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## AN ANNOTATED CHECKLIST OF THE SPECIES OF THE LABROID FISH FAMILIES LABRIDAE AND SCARIDAE

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### ABSTRACT

Parenti, Paolo and John E. Randall. 2000. An annotated checklist of the species of the Labroid fish families Labridae and Scaridae. *Ichthyological Bulletin of the J.L.B. Smith Institute of Ichthyology*, No. 68, 97 pages.

An annotated checklist of the species of the fish families Labridae and Scaridae is presented; 541 valid species are recognized, including 68 genera and 453 species of labrids and 10 genera and 88 species of scarids. Thirty undescribed species of wrasses and two undescribed parrotfish species are also included. A list of nominal species is given, with their present assignments; nominal species of uncertain status are placed as *incertae sedis* and listed separately. A list of *nomina nuda* is also provided. The valid genera and species are listed alphabetically, with their synonyms and distributions. Examination of the original descriptions and type material (when extant) of previously unplaced nominal species of labroid fishes led to identification of 69 new synonyms. The generic names *Artisia* de Beaufort, 1939 and *Emmeekia* Jordan & Evermann, 1896 are here recognized as new synonyms of *Halichoeres* Rüppell, 1835.

For the Labridae, 65 new synonyms of valid species are listed. *Labrus psittaculus* Richardson, 1840, a valid species of *Pseudolabrus*, is a primary homonym of *Labrus psittaculus* Lacepède, 1801; the next available name for this species is *Labrichthys rubicunda* Macleay, 1881 and the new combination *Pseudolabrus rubicundus* is proposed. The following new combinations are included: *Pseudojulis inornatus* Gilbert, 1890 is a valid species of *Pseudojuloides*; *Xyrichtys perlas* Wellington et al., 1994 is a valid species of *Novaculichthys*. For Scaridae, *Sparus abildgaardi* Bloch, 1791 is a senior synonym of *Sparisoma chrysopterum* (Bloch & Schneider, 1801), but a request of the International Commission has been made to reject *abildgaardi* in order to conserve *S. chrysopterum*; and *Scarus visayanus* Herre, 1933 is a new synonym of *Scarus tricolor* Bleeker, 1847. *Pseudoscarus microcheilos* Bleeker, 1861 is a synonym of *Chlorurus strongylocephalus* (Bleeker, 1854).

## Figure 1

### INTRODUCTION

Checklists of species are invaluable tools in the fields of natural science. They serve to consolidate our level of knowledge and at the same time reveal areas in need of further investigation. They may take the form of listing species for a geographical area or a compilation of the species of a taxonomic unit such as a family.

Among the vertebrates, fishes represent a class whose genera and species continue to increase every year. Figure 1 shows the increase in the number of nominal species of Labridae since our system of classification began with Linnaeus (1758). Nelson (1994) estimated that the number of described fish species is approaching 70-80% of the total number expected in the world. The sudden rise in the discovery of new species of fishes beginning about 1960 is correlated principally with the widespread use of scuba gear and ichthyocides which enabled ichthyologists to collect specimens that are not readily taken by ordinary fishing methods. Also of importance has been the greater emphasis among ichthyologists in recent years to revise taxa, thus revealing undescribed species long residing unidentified or misidentified on museum shelves.

The valid genera and species in the following checklist of labroid fishes are arranged alphabetically. The family Odacidae is here omitted, as it was recently revised by Gomon and Paxton (1986). Although it is widely accepted that the Labridae, Scaridae and Odacidae represent a monophyletic assemblage, inclusion of these three families into a single family is still a topic of debate. It was first suggested by Gomon and Russell (1981), then proposed by Kaufman and Liem (1982) and followed by some authors (Stiassny & Jensen, 1987; Webb, 1990). Although the Labridae may represent a paraphyletic assemblage (Bellwood, 1994; Gomon, 1997), the conventional family classification is here adopted. Attempts to classify the Labridae and Scaridae into phylogenetically sound subfamilies and tribes have not been satisfactory. Monophyly has not been established for most of these taxa (Westneat, 1993; Nelson, 1994; Gomon, 1997).

