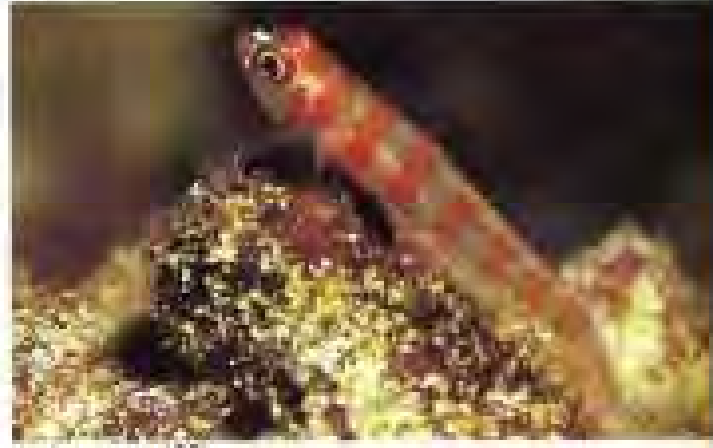
Coryphopterus aidoian 403
2 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 5.5 cm 60L



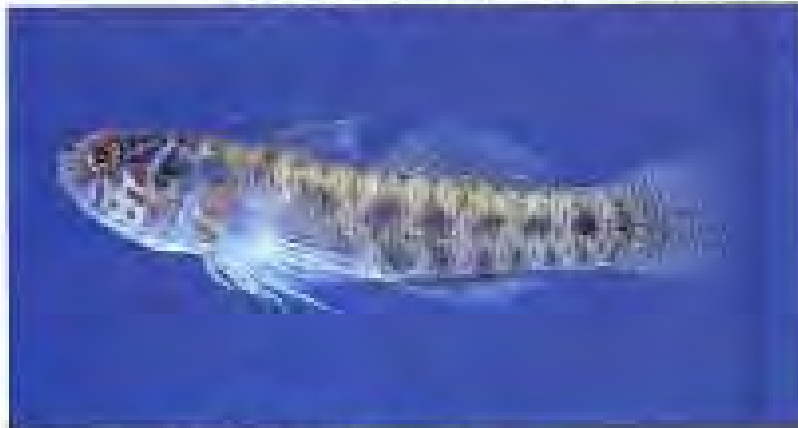
Coryphopterus urosipilus 403
3 ♀ ~ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 40L



Eviota sp. 403
7 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 3 cm 40L



Eviota sp. 403
7 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 3 cm 40L



Eviota bimaculata 403
12 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 2.3 cm 40L



Eviota sp. 403
7 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 3 cm 40L



Eviota abax 403
5 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 3.6 cm 40L



Eviota fasciata 403
5 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 3 cm 40L



Eviota imbutata 403
6-8 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 2 cm 40L



Eviota bifasciata 403
7-10 ♀ ~ 10 ♂ ~ 1 ♀ ~ 10 ♂ ~ 26°C sg: 1.022 2.3 cm 40L

578



Gobiodon stranguilatus 403
6-7 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3.5 cm 40L

483



Gobiodon okinawae 403
5, 7 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3.5 cm 40L



Gobiodon haithe 403
7 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 7 cm 60L



Gobiodon rivulatus 403
7, 8 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 5 cm 50L



Gobiodon multilineatus 403
7 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3.5 cm 40L



Paragobiodon xanthocephalus 403
7-8 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3.5 cm 40L



Paragobiodon echinocephalus 403
7 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 3 cm 40L



Gobiodon quinquestrigatus 403
5, 7, 9 ½ ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 4 cm 50L



Periophthalmus sobrius? 403
9 ♀ ~ 0 ♀ 26°C sg: 1.015 14 cm 200L



Periophthalmus sp. 403
7 ♀ ~ 0 ♀ 26°C sg: 1.015 12 cm 100L



Periophthalmus koereuteri 403
8 ♀ ~ 0 ♀ 26°C sg: 1.015 15 cm 200L



Unidentified Mudskipper 403
7 ♀ ~ 0 ♀ 26°C sg: 1.015 20 cm 200L



Periophthalmus argentilineatus 403
7-8 ♀ ~ 0 ♀ 26°C sg: 1.015 10 cm 100L



Periophthalmus regius 403
7 ♀ ~ 0 ♀ 26°C sg: 1.015 10 cm 100L



Periophthalmus cantonensis 403
5 ♀ ~ 0 ♀ 26°C sg: 1.015 12 cm 100L



Periophthalmus papilio? 403
9 ♀ ~ 0 ♀ 26°C sg: 1.015 25 cm 300L



Boleophthalmus pectinoides 403
5, 7 ♀♂ □ ▢ 26°C sg: 1.018 20 cm 200L



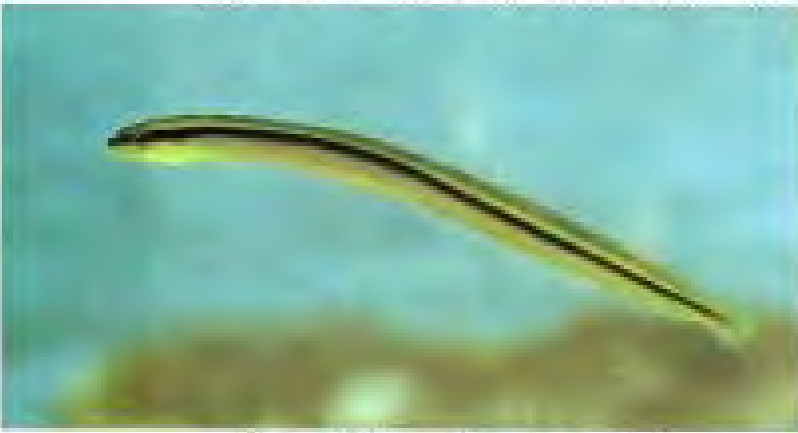
Boleophthalmus polyophthalmus 403
5, 7 ♀♂ □ ▢ 26°C sg: 1.022 20 cm 200L



Clenotrypauchen microcephalus 405
7 ♀♂ □ ▢ 26°C sg: 1.022 17.5 cm 200L



Brachyambrycus caecus 404
7 ♀♂ □ ▢ 26°C sg: 1.022 7 cm 80L



Gunnelichthys pleurotaenia 407
7 ♀♂ □ ▢ 26°C sg: 1.022 6 cm 80L



Gunnelichthys monostigma 407
7 ♀♂ □ ▢ 26°C sg: 1.022 9 cm 100L



Cerdais floridana 407
2 ♀♂ □ ▢ 26°C sg: 1.022 5 cm 50L



Gunnelichthys curvipes 407
6 ♀♂ □ ▢ 26°C sg: 1.022 13 cm 150L



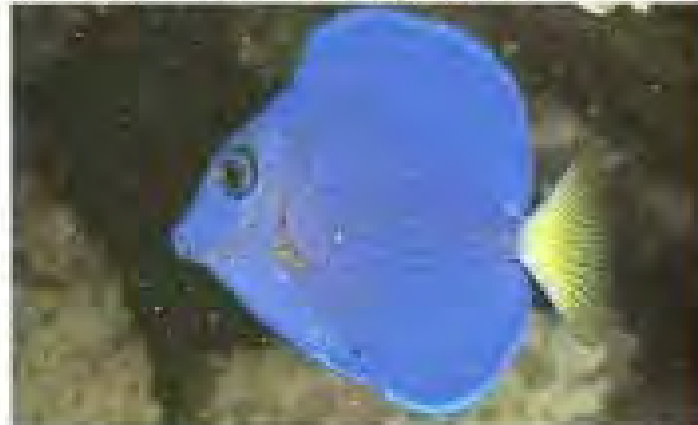
Acanthurus chlorogus 409
2 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 26 cm 300L



Acanthurus bahianus 409
2 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 30 cm 300L



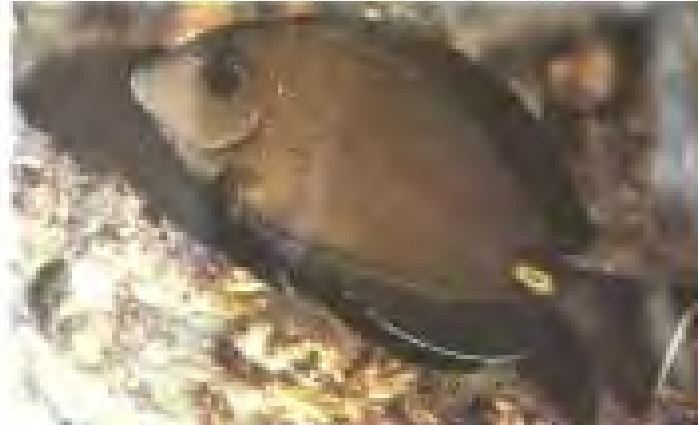
Acanthurus coeruleus 409
2 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 23 cm 300L



Acanthurus coeruleus 409
2 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 23 cm 300L



Acanthurus blochi 409
6-7, 9 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 42 cm 500L



Acanthurus monroviae 409
13 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 24 cm 300L



Acanthurus schwaes 409
5-7 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 28 cm 300L



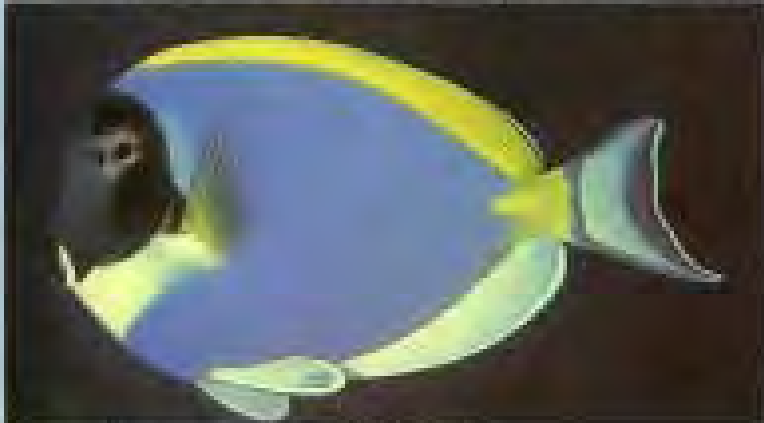
Acanthurus japonicus 409
7 ♀ ~r + 0 ♀ ~r @ 26°C sg: 1.022 20 cm 300L



Acanthurus mata 409
6-8 1/2" ~ 4" + 0" ♀ 26°C sg: 1.022 50 cm 500L



Acanthurus glaucopareus 409
3, 6-8 1/2" ~ 4" + 0" ♀ 26°C sg: 1.022 17 cm 200L



Acanthurus leucosternon 409
7-8 1/2" ~ 4" + 0" ♀ 26°C sg: 1.022 23 cm 300L



Acanthurus guttatus 409
6-8 1/2" ~ 4" + 0" ♀ 26°C sg: 1.022 23 cm 300L



Acanthurus leucosternon 409
7-8 1/2" ~ 4" + 0" ♀ 26°C sg: 1.022 23 cm 300L

584



Acanthurus nigrofasciatus 409
7-10 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 21 cm 200L

#408



Acanthurus olivaceus 409
6-7 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 25 cm 300L



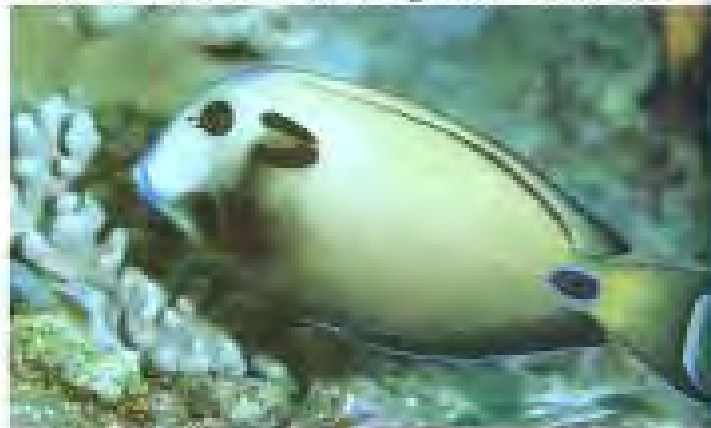
Acanthurus pyroferus 409
6-7 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus pyroferus 409
6-7 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus sohai 358
10 ♀ ♂ + ♀ ♀ 26°C sg: 1.026 40 cm 400L



Acanthurus lineatus 409
9 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 31 cm 300L

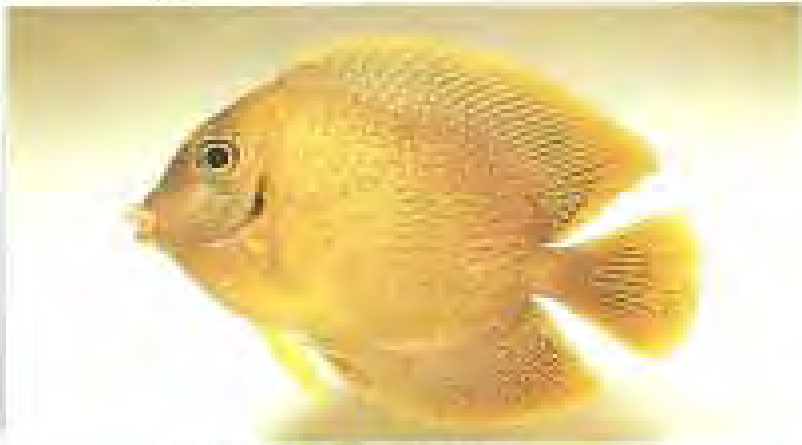


Acanthurus thompsoni 409
6-7 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 27 cm 300L



Acanthurus varropterus 409
3-6-9 ♀ ♂ + ♀ ♀ 26°C sg: 1.022 62.5 cm 600L

500

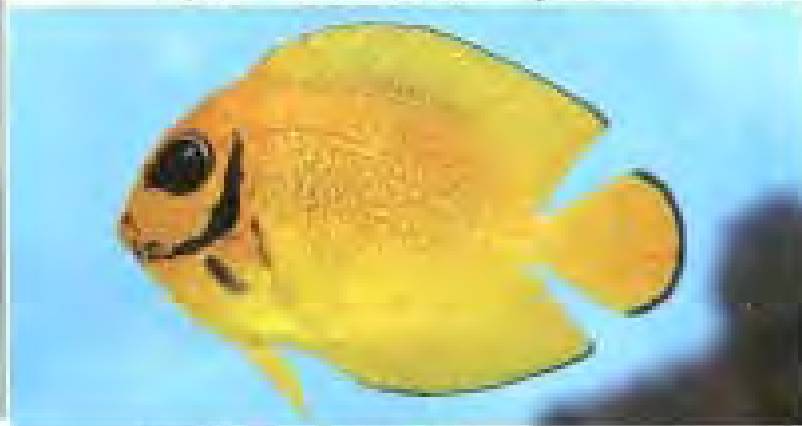


Acanthurus chromis 409
7 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 19 cm 200L

#500



Acanthurus chromis 409
7 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus pyroferus 409
6-7 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus pyroferus 409
6-7 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus dussumieri 409
6-9 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 54 cm 800L



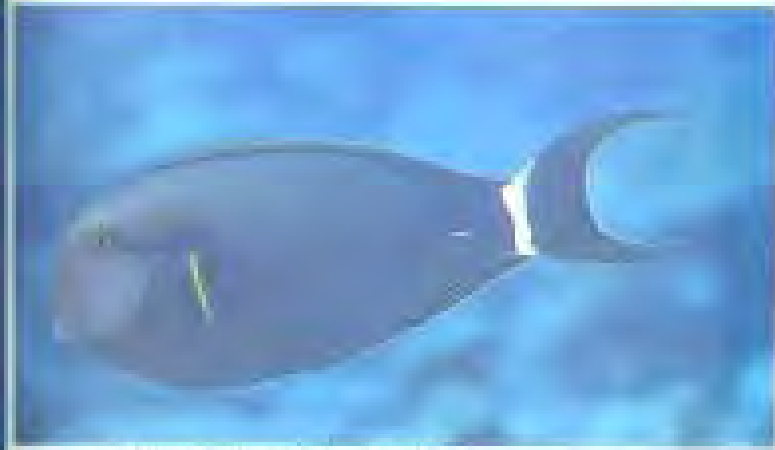
Acanthurus bartene 409
7-9 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 30 cm 300L



Acanthurus olivaceus 409
6-7 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 25 cm 300L



Acanthurus mata 409
6-9 ½ ~ 10 + 0 ♀ 26°C sg: 1.022 50 cm 500L



Acanthurus nigricauda 409
5-9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 40 cm 400L



Acanthurus lineatus 409
6-9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 38 cm 400L



Acanthurus maculiceps 409
7 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 19 cm 200L



Acanthurus brockii 409
6-7, 9 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 42 cm 500L



Ctenochaetus strigosus 409
6-10 ♀ ~♂ + 0 ♀ 26°C sg: 1.022 18 cm 200L

588



Prionurus punctatus (juv.) 409
3 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 60 cm 600L

#502



Prionurus punctatus 409
3 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 60 cm 600L



Prionurus leucilawus 409
0 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 50 cm 500L



Prionurus scapirus 409
7 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 40 cm 400L



Acanthurus leucopareus 409
6-7 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 20 cm 200L



Acanthurus triostegus 409
6-9 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 27 cm 300L



Acanthurus nigrofasciatus (juv.) 409
6-7 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 20 cm 200L



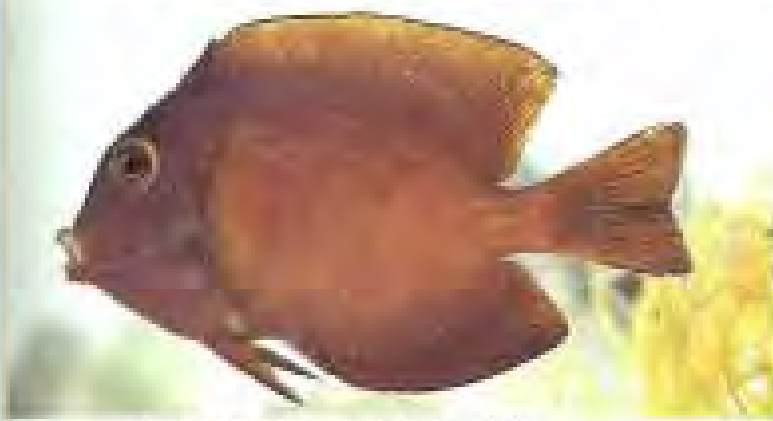
Acanthurus nigrofasciatus 409
6-7 ♀ ~♂ + 0 ♀ ~♂ @ 26°C sg: 1,022 20 cm 200L



Paracanthurus hepatus 409
6-8 1/2 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 26 cm 300L



Paracanthurus hepatus 409
6-8 1/2 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 26 cm 300L



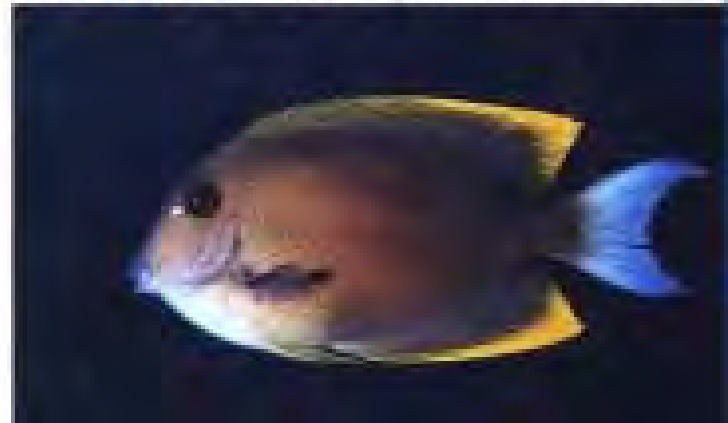
Clenocbaetus marginatus 409
7-9 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 26 cm 200L



Clenocbaetus striatus 409
6-10 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 26 cm 300L



Clenocbaetus tomimwensis (juv.) 409
7 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 15 cm 150L



Clenocbaetus tomimwensis 409
7 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 15 cm 150L



Clenocbaetus hawaiiensis 409
6 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 21 cm 200L



Clenocbaetus hawaiiensis (juv.) 409
6 吋 吋 + 0 吋 吋 吋 26°C sg: 1.022 21 cm 200L

#50



Ctenochaetus strigosus 409
6-9 ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 18 cm 200L

#504



Ctenochaetus strigosus (juv.) 409
6-9 ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 18 cm 200L



Paracanthurus hepatus 409
6-9 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 26 cm 300L



Naso tuberosus 409
6-9 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 60 cm 600L



Naso brevirostris 409
6-10 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 60 cm 600L



Naso lituratus 409
6-10 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 45 cm 500L



Naso wanningi 409
6-9 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 60 cm 600L



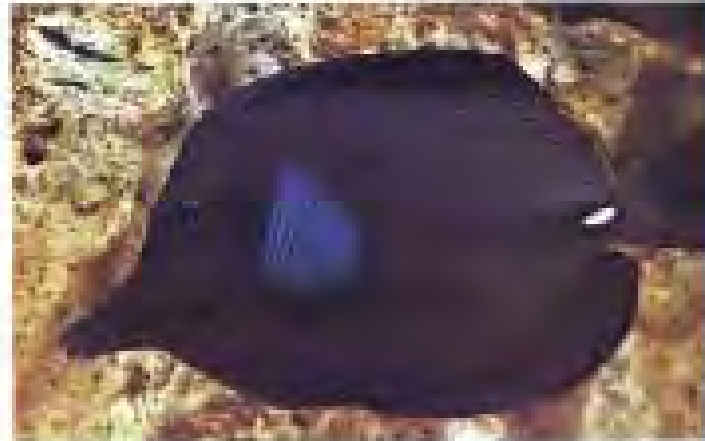
Naso wanningi 409
6-9 ♀ ~ ♀ + ♂ ♀ ♀ 26°C sg: 1,022 60 cm 600L

092



Zebrasoma scopas 409
8-10 1/2 ~ + 0 ~ 26°C sg: 1.022 20 cm 200L

#306



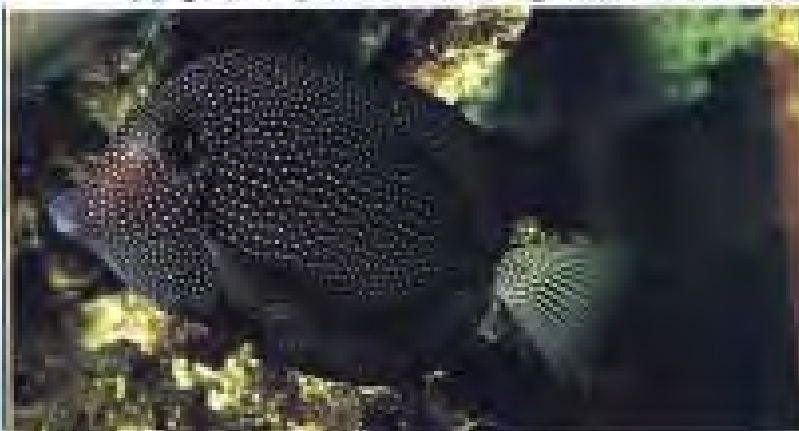
Zebrasoma rostratum 409
6 1/2 ~ + 0 ~ 26°C sg: 1.022 20 cm 200L



Zebrasoma veliferum 409
6-8 1/2 ~ + 0 ~ 26°C sg: 1.022 40 cm 400L



Zebrasoma veliferum 409
6-8 1/2 ~ + 0 ~ 26°C sg: 1.022 40 cm 400L



Zebrasoma gemmatum 408
8 1/2 ~ + 0 ~ 26°C sg: 1.022 22 cm 200L



Zebrasoma flavescens 409
6-8 1/2 ~ + 0 ~ 26°C sg: 1.022 15 cm 150L



Zebrasoma flavescens 409
6-8 1/2 ~ + 0 ~ 26°C sg: 1.022 15 cm 150L



Zebrasoma flavescens 409
6-8 1/2 ~ + 0 ~ 26°C sg: 1.022 15 cm 150L



Zebrafish *Zebrafish* 409
8.8 g, 4.5 cm, ♀, 26°C, sg: 1.022, 40 cm, 400L

#004



Zebrasoma scopas 409
6-10 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L

#005



Zebrasoma scopas 409
6-10 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Zebrasoma gemmatum 409
9 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 22 cm 200L



Zebrasoma desjardini 409
9-10 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Zebrasoma desjardini 409
9-10 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Zoexilus canescens 409
3, 6-9 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 22 cm 200L



Zebrasoma xanthurus 409
10 ♀ ♂ + ♀ ♀ ♀ 26°C sg: 1.022 22 cm 200L



Zanclus cornutus 409
3 6-10 hr 1 C 1 26°C sg: 1.022 22 cm 200L



Lo vulpinus 410
6-7 ½ hr + 0 ♀ 26°C sg: 1.022 19 cm 200L



Lo vulpinus 410
6-7 ½ hr + 0 ♀ 26°C sg: 1.022 19 cm 200L



Lo vulpinus (juv.) 410
6-7 ½ hr + 0 ♀ 26°C sg: 1.022 19 cm 200L



Lo uspi 410
6-9 ½ hr + 0 ♀ 26°C sg: 1.022 18 cm 200L



Siganus argenteus 410
6-12 ½ hr + 0 ♀ 26°C sg: 1.022 35 cm 400L



Siganus canaliculatus 410
7, 8 ½ hr + 0 ♀ 26°C sg: 1.022 30 cm 300L

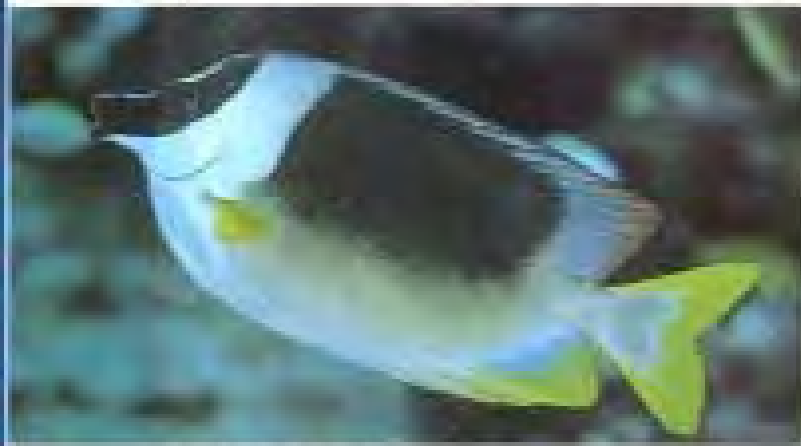


Siganus fuscescens 410
7, 8 ½ hr + 0 ♀ 26°C sg: 1.022 30 cm 300L



Siganus canaliculatus 410
7, 8 ½ hr + 0 ♀ 26°C sg: 1.022 30 cm 300L

590

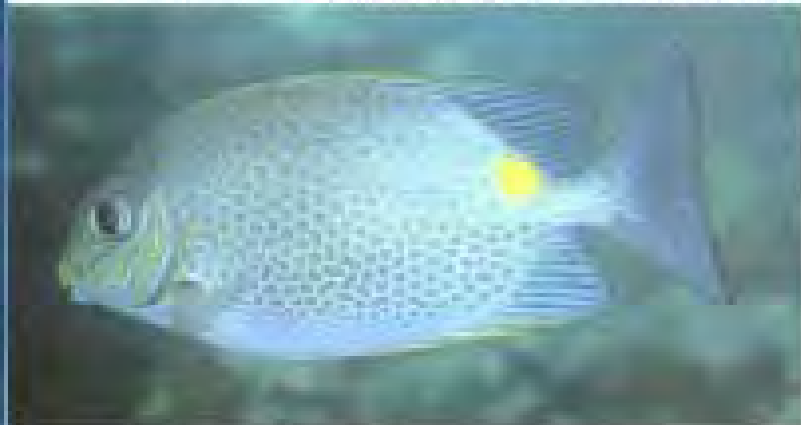


Lo magnificus 410
8 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 18 cm 200L