We present a brief introduction of general morphology and habitat for each family of labroid

fishes. Each valid genus and species is accompanied by its synonyms. Details of subsequent designation of type species for the genera are given by Eschmeyer *et al.* (1997). The author Valenciennes in Cuvier & Valenciennes, 1839 and 1840 is abbreviated as Val., 1839 or 1840. Misidentifications are included only when a later author, upon noting that a misidentification is a new species, named it for the author who made the mis-identification. We have excluded the species named by Curtiss, who privately published in 1938 *A Short Zoology of Tahiti*, in which 116 new species of fishes were described. Fowler (1949: 127) referred to Curtiss as an untrained novice and placed those Curtiss names that he could recognize in synonymy. He added, "Such a proposal as this author seeks to impose on taxonomic ichthyology hardly invites consideration. However, I have given his references only with the thought of their ultimate disposal rather than they should ever arise to further confuse the nomenclature".

We also summarize the distribution of each species. Definitions are needed for the general terms used in these summaries. "Indo-Pacific" refers to the tropical and subtropical regions of the Indian Ocean and western and central Pacific. For the present checklist, this means that a fish is widespread throughout the region from the east coast of Africa to at least the islands of French Polynesia. Although the Red Sea, Hawaiian Islands, Pitcairn Group, and even remote Easter Island are part of the Indo-Pacific region, they are mentioned when included in the species distribution. Our use of "western Pacific" includes a broad distribution from southern Japan to at least the Great Barrier Reef or coast of Queensland. "Western Indian Ocean" implies a distribution along the coast of Africa from Somalia to Mozambique or South Africa, as well as the islands west of the southern tip of India. "East Indies" refers to the islands of New Guinea, Borneo, Indonesia, and the Philippines (and generally to the Solomon Islands to the east and the Nicobars and Andamans to the northwest, though these areas have not been well collected). If a species' distribution extends from the East Indies to adjacent mainland areas of southeast Asia or northern Australia, the term "Indo-Malayan region" is employed. For many species, these summaries are approximations, as our knowledge of their distributions is still fragmentary.

DIVISION TELEOSTEI Müller, 1846  
ORDER PERCIFORMES Bleeker, 1859  
SUBORDER LABROIDEI Bleeker, 1859

**Family LABRIDAE Cuvier, 1816**  
(Wrasses)

Wrasses occur worldwide in tropical, subtropical, and temperate seas. Most species (82 %) are found in the Indo-Pacific region, with Australia having the largest labrid fish fauna (about 33% of the species and 70% of the genera). The species of Labridae vary greatly in shape, from slender to moderately deep-bodied, from long-snouted to short-snouted, and with caudal fins from rounded to lunate.

Characters that define the family are as follows: Mouth usually terminal, the jaws protractile, the maxilla not exposed when mouth is closed. Teeth in jaws usually conical and separate, those at front generally canines that often protrude; no teeth on roof of mouth except a few in some

species of *Bodianus*; pharyngeal bones united, typically with strong nodular to molariform teeth. Lips often thick. Scales cycloid, usually 24-80 in longitudinal series (species of *Hologymnosus* with more than 100 scale series); head never fully scaled; lateral line continuous or interrupted. Vertebrae usually 23-42. Dorsal fin continuous, without a notch between spinous and soft portions (though soft-rayed part may be higher), with 8-21 spines (usually fewer than 15) and 6-21 soft rays; anal fin with 2-6 spines (usually 3) and 7-18 rays. The species of Labridae vary greatly in size from 5 to 230 cm total length.

Wrasses are diurnal, and although most species bury in sand at night to sleep, many wrasses merely take shelter at night. Most species occur on shallow coral reefs or rocky bottom, though some species of *Bodianus*, *Polylepion* and *Decodon* are found in depths of 200 m or more. Razorfishes (*Xyrichtys* and *Cymolutes*) occur over open stretches of sand into which they dive with the approach of danger.

All labrids are carnivorous; most feed mainly on a variety of small and large invertebrates, especially hard-shelled molluscs and crustaceans, which they crush with their pharyngeal teeth. A few species prey primarily upon small fishes, while others such as species of *Cirrhilabrus*, *Paracheilinus* and *Pseudocoris* feed on zooplankton. The species of *Labroides* and the young of some others feed on crustacean ectoparasites and mucus of fishes. Adults of the species of *Labrichthys*, *Labropsis*, and *Diproctacanthus* feed mainly on coral polyps.

The colour pattern may differ dramatically from juvenile to adult and with sex. The reproductive biology involves sex reversal: adults in the initial stage are usually female and generally less colourful. Some species have both females and males in the drab initial phase. Many terminal males are territorial and maintain an harem of females with which they spawn individually. The majority of wrasses have pelagic eggs, but some temperate species build nests of seaweed.