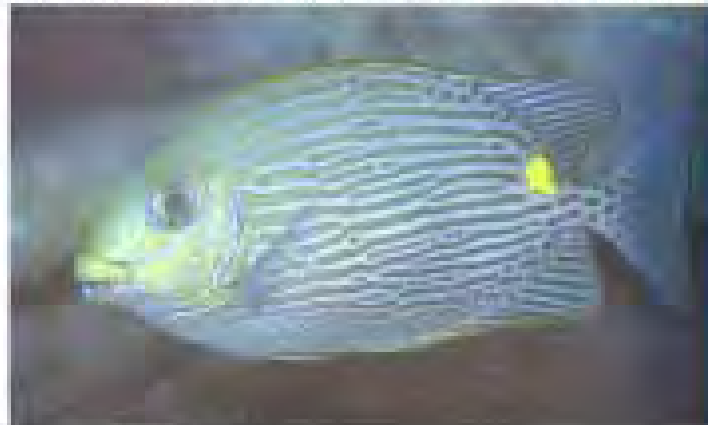
#312



Siganus canaliculatus 410
7, 9 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 30 cm 300L



Siganus guttatus 410
7-8 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 95 cm 400L



Siganus lineatus 410
7-9 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 40 cm 400L



Siganus coralinus 410
7-8 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 25 cm 300L



Siganus javus 410
7, 9 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 45 cm 500L



Siganus puelloides 410
8 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 30 cm 300L



Siganus chrysopilos 410
8 ♀ ~♂ + 0 ♀ ~♂ 25°C sg: 1.022 40 cm 400L



Siganus lineatus 410
7-9月 浅海 40cm 26°C sg: 1.022 40 cm 40CL



Promethichthys prometheus 412
Circumtrop. ~ C* ≡ 26°C sg: 1.022 60 cm 600L



Ruvettus pretiosus 412
Circumtrop. ~ C* ≡ 26°C sg: 1.022 300 cm 3000L



Gempylus serpens 412
Circumtrop. ~ C* ≡ 26°C sg: 1.022 100 cm



Trachurus lepturus 413
Circumtrop. ~ C* ≡ 26°C sg: 1.022 120 cm 1200L



Scomberomorus sierra 414
3 ~ C* ≡ 26°C sg: 1.022 81 cm 800L



Scomberomorus maculatus 414
1-2 ~ C* ≡ 26°C sg: 1.022 70 cm 800L



Scomber australasicus 414
8, 12 ~ C* ≡ 26°C sg: 1.022 40 cm 400L



Thunnus thynnus 414
Circumglobal ~ C* ≡ 300 cm 3000L



Auxis thazard 414



Euthynnus affinis 414



Katsuwonus pelamis 414



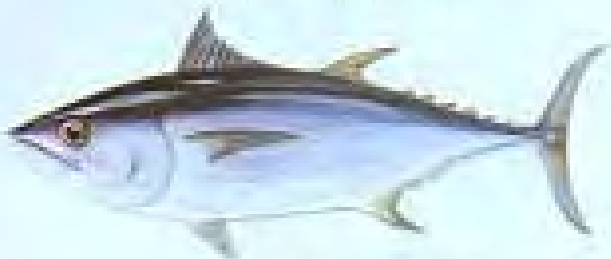
Cybiosarda elegans 414



Thunnus alalunga 414



Thunnus albacares 414



Thunnus maccoyii 414



Thunnus obesus 414



Thunnus tonggol 414



Acanthocybium solandri 414



Gymnosarda unicolor 414



Grammatocygnus bicarinatus 414



Rastrelliger kanagurta 414



Sarda orientalis 414



Scomber japonicus 414



Scomberomorus commerson 414



Scomberomorus lineolatus 414



Scomberomorus guttatus 414



Scomberomorus queenslandicus 414



Scomberomorus semifasciatus 414



Scomberomorus niphonius 414



Xiphias gladius 415



Istiophorus platypterus 417



Tetrapturus audax 417



Makaira mazura 417



Makaira indica 417



Coryphaena hippurus 308



Tetrapturus angustirostris 417

#317A

*Makaira* sp. 4177-10 yr. ♂ ♀: \square \square 26°CX sg: 1.022 4500 cm 75000L*Nomeus gronovi* 420Circumtrop. ~yr ♂ ♀: \square \square 26°C sg: 1.022 39 cm 400L

#608



Psenes pellucidus 420
Circumtrop. ♀ ♂ 大 26°C sg: 1.022 80 cm 1000L

#518



Nemoes granowii 420
Circumtrop. ♀ ♂ 大 26°C sg: 1.022 38 cm 400L



Hyperoglyphe japonica 419
7.9 ♀ ♂ 大 26°C sg: 1.022 80 cm 1000L



Ariomma indica 420
7.9 ♀ ♂ 大 26°C sg: 1.022 25 cm 500L



Psenopsis anomala 418
7.9 ♀ ♂ 大 26°C sg: 1.022 30 cm 500L



Pampus argenteus 423
7.9 ♀ ♂ 大 26°C sg: 1.022 60 cm 800L



Pseudorhombus cinnamomeus 434
 7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Pleurothys striatus 435
 4-5 ♀ ♂ ♀ ♂ 24°C sg: 1.023 91 cm 1000L



Pleuronichthys cornutus 435
 7 ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



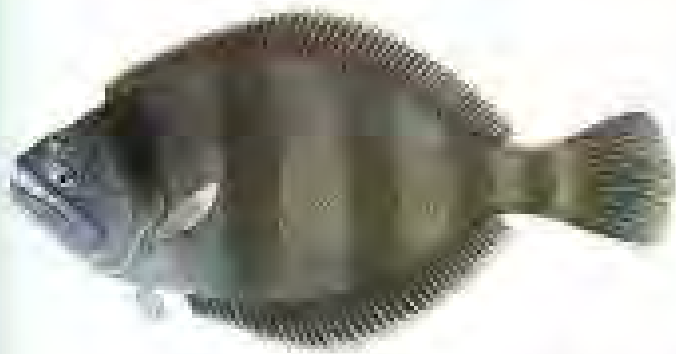
Christiomenes pinetorum herzensteini 435
5, 7 nur ♀ ♂ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Eopsetta grigoriewi 435
5, 7 nur ♀ ♀ ♂ ♂ 26°C sg: 1.022 40 cm 400L



Glydoderma asperimum 435
4, 5, 7 nur ♀ ♂ ♂ ♂ 26°C sg: 1.022 55 cm 600L



Psettodes erumei 432
7-10 ㄴ ㉿ ㉿ ㉿ ㉿ 25°C sg: 1.022 60 cm 500L



Bothus leopardus 434
3 ㄴ ㉿ ㉿ ㉿ ㉿ 26°C sg: 1.022 20 cm 200L



Bothus pantherinus 434
6-10 ㄴ ㉿ ㉿ ㉿ ㉿ 26°C sg: 1.022 30 cm 300L



Bothus pantherinus 434
6-10 ㄴ ㉿ ㉿ ㉿ ㉿ 26°C sg: 1.022 30 cm 300L



Bothus ocellatus 434
1-2 ㄴ ㉿ ㉿ ㉿ ㉿ 26°C sg: 1.022 15 cm 150L



Bothus lunatus 434
2 ㄴ ㉿ ㉿ ㉿ ㉿ 26°C sg: 1.022 45 cm 500L



Citharichthys gilberti 434
3 ㄴ ㉿ ㉿ ㉿ ㉿ 25°C sg: 1.022 20 cm 200L



Citharichthys gilberti 434
4 ㄴ ㉿ ㉿ ㉿ ㉿ 23°C sg: 1.024 17 cm 200L

610



Paralichthys olivaceus 434
7~8 ● ▼ □ □ 26°C sg: 1.022 80 cm 1000L

620



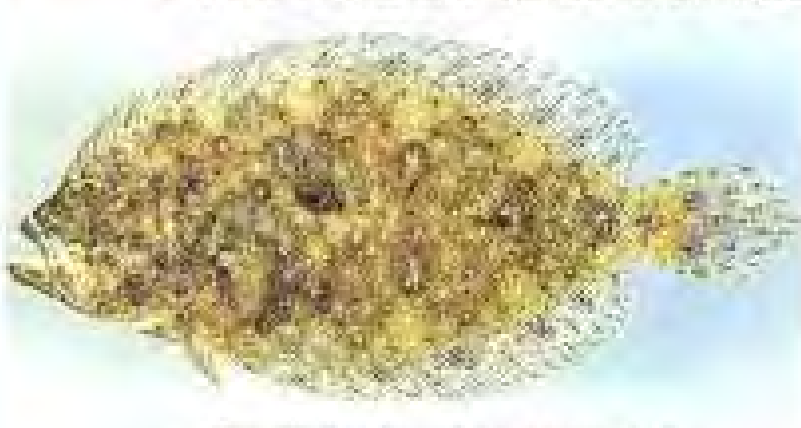
Paralichthys woolmani 434
3~4 ● ▼ □ □ 26°C sg: 1.022 80 cm 1000L



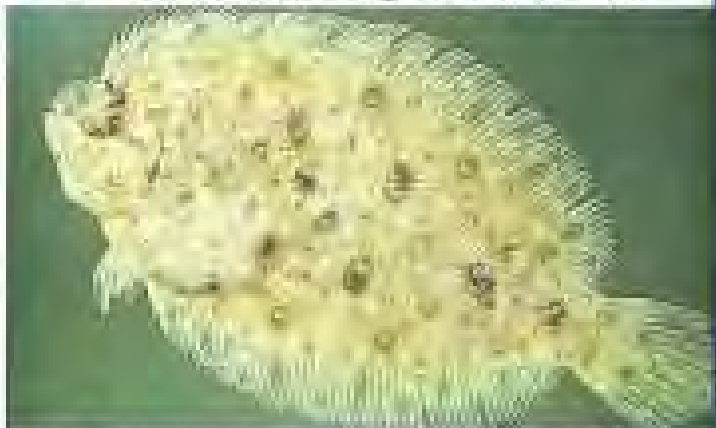
Paralichthys dentatus 434
1~2 ● ▼ □ □ 23°C sg: 1.024 94 cm 1000L



Xystreurys notopsis 434
3~4 ● ▼ □ □ 26°C sg: 1.022 53 cm 500L



Pseudorhombus cinnamomeus 434
7~8 ● ▼ □ □ 26°C sg: 1.022 30 cm 300L



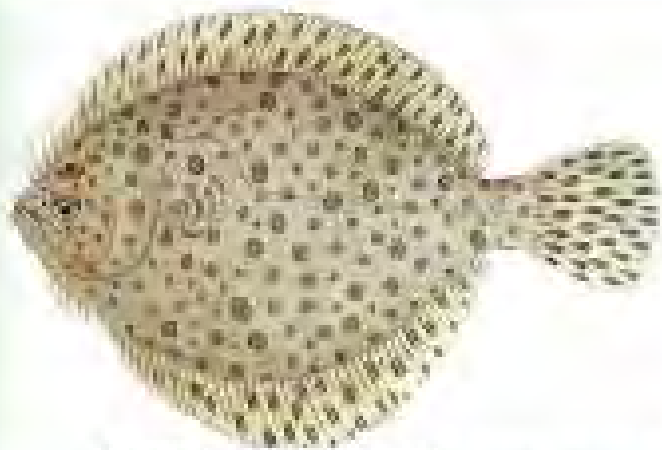
Pseudorhombus janynsii 434
7~8 ● ▼ □ □ 26°C sg: 1.022 27 cm 300L



Pseudorhombus sp. 434
7~8 ● ▼ □ □ 26°C sg: 1.022 30 cm 300L



Zeugopterus punctatus 434
14~15 ● ▼ □ □ 20°C sg: 1.024 25 cm 300L



Scophthalmus aquosus 434
1 ♀ ~ ♀ ♂ ♀ □ □ 23°C sg: 1.023 45 cm 500L



Scophthalmus aquosus 434
1 ♀ ~ ♀ ♂ ♀ □ □ 23°C sg: 1.023 45 cm 500L



Ancylosetta difecta 434
2 ♀ ~ ♀ ♀ □ □ 26°C sg: 1.022 25 cm 300L



Scophthalmus rhombus 434
14 ♀ ~ ♀ ♂ ♀ □ □ 18°C sg: 1.024 61 cm 600L



Pseudopleuronectes americanus 435
1 ♀ ~ ♀ ♂ ♀ □ □ 10°C sg: 1.024 64 cm 600L



Hypocsetta guttulata 435
3 ♀ ~ ♀ ♀ □ □ 26°C sg: 1.022 46 cm 500L



Lepidopsetta bilineata 435
3 ♀ ~ ♀ ♂ ♀ □ □ 26°C sg: 1.022 60 cm 600L



Eggssetta grigorjewi 435
5, 7 ♀ ~ ♀ ♀ □ □ 26°C sg: 1.022 40 cm 400L

#12



Pleurichthys stewarti 435
4-5 ~ ♀ ♂ ♀ ♀ 24°C sg: 1.023 91 cm 1000L

#522



Pleuronectes praesax 435
14 ~ ♀ ♀ ♀ ♀ 25°C sg: 1.022 71 cm 800L



Platichthys flesus 435
14 ~ ♀ ♂ ♀ ♀ 16°C sg: 1.024 51 cm 500L



Parlichthys melanostictus 435
4 ~ ♀ ♀ ♀ ♀ 22°C sg: 1.024 53 cm 600L



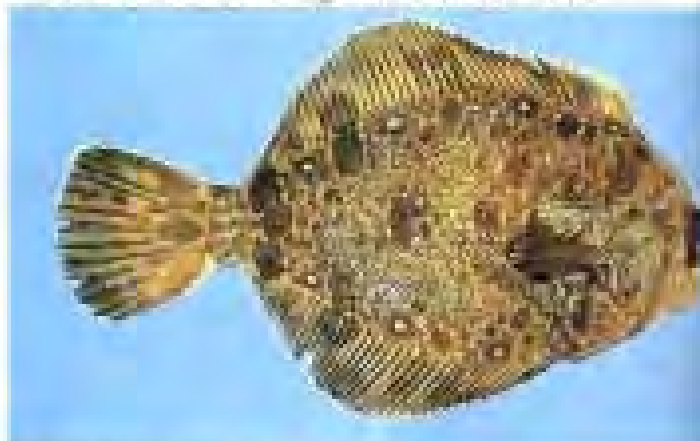
Pleuronichthys cornutus 435
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Pleuronichthys coenosus 435
4 ~ ♀ ♀ ♀ ♀ 22°C sg: 1.024 36 cm 400L



Pleuronichthys ocellatus 435
3 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Pleuronichthys verticalis 435
3 ~ ♀ ♀ ♀ ♀ 28°C sg: 1.022 37 cm 400L



Hippoglossoides robustus 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Samaris cristatus 435
7-10 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 17 cm 200L



Hippoglossoides dubius 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 45 cm 500L



Hippoglossus stenolepis 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 250 cm 3000L



Kareius bicoloratus 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Pleuronectes pallasii 435
7 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Limanda schrenkii 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



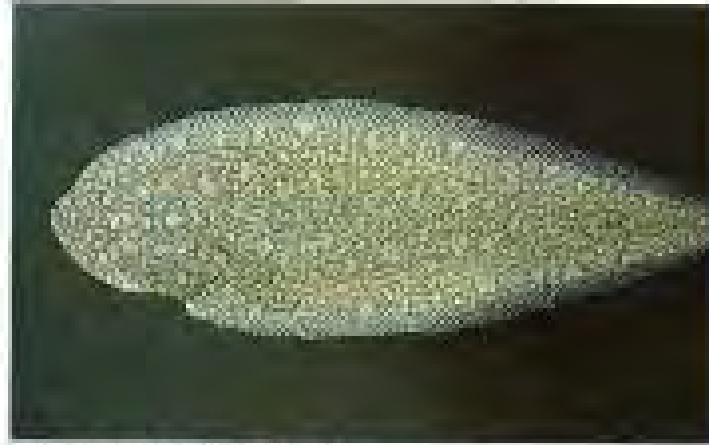
Varaspar variegatus 435
5 ~ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L

614

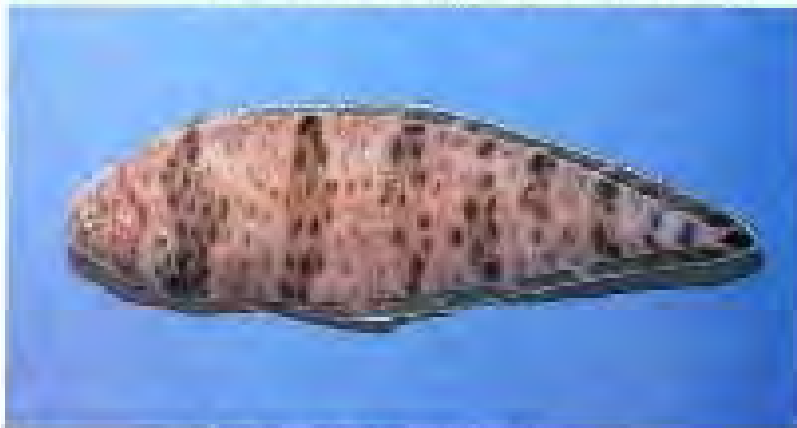


Paraplagusia japonica 436
7 ~ ♀ 26°C sg: 1.022 35 cm 400L

#524



Paraplagusia bilineata 436
7-9 ~ ♀ 26°C sg: 1.022 30 cm 300L



Symphurus elongatus 436
3 ~ ♀ 26°C sg: 1.022 22.5 cm 300L



Symphurus fasciolaris 436
3 ~ ♀ 26°C sg: 1.022 25 cm 300L



Symphurus arawak 436
2 ~ ♀ 26°C sg: 1.022 51 cm 300L



Symphurus arawak 436
2 ~ ♀ 26°C sg: 1.022 51 cm 500L



Cynoglossus jayneri 436
5, 7 ~ ♀ 26°C sg: 1.022 35 cm 400L



Heteromycteris japonicus 437
7 ~ ♀ 26°C sg: 1.022 13.5 cm 150L



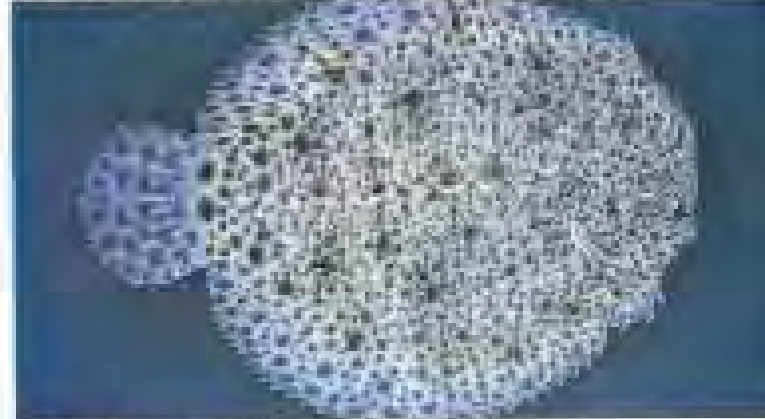
Zebrias zebra 437
7-8 ~ ● ▼ □ □ 26°C sg: 1.022 19 cm 200L



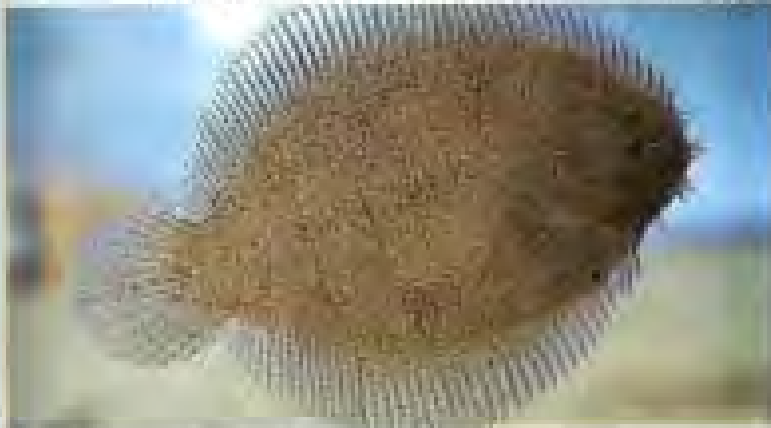
Soleichthys heterorhinos 437
6-9 ~ ● ▼ □ □ 26°C sg: 1.022 11 cm 100L



Pardachirus paroninus 437
6-9 ~ ● ▼ □ □ 26°C sg: 1.022 25 cm 300L



Achinus lineatus 437
2 ~ ● ▼ □ □ 26°C sg: 1.022 10 cm 100L



Trinectes maculatus 437
2 ~ ● ▼ □ □ 26°C sg: 1.022 20 cm 200L



Trinectes maculatus 437
2 ~ ● ▼ □ □ 26°C sg: 1.022 20 cm 200L



Trinectes maculatus? 437
2 ~ ● ▼ □ □ 26°C sg: 1.022 20 cm 200L



Trinectes maculatus? 437
2 ~ ● ▼ □ □ 26°C sg: 1.022 20 cm 200L



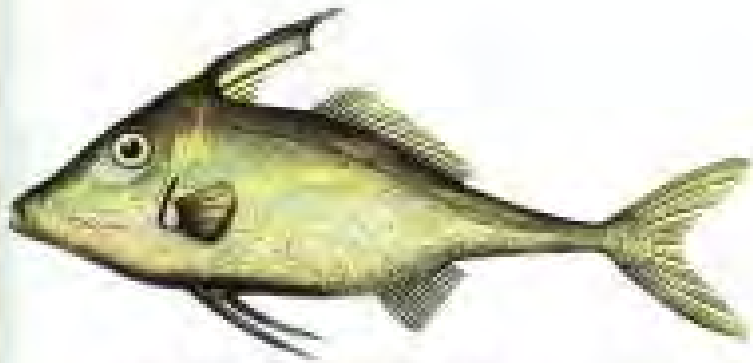
Pseudoballistes fuscus 440
7-10" x 4" x 4" 25°C sg: 1.022 55 cm 500L



Cantuigaster amboinensis 443
6-9 cm, 1.5-2.0 g, 26°C, sp. 1.022, 15 cm, 100L

Diodon hystrix 444
Circumtrop. 9-12 cm, 1.5-2.0 g, 26°C, sp. 1.022, 60 cm, 600L

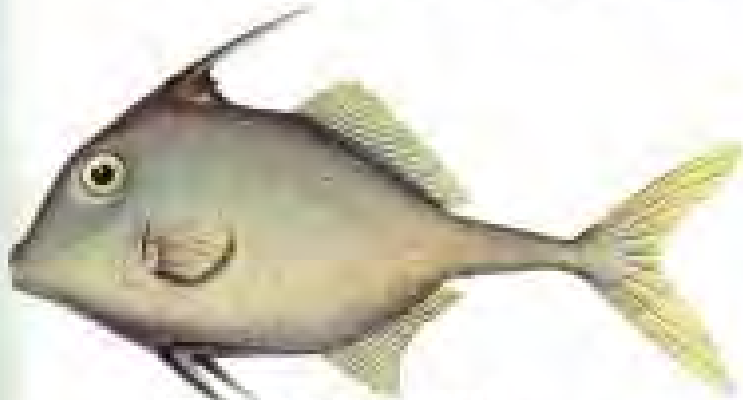




Tripodichthys strigilifer 439
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 20 cm 200L



Tripodichthys oxycephalus 439
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 15 cm 150L



Triacanthus pleurofil 439
7 ~ ♀ ♂ ♀ ♂ 28°C sg: 1.022 14 cm 150L



Tripodichthys blochii 439
7, 9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 15 cm 150L



Tripodichthys angustifrons 439
7, 12 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.024 18 cm 200L



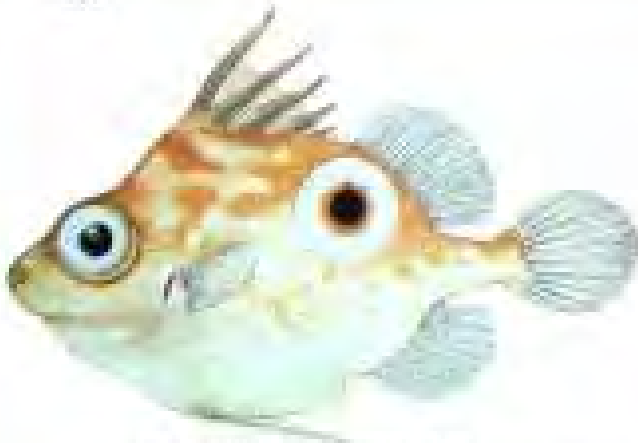
Triacanthus biaculeatus 439
7-9 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.024 24 cm 250L



Tripodichthys sp. 438
97 ~ ♀ ♂ ♀ ♂ 24°C sg: 1.024 15 cm 150L



Trisiphichthys weberi? 439
7 ~ ♀ ♂ ♀ ♂ 26°C sg: 1.022 18 cm 200L



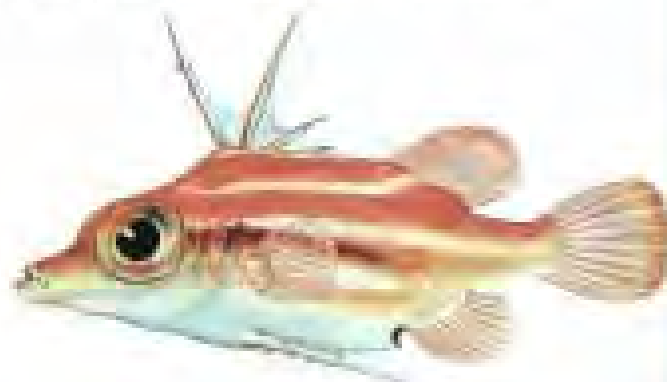
Johnsonina enjolima 438
 2~♀♂ ♀♂ 26°C sg: 1.022 13 cm 150L



Halimochirus alcocki 439
 7~♀♂ ♀♂ 26°C sg: 1.022 17 cm 200L



Triacanthodes anomalus 438
 7~♀♂ ♀♂ 26°C sg: 1.022 10 cm 100L



Paratriacanthodes retrospinis 438
 7, 9~♀♂ ♀♂ 26°C sg: 1.022 9 cm 100L



Tripodichthys blochii 439
 7, 9~♀♂ ♀♂ 26°C sg: 1.022 15 cm 150L



Tripodichthys strigifer 438
 7, 9~♀♂ ♀♂ 26°C sg: 1.022 20 cm 200L



Tripodichthys blochii 439
 7, 9~♀♂ ♀♂ 26°C sg: 1.022 15 cm 150L



Tripodichthys strigifer 439
 7, 9~♀♂ ♀♂ 26°C sg: 1.022 20 cm 200L



Baetisoides conspicillum, 440
7.6 3/4 x 5.1 x 3.1 cm 26°C sg: 1.022 50 cm 500L



Aballates stellatus 440
7-10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 60 cm 600L



Balistapus undulatus 440
7-10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Balistoides conspicillum 440
7-9 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 50 cm 500L



Melichthys vidua 440
6-10 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Melichthys indicus 440
9 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Melichthys indicus 440
9 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 25 cm 300L



Xenichthys acromarginatus 440
6-9 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Xenichthys acromarginatus 440
6-9 ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L

624



Xanthichthys ringens 440
2 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 25 cm 300L

#531



Xanthichthys ringens 440
2 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 25 cm 300L



Sufflamen 440
7, 8 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 25 cm 300L



Xanthichthys mento 440
3, 6-7 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 30 cm 300L



Sufflamen albicaudatus 440
10 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 30 cm 300L



Sufflamen chrysopterus (juv.) 440
7-9 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 30 cm 300L



Sufflamen bursa 440
7-9 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 25 cm 300L



Sufflamen traenatus 440
7-9 ♀ ♀ ~ ~ ~ ♂ 大 画 画 26°C sg: 1.022 40 cm 400L



Canthidermis maculatus 440
 Circumtemp. 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 50 cm 500L



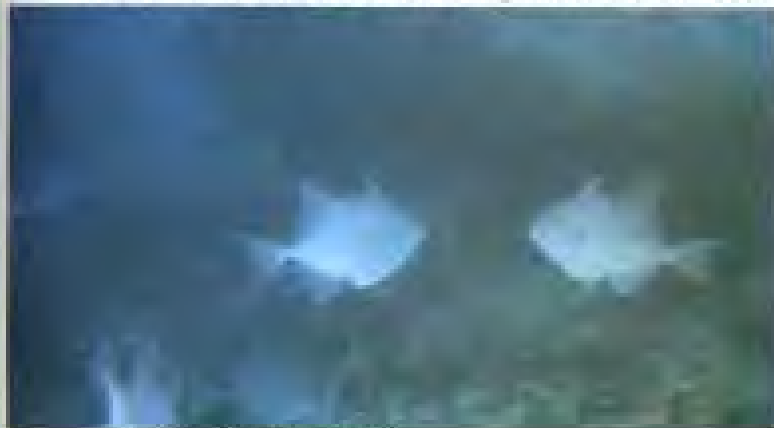
Canthidermis maculatus (juv.) 440
 Circumtemp. 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 50 cm 500L



Odax niger 440
 7-10 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 50 cm 500L



Canthidermis sufflamen 440
 2 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 25 cm 300L



Balistes polylepis 440
 3 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 75 cm 800L



Balistes capriscus 440
 2, 13 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 30 cm 300L



Balistes forcipinus 440
 13 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 44 cm 500L



Balistes retula 440
 2 9 1/2 ~ 10 1/2 °C 26°C sg: 1.022 60 cm 600L

#526



Pseudoballistes fuscus 440
7-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 500L

#533



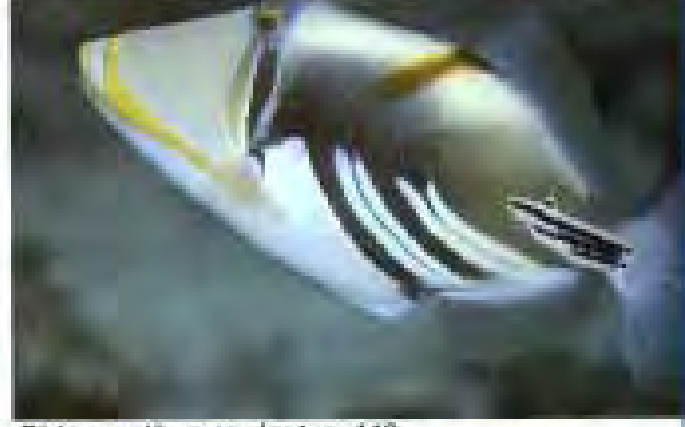
Pseudoballistes fuscus (juv.) 440
7-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 500L



Pseudoballistes fuscus 440
7-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 55 cm 500L



Ballistoides viridescens 440
7-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 70 cm 700L



Rhinecanthus aculeatus 440
7-9 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Rhinecanthus assasi 440
7-10 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L



Rhinecanthus rectangularis 440
7-9 ♀ ♂ ♀ ♂ ♀ ♂ ♀ ♂ 26°C sg: 1.022 30 cm 300L

#534

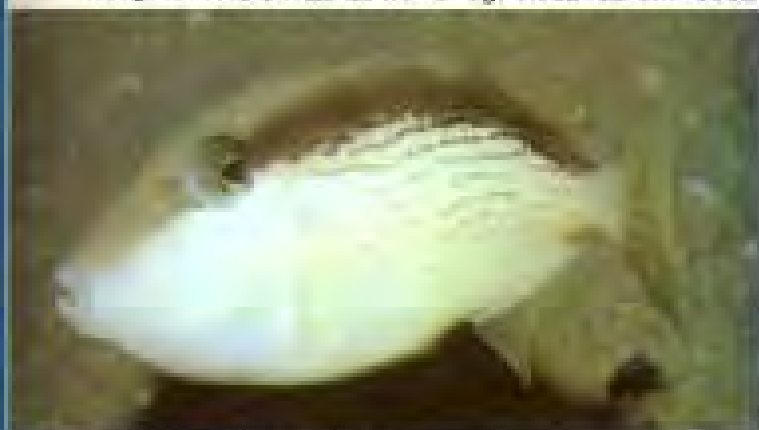
627



Sufflamen bursa 440
7-9 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 25 cm 300L



Sufflamen chrysopterus 440
7-9 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 30 cm 300L



Sufflamen fraenatus 440
7-9 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 40 cm 400L



Odax niger 440
7-10 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 50 cm 500L



Amanses scopas 440
7-10 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 20 cm 200L



Cantherhines pardalis 440
7-10 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 27 cm 300L



Cantherhines dumerilii 440
7-9 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 35 cm 400L



Cantherhines dumerilii 440
7-9 ♀ 雄 ♀ 0 火 西 26°C sg: 1.022 35 cm 400L



Rhinecanthus lunola 440
6-8 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 19.4 cm 200L



Rhinecanthus verrucosus 440
7 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 30 cm 300L



Monacanthus tuckeri 440
2 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 9 cm 100L



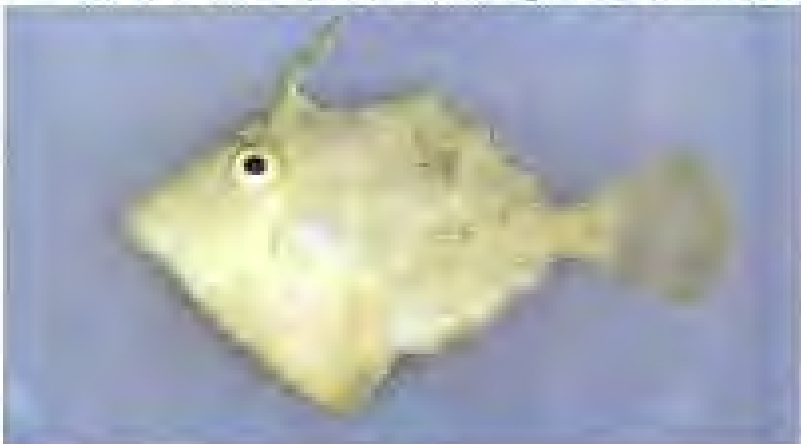
Monacanthus tuckeri 440
2 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 9 cm 100L



Monacanthus ciliatus 440
2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 20 cm 200L



Monacanthus ciliatus 440
2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 20 cm 200L



Monacanthus hispidus 440
2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 25 cm 300L



Monacanthus hispidus 440
2, 13 ♀ ~ ~ ~ ♂ ~ ~ ~ 26°C sg: 1.022 25 cm 300L



Monacanthus chinensis 440
7-8 ♀ ~ + ♂ ♀ 26°C sg: 1.022 25 cm 300L



Monacanthus chinensis 440
7-8 ♀ ~ + ♂ ♀ 26°C sg: 1.022 25 cm 300L



Monacanthus tokauda 440
7-8 ♀ ~ + ♂ ♀ 26°C sg: 1.022 25 cm 250L



Cantherhines pallus 440
1-2 ♀ ~ + ♂ ♀ 24°C sg: 1.023 20 cm 200L



Cantherhines sandwichensis 440
6 ♀ ~ + ♂ ♀ 26°C sg: 1.022 13 cm 150L



Monacanthus chinensis 440
7-8 ♀ ~ + ♂ ♀ 26°C sg: 1.022 25 cm 300L



Cantherhines macroceros 440
1-2 ♀ ~ + ♂ ♀ 24°C sg: 1.023 46 cm 500L



Cantherhines macroceros 440
1-2 ♀ ~ + ♂ ♀ 24°C sg: 1.023 46 cm 500L

#330



Meuschenia flavolineata 440
12 ♀ ~ + ♂ ♀ 23°C sg: 1.024 20 cm 200L

#337



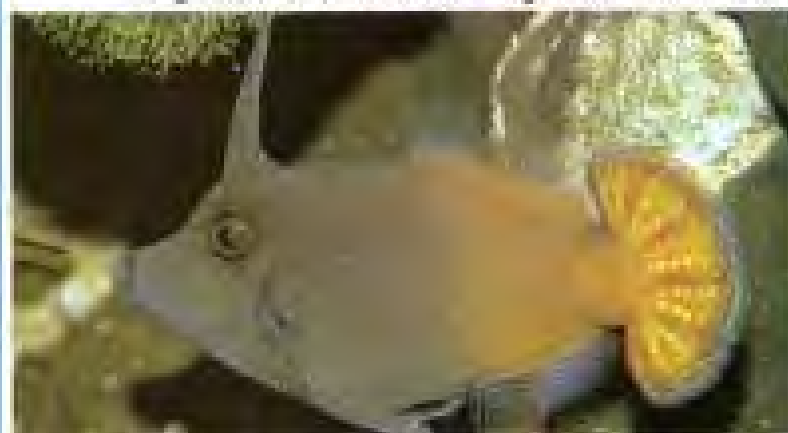
Meuschenia galli 440
12 ♀ ~ + ♂ ♀ 24°C sg: 1.022 23 cm 300L



Meuschenia hippocrepis 440
12 ♀ ~ + ♂ ♀ 24°C sg: 1.023 50 cm 500L



Dymonacanthus longirostris 440
6-10 ~ ♂ ♀ 25°C sg: 1.022 7 cm 80L



Paragor melanocephalus 440
7-10 ♀ ~ + ♂ ♀ 26°C sg: 1.022 16 cm 200L



Scopelogadus granulosus 440
8, 12 ♀ ~ + ♂ ♀ 24°C sg: 1.022 25 cm 300L



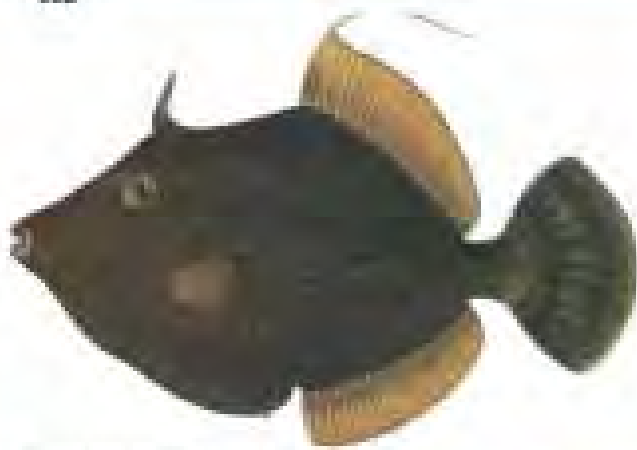
Chaetodermis penicilligerus 440
5, 7-9 ♀ ~ + ♂ ♀ 26°C sg: 1.022 18 cm 200L



Afurcatus scriptus 440
Croumtrop, ♀ ~ + ♂ ♀ 26°C sg: 1.022 100 cm 1000L



Oxymonacanthus longirostris 440
7-9 ~ 0 ~ 28°C eg: 1.022 10 cm 100L



Stephanolepis cirrifer 440
 5, 7-9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Cantherhines howensis 440
 8 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Cantherhines versoundus 440
 6 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 12.5 cm 150L



Cantherhines frontocinctus 440
 7-9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 14 cm 150L



? *Paramonacanthus japonicus* 440
 5, 7 ♀ ♀ + ♂ ♀ ♀ 25°C sg: 1.022 16 cm 200L



Meuschenia flavolineata 440
 12 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 20 cm 200L



Meuschenia hippocrepis 440
 12 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 50 cm 500L



Meuschenia varuata 440
 12 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 18 cm 200L



Pervagor melanocephalus 440
7-9 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 16 cm 200L



Pervagor melanocephalus 440
7-9 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 16 cm 200L



Pervagor aspicaudus 440
6 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 16 cm 150L



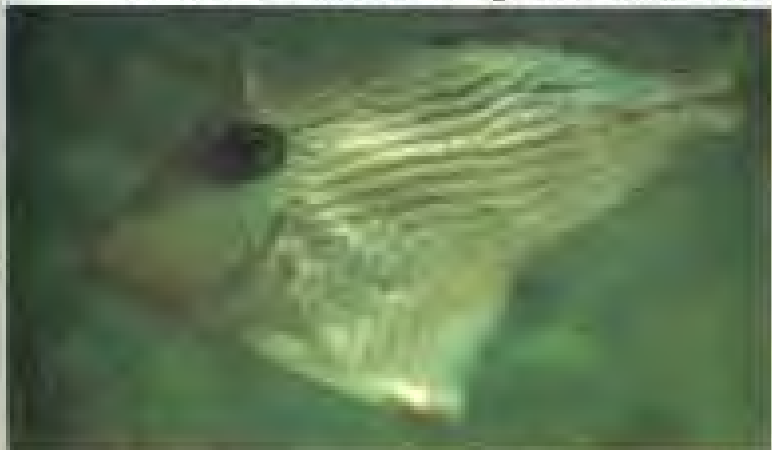
Pervagor spiliosoma 440
6 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 13 cm 150L



Hudariu arcodes 440
5, 7 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 10 cm 100L



Acanthichthys tomentosus 440
6-7 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 9 cm 100L

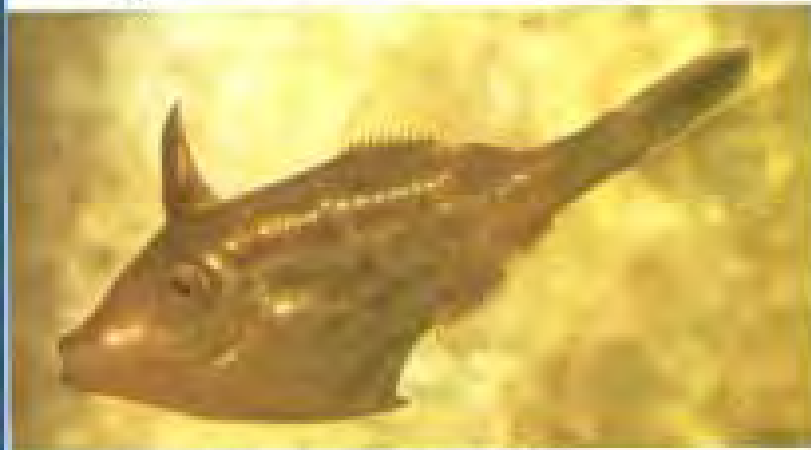


Pseudomonacanthus garretti 440
6 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 9.4 cm 100L



Hudariu minutus 440 ♀
8 ♀ ~♂ + ♀ ♀ 26°C sg: 1.022 5 cm 50L

#34



Paramonacanthus oblongus 440
5, 7, 9 ♀ ~♂ + ♀ ♀ ♀ 26°C sg: 1.022 16 cm 200L

#541



Pancipelta vittiger 440
12 ♀ ~♂ + ♀ ♀ ♀ 24°C sg: 1.023 10 cm 100L



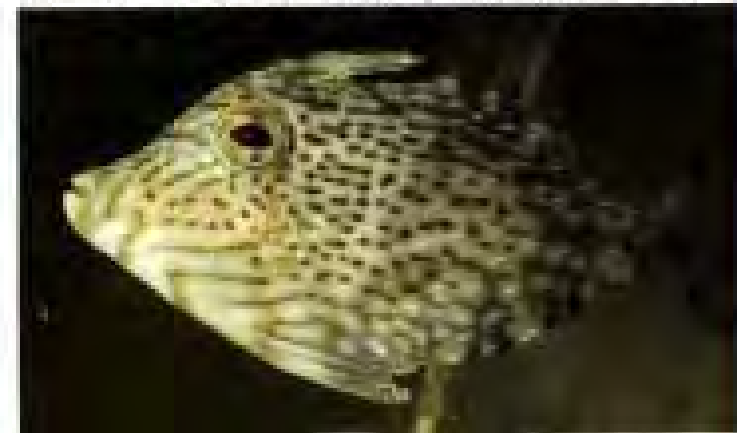
Paramonacanthus barnardi 440
9 ♀ ~♂ + ♀ ♀ ♀ 26°C sg: 1.022 9 cm 100L



? *Paramonacanthus* sp. 440
7-8 ♀ ~♂ + ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Chaetodermis penicilligerus 440
5, 7-8 ♀ ~♂ + ♀ ♀ ♀ 26°C sg: 1.022 25 cm 250L



Scobinichthys granulatus 440
8, 12 ♀ ~♂ + ♀ ♀ ♀ 24°C sg: 1.022 25 cm 300L



Eubalichthys mosaicus 440
12 ♀ ~♂ + ♀ ♀ ♀ 24°C sg: 1.023 30 cm 300L



Brachaluteres jacksonianus 440
12 ♀ ~♂ + ♀ ♀ ♀ 24°C sg: 1.022 10 cm 100L



Aluterus schoepfii 440
1-2 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 60 cm 600L



Thamnaconus modestus 440
5, 7-9 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.023 30 cm 900L



Aluterus monoceros 440
Circumtrop. ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 75 cm 600L



Aluterus monoceros 440
Circumtrop. ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 75 cm 600L



?*Aluterus* sp. 440
8 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 40 cm 400L



Pseudaluteres nasicornis 440
7-9 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 18 cm 200L



Acanthaluteres spilomelanura 440
12 ♀ ♀ + ♂ ♀ ♀ 24°C sg: 1.022 8 cm 80L



Amanses scopas 440
7-10 ♀ ♀ + ♂ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Anoplocapros fenticularis 441
12 ♀ ~ 0 ♀ ~ 24°C sg: 1.023 15 cm 150L



Araucana aurita 441
12 ♀ ~ 0 ♀ ~ 24°C sg: 1.023 18 cm 200L

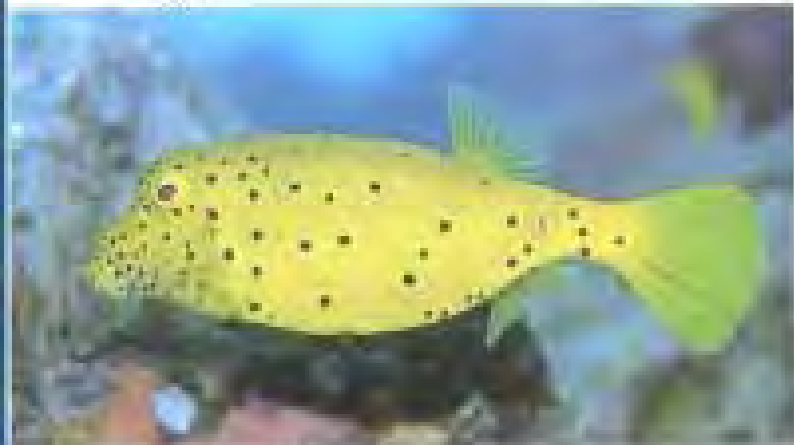


Lactoria cornuta 441
8, 12 ♀ ~ 0 ♀ ~ 25°C sg: 1.023 50 cm 500L



Anoplocapros fenticularis 441
12 ♀ ~ 0 ♀ ~ 24°C sg: 1.023 15 cm 150L

638



Ostracion cubicus 441
7-10 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 45 cm 500L

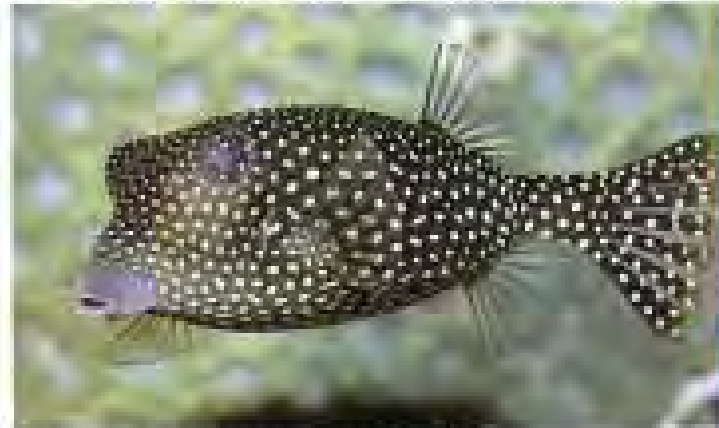
#545



Ostracion cubicus 441
7-10 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 45 cm 500L



Ostracion meleagris meleagris 441 ♂
7-9 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 14 cm 150L



Ostracion meleagris meleagris 441 ♀
7-9 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 15 cm 150L



Ostracion terechys 441
7, 9 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 15 cm 150L



Tetrasomus gibbosus 441
7-10 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 30 cm 300L



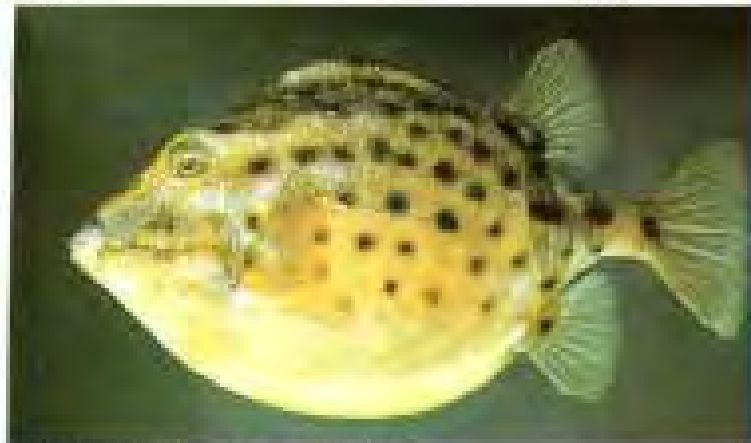
Lactoria fornasini 441
5 ♀ ~♂ ① ♣ ② ③ 23°C sg: 1.024 40 cm 400L



Lactoria diaphana 441
6-9 ♀ ~♂ ① ♣ ② ③ 26°C sg: 1.022 25 cm 300L



Kentrocapros aculeatus 441
6, 7 ♀ ~♂ ◉ ♀ ♂ 26°C sg: 1.022 13 cm 150L



Strophurichthys robustus 441
12 ♀ ~♂ ◉ ♀ ♂ 24°C sg: 1.023 25 cm 300L



Leotroia cornuta 441
8, 12 ♀ ~♂ ◉ ♀ ♂ 25°C sg: 1.023 50 cm 500L



Ostracion immaculatus 441
6-10 ♀ ~♂ ◉ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Ostracion cubicus 441
7-10 ♀ ~♂ ◉ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Ostracion cubicus? 441
7-10 ♀ ~♂ ◉ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Ostracion cubicus 441 (un.)
7-10 ♀ ~♂ ◉ ♀ ♂ 26°C sg: 1.022 45 cm 500L



Ostracion solorense (juv.) 441
7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Ostracion solorense 441 ♂
7 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 15 cm 200L



Ostracion whitleyi 441 ♀
6 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 13 cm 150L



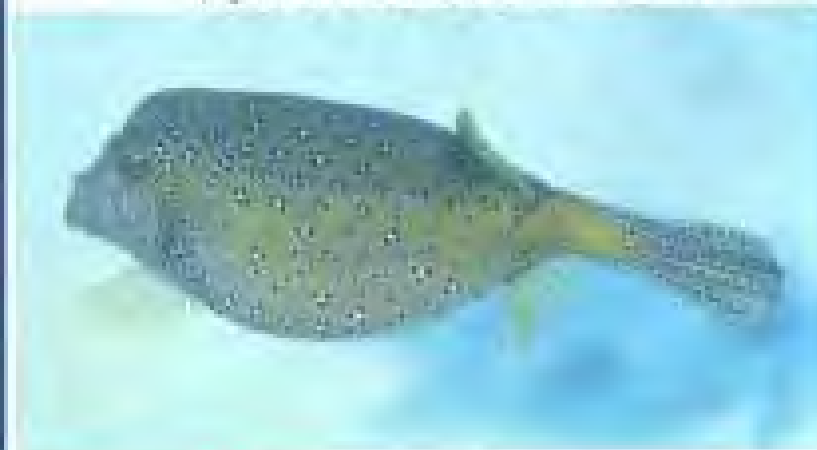
Ostracion whitleyi 441 ♂
6 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Ostracion meleagris camurum 441 ♀
6 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Ostracion meleagris camurum 441 ♂
6 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 14 cm 150L



Ostracion cyanurus 441
9-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Ostracion cyanurus 441
9-10 ♀ ~ ♀ ♂ ♀ ♀ 26°C sg: 1.022 15 cm 150L



Lactophrys quadricornis 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 43 cm 500L



Lactophrys quadricornis 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 43 cm 500L



Lactophrys polygonia 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 48 cm 500L



Lactophrys polygonia 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 48 cm 500L