## TAXONOMY

The Labridae is a very large family, third in number of species after Gobiidae and Serranidae. Nelson (1994) estimated the number of valid labrid species as 500 in about 60 genera. Our checklist includes 68 genera and 452 valid species (Fig. 1). An additional 29 undescribed species are also included by generic name. Doubtful genera and species are listed separately. Corrections are expected since some large genera such as *Coris* (under study by the second author), *Halichoeres* and *Xyrichtys* have not been revised. Examination of the original descriptions and type material of previously unplaced nominal species of labrid fishes led to identification of 65 new synonyms.

Although Russell (1980) identified six tribes, Hypsigenyini, Labrini, Cheilini, Labrichthyini, Julidini and Novaculini, only Cheilini (Westneat, 1993) and Hypsigenyini (Gomon, 1997) have been recognized as monophyletic. Cheilini includes ten genera grouped in two lineages: the genera *Cheilinus*, *Doratonotus*, *Epibulus*, *Oxycheilinus* and *Wetmorella* form the "cheiline" lineage, and the genera *Cirrhilabrus*, *Paracheilinus*, *Pseudocheilinus*, *Pseudocheilinos* and *Pteragogus* form the "pseudocheiline" lineage. Randall (1999a) recognises the two cheiline lineages as two distinct tribes: Cheilini and Cirrhilabrini, respectively. The Tribe Cirrhilabrini is

diagnosed and expanded to include the genus *Conniella*.

The tribe Hypsigenyini comprises at least eight genera: *Achoerodus*, *Bodianus*, *Choerodon*, *Clepticus*, *Decodon*, *Polylepion*, *Semicossyphus* and *Xiphocheilus* (Gomon, 1997). The position of *Anchichoerops* within the Hypsigenyini is regarded as provisional. Finally, monophyly has been demonstrated for the pseudolabrinés, a group of six labrid genera (*Austrolabrus*, *Dotalabrus*, *Eupetrichthys*, *Notolabrus*, *Pictilabrus* and *Pseudolabrus*) conventionally placed within the Julidini (Russell, 1988).

### **Genus *Acantholabrus*** Valenciennes

*Acantholabrus* Val., 1839: 242 (type-species, *Lutjanus exoletus* (not of Linnaeus) Risso, (= *Lutjanus palloni* Risso, 1810) by subsequent designation).

One species (Bauchot & Quignard, 1973).

#### ***Acantholabrus palloni*** (Risso)

*Lutjanus palloni* Risso, 1810: 263 (Nice, France).

*Labrus pallidus* Nardo, 1824b: 252 (Adriatic Sea).

*Acantholabrus imbricatus* Lowe, 1839: 86 (Madeira).

*Acantholabrus couchii* Val., 1839: 248 (Cornwall, England).

Remarks: there is no type material for *Labrus pallidus* Nardo; however the species is described with enough details to identify it as *Acantholabrus palloni*.

Distribution: Norway south to Cape Lopez, Gabon; Madeira, Azores, Canary Ids, and Mediterranean.

### **Genus *Achoerodus*** Gill

*Achoerodus* Gill, 1863: 222 (type-species, *Labrus gouldii* Richardson, by original designation).

*Heterochoerops* Steindachner, 1866d: 52 (type-species, *H. viridis* Steindachner, by monotypy).

*Platychoerops* Klunzinger, 1880: 399 (type-species, *P. muelleri* Klunzinger, by original designation, preoccupied by Charlesworth, 1855 in Mammalia [not replaced; reported as synonym by McCulloch, 1929]).

Two species (Gomon, 1997); southern Australia.

#### ***Achoerodus gouldii*** (Richardson)

*Labrus gouldii* Richardson, 1843b: 353 (Western Australia).

*Trochocopus unicolor* Günther, 1876: 398 (Sydney, New South Wales, Australia).

*Platychoerops muelleri* Klunzinger, 1880: 399 [75], pl. 8, fig. 2 ( King George Sound, Western Australia).

*Platychoerops badius* Ogilby, 1893: 134 (Port Jackson, New South Wales, Australia).

Distribution: South Australia to Lancelin, Western Australia.

### ***Achoerodus viridis*** (Steindachner)

*Heterochoerops viridis* Steindachner, 1866d: 52 (Port Jackson, New South Wales, Australia).

Distribution: Queensland to Victoria.

### **Genus *Ammolabrus*** Randall & Carlson

*Ammolabrus* Randall & Carlson, 1997: 30 (type-species, *A. dicrus* Randall & Carlson, by original designation).

One species.

### ***Ammolabrus dicrus*** Randall & Carlson

*Ammolabrus dicrus* Randall & Carlson, 1997: 32 (Oahu, Makaha, Hawaiian Ids).