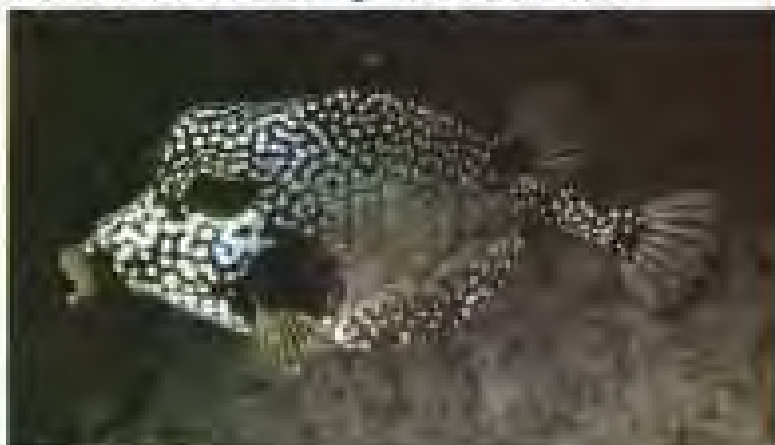
Lactophrys bicaudalis (juv.) 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 43 cm 500L



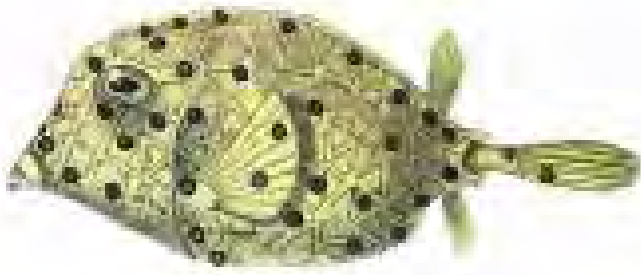
Lactophrys bicaudalis 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 43 cm 500L



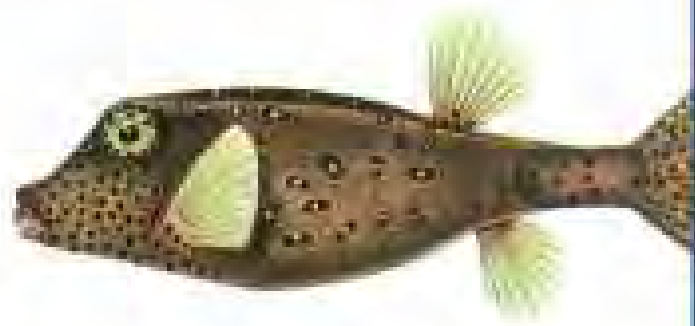
Lactophrys trigonus 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 45 cm 500L



Lactophrys triquetra 441
 2 ♀ ~♂ ◉ ♣ ♣ 26°C sg: 1.022 28 cm 300L



Ostracion cubicus 441



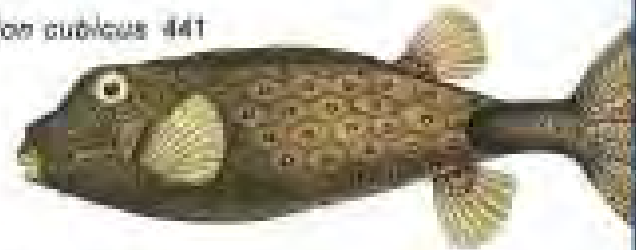
Ostracion cubicus 441



Ostracion cubicus 441



Ostracion cubicus 441



Ostracion cubicus 441



Ostracion meleagris 441



Ostracion meleagris 441



Ostracion cubicus 441



Ostracion solarensis 441



Ostracion solarensis 441



Triodon macropterus 443
5, 7, 9 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 50 cm 500L



Lagocephalus groweri 443
7-10 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 40 cm 400L



Amblyrhynchotes honckenii 443
5, 7, 9 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 30 cm 300L



Amblyrhynchotes sp. 443
7 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 25 cm 300L



Torquigener pleurogramma 443
12 ~ ♀ ♂ ♀ ♂ ≡ 24°C sg: 1.022 15 cm 200L



Amblyrhynchotes hypselogenion 443
6-10 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 18 cm 200L



Oreogophis sp. 443
12 ~ ♀ ♂ ♀ ♂ ≡ 24°C sg: 1.022 15 cm 200L



Oreogophis armilla 443
12 ~ ♀ ♂ ♀ ♂ ≡ 26°C sg: 1.022 14 cm 150L



Anathron hispidus 443

7-10 cm 4 0 26°C sg 1.022 50 cm 500L



Arothron hispidus 443
7-10 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 50 cm 500L



Arothron meleagris 443
3, 6-9 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 15 cm 200L



Arothron nigropunctatus 443
7-9 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 40 cm 400L



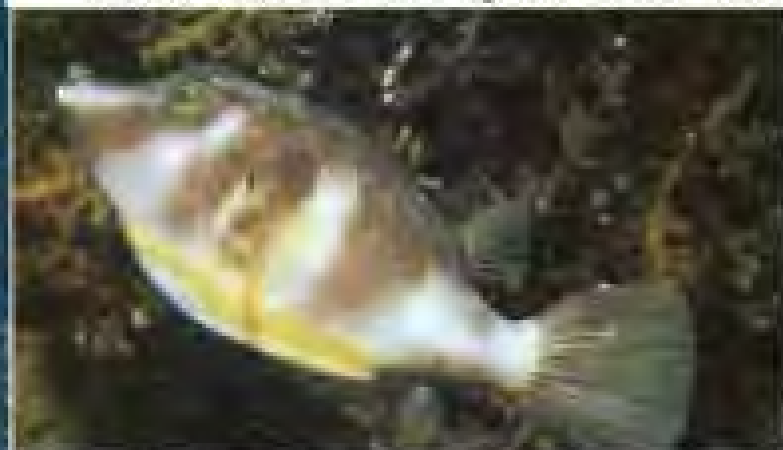
Arothron nigropunctatus 443
7-8 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 40 cm 400L



Arothron stellatus 443
7-10 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 100 cm 1000L



Arothron inordinatus 443
9 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 40 cm 400L



Omegophora cyanopunctata 443
12 ㎝ ㎍ 0 次 飼 育 24°C sg: 1.022 12 cm 150L



Amblyrhynchotes typospergenicus 443
6-10 ㎝ ㎍ 0 次 飼 育 26°C sg: 1.022 18 cm 200L



Arothron diadematus 443
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 30 cm 300L



Arothron mappa 443
7, 9 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 70 cm 700L



Arothron stellatus 443
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 90 cm 1000L



Arothron stellatus 443
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 90 cm 1000L



Arothron stellatus (adult) 443
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 90 cm 1000L



Arothron reticularis 443
7, 9 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 35 cm 400L



Canthigaster leopardus 443
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 5 cm 50L



Canthigaster taylori 443
7, 9 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7 cm 80L



Arothron manilensis 443
6-9 ♀ 体長 26°C sg: 1,022 50 cm 500L



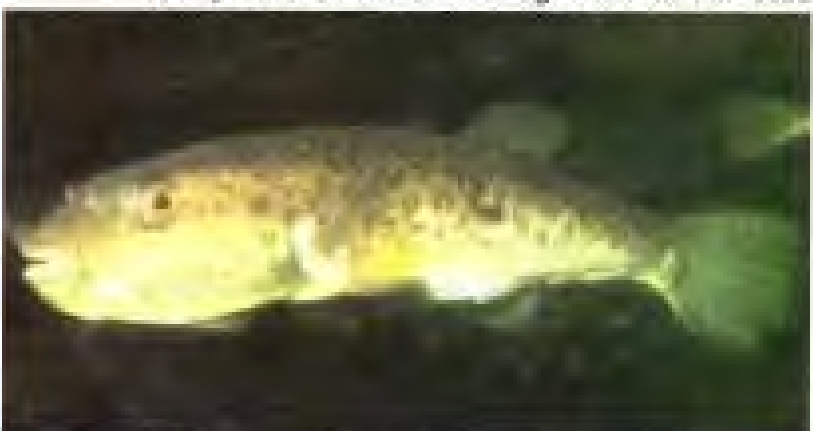
Arothron manilensis 443
6-9 ♀ 体長 26°C sg: 1,022 50 cm 500L



Takifugu rubripes 443
5, 7 ♀ 体長 26°C sg: 1,022 80 cm 800L



Arothron immaculatus 443
7-10 ♀ 体長 26°C sg: 1,022 30 cm 300L



Takifugu pardalis 443
5, 7 ♀ 体長 26°C sg: 1,022 35 cm 400L



Takifugu pardalis 443
5, 7 ♀ 体長 26°C sg: 1,022 35 cm 400L



Takifugu niphobites 443
5 ♀ 体長 24°C sg: 1,023 20 cm 200L



Takifugu stictonotus 443
5, 7 ♀ 体長 26°C sg: 1,022 35 cm 350L



Sphaeroides sp. 443
 3 ♀ ~ 0 ♂ 26°C sg: 1.022 20 cm 200L



Sphaeroides annulatus 443
 3 ~ 0 ♂ 26°C sg: 1.022 10 cm 100L



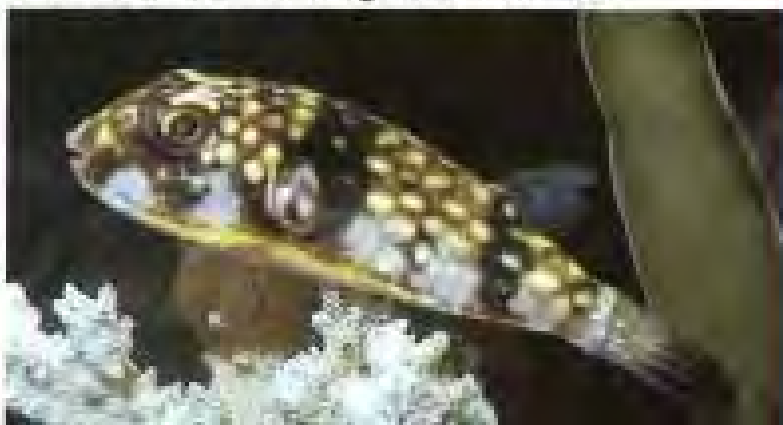
Sphaeroides marmoratus 443
 13 ♀ ~ 0 ♂ 26°C sg: 1.022 30 cm 300L



Sphaeroides erythrotaenia 443
 7 ~ 0 ♂ 26°C sg: 1.022 9 cm 100L



Sphaeroides spangleri 443
 1, 2 ♀ ~ 0 ♂ 24°C sg: 1.022 20 cm 200L



?*Chelonodon faticeps* 443
 8 ~ 0 ♂ 26°C sg: 1.022 20 cm 200L



Sphaeroides hamiltoni 443
 8 ♀ ~ 0 ♂ 26°C sg: 1.018 12.5 cm 150L



?*Takifugu oblongus* 443
 7 ~ 0 ♂ 26°C sg: 1.022 20 cm 200L



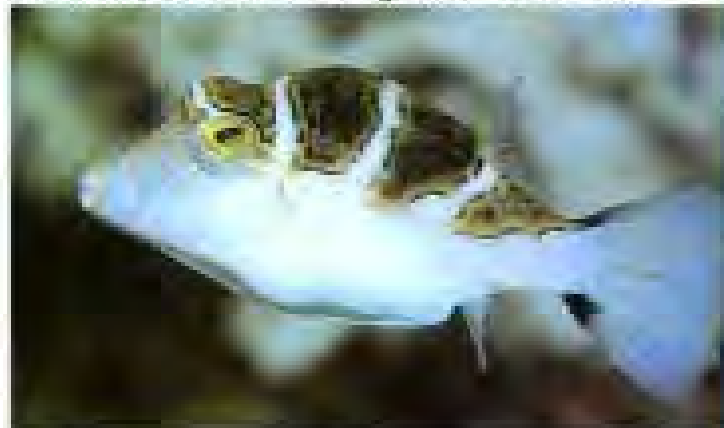
Canthigaster ambionensis 443
6-9 ~ ♀ ~ 0 次 産 26°C sg: 1.022 15 cm 150L



Canthigaster amboinensis 443
6-9 ~ ♀ ~ 0 次 産 26°C sg: 1.022 15 cm 150L



Canthigaster bennetti 443
7, 9 ~ ♀ ~ 0 次 産 26°C sg: 1.022 10 cm 100L



Canthigaster coronata 443
6-10 ~ ♀ ~ 0 次 産 26°C sg: 1.022 13 cm 150L



Canthigaster epilamprus 443
6-8 ~ ♀ ~ 0 次 産 26°C sg: 1.022 7 cm 80L



Canthigaster anthinoptera 443
7, 9 ~ ♀ ~ 0 次 産 26°C sg: 1.022 9 cm 100L



Canthigaster leopardus 443
7 ~ ♀ ~ 0 次 産 26°C sg: 1.022 5 cm 50L



Canthigaster smithae 443
7, 9 ~ ♀ ~ 0 次 産 26°C sg: 1.022 13 cm 150L



Canthigaster punctatissimus 443
3 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ ♀ 26°C sg: 1.022 7.5 cm 100L



Canthigaster jactator 443
5, 6-7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 8 cm 100L



Canthigaster compressus 443
7 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Canthigaster callisteria 443
12 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 24°C sg: 1.024 23 cm 250L



Canthigaster bennetti 443
7, 8 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 10 cm 100L



Canthigaster rostrata 443
2, 13 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 11 cm 100L



Canthigaster coronata 443
6-10 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 13 cm 150L



Canthigaster valentini 443
7-9 ~ ♀ ~ ♂ ♀ ♀ ♀ ♀ 26°C sg: 1.022 20 cm 200L



Canthigaster ocellifasciata 443
7-8 cm 20°C sg: 1.022 10 cm 100L



Canthigaster marquesensis 443
6 cm 20°C sg: 1.022 15 cm 150L



Canthigaster rivulata 443
8-7, 9 cm 20°C sg: 1.022 20 cm 200L



Canthigaster rapaensis 443
6 cm 20°C sg: 1.022 10 cm 100L



Canthigaster margaritacea 443
10 cm 20°C sg: 1.022 12 cm 150L



Canthigaster inframacula 443
6 cm 20°C sg: 1.022 15 cm 150L



Canthigaster capistratus 443
13 cm 20°C sg: 1.022 6 cm 60L



Canthigaster sanctaehelenae 443
13 cm 20°C sg: 1.022 12 cm 150L



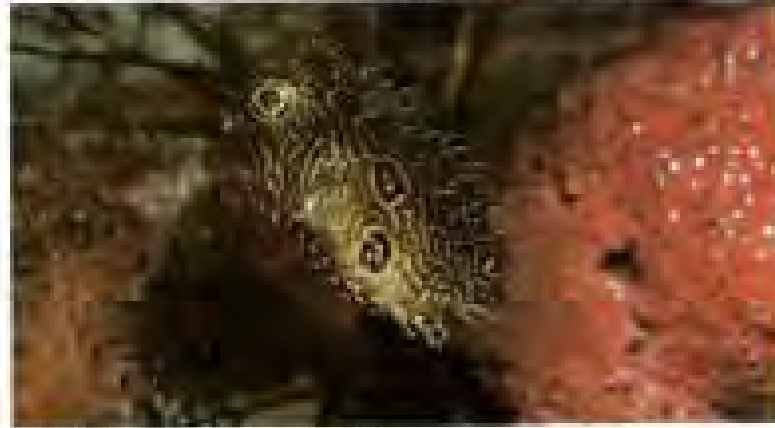
Chilomycterus antillarum 444
2 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 25 cm 300L



Chilomycterus schoepfi 444
2 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 25 cm 300L



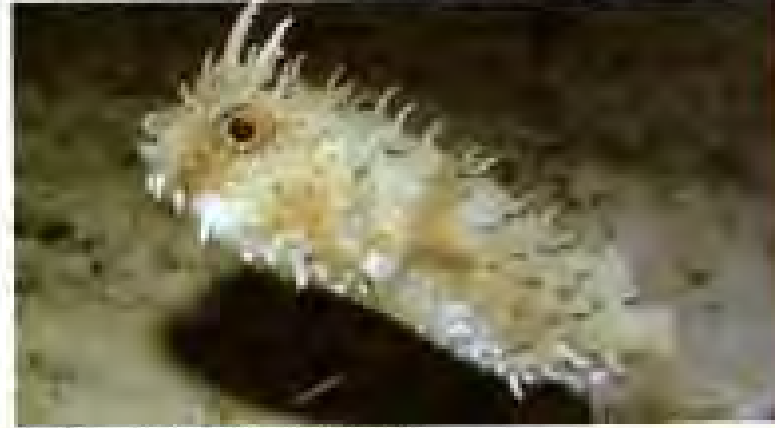
Chilomycterus schoepfi 444
2 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 25 cm 300L



Chilomycterus schoepfi 444
2 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 25 cm 300L



Chilomycterus antennatus 444
2, 13 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 23 cm 250L



Chilomycterus antennatus 444
2, 13 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 23 cm 250L



Chilomycterus affinis 444
1 ♀, 13 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 46 cm 500L



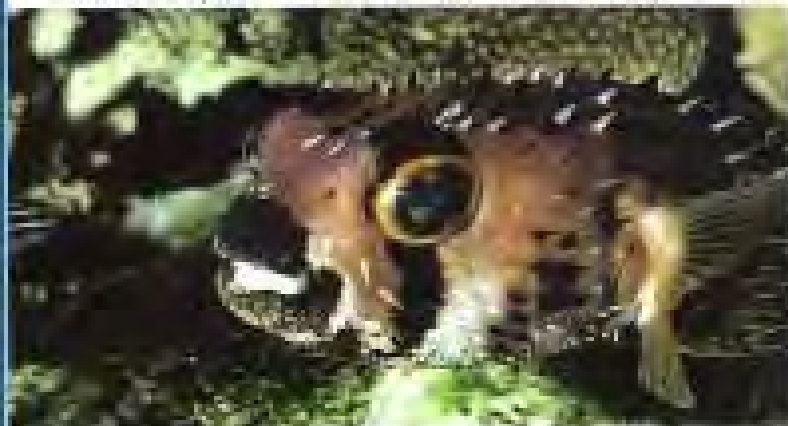
Chilomycterus spilostylus 444
7, 9-10 ♀♀ ~ 0 ♂♂ 26°C sg: 1.022 34 cm 400L



Diodon holacanthus 444
Circumtrop. 海水 25°C sg: 1.022 50cm 500L



Diodon holacanthus 444
Circumtrop. 海水 25°C sg: 1.022 50cm 500L



Lophodiodon calari 444
7-9cm 海水 25°C sg: 1.022 30cm 200L



Diodon (Huroeus) 444
5-8cm 海水 25°C sg: 1.022 50cm 500L



Diodon hystrix 444
Circumtrop. 海水 25°C sg: 1.022 50cm 500L



Diodon myersi 444
8cm 海水 25°C sg: 1.022 41cm 400L



Mola mola 444
Circumtrop. 海水 25°C sg: 1.022 300cm 3000L



Banzania laevis 445
Circumtrop. 海水 25°C sg: 1.022 81cm 800L



Gymnothorax nigris, Peppered Moray, Family Muraenidae (54)

Heteroconger hassi, Spotted Garden Eel, Family Congridae (69)





Dinemaichthys nakyuensis, Yellow Brotula. Family Bythitidae (179)

Halophyrne queenslandae, Queensland Toadfish. Family Batrachoididae (181)





Lophius piscatorius, Bigaye Gocsetish. Family Lophiidae (182)
Zeus naber, Bigapot Dory. Family Zeidae (245)





Trigloporus lastoviza, Hardy Sea Robin, Family Triglidæ (268)

Cyclocottus embryum, Calico Sculpin, Family Cottidæ (276)





Epinephelus guaza, Queen Grouper, Family Serranidae (284)

Epinephelus ongus, White-dotted Grouper, Family Serranidae (284)





Cephalopholis armata, Blueshipe Grouper, Family Serranidae (284)
Pseudanthias bimaculatus, Bluetip Anthias, Family Serranidae (284)





Pseudanthias cooperi, Cooper's Anthias. Family Serranidae (284)

Pseudochromis porramus, Whitetail Dotyback. Family Pseudochromidae (286)





Pseudochromis splendens, Bandit Dottyhack, Family Pseudochromidae (286)

Pterapogon kauderni, Banggai Cardinalfish, Family Apogonidae (297)





Hoplunnis aeneus, Yellow Tilefish, Family Malacanthidae (300)

Centropyge woodheadi, Woodhead's Dwarf Angelfish, Family Pomacanthidae (339)





Centropyge aurantacrus, Velvet Dwarf Angelfish, Family Pomacanthidae (339)
Holocentrus limbaughi, Limbaugh's Angelfish, Family Pomacanthidae (339)





Chaetodontoplus coeruleopunctatus, Yellowtail Angelfish, Family Pomacanthidae (339)

Gomphosus tricolor, Blue-tail Bird Wrasse, Family Labridae (358)





Cheilinus aburjoohe, Parrot Wrasse, Family Labridae (358)
Scarus bowerni, Bower's Parrotfish, Family Scaridae (360)





Valenciennea wardi, Ward's Glider, Family Gobiidae (403)

Cryptocentrus pavoninoides, Speckled Shrimp Goby, Family Gobiidae (403)





Amblygobius ramfordi, Ramford's Goby, Family Gobiidae (403)

Siganus unimaculatus, Bigspot Spinefoot, Family Siganidae (410)





Bothus mancus, Scribbled Flounder, Family Botridae (434)

Aricara ornata, Ornate Cowfish, male, Family Ostracionidae (441)





Araucanella omata, Omata Cowfish, female. Family Ostracionidae (441)
Canthigaster papua, Papuan Puffer. Family Tetraodontidae (443)



Family Discussions

The following discussions of families of fishes portrayed in this book are provided in order to give some additional information about the families and to act as an introduction to them. The discussions are necessarily brief, and for more information it is suggested that Nelson's book *Fishes of the World* be sought out.

Plate numbers referred to in the text appear (preceded by the number symbol, #) at center top of photo pages.

Jawless Fishes (Plates 1 & 2)

The hagfishes (Class Myxini, family Myxiniidae) are jawless cartilaginous fishes, eel-like or worm-like in general shape, that are voracious scavengers feeding on the internal tissues and organs of dead or dying invertebrates and fishes. Commercial fishermen examining their catch, whether it is haddock, cod, mackerel, flatfishes, etc., may sometimes discover that some of the fishes are virtually hollow. The hagfish has bored its way into the fish with a set of rasp-like teeth. Polychaete worms may form a part of their diet in some areas.

Although not usually kept as aquarium fishes by home aquarists, hagfishes may sometimes be seen in public aquariums. They are cool- to cold-water fishes that become distressed if the water temperature rises to more than 10-13° C. The water should be marine in character, hagfishes usually not surviving well in fresh or brackish conditions. They are commonly found almost completely buried in soft mud or clay bottoms.

Although both male and female sex organs are contained in the same individual, only one or the other functions at one time (i.e., they are not synchronous hermaphrodites). There is no particular spawning season, and as many as 30 eggs can be laid by a single female in any month of the year. The eggs are large (up to 2.5 cm in diameter), yelky, and covered with a leucy material. Unlike the lampreys, which have a distinct larval stage, the hagfishes do not undergo a metamorphosis.

Aquarists should be warned that the name "slime eel" is well earned as they can turn an aquarium into a slimy mess if suitably disturbed. Under the confined conditions of the aquarium the slime can have poisonous qualities.

Sharks, Rays, and Chimaeras (Plates 1-16)

The sharks, rays, and chimaeras are all grouped into the class Chondrichthya, commonly called the cartilaginous fishes (although as noted above the hagfishes and lampreys are also cartilaginous fishes). They are divided into two main evolutionary lines, the subclass Holocephali (chimaeras) and subclass Elasmobranchii (sharks and rays), with the former being the most primitive.

The chimaeras are grouped into 1-3 families, the divisions usually based on the shape of the snout (placoid, sharklike, and langouste chimaeras). There are usually two dorsal fins, the first being preceded by a spine that in some cases has a poison gland associated with it.

The males have paired claspers used for internal fertilization. They also may have an accessory clasper-like structure in front of the eyes, the function of which is still not well known. The eggs are encased in brown horny capsules.

Most chimaeras are found in cool to cold deep marine waters. They grow to fairly large sizes (normally to 1 m but up to 1.2 m) and do not take to handling very well. All this causes difficulties to those wishing to keep any in captivity. They normally do not last more than a few months in public aquariums although one has been kept alive for more than two years by University of Washington aquarists. These rather poor swimmers eat small invertebrates and fishes and are sometimes caught on hook and line, perishing quickly once removed from the water.

Sharks are a fairly large (approximately 250 species) and highly diversified (about 13 families in the superorder Selachimorpha) group. Most people are familiar with some sharks, particularly since the popular motion picture *Jaws* and its sequels were released. Almost every public aquarium or oceanarium keeps their share of sharks in large tanks that are preferably circular or doughnut-shaped so that the larger free-swimming species can be in constant motion, a requirement for such species. Even with such facilities many sharks fare quite poorly in captivity, ceasing to feed and often almost blindly ramming into the sides of the tank. Certain sharks do well in captivity, and exhibitions of their feeding draw considerable crowds. Home aquarists are more limited in their selection and normally must choose small, bottom-dwelling sharks for their aquaria.

Almost all sharks are marine. There are a few species that are able to ascend rivers into pure fresh water; the almost land-locked shark of Lake Nicaragua is quite well known. They are found around the world, mostly in tropical and subtropical waters with fewer numbers in the temperate regions and practically none in the cold polar waters. They vary considerably in size from those barely 48 cm long in adults to 15-20 m long.

Shark reproduction involves internal fertilization. Males are provided with claspers on the

inner edges of the pelvic fins. Development in most cases is ovoviviparous, while in others it may be oviparous or viviparous. In those that deposit eggs, the eggs are encased in firm capsules, sometimes highly ornamented, with long tendrils at the ends that become entangled (and thus anchored) with objects on the ocean floor. Some of the egg capsules have been successfully hatched in captivity.

Sharks are, without exception, carnivorous. Many are provided with very sharp, often serrated teeth that can do considerable damage to objects a lot harder than human flesh. Most sharks feed primarily on fishes, while others are scavengers feeding on whatever becomes available. Still others have teeth modified to feed on hard-shelled mollusks or crustaceans. The huge whale shark and basking shark, on the other hand, feed on small planktonic forms, primarily crustaceans. As for attacks on man, these are usually few and far between. Even then, in many cases the shark was provoked or it was a case of mistaken identity, the human victim appearing to the shark as its more natural prey (i.e. seals).

Aquarists should be warned that even the small sharks that are kept in home aquaria have the potential of inflicting a severe bite on anyone foolish enough to become careless when handling them. These sharks are surprisingly strong and often are able to twist enough to bite at anything close enough, usually an arm. They are also quite adept at getting tangled in nets and slashing at the fingers that are freeing it from the mesh.

The two families of the order Hexanchiformes (frill sharks, *Chlamydoselachidae*, and cow sharks, *Hexanchidae*) have a single, spineless dorsal fin and six or seven gill slits. The Frill Shark (*Chlamydoselachus anguineus*) is snake-like in appearance and lives in deep water where it feeds mainly on squids. Of the cow sharks, the one most likely to be seen is the Sevengill Shark (*Notorynchus virgulatus*), which is common in California bays as well as in the western Pacific. Sharks of both families are ovoviviparous.

The single family in the order Heterodontiformes, *Heterodontidae*, contains species that find their way into marine aquarists' tanks. *Heterodontus portusjacksoni*, the Port Jackson Shark, is one of these. It is also called the oyster-crusher because of its feeding habits. Aquarists should be wary of the sharp spines preceding each of its two dorsal fins. Horny egg cases with spiral flanges are laid by members of this family.

The order Lamniformes (with about seven families) contains most of the sharks. There are two spineless dorsal fins, an anal fin, and five gill slits. Some of the sharks in this order are small and very colorful or have interesting patterns and so are of interest to aquarists. Some of the carpet or nurse sharks, for example, are generally available to aquarists. First among these is probably the Atlantic Nurse Shark (*Ginglymostoma cirratum*), although it soon outgrows the tank in which it is housed. It is not very colorful but is quite docile, comparatively speaking. The carpet sharks are very colorful and in addition have fringes or lappets that add to their appeal. Most of these sharks also outgrow their tanks quite rapidly.

The family Squaliidae (cat sharks) is by far the most important family of sharks in aquarists. It contains the smaller, more colorful species that do well in captivity. Almost all are bottom-dwellers feeding on the invertebrates and small fishes that are found there. Aquarists should be aware that some species grow large (over a yard) and many are from temperate regions, requiring cooler tank water. Most of the species kept in aquaria are from the Indo-West Pacific. Included in this family are the swell sharks that can fill their stomachs with air if they are removed from the water, much like a pufferfish. The species are viviparous. No special care is needed for these small sharks other than a suitably large tank, plenty of good food, and perhaps an open area of sand.

Other members of the Lamniformes include the whale shark (family *Rhinocerotidae*), the sand tigers (family *Odontaspidae*), the thresher, basking and mackerel sharks (family *Lamnidae*), the hammerhead sharks (family *Sphyrnidae*), and the smooth dogfishes and requiem sharks (family *Carcharhinidae*). Almost all of these are too large for private tanks, and only a few are regularly seen in public aquariums. Among the better known sharks in this group are the Whale Shark, a monster that is said to reach as much as 15 m in length, the Gray Nurse Shark (perhaps responsible for many of the shark attacks in Australian waters), the thresher sharks with their unusually elongate upper tail lobes, the Great White Shark ("Jaws"), the Mako, and of course the Tiger Shark with its tiger-like stripes and reputation to match. Stomachs of Tiger Sharks have contained a wide variety of items from indigestible, inanimate garbage items to human body parts. With such a reputation many public aquariums have tried (usually unsuccessfully) to keep them alive. Among the more unusual sharks can be included the hammerheads, so-called because of the bizarre development of their heads, with the eyes on the end of lateral extensions.

The order Squaliformes contains sharks with two dorsal fins (with or without spines), no anal fin, and five gill slits. Three families are currently included, the dogfish sharks (family

Squalidae), the saw sharks (family Pristiophoridae), and the angel sharks (family Squatinidae). Only some of the smaller squalids are kept in home aquaria, such as species of *Squalus* and *Cephaloscyllium*, and it is *Squalus acanthias* that is the shark commonly used in comparative anatomy labs. The smallest shark, *Squalinus laietanus* which grows to about 25 cm, belongs to the Squalidae. The saw sharks should not be confused with the sawfishes (family Pristidae) which are rays, although the saw sharks have many ray-like characters and have a great superficial similarity to these fishes. The saw sharks have laterally positioned gill slits while those of the sawfishes are ventrally located. The angel sharks also are somewhat ray-like but they also have the gill slits laterally positioned. The angel sharks are also called monkfish. As their flattened body might lead one to guess, they live on or close to the bottom, often partially hidden in the sand.

The superorder Batoidesomorpha, (order Rajiformes, contains the rays and the broad eelms including the sawfishes, guitarfishes, skates, etc.). Only a few colorful species are kept by marine aquarists. All of these fishes are characterized in part by having the gill slits opening on the underside of the body.

Small members of the sawfishes (family Pristidae) are sometimes kept in home aquaria and commonly in public aquariums. They should be handled with care as the elongate snout provided with rows of sharp teeth (actually modified scales) along each side can cause considerable damage. Many an unfortunat person who thought it was safe to hold one by the tail has scars to prove the fallacy of this idea. Normally the saw is used to slash through schools of fishes (mulletts, etc.) impaling some on the saw teeth. Sawfishes are found around the world in shallow tropical waters. They may stray into brackish or even fresh water, and, like a shark cousin, one species has become almost land-locked in Lake Nicaragua. The guitarfishes (family Rhinobatidae) are similar in shape to the sawfishes but are without the saw. They are too big for home aquarists but may find their way into public aquariums. More fascinating to aquarists are the electric rays (family Torpedinidae). These voracious fishes can generate electrical charges, some quite intense, and should be handled with great care. Most encounters are by swimmers or waders who inadvertently step on one on a sandy bottom. These rays are poor swimmers and rely mostly on their shocking ability rather than flight for protection. Some of the species are quite colorful and, regardless of the risk, are kept in home tanks. Their food is mainly bottom invertebrates or fishes. The eagle rays (family Myliobatidae) and manta rays (family Mobulidae) are much too large for home aquaria, but some smaller ones are kept in oceanariums. They always attract attention with their graceful "flying" motions. Both eagle and manta rays are noted for their ability to leap from the water and come down with a resounding crash. The two most species rich families are the skates (family Rajidae) and stingrays (family Dasyatidae), and it is from these families, particularly the latter, that aquarium species are selected. Most skates and rays live inshore on the bottom, feeding on shellfish and/or crustaceans. Skates prefer more temperate waters and in many areas are fished for commercially. Males have long claspers for use in internal fertilization. They lay eggs encased in horny capsules that have tendons or projections that help anchor them to objects on the bottom. Many are washed up on shore and have been given the names sailor's purse and mermaids purse. Stingrays are more tropical fishes spending much of their time almost completely buried in the sand or soft bottom material. In addition to the crustaceans and molluscs, they will readily feed on worms when available. Stingrays have the base of their tail armed with one or more spines provided with venom producing tissue. Perhaps the most commonly kept stingray is *Taeniura lymnae*, a colorful species with blue spots scattered over its upper surface.

The remaining fishes all belong to the bony fishes (class Osteichthyes) which have skeletons composed, at least in part, of true bone.

The Coelacanth (Plate 17)

The Canary Islands Coelacanth (order Coelacanthiformes, family Latimeriidae, *Latimeria chalumnae*) is the only known survivor of the coelacanthiformes, fishes usually considered to be ancestors to the entire lineage of present-day vertebrates. All the Coelacanthia have been collected in relatively deep water (to 300 m) where there is a rocky bottom. Their large scales are mostly a deep metallic blue. They feed exclusively on other fishes. What makes them very unique is their lobed fins. The second dorsal, pectoral, and pelvic fins are supported by fleshy stalk-like structures arising from the common base of lobefins. Most public aquariums and zoos would love to have a living Coelacanth on display, but they have not been very successful in their endeavors. Obviously a rare 1.2-1.5-m fish reaching a weight of 72 kilos would not be available to private aquarists. These ovoviviparous fishes were found to contain eggs up to 8.1 cm in diameter and young in the oviduct with a length of up to 33.5 cm total length.

Tarpons, Ladyfish, and Bonefish (Plate 17)

The tarpons (Megaloptidae), ladyfishes (Elopidae), and bonefishes (Albulidae) are all included in the order Elopiformes where the pelvic fins are abdominal, the tail is deeply forked, and all have a fork-tailed leptocephalus-like larva. None are of great interest to aquarists, although all are sought after avidly by fishermen. Often called the silver king, the Atlantic Tarpon (*Megalops atlanticus*) grows the largest, attaining up to 2.4 m in length and a weight of 135 kilos. Deep hooked, the tarpon puts up a tremendous battle (especially on relatively light tackle) with spectacular leaps, giving the fisherman the time of his life. The bony mouth makes it hard to get the hook and many fish are lost. Even when landed, however, this fish is often released, partly in respect for the pleasure it has just given. Bonefish (*Albula* spp.) are smaller and instead of leaping, make powerful runs stripping line from the reel at a fast clip. Like the others just mentioned, the Atlantic Ladyfish (*Elops saurus*) is a game fish. It resembles the tarpon more in appearance and fighting characteristics but averages close to 2.25 kilos. It also lacks the filamentous last ray characterizing the tarpon. Most of these species are found in shallow inshore waters where they feed on small fishes and invertebrates. There is a deepwater genus of bonefish (*Paralichthys*) with a long dorsal fin.

Eels (Plates 18-20)

All the true eels, comprising about 80 families, are included in the order Anguilliformes. The body is elongate, and the dorsal and anal fins are usually connected to the caudal fin, while the pelvic fins (occasionally also the pectoral fins) are absent. There is a leptocephalus larva (elongate, very flattened, and almost transparent) but, contrary to that of the Elopiformes, it has a tail tapering to a point rather than a forked one. The elongate form of the eels has been suggested as being an adaptation for moving through small openings and in some cases there are further adaptations for burrowing. Although most eels are bottom-dwellers, there are at least some adapted to a bathypelagic mode of life.

Of the many eel families, only a few contribute species to the marine aquarium on a regular basis. Others may be kept in captivity as the occasion allows. Freshwater eels (which usually spend much of their life in both marine waters) of the family Anguillidae are collected occasionally and may find their way to home aquaria of marine enthusiasts but are then usually returned again when the novelty wears off. The freshwater eels generally spawn far out in the open ocean where as many as 20 million eggs are released by each female. After spawning the adults die. The leptocephali then travel back to the continental shores (this trip may be up to several thousand kilometers) where they ultimately metamorphose into young eels called elvers that move toward fresh water. The snake eels (family Ophichthidae) are burrowers, the tails of some genera being modified into a hard, fleshy point without fins. Burrowing is done tail-first. Several species from this family, especially the colorful members of the genus *Nyrichtina*, are regularly kept in marine aquaria. The worm or spaghetti eels (family Muraenidae) are extremely thread-like, without or with only feeble pecto-

ral fins, and with eyes that are small and covered with skin.

The angler eels (family Congridae) are distinguishable from the moray eels by possessing pectoral fins. The larger species are usually passed over by aquarists, but several members of the garden eels (subfamily Heterocongrinae) make interesting aquarium inhabitants and are seen from time to time. Garden eels are found in patches usually in rather large colonies (gardens) where there are many burrows. The garden eels will be seen hovering just above the burrows feeding on small organisms that are carried to them in the current. At the approach of water threat the eels will retreat tail first into their burrows only to appear again slowly when the danger is past.

The moray eels (family Muraenidae) lack pectoral fins, have small, restricted lateral gill openings, and most have long, tongue-like teeth. Most live on tropical and subtropical reefs in relatively shallow water and are quite colorful. Most are large, generally up to a meter in length, with others reaching a length of over two meters. Divers frequently encounter morays that are in holes in the reef with only their heads sticking out. As they respire the mouth opens and closes exhibiting the formidable teeth. Although this deters any diver from messing with them, unfortunate divers have been bitten when they stuck a hand into a hole after a fish or shell and were unaware that it was occupied by a moray eel. Normal food of morays includes small fishes and some invertebrates. Apparently squid are a delicacy for most morays, and aquarists able to supply such food should do so. Morays of the genus *Echidna* generally have teeth modified for crushing the shells and carapaces of crustaceans and molluscs. Some morays even feed on sea urchins. Even with such a bad reputation (or possibly because of it) aquarists keep many species of morays (mostly from the genus *Gymnothorax*) in their home tanks. Public aquariums almost always have several species on exhibit as well.

Herrings and Herring-like Fishes (Plates 30-32)

The herrings and herring-like fishes (order Clupeiformes) are among the most important food fishes in the world, both for human consumption and as an important link in the food chain of many fishes. They occur in vast schools that may extend for kilometers. Thus the various predators—other fishes, birds, marine mammals, etc.—can usually take their fill without seriously depleting the population. Only man, with his high-tech equipment, can seriously threaten the species as a whole. The fishes, in turn, feed on planktonic organisms that they strain out by means of their numerous long gill rakers. The herrings (family Clupeidae) are usually silvery fishes that possess abdominal scales. Besides the herrings themselves, such well known fishes as shad, sardines, and menhaden are included. Spawning is usually in relatively shallow water where each female may shed many thousands of eggs into the open water. The eggs are demersal (sinking to the bottom) and are coated with mucus so that they stick to objects when they reach the bottom.

The menhaden (family Engraulidae) are also commercially important food fishes. They are generally recognizable by the snout overhanging the mouth and the silvery stripes along the side. They also strain planktonic organisms with their numerous slender gill rakers, occur in massive schools, and are mostly found in tropical or temperate waters.

The wolf herrings (family Chirocentridae) grow much larger than their cousins, attaining an average length of about 1.5 m. They are voracious predators with large, tongue-like teeth.

None of the clupeiform fishes are generally kept by aquarists. Indeed, anchovies are so fragile they usually die if touched or taken out of the water even for a second. Add to this their lack of color, and they have little if anything to make them appealing to aquarists. Public aquariums will keep them mainly as food for the larger fishes.

Milkfish (Plate 32)

A member of the order Gomorinchiiformes, *Chanos chanos* (family Chanidae) looks somewhat like the ladyfish or bonefish discussed previously but possesses a suprabranchial organ (lateral pouches in the posterior part of the branchial chamber). It is a very important food fish in Southeast Asia and the subject of intense aquaculture (particularly in the Philip-

panies, Taiwan, and Indonesia. The fry are collected along the shore and removed to growing-out ponds until they reach marketable size. Those seeking higher returns on their investment by raising the Milkfish to a larger size may often lose most of their fish in typhoons (causing flooding and/or destruction of the ponds) if they are unlucky.

Smelts and Noddlefishes (Plate 33)

The smelts (family Osmeridae) and noddlefishes (family Salangidae) have very little in common other than they both belong to the order Salmoniformes. As such the maxilla is included in the gape of the mouth and they possess an adipose fin between the dorsal fin and the tail. The smelts are small and silvery like herrings but, like salmon, make spawning runs into freshwater streams. They are cooler water fishes occurring in the Northern Hemisphere in both the Atlantic and Pacific Oceans. Most of the species are commercially important local fishes; none are usually kept as aquarium fishes. The noddlefishes or noddiefishes have almost scaleless, transparent bodies with a strongly depressed head. They are found from Sakhalin to China and perhaps even farther south.

Deep-sea Bristlemouths and Viperfishes (Plate 33)

The deep-sea order Stomiiformes contains about nine families of fishes. These normally possess luminescent organs in the form of photophores. In some groups there is a chily barbel that is often used as specific identification. The mouth is usually well provided with teeth and the dominant color is usually black or brown, although there are silvers forms. Most are deep-sea fishes living in areas of perpetual darkness while some approach upper water layers at night, retreating to the darker regions with the approach of dawn. Many attempts have been made to keep species of this group alive as they make spectacular displays in public aquariums, but they are difficult to bring up to the surface alive or to keep alive once captured.

Lizardfishes and Their Relatives (Plates 34-37)

The sailfin lizardfishes (family Aulopodidae) and the lizardfishes (family Synodontidae) are only two of the dozen families of the order Aulopiformes, which is characterized by a specialization in the gill arches involving the second pharyngobranchial. These two families (plus a third, Chirocentridae) are benthic, the others pelagic. An adipose fin is commonly present.

The sailfin lizardfishes resemble the typical lizardfishes but have larger dorsal fins that earned them their common name. They are found in tropical and subtropical waters and are predators on small fishes and invertebrates. Although attractive species that would be welcome in hobbyists' tanks, they are only rarely seen offered. Far more common are the members of the family Synodontidae. These fishes spend a great deal of time sitting on the bottom propped up by the ventral fins waiting for prey to come within reach. This might be small fishes or invertebrates that they dispatch quite easily as one might guess by noting the rows of sharp teeth in the jaws and the rather large mouth. Some species blend well with the sandy bottom upon which they sit while others go a step further and partially bury themselves in the substrate, making themselves almost invisible to the approaching prey. Most of the aquarium species are selected from the subfamily Synodontinae; the remaining subfamily, Harpodontinae, contains the family ducks, genera *Saxicola* and *Harpodon*.

The lancetfishes (family Alepisauridae) may grow to a length of almost two meters and are slender pelagic fishes with a large sail-like dorsal fin. The mouth is large and provided with well-developed teeth.

Lanternfishes (Plate 37)

The order Myxostomiformes includes only two families, the lanternfishes (family Myxoptilidae) and the family Neucopelidae. The lanternfishes are so called because of the presence of groups and rows of photophores on the head and body. They live in the twilight to dark regions of the open oceans but make vertical migrations daily to the surface at night (where

(they are often taken by dip-netting). They are small fishes less than 15 cm in length and may be black, brown, silvery, blue, etc., some with iridescent reflections. They are very common and occasionally are caught for public aquarium displays. Private aquarists rarely encounter them unless they collect them themselves.

Codfishes and Rattails (Plates 38 & 39)

The order Gadiformes contains seven families of fishes including the codfishes (family Gadidae) and the grenadiers or rattails (family Macrouridae). These fishes have thoracic or jugular pelvic fins that contain up to 17 rays. There are no true spines in the fins.

The codfishes, which also include the hakes, haddock, and hussak, are cold-water fishes of the Northern Hemisphere. They are very important commercial food fishes, most of the catch nowadays being processed as frozen filets. They are generally bottom feeders preying on small fishes, worms, crustaceans, and mollusks. A very large number of eggs are produced, a female cod releasing up to 8 million eggs per season. The eggs and larvae are pelagic. These fishes are not readily available to marine aquarists and there is practically no interest in them anyway. Most public aquariums, especially those in the colder regions of the United States and Europe, have displays of these important food fishes.

The family Moridae (morid cods) includes quite variable fishes with one to three dorsal fins and one or two anal fins. The chin barbels present in many cods may or may not be present in members of this family. Most of the species are deep-water fishes and rarely available for aquaria, private or public.

The grenadiers or rattails are deep-water fishes rarely found at less than 185 m depth and often at water greater than 750 m deep. The body tapers posteriorly to a point, and the second dorsal and anal fins are many-rayed and continuous with the long tail; a chin barbel is usually present. The eyes are usually large for vision in the low-light depths they inhabit. Special conditions are needed to keep these fishes in captivity (cold water, low light levels, etc.) and few, if any, are ever seen even in public aquariums.

Cusk Eels, Pearlfishes, and Their Relatives (Plates 40 & 41)

The cusk eels, pearlfishes, etc. (order Ophidiiformes) have many-rayed dorsal and anal fins extending to the caudal fin and often united with it. The pelvic fins are usually well forward, even ventral or jugular in position, and are composed of only one or two rays.

The cusk eels and bristles (family Ophidiidae) inhabit tropical and temperate waters where they live on the bottom or even burrow into it. The far anterior pelvic fins are used as sensory "barbels" to search the bottom for food. These bristles are egg-layers. Bristles may be found in shallow to very deep water, with some even extending down in the oceanic trenches in excess of 7000 m. Those living in deep waters usually have small eyes. The pearlfishes (family Carapidae) are mostly tropical shallow-water fishes of small size. They have very interesting symbiotic relationships with assorted invertebrate animals. The most publicized of these associations is the one in which the pearlfish lives in the gut or respiratory organs of sea cucumbers, but they also find refuge in other animals such as giant clams and sea squirts. At least one species, *Dicodon marginiferus*, shelters only in pearl oysters. Pearlfishes feed at night outside their host and find their way back by following a chemical scent. Because of these strange actions, pearlfishes are often sought out (with their hosts) for home aquaria.

The viviparous bristles (family Bythitidae) are, as the common name implies, fishes that give birth to living young. Some species are well known in serious aquarists, such as the Black Widow (*Stegonotus leucoceros*) and various species of *Cylinus* and *Dicentrarchus*. The family includes mostly fishes that inhabit shallow waters and even move into brackish or fresh waters. There are some species that are cave-dwellers. Because these bristles give birth to living young, some are sought for home aquaria, where they do reasonably well on a diet of mixed bottom invertebrates.

Toadfishes and Anglerfishes (Plates 42-51)

The toadfishes (family Batrachoididae) and the anglerfishes—some 18 families including the goosefishes (family Lophidae), frogfishes (family Antennariidae), and ballfishes (family Dorysepiidae)—are generally grouped into the order Batrachoidiformes, although some

workers use another order, Leptoformes, for the families of anglerfishes, which are characterized by the first ray of the spinous dorsal fin being transformed into an illicium, a lure-bearing spine.

The loachfishes are bottom-dwelling coastal fishes that commonly bury themselves in the soft substrate in wait for prey. Many are able to produce rather loud croaking noises (during courtship, when disturbed, etc.) that have earned them their common name. Some can enter brackish waters, and a few are confined to purely fresh water. Several species have turned up in the marine aquarium trade as curiosities, but almost all, save the reef-dwelling brightly patterned *Sorogobius*, are drably-colored. Some malshipmans possess photophores. Members of the subfamily *Thalassophryninae* have two dorsal spines and an opercular spine connected to vomerian glands, so upwardly toward. *Oxymonacis* can be very pugnacious, especially during breeding season. The eggs usually are laid on solid objects on the bottom (rocks, shells, even tin cans) and are vigorously defended by the male loachfish for about a month.

The goosefishes (*Chelodidae*) have a broad, flattened head with a big mouth and the characteristic "fishing pole" used to attract prey. They are large fishes found in cold to Arctic waters and are not kept in home aquaria. The frogfishes (*Antennariidae*), on the other hand, have many representatives in the marine aquarium trade. They are quite rounded, almost balloon-shaped, in contrast to the goosefishes and are most commonly encountered around coral reefs or rocky areas. Most are relatively small. The "fishing pole" and "lure" of frogfishes are well developed and used as a means of identification. The pectoral and pelvic fins are somewhat stalked and are moved as if they were tiny hands and feet as they move around obstacles over the bottom. Many colorful species are available and provide hours of entertainment for their owners as they "fish" for their prey. This is captured in a surprisingly rapid movement when the prey animal comes close to investigate the "bait." One of the most popular antennariids is the Sargassumfish (*Sarcanthus*). This species lives in sargassum weed as it floats in the open ocean waters. It "crawls" about on its floating home looking for fishes or crustaceans. Its pattern resembles the sargassum weed so closely that it is extremely hard to detect. Their appetites are prodigious and they can and will swallow animals that are quite large, comparatively speaking. Any fishes kept with any of the frogfishes should be larger than the frogfishes for safety. It is often said that a tankful of Sargassumfish will be reduced to one large contented Sargassumfish in a very short time.

The batfishes (*Myxodactylidae*) have a very depressed, hard, and usually rough-textured body. Their pectoral fins are used to "walk" over the soft bottom on which they live. Like the frogfishes they can swim, but only awkwardly. The illicium is relatively short and is thrust from beneath the snout when the batfish is fishing for prey. Most batfishes, although quite appealing fishes, are usually passed over for more colorful reef-dwelling species.

Clingfishes (Plates 52-54)

The clingfishes share the order Gobiiformes with only one other family, the siphonists (family *Aluettidae*). This latter family is restricted to Australia (primarily the southern parts), including Tasmania, and lacks the sucking disc of the clingfishes. It is a small family of four species grouped into a single genus (*Aluett*) with reduced or absent pelvic fins and no dorsal or anal fin rays.

The clingfishes (family *Gobiosocidae*) contain over 100 species distributed in warm to temperate waters around the world. Their common name is derived from the modified pelvic fins that form a characteristic sucking disc that is used to anchor them to objects in a strong current. Almost all of them are less than 10 cm in length, but a few species grow larger and one attains a length of almost 80 cm in length. The most common shape is somewhat loach-like with a large head and tapering tail. However, there are many modifications on this theme, particularly in the length of the snout. Eggs are usually laid on a firm substrate (rocks, etc.) and guarded by the parents(?). The diet includes small invertebrates for the most part. One species, *Siganus sargassensis*, commonly leaves the water while foraging for food, which consists of a variety of items including algae and small mollusks. Although there are a number of quite colorful species and the size is small, these fishes have not found favor with marine aquarists, with few exceptions. Clingfishes that live among the feathery arms of corals have been kept, but the difficulty of keeping the coral itself places severe restrictions on setting up a truly natural aquarium.

Flyingfishes, Halfbeaks, and Needlefishes (Plates 55 & 56)

The order Cyprinodontiformes contains about 13 families grouped into three suborders. Only one suborder, Exocoeloides, with four families, is mostly marine; the other two, Adrianipteroidei and Cyprinodontoides, contain mostly freshwater or brackish water fishes.

The flyingfishes (family Exocoetidae) are the most appealing to aquarists because of their ability to glide for some distance over the water's surface. This is accomplished mainly by means of enlarged pectoral fins and in some cases aided by enlarged pelvic fins (the so-called four-winged species). The lower lobe of the caudal fin is also enlarged and aids in the flight by dipping into the water while vibrating rapidly almost like an outboard motor. A succession of flights can keep the fish out of water for a considerable distance, which may deter the predators that sent them into the flight path in the first place. Juvenile flyingfishes are quite colorful and are sometimes kept by marine aquarists, but they are not very hardy (being open ocean fishes) and soon die.

The halfbeaks (family Hemiramphidae) usually have an elongated lower jaw and lack the enlarged pectoral (and pelvic) fins of flyingfishes. The lower caudal lobe is often elongated. Like the flyingfishes, they are tropical and travel in schools. They are more inclined to live in shallow water, and there are some halfbeaks that are live entirely in fresh water. Only the freshwater species are commonly kept in captivity.

The needlefishes (family Belontiidae) have both jaws elongated and provided with numerous needle-like teeth. Like the above families they are surface fishes of tropical (and sometimes temperate) seas, but with representatives in brackish and pure fresh waters. They can also leap from the water like projectiles and, because they are attracted to light at night, have injured fishermen working with lanterns or other lights. Unlike the halfbeaks, which have most freshwater species restricted to the Indo-Australian region, the needlefishes have their freshwater representatives mostly in the Neotropical region. Only the freshwater species are generally kept by aquarists.

Silversides and Their Relatives (Plate 57)

The silversides (family Atherinidae) belong to the order Atheriniformes along with four other families, including the Melanotaeniidae (rainbowfishes and their relatives). They are usually schooling fishes found in shallow waters of temperate and tropical seas, although some species are strictly freshwater fishes. The silversides normally have a broad silver band along the sides, two dorsal fins, and abdominal pelvic fins. The most famous silverside is the California Goby (*Atherinops affinis*), which spawns at night on the beaches during the highest tides from March through August. Crowds gather to watch the millions of little fish go through their act—and to gather them for food. The precision of their timing is remarkable. The eggs incubate in the warm sand for two weeks, then hatch, not as the tides reach another peak, washing the fry back out to sea. Although silversides are quite hardy, the marine representatives are not very colorful and are passed over by marine aquarists. Some of the freshwater species are kept.