Distribution: Hawaiian Ids.

### **Genus *Anampses*** Quoy & Gaimard

*Anampses* Quoy & Gaimard, 1824: 276 (type-species, *A. cuvier* Quoy & Gaimard, by monotypy).

*Pseudanampses*, Bleeker, 1862d: 101 (type-species, *Anampses pterophthalmus* Bleeker, by subsequent designation).

*Anampsodax* Bleeker, 1875: 82 (type-species, *A. lienardi* Bleeker [Appeared as "Gen? *Anampsodax Lienardi* Blkr"]).

*Ampheces* Jordan & Snyder, 1902: 628 (type-species, *Anampses geographicus* Valenciennes, by original designation).

Genus revised by Randall (1972); 13 species; Indo-Pacific.

### ***Anampses caeruleopunctatus*** Rüppell

*Anampses caeruleopunctatus* Rüppell, 1829: 42, pl. 10, fig. 1 (El Tur, Sinai coast, Egypt, Gulf of Suez).

*Anampses diadematus* Rüppell, 1835: 21, pl. 6, fig. 3 (El Tur, Sinai coast, Egypt, Gulf of Suez).

*Anampses lineolatus* Bennett, 1836: 208 (Mauritius).

*Anampses chlorostigma* Val., 1840: 9 (Red Sea).

*Anampses coeruleomaculatus* Günther, 1881: pl. 138 (error for *caeruleopunctatus*).

*Anampses taeniatus* Liénard in Sauvage, 1891: 457 (Mauritius).

*Anampses pulcher* Regan, 1913: 371, pl.58, fig. 3; pl. 59 (Easter Id, southeastern Pacific).

*Anampses tinkhami* Fowler, 1946: 162, fig. 30 (Aguni Shima, Ryukyu Ids, Japan).

Distribution: Indo-Pacific, including Red Sea, South Africa, Easter Id and Line Ids.

### ***Anampses chrysocephalus*** Randall

*Anampses chrysocephalus* Randall, 1958a: 100, fig. 3 (Oahu, Hawaiian Ids).

*Anampses rubrocaudatus* Randall, 1958a: 103, fig. 4 (Hawaiian Ids).

Distribution: Hawaiian Ids.

### ***Anampses cuvier*** Quoy & Gaimard

*Anampses cuvier* Quoy & Gaimard, 1824: 276, pl. 55, fig.1 ( Maui, Hawaiian Ids).

*Anampses godeffroyi* Günther, 1881: 252, pl. 140 (Hawaiian Ids).

*Anampses evermanni* Jenkins, 1901: 57, fig. 14 (Honolulu).

Distribution: Hawaiian Ids.

### ***Anampses elegans*** Ogilby

*Anampses elegans* Ogilby, 1889: 67 (Lord Howe Id).

*Anampses variolatus* Ogilby, 1889: 67 (Lord Howe Id).

Distribution: New Zealand, Lord Howe Id, and New South Wales, Australia.

### ***Anampses femininus*** Randall

*Anampses femininus* Randall, 1972: 176, pl. 3, figs. a-b (Hanga Piko, Easter Id, southeastern Pacific).

Distribution: Easter Id to New South Wales and southern Great Barrier Reef.

### ***Anampses geographicus*** Valenciennes

*Anampses geographicus* Val., 1840: 10, pl. 389 (Indian Ocean).

*Anampses pterophthalmus* Bleeker, 1857c: 81 (Ambon Id, Moluccas Ids, Indonesia).

*Anampesodax lienardi* Bleeker, 1875: 83 (Mauritius).

Distribution: Mauritius to Western Australia, western Pacific, Tonga, Fiji, and Caroline Ids.

### ***Anampses lennardi*** Scott

*Anampses lennardi* Scott, 1959: 86, fig. 6 (Point Samson, Western Australia, 20°38'S, 117° 12'E).

Distribution: northwestern Australia.

### ***Anampses lineatus*** Randall

*Anampses melanurus lineatus*, Randall, 1972: 172, fig. 7 (Eilat, Israel, Gulf of Aqaba).

Distribution: Red Sea and Indian Ocean to Indonesia.

### ***Anampses melanurus*** Bleeker

*Anampses melanurus* Bleeker, 1857c: 79 (Ambon Id, Moluccas Ids, Indonesia).

Distribution: South Africa and Japan to East Indies and French Polynesia.

### ***Anampses meleagrides*** Valenciennes

*Anampses meleagrides* Val., 1840: 12 (Mauritius).