A closely related family, the Ipnodidae, includes only two genera and six species.

Opah and Related Fishes (Plate 58)

The Lampriformes contains 11 families of mostly oceanic or pelagic (some deep-water) fishes. Of these perhaps the best known are the Opah (*Lampris guttatus*, family Lampridae), the ribbonfishes (family Trachipteridae), and the oarfishes (family Regalecidae). The Opah is a very colorful deep-bodied fish that may grow to a weight of over 225 kilos. Ribbonfishes are deep-water fishes with a ribbon-like body and a many-rayed dorsal fin. The oarfishes are similar in shape but possess long, slender pelvic fins that are their "oars." The oarfishes, reaching lengths exceeding 3 m (unconfirmed reports to twice that), are probably responsible for some of the sightings of sea serpents.

Squirrelfishes, Lanterneye Fishes, Pinecone-fishes, and Their Relatives (Plates 58-69)

Fourteen families comprise the order Berysiformes, including such diverse groups as the squirrelfishes (family Haloscentridae), lanterneye fishes (family Anomalopterygidae), beardfishes (family Polymixiidae), and the pinecone-fishes (family Monacanthidae). The composition of this order is commonly in a state of flux as workers in the groups add or subtract families as they see fit.

The pinecone-fishes are well known to aquarists. They are enclosed in an armor composed of large plate-like scales and possess phosphorescent light organs on the lower jaw. Although thought rare a few years back, they are being imported into the hobby almost regularly nowadays. Public aquariums seek out these fishes for displays, usually a darkened tank or one with periods of darkness when the light organs can be seen.

The lanterneye fishes have a light organ beneath each eye that is provided with a mechanism (in different species the organ can either be rotated or covered) to control the amount of light emitted. As for pinecone-fishes, public aquariums construct for these fishes tanks that are darkened. The lanterneyes are able to control their light, and the darkened tank looks like it is populated with fireflies blinking on and off.

The slimeheads (family Trachichthyidae) have a preopercular spine and a row of abdominal spines. The mucous pores on the head are well developed (as is normal in the Berysiformes). Some species have luminescence. Few species of this family are available to aquarists. One, *Trachichthys australis*, is occasionally seen in shipments from Australia and makes an excellent aquarium subject.

The albinos (family Berytidae) lack a midlateral dorsal fin and have a spine and 7-13 rays in each pelvic fin. Only eight species are included in the family, and only rarely are they seen in public aquariums.

The beardfishes (Polymixiidae) are so-called because of the pair of hyoid barbels. The pelvic fins are farther back (subabdominal) than in the other groups and have a spine and only six soft rays. They generally inhabit depths from 100 to 600 m.

One of the largest families of the order, the Haloscentridae includes the squirrelfishes and soldierfishes. The dorsal fin has a spiny portion and a soft-rayed portion separated by a notch. The eyes and scales are large, and the color usually includes a great deal of red. These are nocturnal fishes hiding in caves or beneath coral heads during the daytime but moving out at night to forage for food. Unlike most other members of the order, these fishes are generally found in relatively shallow water (although there are some deeper-water representatives) of the tropical and subtropical regions. Adults remain close to the bottom but produce a pelagic larva that aids in their dispersal. The family is readily divided into two large groups (subfamilies) generally called the squirrelfishes and the soldierfishes, the former possessing a large spine at the angle of the preoperculum. Both squirrelfishes and soldierfishes are well represented in the aquarium trade and do well in hobbyists' tanks. They feed on a variety of foods, especially crustaceans and small fishes.

Dories and Boarfishes (Plate 70)

The dories (family Zeidae) and boarfishes (family Caproidae) along with four other families belong to the order Zeiformes. Most of the fishes of this order are deep-sea fishes, although the dories are more midwater.

The dories have small spines or bucklers at the bases of the dorsal and anal fin rays as well as eight or nine plates along the abdomen. The most well known species have a large black lateral spot outlined with yellow and long filaments extending from the anterior dorsal fin spines. These fishes are only rarely seen in public aquariums.

The boarfishes include two genera, red-colored fishes with extremely deep bodies (*Antigenis*), and *Capros* open, a species similar to the dories but without the abdominal plates. They live at depths of more than 240 m.

Tubesnouts and Sticklebacks (Plate 70)

The tubesnouts (family Aulorhynchidae) and sticklebacks (family Gasterosteidae) belong to the order Gasterosteiformes along with an obscure family (Hypoprychidae) from Japan and Korea containing a single species. The tubesnouts are elongate, with lateral scales and a series of 24-26 short, isolated dorsal spines. They are coastal fishes of the North Pacific that may appear in aquaria on the West Coast of the United States and usually in Japan. The sticklebacks may or may not be elongate, may have lateral scales or not, and have 3-10 well-developed isolated dorsal fin spines. They are small (maximum length 40 cm in the European *Spinachia spinachia*) marine, brackish, or pure freshwater fishes and have gained considerable fame from the behavioral studies conducted on them. Most aquarists tend to keep the brackish or freshwater species to observe the spawning ritual. The sticklebacks are primarily inhabitants of cool northern waters throughout the Northern Hemisphere.

Sea Moths (Plate 71)

Sea moths (family Pycnodidae) are small fishes encased in bony plates. They have large, horizontal pectoral fins and a long, flattened rostrum. The mouth is tiny and located at the base of the rostrum. These bottom-fishes are welcomed by specialists when they appear in the trade, but unfortunately this is not very often.

Sea Horses, Pipefishes, and Their Relatives (Plates 71-82)

The order Syngnathiformes contains half a dozen families of very interesting and very unusual fishes. The trumpetfishes (family Aulostomidae) are elongate, compressed forms with 11-12 isolated dorsal fin spines and a short barbel at the tip of the lower jaw. They hover around reefs in tropical seas where they are often seen swimming close (almost touching) to a larger fish or orienting themselves with some gorgonians (sometimes even vertically). Most people believe that this is a ruse to make them less noticeable so they can more easily attack their prey (mostly small fishes). The sunetfishes (family Fierasmodidae) occur in tropical and subtropical waters. They resemble the trumpetfishes but have no dorsal fin spines, no barbel on the lower jaw, shorter dorsal and anal fin bases, and possess an elongate filament extending from the middle of the caudal fin. They can reach a length of 1.8 m, about double that of the trumpetfishes.

The snipefishes (family Macrorhamphosidae) are deep-bodied and compressed, usually possessing bony plates on each side of the back. The second dorsal spine is very long, as is the snout in some species. Orientation in the water is usually vertical, with the head pointing downward. The tiny mouth is used for selecting small planktonic prey. The pipefishes (family Syngnathidae) are almost entirely encased in thin bony plates. They are very compressed, with a sharp ventral edge, and are also commonly referred to as razorfishes. All the unpaired fins are at the extreme end of the body, and the tail is actually at an angle to the body. Small groups of these fishes can be seen swimming vertically in the water (head down) among the coral or even among the spines of long-spined sea urchins. It is amazing how fast these fishes move. The small, toothless mouth is used for snatching up small planktonic animals.

The ghost pipefishes (family Solenostomidae) are also tropical and have large stellate bony plates. The dorsal fins are separate, the first comparatively large. The pelvic fins are large and the snout and caudal fin are elongate, creating an unusual shape (but seems to be the rule for members of this order). Only a single genus with five species is included in this family.

All of the above families contribute members to the aquarium trade, but not in the extent of the family Syngnathidae. This family contains the sea horses and pipefishes, almost any of which may be kept by home aquarists. Certainly any sea horse is welcomed and many pipefishes are quite colorful, creating a demand for them as well. The body is elongate and encased in a series of bony rings; there are no pelvic fins. In the sea horses the head is bent at an angle to the body and the tail (which lacks a caudal fin) is prehensile. Both groups have tiny mouths and pick small animals from the plankton. In captivity newly hatched larvae

shrimp are excellent for the smaller species. Most species are found in shallow tropical waters, although there are representatives that range into temperate seas. The breeding habits are unusual in that the female will lay her eggs in a brood pouch located on the male's abdomen. Some species of pipefishes lack a true pouch and have the eggs attached to the abdomen open to the surrounding water. The young hatch inside the pouch and emerge as miniature adults. It is best to keep one horse by themselves or with similarly slow-moving fishes.

Some of the Australian forms (sea dragons, etc.) are quite bizarre in shape with numerous leafy appendages and/or gaudy coloration. These command a high price when they are available but usually are well worth it.

Flying Gurnards (Plate 83)

The flying gurnards (order *Uchisiluriformes*, family *Daetylopteridae*) have large long heads and large wing-like pectoral fins with free inner rays. They are bottom-fishes that use their pelvic fins alternately to "walk" along the sandy substrate. With a few vibrations of the tail they can gain momentum so they can slide through the water with the pectoral fins outspread. The hyomandibular bone is also used to produce sounds. Young flying gurnards are sometimes kept by marine aquarists.

Scorpionfishes, Sea Robins, Sculpins, and Their Relatives (Plates 34, 83-114)

The Scorpioniformes is a large order of fishes encompassing some twenty families and more than a thousand species. They are all characterized by a posterior extension of the third vertebral bone (caudal ray) and are commonly called the mail-checked fishes. Many of the fishes are venomous, and often the spines have venom glands associated with them.

The scorpionfish or rockfish family (*Scorpaenidae*) is one of the largest families of this order with more than 200 species. The body is generally stocky and the head normally is supplied with ridges and spines. The dorsal, anal, and pelvic spines are usually supplied with venom glands. Fertilization is mostly internal. Among the unusual reproductive modes of these fishes are the production of a large gelatinous balloon bearing the eggs and the birth of living young. These bottom-living fishes are mostly found around reef or rocky areas in tropical to temperate waters. They are predators that lie in wait for their prey, pouncing on them with a swift motion combined with surprise caused by the rapid opening of the large mouth. Although these fishes commonly are red or have a great deal of red color on them, many have patterns that effectively camouflage them against the substrate. This large family is divided into eight subfamilies in some classifications, while in others one or more of these groups are considered as full families. Among the more unusual are the *Pterodichthyinae*, containing the genus *Rhinopias*, and the *Tetraoquinae* with the genera *Acanthys*, *Paracentropyge*, *Tetraops*, etc. The *Sebasteinae* is one of the larger subfamilies, with one of its genera, *Sebastes*, having almost all of its 100 or so species occurring in the North Pacific, with California having a good representation of these. The *Scorpaeninae* is represented by the genera *Scorpaena*, *Scorpaenodes*, *Scorpaenopsis*, etc.

Of most interest to aquarists is the subfamily *Pterinae* with *Pterias* and related genera. These turkeyfishes, lionfishes, scorpionfishes, or whatever else they are known as in different areas are very attractive fishes with long filamentous extensions to the dorsal and pectoral fin rays and spines. The dorsal fin spines are still quite pungent and are provided with venom glands. The extent of the pain and suffering caused by a "sting" depends on the species involved, the amount of venom that gets into the bloodstream, the type of reaction a person has to the particular venom (similar to allergies to bee stings), and the type and speed of care given to the person who has come into contact with the spines. Treatment usually involves immersing the punctured foot or finger in water as hot as the person can stand. Severe reactions to a sting should be treated by a physician knowledgeable about such injuries. Most injuries occur when aquarists carelessly handle the fish (like trying to untangle one from a net) or when capturing the fish in the wild. Lionfishes are hardy and long-lived in captivity if provided with sufficient space and a variety of nutritious foods (small live fishes for example).

The stonefishes (family Synanceiidae, subfamily Synanceiinae) are seen mainly in public aquariums where they are handled only by experts, for the neurotoxin they possess is among the most deadly and can cause fatalities in humans. They are not very attractive and, indeed, look very much like a stone. This camouflage aids in their grey-capturing but also is dangerous to people because waders in shallow water not recognizing the fish for what it is might step on it. Among the other genera in the subfamily are *Bruce* and *Pompielus*. Other subfamilies of the stonefish family include *Tharyx* (with *Tharyx* and *Chirodactylus*) and *Manducus* (with *Manducus*).

The orbicular velvetfishes (family Caracanthidae) have an oval, extremely compressed body that is covered with small papillae. This gives them the velvety appearance and has led to another common name that is quite descriptive—furry half dollars. These are attractive little fishes that only rarely are seen in the aquarium trade.

The velvetfishes (family Aulacoetidae) are coastal fishes of the Indo-Pacific. The body is generally covered with modified prickly scales and the head is provided with knob-like bumps. The dorsal fin originates well forward.

The family Pataenidae is sometimes known as the prowlfishes. Members of this exclusively Australian family are scaleless, but the body may have tubercles or papillae. The dorsal fin originates far forward over the eyes.

The rockhoppers or pigfishes (family Congiopodidae) are Southern Hemisphere fishes without scales and with a reduced gill opening. A South African species has been reported to shed its skin like reptiles. (This also has been reported for members of the family Scorpaenidae, among others). Few members of these last three families enter the aquarium trade.

The sea robins (family Triglidae) have a boxy body, head (separate dorsal fins and two or three free lower pectoral fin rays that are used for detecting food). The remaining pectoral rays form a large wing-like fin (though not quite so large as in the fling-gurnards). Sea robins also "walk" on the bottom with their pelvic fins. They inhabit tropical and temperate seas, most commonly in deep water. All are carnivorous and most produce sounds. Two subfamilies include the unarmed sea robins (*Triglinae*) and the armored sea robins (*Peristerninae*). Few sea robins are kept by aquarists.

The flatheads (family Platycephalidae) have an elongate, cylindrical body and a flat head. The mouth is large, able to engulf small fishes and invertebrates. Flatheads are mostly marine fishes (some are brackish) that occur in the Indo-Pacific.

The californians (family Anoplopomatidae) occur in the cool waters of the North Pacific. There are two dorsal fins, and the head is not provided with ridges, spines, or papillae. Only two species are included in this family.

The greenlings (family Hexagrammidae) are also endemic to the North Pacific, where most occur close to shore and among the kelp and rocks. The head is provided with spines only, and the dorsal fin is single but provided with a notch between the spines and soft rays. Sexual dichromatism is seen at least in some of the better known species.

Combfishes of the family Zaniolepididae have a single dorsal fin with a notch. They have earned their common name by the elongate anterior dorsal fin spines (the second spine very elongate in *Zonolepis latipinna*). The two species often are placed with the greenlings as a subfamily.

There about 300 species of sculpins (family Cottidae) inhabiting marine (most species) and brackish waters of the Northern Hemisphere and New Zealand, with the greatest diversity in the North Pacific. The head is usually provided with spines and ridges. There are two dorsal fins, and the pectoral fins are usually very large, often wing-like. The eyes are large. Sculpins are bottom-fishes normally living close to shore, even entering tide-pools. There are some deep-water species as well. Most sculpins are carnivorous, preferring to remain in a camouflaged position until they can make a quick strike at some prey (small fishes and invertebrates). Although many have drab mottled coloration, some species are quite colorful (ex. *Leurostus xanthurus*). One of the most sought-after species of cottids for aquaria is the Giant Sculpin (*Rhynchobutrus richardsoni*). Not only is it very attractive, but it has an unusual shape. Unfortunately it is a cool-water species that cannot (or should not) be housed in a tropical reef tank.

The family Psychrolutidae has no common name and the species are commonly included with the Cottidae. Even so, these fishes are usually divided into two subfamilies, one with a rigid interorbital region and spiny heads and the other without head spines that because of their general shape are generally referred to as tadpole sculpins.

Pisichers (family Agonidae) are elongate armored fishes from the cold waters of the North Pacific, North Atlantic, and southern South America. The depth range is considerable, as they occur in tide-pools and to depths of 810 m. One or two dorsal fins may be present.

Lumpfishes and snailfishes (family Cyprinodontidae) have pelvic fins which project backward into a fleshy sucking disc. Lumpfishes, as their name suggests, have a globose, fleshy body commonly covered with bumps or tubercles. There may be two dorsal fins or a single one that is deeply notched. *Cylopterus lunatus* is one of the largest and best known lumpfishes, attaining a length of about 30 cm. The females may lay 20,000 or more adhesive demersal (sinking) eggs that are guarded by the male. Snailfishes are more elongate, some sporting bony plates that cover their fleshy body with prickles. The dorsal fin is low and single, sometimes confluent with the caudal fin. Snailfishes are generally small and range in color from shades of brown to pink and red. Some species are well patterned with spots, blotches, or stripes. The snailfishes are sometimes placed in their own family, the Tlapandidae.

THE ORDER PERCIFORMES

The order Perciformes contains about 150 families and more than 7,500 species (in both fresh and salt water) and is thus the largest and most diversified of any of the fish orders. The composition of this order will vary as controversial issues are settled and others arise. Among the largest families are the Cichlidae (fresh water), Gobiidae, Labridae, Serranidae, Blenniidae, Pomacentridae, and Apogonidae.

Snooks and Glassfishes (Plates 115, 254)

The snooks (family Centropomidae) have the lateral line extending into the tail, two dorsal fins or a single one deeply divided, and a scaly process in the pelvic axis. They are marine to brackish or even freshwater fishes of tropical waters. Most are well respected game fishes. Snooks are predators with a diet including other fishes and crustaceans. Inshore waters (including estuaries and especially mangrove areas) are nurseries for the young of many species. Because development of these areas by man is destroying the habitat, snooks are becoming more and more threatened.

The glassfishes (family Amphastichidae) are similar in general appearance to the snooks and are commonly included in the same family. They are small fishes that have become popular in the aquarium trade, particularly with the recent ability of Southeast Asian fish farmers to brighten them up by artificially adding fluorescent color to them. However, these colors are temporary and they soon return to the nearly transparent state that earned them their common name. Some workers do not accept *Amifossis* as a full genus and consider the proper family name to be Chandidae.

Groupers and Their Relatives (Plates 116–158)

The temperate basses (family Percophoridae) occur in marine, brackish, and fresh waters in tropical and temperate regions of the world. They are very much like serranids and at one time were placed in that family. The opercle has two rounded spines, the caudal fin is usually forked, and the sexes are separate. Perhaps the best known member of the family is the Striped Bass (*Morone saxatilis*), a very valuable sport and commercial fish. These "stripers" move into fresh water to spawn, where large females may lay up to five million eggs. At an age of about two years the stripers move toward the sea. One of the largest members of the family is the Giant Sea Bass (*Stenolepis gosse*), which grows to more than 2 m in length and weighs a quarter ton.

Groupers and sea basses (family Serranidae) inhabit mostly marine waters in tropical and temperate regions. They have three opercular spines, the dorsal fin is single (sometimes notched), and the caudal fin is normally rounded to lunate. They are hermaphroditic with the two sexes not functioning simultaneously except in the genus *Serranus* and its immediate relatives. The 350 to 400 species are commonly divided into several subfamilies. Most of the species in the marine aquarium trade are brightly colored members of the subfamily Anthiinae. These are externally sexually dimorphic, with the males usually more brightly colored and usually with one or more elongate anterior dorsal fin spines. Juvenile groupers of the genus *Epinephelus* are also kept as they are hardy and feed well. Unfortunately, these ones do so well they outgrow even the largest aquaria. Other colorful species kept belong to the

genus *Cephalopoda*, the dominant hue being red, often with blue spots or markings. The hamlets, *Hypoglyptus*, (whether a single polymorphic species or ten different varieties) commonly appear in the trade and are synchronously hermaphroditic (both sexes not only occurring in the same fish at the same time but both being functional at the same time). Species of the genus *Serranus* and *Lineatus* are also welcome aquarium inhabitants, and *Crossilepis alveata*, known to aquarists as the Leopard Groupie, has become a common sight in home aquaria.

The surgeonfish (family Grammatidae) are grouper-like fishes with the species having three distinct spines, the dorsal with 2-8 spines, and the anal fin with 4-8 short spines. The lower jaw generally projects and is provided with a short, fleshy appendage. Members of the Grammatinae (one of the two subfamilies) secrete a body mucus that can turn into a sticky web when the fish is agitated or attacked. This mucus contains the toxin graminidin. Besides *Grammistes aeneus*, an attractively striped species, aquarists also keep members of the genus *Diplomus*, *Bellinoperca chrysomus*, and occasionally a blue fish with a bright yellow stripe down its back, *Anabropsalis temminckii*. *Pseudopinna papilio* is called the Butterfly Groupie in the trade because of its beautiful coloration. It changes patterns with growth, but all of these patterns are attractive. The second subfamily (Pseudogrammatinae) contains the genus *Pseudogramma*, among others.

The dottybacks belong to the family Pseudochromidae. The dorsal and anal fins contain 1-3 often inconspicuous spines, with the dorsal rays numbering 21-37. Most species are small and colorful and well represented in the aquarium trade. The large genus *Pseudochromis* contains about 40 species displaying colors such as solid magenta, magenta and yellow, blue and yellow, etc. Members of the closely related genus *Taloceros* are also kept.

The basslets (family Grammatidae) have an interrupted dorsal (one or 1) may be absent entirely. There are 11-13 spines in the dorsal fin. Contained in this family is the extremely popular Royal Gramma, *Gramma lorea*. This purple and yellow (all hail from the western Atlantic along with a few closely related species. A couple of other members of the family occur in Australia, and one (known only from the holotype) is from Hawaii.

The roundheads (family Plexipodidae) have 11-13 spines in the dorsal fin and include such well known species as *Collipinna alveata* (Comet Groupie) and *Pomacentrus alveata* (Blue-spotted Comet). Also included in this family are the lesser known genera *Acanter* and *Trachispa*.

Acanthocheilidae and *Glaucogrammatidae* are small families (about five species each) of grouper-related fishes, the first very dottyback-like, the second more like serranids. Few if any of the species are kept by aquarists.

Grunters or Tigerperches and Aholoholas (Plates 159-161)

The grunters and tigerperches (family Terapontidae) inhabit coastal marine, brackish, and freshwater areas of the Indo-West Pacific. Most of the freshwater species occur in Australia. The species has two spines and the dorsal fin has a notch; the spinous dorsal fin is depressible into a sheath composed of scales. The species most commonly kept in aquaria is *Terapon terneti* (Three-striped Tigerfish). It attains a length of about 30 cm. Incidentally, the correct spelling is now considered to be *Terapon*, not *Terapont*. The grunters and tigerfishes have specially adapted muscles associated with the swim bladder for sound production, hence the common name grunter.

The aholoholas (family Kribiidae) are also marine, brackish, and freshwater fishes of the Indo-West Pacific. They also have a scaly sheath for the spiny portion of the notched dorsal fin but lack the specialized sound production mechanisms of the terapontids. Of the two subfamilies contained in this family, the *Nannogrammanae* includes brackish and freshwater fishes of southern Australia while the *Kribiinae* includes the widely distributed genus *Kribia*. It is from this genus that aquarists obtain their specimens, particularly the Plain Aholohola, *Kribia laetitia*.

Bigeyes (Plates 161-162)

Bigeyes (family Priacanthidae) occur in marginal and subtidal waters in all oceans. The eyes are large, the dorsal fin is continuous, and the inner ray of the pelvic fin is connected

to the body by a membrane. The large eyes and dominant red color of these fishes indicate their preference for low light levels and, indeed, they are nocturnal and found in relatively deep water. The large mouth indicates their predatory nature. The favorite species of aquarists is the Deep Bigeye, *Pratygeus alta*, which, when young, is quite attractive.

Cardinalfishes (Plates 163–178, 254)

The cardinalfishes (family Apogonidae) have two separate dorsal fins, the anal fin has two spines, and the predominant color throughout the family is red, prompting the common name. Most are small reef dwellers, attaining lengths of 10 cm or less, from tropical and subtropical regions of the Atlantic, Pacific, and Indian Oceans. Most are relatively shallow-water species. Many cardinalfishes are mouthbrooders, with the male incubating the eggs in some species, the female in others, and in some instances the duties are shared. Some cardinalfishes enter into a symbiotic relationship with various invertebrates, primarily molluscs, but in some cases sponges as well, where they gain shelter. One cardinalfish is named the Clownfish (*Acanepogon strabus*) due to its association with anemones. Almost any of the cardinalfishes can and do become aquarium residents, and of course the most colorful species are the ones most desired. One of particular popularity is the Pajama Cardinalfish (*Sphaeramia orbiter*), which not only has an attractive pattern but also will remain put in the open tank, a feature not always present in the shy, nocturnal species. Of the almost 200 species in the family, most are included in the genus *Apogon*.

Tilfishes and Smelt-whitings (Plates 179–181, 429)

The smelt-whitings (family Sillaginidae) have an elongate body, two dorsal fins, and two spines in the anal fin. They inhabit marine and brackish waters of the Indo-Pacific. They are almost never kept by marine aquarists but occasionally are seen in public aquariums.

Tilfishes (family Malacanthidae) have a long, continuous dorsal fin and a relatively long anal fin. There is only one opercular spine. Occurring in tropical to temperate waters of the Atlantic, Pacific, and Indian Oceans, the tilfishes are strictly marine. Most of the aquarium species come from the subfamily Malacanthinae, which includes the genera *Malacanthus* and *Hoplolatilus*. Although members of both genera are kept in aquaria, those of *Hoplolatilus* are more commonly maintained. One of the best known species, the western Atlantic Tilfish (*Hoplolatilus chomazoticeps*), supports a sizable commercial fishery and is the object of a sports fishery. They live in deep water (to 870 m deep) and fishermen usually have to travel a fair distance to reach an area where they can be caught. Tilfish are bottom-fishes feeding on crustaceans and fishes.

Jacks, Gobia, Remoras, Etc. (Plates 182–192, 194)

The Labracoglossidae has no common name for the five species (three genera) of this western and South Pacific family. They have a single dorsal fin and no canine teeth in the jaws. The false trevallies (family Lactoridae) from the Indo-Pacific have two dorsal fins, the soft-rayed portion of both dorsal and anal fins covered with scales. Two small canine teeth are present in each jaw. The single genus has up to two species. Neither of these families is commonly represented in the aquarium trade.

The bluefishes (family Pomatomidae) have two dorsal fins, the soft dorsal and anal fins covered with scales. The Bluefish (*Pomatomus saltatrix*) is quite famous as a sports fish. It is a schooling fish with the reputation of being voracious and bloodthirsty, killing just for the sake of killing. The schools of Bluefish trail schools of fishes such as herrings, menhaden, etc., charging into them violently enough to at times cause the water to boil with turbulence and usually killing more than they can consume. In the North Atlantic these schools migrate northward in the summer and southward when cooler temperatures arrive. Eggs are released into the water to develop as part of the plankton.

The Gobia (*Rachycentron canadum*, family Rachycentridae) occurs in tropical waters around the world. It closely resembles the remoras, but instead of the sucking disc on top of

the head it has a normal dorsal fin of 8-9 short, free spines. It feeds on fishes and crustaceans near the bottom and has been given the common name Crab-eater in some localities.

The remora (family Echeneidae) possess a sucking disc, a modification of the spiny dorsal fin that is used to attach themselves to larger fishes, turtles, or marine mammals. They thus hitch a ride and are able to feed off the scraps of their host's dinner. Suction is increased if the remora moves back "against the grain" of the laminae of the disc and released if the remora swims forward. This suction effect has been used to catch turtles. A remora is released into the water after a line has been attached to its tail. After a time the line and remora are hauled in with the remora hopefully attached to a turtle. The disc develops at an early age, for specimens as small as 3.3 cm or so have been found with fully formed discs.

The jacks and pompanos (family Carangidae) are generally streamlined, silvery, fast-moving fishes of temperate and tropical seas of the world. The body may be deep to fusiform, and there are usually two dorsal fins, the first with 5-8 sometimes very short, attached spines, and three anal spines, the first two usually detached from the rest of the fin. Commonly there are modified scales (scutes) along the posterior portion of the lateral line. The tail is forked and the caudal peduncle slender. A number of species are commonly in the aquarium trade and many more are normally present in public aquariums. One of the favorites is *Gnathypops speciosus* with its golden color set off by black bars. Others include the deep-bodied members of the genera *Alectis* and *Seriola*, some of which have long trailing filaments to the dorsal and anal fins. *Nasoctes diacrus* is called the Pilotfish as it is normally seen in company with large sharks — often swimming in the bow wave of the shark's mouth. A number of carangids are also found under the bells of floating jellyfish, some of which possess tentacles armed with stinging nematocytes. Small carangids will also shelter next to floating debris and are able to travel across open pelagic waters in relative safety. Most carangids are considered sports fishes and anglers are usually provided with a good fight for their troubles. In addition, most species are good eating, the pompanos being exceptionally good eating and commanding considerably higher prices than most food fishes.

The Roosterfish (family Nemotilidae) is the only member of its family. *Nesostilus portuensis* occurs in the tropical eastern Pacific and is distinctive by having the seven spines of the first dorsal fin elongate and filamentous. When folded back they fit into a groove. The Roosterfish is a good fighter and good to eat, thus making it a target for fishermen.

The dolphins (family Coryphaenidae) are more commonly being called dolphinfishes or even by the Hawaiian name mahimahi to help distinguish them from the porpoise-like mammals also called dolphins. The two species are very similar, with long, spinular dorsal and anal fins and a forked caudal fin. The scales of the larger dolphin (*Coryphaena hippurus*) develop a very high blunt loricel giving the fish a distinctive appearance. Mahimahi are excellent game fishes and excellent food fishes, so they are actively sought out by fishermen. They travel in small schools and once one is hooked others usually are also. Living fishes are quite beautiful, with blues, greens, and yellow predominating. Once landed, the fishes in their death throes change color, going through a rainbow of hues until they are dead and a dull silvery gray.

The family Apolectidae contains a single species, *Apolectes uger*, from the Indo-West Pacific. Formerly known under the name *Poecilia uger* (family Pomacentridae), individuals over 60 cm have no pelvic fins. The dorsal fin has 3-6 rudimentary spines and 41-46 rays. The scales are small and numerous, and a few enlarged scutes adorn the posterior end of the lateral line. Recently some authors have synonymized *Apolectes* with *Pomacentrus* and have at the same time included the family Apolectidae in the Carangidae. It seems likely that these steps will be accepted.

Moonfish and Slipmouths (Plate 193)

The Moonfish (*Mene mene*, family Moonidae) is very compressed with a sharp breast. The dorsal and anal fins are many-rayed (43-45 and 30-33 rays respectively) and have no spines.

Members of the family Leisognathidae are called by many names, the most common being ponyfishes, slipmouths, and slimys. They occur in marine and freshwater waters of the Indo-West Pacific. The body is very compressed and the scales are small. The dorsal and anal fins are many-rayed, with spines, and fold back into scaly sheaths. Most species are small, the largest attaining a length of only a foot. They exude a slimy mucus when handled and the small mouths are highly protrusible, accounting for two of the common names. Although some of the species make interesting aquarium fishes, the basic silvery color places them low on the desirable list.

Pomfrets (Plate 194)

Pomfrets (family Bramidae) are oceanic fishes from tropical oceans. Deep-bodied and with a single dorsal fin, the pomfrets are divided into two subfamilies. The Braminae contains *Brama*, *Turpis*, etc., while the Pycnaninae contains the genera *Pycnanus* and *Pteryanthus*. Although the latter species are quite attractive (silvery body and long black sail-like dorsal and anal fins), they are never available.

Australian Salmons (Plate 194)

The Australian salmon (family Arripidae) occur in southern Australia and New Zealand. Only a single genus and two species are known. They are not true salmon, but apparently arrived at the name through confusion of early settlers in Australia who likened them to the European salmon.

Rovers, Snappers, and Fusiliers (Plates 195–209)

Rovers (family Ennelichthyidae) are warmwater fishes of most oceans. The dorsal fin may be continuous with but a shallow notch, so it appears to be in two separate parts but with the gap filled with short spines. The two lobes of the forked caudal fin fold in scissor-like fashion.

The snappers (family Lutjanidae) are quite well known, and a number of the almost 200 species are commonly kept in specialists' tanks. Certainly snappers are well represented in public aquariums. The dorsal fin is continuous (some have a shallow notch), and most species have characteristic enlarged canine teeth on the jaws. They are important food fishes, and anglers consider some of them prime catches. Most are bottom-dwelling schooling fishes feeding on small fishes and invertebrates. The largest genus, *Lutjanus*, contains many species that are welcome in specialists' tanks, especially the more colorful ones like the bright yellow snapper with blue stripes (mostly *Lutjanus fulviflamma*) but others as well, and spiny juveniles. *Lutjanus fulvus* has always been an aquarium favorite, as has the black and white patterned juvenile of *Morone nigra*. Although not common, juveniles of *Syngnathus neolephurus* have filamentous dorsal fin rays and often are kept. The Yellowtail Snapper (*Ocyurus chrysurus*) has a yellow stripe that extends from the snout backward to include the entire tail. It differs behaviorally from other snappers by swimming solitarily and swimming higher in the water column.

Fusiliers (family Caesionidae) occur in the warm waters of the Indo-West Pacific. They are streamlined fishes with a deeply forked caudal fin and a small mouth. They are planktivorous (feeding on small drifting organisms) and commonly are seen in large schools over the reef. Only an occasional fusilier is seen in marine hobbyists' tanks, but they are more common in public aquariums.

Tripletails (Plate 209)

Tripletails (family Lobotidae) occur in marine, brackish, and fresh waters of tropical seas. The name does not imply that they have three tails, but the posterior edges of the dorsal and anal fins plus the true tail give that appearance. Two genera are included in this family, the freshwater and brackish *Leuciscus* that freshwater aquarists should know, and the marine *Lobotes*, the true Tripletail. Juvenile *Lobotes* are very good at pretending to be dead leaves or other floating material along the shoreline. They lie on their side and float among the debris until prey animals are encountered. Juveniles are mottled brown or dark brownish black, aiding in the illusion. These small fish are occasionally in the trade.

Mojarras (Plates 210, 211)

Mojarras (family Gerresidae) occur in marine, brackish, and even some fresh waters in tropical and subtropical seas. The majority in American waters. They inhabit sandy shore areas. These relatively small (most less than 20 cm) silvery fishes have a highly protrusible mouth and sheath that protect the dorsal and anal fins. The caudal fin is forked. The base either of these fishes may be complemented by dark markings and, in some species, yellow fins. Nevertheless, they are only occasionally present in the aquarium trade.

Grunts, Porgies, and Their Relatives (Plates 212-242, 245)

The grunts (family Haemulidae) inhabit tropical and subtropical waters around the world, usually close to the bottom in rocky areas. Although most are strictly marine, some species occur in brackish water. The dorsal fin is continuous and the small mouth is normally provided with cardiform teeth. Two subfamilies are commonly employed: the Haemulinae (the true grunts) and Plectrohynchinae, the latter subfamily (common name sweetlips because of the thick, fleshy lips) sometimes being raised to family status. Grunts are predominantly an Atlantic group while sweetlips are more Indo-Pacific. The grunts get their name because of the grunting noise they make by grinding their pharyngeal teeth together and amplifying the sound with the swim bladder. They commonly school and may be seen on the reef in company with large schools of snappers. Juvenile Atlantic grunts are only occasionally offered for sale to hobbyists, but sweetlips are almost always available. Young sweetlips are usually brightly colored, and very small individuals move with a sort of viscous motion. The most popular aquarium species are *Plectrochanna phalloides* (Clown Sweetlips) and *P. orientalis* in the Plectrohynchinae and *Acanthurus nigrofasciatus* (Puckfish) in the Haemulinae. This large family includes about 175 species.

The bonnetmouths (family Ipnopsidae) have the dorsal fin divided by a deep notch and the caudal fin is forked. The upper jaw is highly protrusible. Bonnetmouths are planktivorous, feeding on the small drifting organisms of the plankton. Only two monotypic genera are included.

Porgies (family Sparidae) are marine (rarely brackish or freshwater) fishes of tropical to occasionally temperate waters, the greatest proportion of the 100 or so species occurring in the Atlantic. They resemble grunts in having a continuous dorsal fin, but the maxilla is covered by a sheath when the mouth is closed. Habitats include reefs and rocky and sandy areas. Like the grunts, the porgies commonly aggregate into schools. Food items are varied in these omnivorous fishes, some species crushing mollusks with molar-like teeth. Few of the porgies are in the aquarium trade. They are mostly caught as food fishes both commercially and by sport fishermen.

The emperors (family Lethrinidae) inhabit coastal waters of the Indo-West Pacific and West Africa. They have a continuous dorsal fin and the eyes (at least in lethrinids) are commonly set high on the head, the resulting elongate snout being used to dig into the sand for small invertebrates (sort of marine dragonflies). They are common food fishes that rarely appear in the aquarium trade.

The threadfin breams (family Nemipteridae) are closely related to the emperors. They have a continuous dorsal fin and the caudal fin may have a filament extending from the upper lobe. Most of the three-dozen species are quite colorful, with species of *Scalopus* and *Penapodus* appearing regularly in the hobby. The third genus of the family, *Nemipterus*, contains delicately colored species, but for some reason they do not enter the marine aquarium trade.

Drums and Croakers (Plates 242-244)

There are over 200 species of drums and croakers included in the family Sciaenidae that inhabit marine, brackish, and fresh waters of the tropical to temperate zones of the world. The largest number of freshwater drums occur in South America. The dorsal fin is long and has a deep notch between the spinous and soft portions. The lateral line scales extend to the end of the caudal fin, and some species possess a barbel or barbels on the chin. Most drums

are found in shallow inshore waters over sandy bottoms. The common names are derived from their ability to make sounds using muscular contractions amplified by the swim bladder. Included in this family are such well known food and sports fishes as the weakfishes, Spotted Sea Trout, White Seabass, Kingfishes, Corbin, and Black Drum. Aquarists keep the young of the genus *Syngnatus*, which often have the first dorsal and pelvic fins greatly elongated. These are the pipe-fishes, rifleman, and jackknife-fishes.

Goatfishes (Plates 245–251)

Goatfishes (family Muraenidae) are so-called because of their two long thin barbels that are used in detecting food as they move over the bottom substrate. They also have two widely separated dorsal fins and a forked tail. The dominant color is red with yellow, white, and black often providing contrast in various patterns. Goatfishes inhabit tropical seas usually near reefs, where they feed on the associated crustaceans and other invertebrates. They are important food fishes occurring occasionally in moderately large schools. Aquarists keep goatfishes not only for their coloration but also as a means of having the food on the bottom removed, much as do the catfishes in freshwater aquaria. The drawback is that they are so vigorous that at times the bottom is stirred up, causing a cloudy tank.

Moonfishes (Plate 252, 344)

Moonfishes (family Muraenichthyidae) are marine and brackish water fishes (although they can exist in pure fresh water if necessary) from the Indo-West Pacific and West African coasts. The body is very deep and compressed, and the dorsal and anal fins are long-based and continuous, with graduated spines. These fins are covered with scales. The Common Moonfish (*Muraenichthys argenteus*) is prized by both freshwater and marine aquarists, though most specimens are kept in brackish water with sea- and other similar fishes.

Sweepers (Plates 252–254)

Sweepers (family Pempheridae) are marine and brackish water fishes inhabiting the Indo-Pacific and the western Atlantic. The body is deep and compressed, and there is a single short-based dorsal fin and a long-based anal fin. These fishes normally are seen in large schools around reefs, commonly seeking shelter in caves or among the spines of sea urchins along with cardinalfishes and other small fishes. A few of the species are provided with luminous organs. Sweepers are not usually seen in the aquarium trade.

Butterflyfishes, Angelfishes, and Their Allies (Plates 255–296)

Sea chubs (family Kyphosidae) are marine fishes of tropical to temperate waters of the Atlantic, Pacific, and Indian Oceans. Most are compressed fishes with small mouths. The family is currently divided into three subfamilies, the Girellinae (nibblers), Kyphosinae (crudderfishes), and Scopelogadinae (halfmoons). The halfmoons are commonly placed in their own family. The nibblerfishes obtained their common name through their habit of following ships at sea. The nibblers are inshore fishes perhaps most commonly known through one of our West Coast species, the Opaleye (*Girella nana*). The halfmoons contain some popular aquarium fishes, especially the Striped (*Micropogonias undulatus*) and the Moonlighter (*Trocanter opacirostris*, formerly *Vesodon opacirostris*). Some of the Australian species are quite colorful but have not appeared very often in the aquarium trade.

Spadefishes (family Ephraenidae) have a deep, laterally compressed body and a small mouth. The dorsal fin is continuous in *Platax* but notched between the spinous and soft-rayed portions in the other genera. They occur in tropical and subtropical oceans mostly around reefs. Young spadefishes commonly occur in inshore waters among the mangroves.

Young Chaetodontidae, for example, are great miners of dead leaves floating along the shore. Although most ephippids grow quite large with respect to home aquaria, several species are commonly maintained. Species of batfishes (*Pterias*) are the favorites and are almost always available. The three most common batfishes kept (as juveniles) range from easy to keep but not especially colorful (*Platax orbicularis*) to fairly difficult to maintain but quite pretty (*P. pinnatifidus*).

Seas (family Scaevophagidae) inhabit marine and brackish inshore waters in tropical regions of the Indo-West Pacific. The body is deep and compressed and the dorsal fin is deeply notched; there are four anal-fin spines. It has been reported that a toxin is associated with the spines of the dorsal fin, so these fishes should be handled with care. All seas, when available, are suitable fishes for the aquarium although *Neosephoargus* is by far the most common species available. Most aquarists house them in brackish water tanks as these are most suitable for the young. Larger individuals do better in more marine environments and are seen in harbors feeding on excrement and other refuse from the ships that dock there, earning them the rather unflattering common name *dump eaters*.

The butterflyfishes (family Chaetodontidae) are tropical marine fishes usually found in reef situations. They are compressed and deep-bodied bodied with attractive colors and patterns. The dorsal fin is continuous, and a number of species have the snout protracted to a greater or lesser extent. Common elements of the color pattern may include an eyeline and a false eyespot in the soft portion of the dorsal fin. A larval stage called the thalichthys is present. Butterflyfishes are among the most popular of aquarium fishes, and many species are always available where marine fishes are sold. Longevity in aquaria, however, is dependent almost entirely upon the species as some are very specific in their dietary requirements (needing live coral, for example) while others are omnivorous and will accept a variety of foods.

Angelfishes (family Pomacanthidae) inhabit tropical marine waters of the world, usually around reefs. The body is commonly deep and compressed, the dorsal fin is continuous, the soft portion often provided with a filament, and there is a characteristic spine in the angle of the preopercular bone. Most species are very colorful, some undergoing vast changes from juvenile to adult patterns and thereby confusing early workers in the group. Like butterflyfishes, they are extremely popular with marine aquarists and almost every species is a potential aquarium inhabitant. But also like butterflyfishes, certain angelfishes are more difficult to keep than others, mostly due to the inability of the aquarist to provide proper nourishment. The pygmy angelfishes of the genus *Centropyge* are best suited for home aquaria, while members of the genus *Pomacanthus* are best kept only when young as they grow quite large. The adults make excellent displays in public aquariums.

The Gilwife, *Eupomus armatus* (family Eupomidae), is a southern Australian species that is compressed and deep-bodied with a deeply notched dorsal fin, both portions being somewhat extended. It makes an excellent aquarium fish when available (which isn't very often).

The armcheads (family Pentacerotidae) are deep to very deep-bodied, compressed fishes with the head usually enclosed in exposed, rough, striated bone. They occur in the Indian-Ocean and southeastern Atlantic oceans. They are rarely available to home aquarists and only occasionally may be seen in public aquariums.

Knifejaws (Plate 297)

Knifejaws (family Oplegnathidae) are so-called because of the parrot-like bank of fused teeth with which they are capable of crushing mollusks and crustaceans. The spinous dorsal fin is continuous, and the scales are small (in the parrotfishes, the other major family with fused teeth, the scales are large). Knifejaws are marine fishes with an unusual distribution – Japan, southern Australia, Peru and the Galapagos and South Africa. A single genus with half a dozen species comprises the family.

Surperches (Plates 297–298)

The surperches (family Embiotocidae) are marine fishes (with one exception, *Heterostichus* sp. from Alaska) inhabiting the coastal areas of the North Pacific. The dorsal fin is continuous and the scales are relatively small (35-75 in the lateral line). Surperches are viviparous, giving birth to living young. The male impregnates the female by use of thickened anterior rays of

the anal fin. Few surperches are kept by marine aquarists—except perhaps on a local basis in California, where they are common. One of the drawbacks is their need for cooler temperatures. Surperches are normally present in West Coast public aquariums.

Damselfishes and Clownfishes (Plates 299–336)

Damselfishes and clownfishes or anemonefishes (family Pomacentridae) are mostly marine fishes from shallow tropical waters around the world. The nostril is single in most species and the mouth is small. The dorsal fin is continuous (somewhat notched in some anemonefishes) and the anal fin has two spines instead of the usual three of perciform fishes. Most species are small (usually less than 15 cm) and colorful (at least in the younger stages) with an aggressive territorial nature. All these attributes endow them to marine aquarists, many of whom started in the hobby by keeping one or more species of damselfish or anemonefish. The anemonefishes (*Amphiprion* and *Frenatus*) stand out from the rest of the family not only by their general appearance (most are white and orange or orange-red in color) but by their association with anemones. These fishes live unharmed among the stinging tentacles of anemones, thus receiving protection for themselves and their eggs. They are colorful fishes that beginners are able to keep for relatively long periods of time. Hambrags (members of the genus *Hexagram*) have attractive black and white color patterns and are also quite popular with aquarists. Some species also are able to have a commensal association with anemones, but must simply shelter among the sharp branches of living cups). Of the rest of the family, almost any species would fare well in aquaria. Several favorites have emerged such as the Garibaldi (*Paripercops rubescens*), the Banggai wrasse (*Stegastes leucocinctus*), the Jewfish (*Micropogonias undulatus*), and the Blue Devil (*Chromis cyanura*).

Hawkfishes and Their Relatives (Plates 337–344)

Hawkfishes (family Coriobatidae) occur in tropical regions of the world (although most are Indo-Pacific), usually in coral reef or rocky areas. They are usually small fishes with pleasing patterns, with reds predominating. The dorsal fin is continuous, and there sometimes are coral on the interspinous membrane. The pectoral fins are large, the lower rays thickened and sometimes extended as sensory feelers. The name hawkfishes is derived from their habit of "perching" on the highest point of a coral head waiting for prey much as a hawk would do. Most common hawkfishes are kept by marine aquarists.

Kelpfishes (family Chirocentridae) are marine fishes from the coastal waters of Australia and New Zealand. Only two genera with about four species are included in the family. The family Aulodactylidae (no common name) has three genera with five species. These fishes are coastal marine fishes with a disjoint distribution, southern Australia, New Zealand, Peru, and Chile. Both these families are similar in general aspect to the surgeonfishes.

Morwongs (family Cheilodactylidae) are marine fishes of both the Southern Hemisphere (all genera) and Northern Hemisphere (China, Japan, and the Hawaiian Islands). The dorsal fin is continuous but may be notched, and the lower four to seven pectoral fin rays are greatly thickened, elongated, and detached in adults. The generic name *Cheilodactylus* is currently preferred to *Goniistius*. Morwongs are only occasionally seen in the aquarium hobby.

Trumpeters (family Latridiidae) are similar fishes from the coastal areas of southern Australia, New Zealand, and Chile. There are three genera with a total of about 10 species.

Bandfishes and Owstoniids (Plate 345)

The family Owstoniidae is a small one of about a dozen species. The body is elongate and compressed, the dorsal fin continuous, and the caudal fin somewhat elongate but not connected to the other vertical fins. The lateral line runs along the base of the dorsal fin. Bandfishes (family Cepolidae) are marine fishes of the eastern Atlantic and Indo-West Pacific. The body is elongate and tapers to the tail. The steady-rayed dorsal and anal fins are connected with the caudal fin and are without spines. The predominant color in both families is red or pinkish. None of the young species are regularly available to the marine aquarist, and it is even unusual to see one displayed at public aquariums.

Mullet, Barracuda, and Threadfin (Plates 345-347)

The mullets (family Mugilidae) occur in all temperate and tropical seas in coastal marine and brackish waters. There are two separate dorsal fins, and the pelvic fins are subabdominal. The stomach is thick-walled and muscular and the intestine is very long. These are schooling fishes commonly found near the surface, and they are prone to leaping from the water only to fall back with an audible splash. Mud is picked up from the bottom and strained by the elongate gill rakers. Mullet are not usually considered for home aquaria.

Barracudas (family Sphyraenidae) are elongate streamlined fishes with two widely separated dorsal fins. The lower jaw is projecting, and the mouth is provided with large, fang-like teeth earning these species a reputation of being ferocious predators that will even attack man. This reputation is enhanced by their habit of following swimmers and boats, perhaps attracted by the commotion and expecting to find something to eat. Most (but not all) reports of attacks on man by barracudas are untrue or greatly exaggerated. Barracudas are attracted by shining objects (like silver-leaf fishes) and may inadvertently snap at a finger with a shiny ring on it if it is dangled from a boat in water of low visibility. Although most barracudas are relatively small, the great barracuda (*Sphyraena barracuda*) may attain a length of more than 1.8 m. Barracudas are kept by some marine aquarists as novelties and every public aquarium has a complement of them, especially if there is a large reef tank.

Threadfin (family Polynemidae) occur in marine and brackish waters of all tropical and subtropical areas. They have two separate dorsal fins, a subterminal mouth, and pectoral fins that are divided into two sections, the lower portion normally with 2-7 unattached, elongate rays that are used for detecting food.

Wrasses, Parrotfishes, and Odocids (Plates 348-415)

The wrasses (family Labridae) are a highly diversified group of fishes found primarily in the warm tropical seas of the world. With some 200 species in about 39 genera, they run the gamut from deep-bodied and compressed to nearly terete, from species a few centimeters long to giants up to 3 m or more, and from drab colorless species to very gaudy fishes with a rainbow of colors. The mouth is protractile, the teeth are separate, some projecting outward, and the lips in some species are thick and fleshy. The dorsal fin is continuous, the soft rays of some species with long filaments. Behavioral patterns are often quite interesting. Many wrasses are parasite pickers (feeding on the ectoparasites of larger fishes) as juveniles, while members of one genus (*Labroides*) do it as a full-time job. Some wrasses dive into the sand to escape predators, and a number of species sleep under the sand at night. SDJ anemones build a cushion around themselves for sleeping much as do some parrotfishes. The coloration of the wrasses is usually quite spectacular, endearing them to marine aquarists, and commonly changes from juvenile to adult. This change may be toward a less colorful adult but also may be from one gaudy pattern to another. For example, the Clown Wrasse (*Cyano-pomus*) is bright orange with black-edged white markings. The adult is covered (particularly posteriorly) with brilliant blue spots. Sexual dichromatism is very common in the family, and this may reflect the two distinct spawning methods that may be present in the same species — a male-female one-on-one situation and group spawning. The single spawning male normally has a completely different livery. Many wrasses swim primarily by movement of their pectoral fins, giving them an odd sort of swimming motion. Many wrasses are in the aquarium trade.

The odocids (family Odocoelidae) are sometimes called weed whittings and have individual common names such as Herring Goby, Rainbowfish, and Tubemouth. The mouth is not protractile. The teeth in the jaws are fixed into a parrot-like beak. The dorsal fin is continuous. Six genera with about a dozen species occur in the coastal marine waters of southern Australia and New Zealand. Mostly because of the long shipping distance and the cool water required, these fishes are not usually seen in the aquarium trade.

The parrotfishes (family Scaridae) are marine fishes of primarily tropical waters. The teeth are coalesced into a parrot-like beak (hence their common name) and the mouth is not protractile. The dorsal fin is continuous. There are about 75 species, but the exact number is not known because of confusion in parrotfish systematics. This is caused in large part by coloration changes from juvenile to adult, great coloration differences between the sexes, and by the very similar meristics of most of the species. Parrotfishes are herbivorous, com-

mainly nibbling at living or dead coral to feed on the algae that is growing just below the surface layers or in the polyps themselves. Many are schooling fishes moving over the reef and stopping to graze as a unit as they go. Substantial amounts of calcareous material are ingested with the algae, broken down, and excreted back into the reef. Parrotfishes are thus considered one of the major factors in sediment production on the reef.

Eelpouts, Pricklebacks, and Their Relatives (Plates 416–417)

Basslets (family *Butyrasteridae*) are marine coastal fishes of the North Pacific. The dorsal fin is continuous and the large pectoral fins have a vertical base. Only three genera with seven species are included in this family. Normally these fishes are not seen in the aquarium trade.

Eelpouts (family *Zoarconidae*) are marine fishes of the cold waters of the Arctic and Antarctic. They have an elongate, tapering body with the long-based dorsal and anal fins confluent with the caudal fin. Pelvic fins are often lacking and when present are reduced and located far forward. Some members of the family are viviparous. Few aquarists can provide the cold water they need, although public aquariums on the West Coast of the U.S. usually have several representatives of this family on display. It is a fairly large family of 40 genera and 150 species.

Pricklebacks (family *Stichaeidae*) are marine fishes primarily of the North Pacific (plus a few in the North Atlantic). The dorsal and anal fins are long-based, the dorsal entirely spiny in most species (hence the common name). Among the better known species are the Monkeyface Prickleback (*Ctenodichthys volucrus*) and Decorated Warbonnet (*Chirolophis polyacanthopus*) of the Pacific, and the Longnose Prickleback (*Lispemania longirostris*) of the Atlantic.

Gonglets (family *Pholididae*) are also marine fishes occurring in the shallow waters of the North Pacific and North Atlantic. The dorsal fin is about twice as long as the anal, with up to 100 spines. The pectoral fins may be absent, rudimentary, or small, while the pelvic fins may be rudimentary or absent. *Pholis gunaxia* is a representative species. The spawners take turns guarding the eggs, which are rolled into a ball by the curled bodies of the parents.

Walfishes (family *Acanthodidae*) are marine fishes of the North Atlantic and North Pacific. The dorsal fin contains only spines, the pectoral fins are large, and the pelvic fins are absent. The powerful jaws typically are provided with large molariform teeth for use in crushing the shells of molluscs and crustaceans and with large canine teeth, making them dangerous to handle. Only two genera with a total of seven species are included.

Jawfishes, Stargazers, Sandperches, and Their Relatives (Plates 418–424)

Jawfishes (family *Opistognathidae*) inhabit tropical and subtropical waters. The dorsal and anal fins are long-based and continuous, and the lateral line is high on the body. The mouth is large and is used to excavate the burrows and to incubate the eggs (males are the oral incubators in this family). Most of the species are no larger than 15 cm in length. Some species of jawfishes are found in the aquarium trade, particularly the Yellowhead Jawfish (*Opistognathus aurifrons*) of the tropical western Atlantic. Aquarists must remember that a deep substrate is required for their well-being as they must be able to construct their burrows.

Belontiines (family *Conogadidae*) occur in the Indo-Pacific region. The body is elongate with long-based dorsal and anal fins confluent with the caudal fin. The pelvic fins may be present and located well forward (angular) or absent. Belontiines occur in mud and gravel habitats and on coral reefs.

Only one genus with two species makes up the family *Natogadidae* of southern New Guinea and northern Australia. The body is elongate (eel-like) with long-based dorsal and anal fins that are confluent with the caudal fin. The pectoral fins are well developed, but the pelvic fins are reduced to a small spine and two rays. A mental barbel is present.

A single species, *Pholidichthys leuromelas*, the Convict Blenny, comprises the family *Pholidichthyidae*. It occurs from the southwesternmost Philippines to the Solomon Islands. The body is eel-like, and the long-based dorsal and anal fins are confluent with the caudal fin.

Pectoral and pelvic fins are present, the latter with a slender spine and 2-3 soft rays. This species occasionally appears in the aquarium trade.

Sandfishes (family Trichoptilidae) are marine fishes of the North Pacific. There are two dorsal fins and the pectoral fins are quite large. The mouth opens almost vertically and the lips are fringed. The big species of this family normally lie in wait for passing food while partially buried in the sand.

Weeverfishes (family Trachinotidae) occur mostly in the Mediterranean but also in other parts of the eastern Atlantic, the Black Sea, and off Chile. There are two dorsal fins, the second dorsal and anal fins being long-based. Like the sandfishes, the weevers will lie on the bottom partially buried in the sand. They are dangerous because they are virtually invisible and thus are likely to be stepped upon, and there are venom glands associated with the spines of the first dorsal and the gill cover.

Stargazers (family Uranoscopidae) occur in temperate to tropical oceans. The mouth is nearly vertical and the lips are fringed. The eyes are dorsal in position, earning them their common name. There are two dorsal fins or the first may be absent; the second dorsal and anal have moderately long bases. Like the weeverfishes there are venom glands but these are associated with two large unpaired spines just above the pectoral fins. Some stargazers also can produce an electrical shock of 50 volts or more. These fishes lie buried in the sand with just the anterior part of the head exposed. The mouth when opened reveals a worm-like filament on its floor used to entice prey.

Sanddivers (family Trichometridae) occur in warm marine waters of the Indo-West Pacific. The dorsal and anal fins are long-based with the anterior rays of the dorsal fin often pronged and filamentous.

The sandherrings (family Cyprinidae) also occur in the warm to temperate waters of the Indo-West Pacific. The dorsal fin is continuous and the dorsal and anal fins are long-based. The fleshy snout projects beyond the lower jaw, which is bordered by a row of carti.

Three species included in two genera comprise the family Lepidocypidae. The mouth is moderately oblique and the lips are fringed. The dorsal and anal fins are long-based and the eyes are dorsal in position like the stargazers. These fishes occur around Australia and New Zealand.

The sandperches (family Mugilidae) occur on the Atlantic coasts of South America and Africa and throughout the Indo-Pacific. The dorsal fin is long-based, preceded by about four or five short spines that may or may not be separated from the soft rays by a notch. The pelvic fins are below and just anterior to the pectorals and are used to prop up the anterior end of the fish as it sits on the sand substrate. Of all the families of fishes discussed together here, the sandperches are the most likely to be seen in the aquarium trade.

Blennies and Their Relatives (Plates 425-452)

People generally speak of blennies as if they were all included in a single family. The truth is that the suborder Blennioidei is composed of six families at present with some 875 species in about 127 genera. They are generally small, benthic fishes that often have gills on their head. Many species are in the marine aquarium trade.

The triplefin blennies (family Tripterygiidae) are primarily tropical marine fishes of all oceans. The dorsal fin is divided into three distinct segments, the first two composed of spines, the third of soft rays. The pelves are reduced and jugular in position, and there are no eels on the snout. This family includes somewhat over 100 species in such genera as *Tripterygion* and *Emmelenia*.

The sand stargazers (family Bartyrascopidae) are warm temperate to tropical fishes from North and South America. The dorsal fin is continuous or divided and the jugular pelvic fins have a spine and three soft rays. The very oblique mouth usually has fringed lips, and the upper edge of the gill cover has finger-like elements. Sand stargazers commonly bury themselves in the sand bottom, breathing by means of a specialized branchiostegal pump.

Members of the family Labrisomidae (no common name as yet) are mostly tropical marine fishes from the Atlantic and Pacific Oceans. The dorsal fin is continuous (but with the rays longer than the spines) and has more spines than soft rays. Carti are often present on the snout, nostrils, and above the eyes. Sixteen genera are included containing 100 or more species. Only *Xenomedeus* and some *Starkov* are viviparous.

The stout blennies (family Clinidae) also have a continuous dorsal fin with more spines than soft rays, with all the rays being simple. Like the previous families of the suborder,

Scales are present. About 75 species in 20 genera are divided into three tribes. The Ophidiini from southern Australia are set-shaped with a continuous dorsal fin that is united with the caudal fin as is the anal fin. They have many more spines than rays (36-84 and 1-4 respectively). They are mostly oviviparous, the males having an intromittent organ. The Myxodini are from temperate waters of the Western Hemisphere and the Mediterranean Sea. The continuous dorsal fin does not have the anterior few spines separated by a notch, and the anal fin is not attached to the caudal. Orbital and nasal cirri are present. The species are oviparous, the males lacking an intromittent organ. The Clinini are widespread mainly in the temperate Indo-West Pacific. The dorsal fin is continuous, but the anterior three spines are usually longer than the rest and separated from them by a small notch. The anal fin is rarely attached to the caudal. The species are oviviparous, the males having an intromittent organ.

Members of the family Chaetopsidae are commonly referred to by several common names, including pipeblennies, labblennies, and flagblennies. The body is eel-like (veratiform) and the dorsal fin is continuous (although some species have the anterior portion of the spinous dorsal fin much higher than the remainder of the fin). The dorsal and/or the anal fin may be united with the caudal, or all may be separate. The head is generally spiny or rough, and orbital and/or nasal cirri may be present or absent. These blennies are commonly known for their fierce territorial defense, displays with flag-like dorsal fins, at least one species has been shown to enter a symbiotic relationship with a stony coral.

The combtooth blennies (family Blenniidae) are what most people regard as "blennies." They are mostly marine (a few are brackish or freshwater species) fishes from tropical and subtropical waters around the world. They are naked or with modified scales. The dorsal fin is continuous, and the jaws are protruded with comb-like teeth. About 300 species are divided into five tribes. The Salariai are mostly from the Indo-West Pacific. The caudal fin rays may or may not be branched. Some species are able to remain out of the water for considerable periods of time. About half the species of the Blenniidae are in the Salariai, including genera such as *Ecsenius*, *Istiblennius*, *Salaria*, *Entomacrodus*, etc. The Blenniini are mostly marine, and their caudal rays are branched. The 70 species are divided among fifteen genera, including *Blennius*, *Scorpaia*, and *Hypsoblennius*. The Osmobranchiini are also mostly marine, but their caudal fin rays are not branched. About 30 species are in this tribe. The Labblenniini includes the freshwater and brackish water *Phaenoblennius* *kepilingi* from Cambodia to Borneo. All the fin rays are unbranched. The tribe Neogobliini includes the saber-toothed blennies. These occur in the Indian and Pacific Oceans, with one species, *Melanostichus* *caeruleus* from brackish and fresh water. All fin rays are unbranched. These blennies are known for their more openwater existence and the habit of some of the species of mimicking more harmless fishes (such as cleaner wrasses) so that they can approach wary fishes that they then attack.

Dragonets (Plates 453-456)

Dragonets (family Callionymidae) are marine benthic fishes from tropical waters around the world, although most occur in the Indo-West Pacific. There are two dorsal fins, the first usually composed of four spines. The mouth is generally small, the lips large, and the gill openings are reduced to a small aperture dorsally. The preoperculum is provided with a strong spine that commonly becomes entangled in nets. About 130 species are included in this family. Some of the species are regularly maintained in home aquaria, especially members of the genus *Synchiropus*. Sexual dimorphism in the form of the size and shape of the spinous dorsal fin and coloration is present.

Gobies and Their Relatives (Plates 429, 457-495)

Seven families make up the suborder Gobioidae. These encompass some 263 genera that include almost 2,000 species, making it one of the most speciose groups of fishes. Some workers are of the opinion that the gobies should have full ordinal status; others relegate many of the families to subfamilies of the family Gobiidae. These are benthic fishes that usually are quite small, although some species reach 30 cm in length.

The sleepers (family Eleotrididae) are gobies of marine, brackish, and fresh waters of most

tropical and subtropical areas. The pelvic fins are separate and do not form a sucking disc. However, the bases of these fins may be united and the variation in degree of fusion is uninterfered leaves a question as to the advisability of keeping the alveolus separate from the "true" gubias. This discussion will probably go on for some time. There are two dorsal fins, the first with up to 8 spines. The mouth is never inferior in position. Only about 120 species are included in this family, including such genera as *Dorsalatus* and *Elanus*. Some species are kept in captivity, although most are not very colorful.

The true gobies (family Gobiidae) are tropical to subtropical fishes of marine, fresh, and brackish waters around the world. The pelvic fins are united, forming a sucking disc. There are two separate dorsal fins, the first composed of up to 8 flexible spines. About 1,500 species in 200 genera make this the most speciose family of marine fishes. Most species are less than 10 cm long, although some may grow to 30 cm. Gobies have intruded themselves into many different niches and may be seen in virtually every habitat. Some are able to live for extended periods out of water, retaining only to wet down their gill chambers. Others are parasite pickers, the most well-known of these being the Neon Goby, *Gobionema neonema*. Still others have developed symbiotic relationships with various invertebrate animals, among which are sponges, corals, sea urchins, and of course the burrowing shrimp. Coloration ranges from drab, cryptic patterns to brilliant, almost iridescent colors such as the red-orange and electric blue Catalina Goby, *Lytobrycon dem*, from the West Coast and members of the genera *Nemateleosteo* and *Ptereleotris* from the Indo-Pacific.

The eel-like gobies (family Gobioididae) occur in marine, fresh, and brackish waters of the Indo-Pacific, tropical America, and the tropical West African coast. The body is eel-like, the dorsal and anal fins confluent or nearly so with the caudal. The pelvic fins usually form an adhesive disc.

The burrowing gobies (family Trypanorhynchidae) are marine, brackish, and freshwater fishes from the Indo-Pacific region. They have an eel-like body with the continuous dorsal and anal fins confluent or nearly so with the caudal. The pelvic fins usually form an adhesive disc. The eyes are very small. These shallow-water gobies burrow into the soft muddy substrate.

The wormfishes (family Microgobinidae) occur in marine tropical waters. The body is very elongate to eel-like with small, embedded scales. The lower jaw is protruding. The dorsal fin is continuous but not united with the caudal fin. Terrestrial individuals of *Microgobius* and *Gambusia* type turn up in the aquarium trade.

Surgeonfishes (Plates 496-509)

The surgeonfishes (family Acanthuridae) are strictly marine fishes from all tropical areas. They are compressed, usually deep-bodied fishes with a continuous dorsal fin. Two subfamilies are currently recognized. The Acanthurinae contains all the species in the family save one. They are normally characterized by one or more spines or scapel-like blades along the caudal peduncle that gave rise to their common name. Most species are found in reef habitats where they form aggregations browsing on the surface of the corals, substrate, or whatever. Many species are quite colorful, and several species are commonly found in the aquarium trade. Species of *Acanthurus*, *Paracanthurus*, and *Zoexilus* are popular members of the disc-shaped group, while some species of *Naso* with their protuberances on the frontal region are also popular. The second subfamily, Zonetrinae, the Maurish Idol, has commonly been regarded as a separate family (and many ichthyologists still regard the single species included—*Zonotus naseorum*—as such). This species not only has an attractive color pattern but a pleasing shape as well and frequently has been used (along with the sea-horse) as a decorative motif.

Rabbitfishes (Plates 510-513)

The rabbitfishes (family Siganidae) are marine fishes from the Indo-Pacific region. The body is compressed and generally oval in shape. The dorsal fin is continuous and provided with 13 strong spines and ten soft rays; the anal fin has seven spines and nine soft rays, and the pelvic fins each have two spines (very unusual) and three soft rays. All the spines are grooved and associated with venom glands so that skin wounds are very painful and slow to heal. Of the two genera, *Lo* provides the aquarium trade with just about as many species as *Siganus* even though it is a much smaller genus.

Tunas, Mackerels, Billfishes, and Their Relatives (Plates 514–517)

Seven families make up the suborder Scombroidei, which includes some of the world's largest swimming fishes. Most are pelagic species, and some are found in deep oceanic waters. Altogether there are about 140 species included in 45 genera. None of the species are regularly in the aquarium trade, although many are seen in public aquariums in the larger tanks.

The snake mackerels (family *Gempylidae*) are tropical to temperate marine fishes often found at depths to 2000 feet or more. The body is elongate and compressed, and the dorsal and anal fins are usually followed by isolated finlets. A forked caudal fin is present, but the pelvic fins are reduced or absent. Strong teeth are usually present in the jaws. About 22 species comprise this family.

The cutlassfishes (family *Trichiuridae*) also have a very elongate, very compressed body. The caudal fin may be small or absent and the pelvic fins are reduced. No finlets are present. The jaws are usually provided with lang-like teeth. About 17 species are included in this family. Cutlassfishes are good swimmers that usually stay near the bottom.

The largest family by far is the *Scombridae*, which includes the mackerels and tunas. About fifteen genera contain about 50 species. These streamlined fishes have two dorsal fins and detached finlets behind both the dorsal and anal fins. The caudal peduncle is tapering and is provided with two keels. The tunas and mackerels are fast swimming fishes that are highly migratory in food and sport fishes around the world. They are mainly schooling fishes of the open seas. Most are bluish to greenish on the back shading to silvery or white ventrally, making them very difficult to see.

The swordfish (*Xiphus gladius*, family *Xiphiidae*) has the premaxillae and nasal bones prolonged to form the sword. The pelvic fins and girdle are absent, and there is a single median keel on the peduncle of adults. The dorsal fin is short-based but high, and there is a single finlet posteriorly above and below on the caudal peduncle. Scales and jaw teeth are absent.

The billfishes (family *Istiophoridae*) are similar in aspect to the swordfish but have scales and jaw teeth as well as pelvic fins. The caudal peduncle has two keels on each side. The dorsal fin is long-based and in the sailfishes is sail-shaped and higher than the body depth. In the spearfishes it is not sail-like and is about as high as the body depth while, in the marlins it is not sail-like and is not so high as the body depth. All these fishes are big-game fishes of tournament, their fighting abilities legendary.

Driftfishes, Butterfishes, and Medusafishes (Plate 518)

Medusafishes (family *Ceratophoridae*) are marine fishes of tropical and temperate seas. The dorsal fin is continuous, the spines weakly developed and graduating into the soft rays or stout and noticeably stouter than the soft rays. Seven genera are included with about 22 species.

The driftfishes (family *Nemertidae*) are marine fishes of tropical and subtropical seas. There are two dorsal fins and well developed pelvic fins. Most notable of the 13 species of this family is the small brightly colored Man-o-war Fish (*Nemertus grunnius*), which can be seen swimming unharmed among the stinging tentacles of the jellyfish-like Man-o-war (*Physalia*). Attempts to keep both the fish and the invertebrate in aquaria have usually met with failure.

The butterfishes (family *Stromateidae*) are marine coastal fishes of North and South America, western Africa, and southern Asia. The dorsal fin is continuous, usually taller anteriorly, and the body is deep and compressed. Adults lack pelvic fins. Only three genera with about a dozen species are included in this family. These schooling fishes are good eating and larger ones are harvested commercially.

Flatfishes (Plates 519–525)

The six families of flatfishes are included in the order Pleuronectiformes. All of these fishes are quite distinctive in that the eyes both migrate to one side of the head and only that side becomes fully pigmented. The fishes lie on their uncolored side on the bottom substrate, usually nearly invisible by virtue of their coloration and pattern (which can be mod-

(feed within limits) and because they partially cover themselves with the substrate. The pelagic larvae are bilaterally symmetrical and colorless. One eye (which one depends upon the species involved) migrates toward the one on the opposite side for either going around the side of the fish or in some cases passing through it. As this is happening the colors start to become evident on one side and the fish takes up a bottom-living existence. Most flatfishes are carnivorous, their camouflage hiding them from potential prey animals. Many species are commercially valuable, for example the halibuts that may attain lengths of up to 3 m. The flatfishes include such well known fishes as the flounders, soles, halibuts, plaice, and tonguefishes.

The family Psettodidae is a small family of only one genus with two species from the Indo-Pacific and West Africa. The eyes may be either sinistral (left-sided) or dextral (right-sided). The pelvic fins are symmetrical, and the mouth is large. This family is by itself in a suborder because the dorsal fin does not extend onto the head, the anterior dorsal rays are spinous, and the palatine is toothed. The pelvic fins are nearly symmetrical and are each provided with a spine and five soft rays.

In the suborder Pleuronectoidei the dorsal fin extends onto the head at least to the eyes, the dorsal and anal fins are without spines, and the palatine is toothless. Three families, Citharidae, Bothidae, and Pleuronectidae, are included.

The Citharidae is a small family of five species included in four genera occurring in the Indo-West Pacific and the Mediterranean. The pelvic fins have a spine and five soft rays and their bases are short; the branchiostegal membranes are separated from each other. In one subfamily the eyes are sinistral while in the other they are dextral.

The lefteye flounders (family Bothidae) occur in the Atlantic, Pacific, and Indian Oceans. The eyes are sinistral and the pelvic fins are spineless. The eggs have a single oil globule in the yolk. The family is relatively large, with 87 genera and more than 200 species. Three subfamilies are presently admitted based partly on whether the pelvic fin bases are elongate (Scophthalminae), short and nearly symmetrical (Paralichthyinae), or the blind side base is shorter than that of the eyed side (Bothinae).

The righteye flounders (family Pleuronectidae) occur in the Arctic, Atlantic, and Pacific Oceans mostly in marine waters. No oil globule is seen in the yolk of the eggs. The 41 genera include some 100 species in four subfamilies. In the Paecllosetinae the dorsal fin origin is above the eyes, the pelvic fins are symmetrical, and the lateral line of the blind side is rudimentary. In the Samarinae the dorsal fin origin is in front of the eyes, the pelvic fins are symmetrical, and the lateral lines are well developed or rudimentary. The Rhombosoleninae have asymmetrical pelvic fins and the lateral lines are equally developed on blind and eyed sides. The Pleuronectinae have the dorsal fin origin above the eyes, symmetrical pelvic fins, and the lateral lines well developed on both sides.

The suborder Suborderi contains only two families (Cynoglossidae, Soleidae) where the pelvic fins are usually absent in the adults (the right one may be developed in some species), the mouth is small, and the jaws on the blind side are strongly curved and beaklike.

The tonguefishes (family Cynoglossidae) are mostly marine fishes from tropical and subtropical seas. The eyes are sinistral, the dorsal and anal fins are confluent with the pointed caudal fin, and normally only the left pelvic fin is developed. The pectoral fins are absent. The mouth is asymmetrical, and the eyes are normally very small and close together. More than 100 species are included in three genera. Two subfamilies are recognized in which the snout may be hooked (Cynoglossinae) or not (Symphurinae).

The soles (family Soleidae) are mostly marine fishes of tropical to temperate seas. The eyes are dextral. Some 117 species are included in 31 genera. Two subfamilies are recognized, the Achirinae and the Soleinae. The Achirinae are American in distribution and provide the freshwater soles of the aquarium trade. The dorsal and anal fins are free from the caudal and the right pelvic fin is joined to the anal fin. The Soleinae are mostly found from Europe to Japan and Australia. The dorsal and anal fins are free from or united with the caudal fin and the pelvic fins are free from the anal fin.

Puffers, Triggerfishes, Boxfishes, and Their Relatives (Plates 526–563)

The order Tetraodontiformes includes eight families of sometimes rather unusual fishes. The scales are often modified into spines, plates, or shields, and the gill openings are restricted. Many species are able to puff up around by use of the swim bladder or by grinding their jaws or pharyngeal teeth. Tetraodontiforms (sometimes also called plectognathi) are divided into eight families that include more than 300 species.

The spikefishes (family Triacanthodidae) are deep-water bottom fishes from the tropical and subtropical western Atlantic and Indo-Pacific regions. They have a relatively normal

dorsal fin divided into spines and soft rays, and the caudal fin is rounded to truncate.

The very similar triplespines (family Tripterygiidae) are more shallow water benthic fishes from the Indo-Pacific. They are readily distinguished from the species of the previous family by their forked caudal fin and higher number of dorsal and anal fin rays. There are only about 29 species of spikefishes and seven species of triplespines. Only one or two species are occasionally seen in the marine aquarium trade.

The leatherjackets (including the triggerfishes and filefishes) are members of the family Balistidae. These are marine fishes found around the world in tropical and subtropical waters. The body is covered with heavy scales giving them a leathery or very rough texture. The pelvic fins are absent and the first dorsal fin is provided with a trigger or locking mechanism. The upper jaw has two rows of protruding incisor-like teeth that can be formidable weapons in some species. The soft dorsal and anal fins are usually long-based. The 125 species are generally included in 42 genera. Two subfamilies (often regarded as separate families) are currently recognized. The triggerfishes (subfamily Balistinae) have three dorsal fin spines, plate-like scales in regular series, and all soft fins with branched rays. The jaw teeth are heavy and strong, more developed for crushing than for nibbling. Many aquarium fishes are found in this subfamily including perhaps the most prized marine species of all — the Clown Triggerfish (*Balistus zosterops*). The filefishes (subfamily Muraenichthinae) usually have only two dorsal spines, the second very small or even absent. The scales are small and in regular series but rough, giving the skin a prickly or bumpy feel. The soft dorsal, anal, and pectoral rays are all unbranched. The teeth in the jaws (three outer and two inner as compared with the four outer and three inner of the triggerfishes) are more developed for nibbling than for crushing. Many species of this subfamily have also found their way into the aquarium trade. One of the favorites is the Long-nosed Filefish, *Oxymonacanthus longirostris* with its orange spots on a bluish to greenish background.

The boxfishes (including the trunkfishes and cowfishes) belong to the family Dactyloidae. These are marine fishes from the tropical oceans of the world. The body is enclosed in a bony carapace that is commonly box-shaped but may be very angular and provided with sharp edges and long spines. There is no spinous dorsal fin. The Dns stick out from openings in the carapace to provide the major propulsion for these fishes. Some species are so slow they can be easily caught by hand. Some species are dangerous in marine tanks, for when they are upset they exude a toxic substance that can kill any living thing in the tank including themselves. Even so several species have become standard importations for home aquaria. One of the most popular is *Cottus ruber*, which, when young, is bright yellow with black spots.

The Three-toothed Puffer (family Triodontidae) is called that by virtue of the three fused teeth in the jaws. There is a small spiny dorsal fin in most specimens, and the dorsal and anal fins each have 11 rays. The single species occurs in the Indo-West Pacific.

The puffers (family Tetraodontidae) are mostly marine fishes (some freshwater species are known in the aquarium trade) of tropical and subtropical waters of the world. The body is without scales or with some prickles in the belly area. There are four fused teeth in the jaws. Some species of puffers produce toxic substances that are dangerous if eaten. Instances of death caused by improperly prepared puffers are reported each year in Japan, where they regularly are eaten. The puffers have the ability to inflate themselves with water or air depending on where they are into a balloon-like shape when disturbed, a defense mechanism apparently helping to prevent them from being eaten. When left to their own devices they eventually return to their previous shape and beat a hasty retreat. Most of the aquarium puffers come from the genus *Ctenopoma*. Several of these sharpnose puffers may be seen in any well stocked marine aquarium store.

The porcupinefishes (family Diodontidae) are also distributed worldwide in tropical seas. No freshwater or brackish water species are known. They are similar to the puffers but the body is covered with well developed spines. In some species the spines are permanently erected, in other they become erect only when the fish is inflated. There are two fused teeth in the jaws. Porcupinefishes are not as popular as the puffers but may occasionally be seen in dealers' tanks.

Finally, the moles (family Molidae) are marine-tropical and subtropical fishes from around the world. They are sometimes called headfish as they seem to be composed almost entirely of a very large head. There is no swim bladder, no pelvic fins, no caudal peduncle, and the caudal fin may be absent as well. There are two fused teeth in the jaws. The dorsal and anal fins are set well back and provide the locomotors thrust. The young swim upright like most fishes, but the giant adults are more apt to spend their time floating or feebly swimming on their side. The largest species, *Mola mola*, may grow to 3 m and 270 kilos. It is also very fecund, producing up to 300 million eggs.

3rd Edition Supplemental Index

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Dr. Burgess's **ATLAS** of
MARINE AQUARIUM
THIRD EDITION
Fishes



Dr. Warren E. Burgess • Dr. Herbert R. Axelrod • Raymond E. Hunziker III

Here is a new edition of a marine fish book—a truly beautiful and immensely colorful book—that satisfies the long-existing need for a comprehensive identification guide to marine fishes. This book shows in full color not only the popular aquarium fishes but also the oddballs and weirdos, the large seaquarium-type fishes, both warmwater and coldwater fishes, as well as both foreign and domestic fishes. In short, this book has it all and has it in a format that will provide maximum utility to its readers: the fishes are grouped family by family in phylogenetic order—sharks and rays first, puffers and boxfishes last.

The photos were taken predominantly by world-class fish photographers. Most photos are eight-to-the-page, but some of the most beautiful marine fishes are represented in full-page, full-color splendor.

Not only does this book supply photos provided with up-to-date scientific names, but almost all of the captions indicate the family, range, size, and optimum aquarium conditions as well. Also included in this book are family-by-family write-ups on the aquarium care of these fishes.

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