*Anampses, amboinensis* Bleeker, 1857c: 80 (Ambon Id, Moluccas Ids, Indonesia).

*Anampses meleagris* Günther, 1862: 135 (unjustified emendation of *Anampses meleagrides* Valenciennes).

*Anampses lunatus* Sauvage (ex Liénard), 1891: 459 (Amboine; Zanzibar; Mauritius).

*Anampses ikedai* Tanaka, 1908: 32, pl. 1, fig. 2 (Kagoshima Pref., Japan).

*Anampses nagayoi* Tanaka, 1908: 34, pl. 1, fig. 3 (Kagoshima Pref., Japan).

Distribution: Red Sea to South Africa, Samoa and Caroline Ids.

### ***Anampses neoguinaicus*** Bleeker

*Anampses neoguinaicus* Bleeker, 1878: 57, pl. 3, fig. 4 (New Guinea).

*Anampses fidjensis* Sauvage, 1880: 224 (Fiji Ids).

Distribution: western Pacific to Fiji.

### ***Anampses twistii*** Bleeker

*Anampses twistii* Bleeker, 1856a: 56 (Ambon , Indonesia).



Distribution: Indo-Pacific, including Red Sea.

### ***Anampses viridis*** Valenciennes

*Anampses viridis* Val., 1840: (Mauritius).

*Anampses rubroviridis* Liénard in Sauvage, 1891: 458 (Mauritius).

Distribution: Mauritius.

### **Genus *Anchichoerops*** Barnard

*Anchichoerops* Barnard 1927: 746 (type-species, *Choerops natalensis* Gilchrist & Thompson, by monotypy).

One species.

### ***Anchichoerops natalensis*** (Gilchrist & Thompson)

*Choerops natalensis* Gilchrist & Thompson, 1909: 259 (Natal, South Africa).

Distribution: KwaZulu-Natal to Port St Johns, South Africa.

### **Genus *Austrolabrus*** Steindachner

*Austrolabrus* Steindachner, 1884: 1100 (type-species, *Labrichthys maculata* Macleay, by monotypy).

One species.

### ***Austrolabrus maculatus*** (Macleay)

*Labrichthys maculata* Macleay, 1881: 89 (King George Sound, Western Australia).

Distribution: southern Australia: central New South Wales and between Kangaroo Id and Shark Bay.,

### **Genus *Bodianus*** Bloch

*Bodianus* Bloch, 1790: 33 (type-species, *Bodianus bodianus* Bloch, by absolute tautonymy).

*Harpe* Lacepède, 1802: 426 (type-species, *Harpe caeruleoaurus* Lacepède, by monotypy).

*Diastodon* Bowdich, 1825: xii, 238 (type-species, *Diastodon speciosus* Bowdich, by monotypy).

*Cossyphus* Val., 1839: 102 (type-species, *Bodianus bodianus* Bloch, by subsequent designation; preoccupied by Olivier 1791 in Coleoptera and by Rafinesque 1815 and Dumont

1823 in Aves).

*Ronchifex* Gistel, 1848: viii (type-species, *Bodianus bodianus* Bloch, replacement name for *Cossyphus Valenciennes*).

*Lepidaplois* Gill, 1862: 140 (type-species, *Cossyphus axillaris* Valenciennes, by monotypy).

*Trochocopus* Günther, 1862: 100 (type-species, *Trochocopus opercularis* Günther, by monotypy).

*Cheiliopsis* Steindachner, 1863a: 1113 (type-species, *Cheiliopsis bivittatus* Steindachner, by monotypy).

*Euhypsocara* Gill, 1863: 222 (type-species, *Cossyphus anthioides* of Günther, by original designation).

*Gymnopropoma* Gill, 1863: 222 (type-species, *Labrus bilunulatus* Lacepède, by original designation).

*Verreo* Jordan & Snyder, 1902: 619 (type-species, *Cossyphus oxycephalus* Bleeker, by original designation).

*Verriculus* Jordan & Evermann, 1903: 191 (type-species, *V. sanguineus* Jordan & Evermann, by original designation).

*Chaeropsodes* Gilchrist & Thompson, 1909: 260 (type-species, *C. pictus* Gilchrist & Thompson, by monotypy).

*Pseudolepidaplois* Blanchot & Blanc, 1961: 53 (type-species, *P. pfaffi* Bauchot & Blanc, by monotypy).

The genus is currently under revision by M. Gomon; 38 species (6 undescribed) are listed here. Mostly Indo-Pacific; 2 species in eastern Pacific and 6 in Atlantic.

### ***Bodianus anthioides*** (Bennett)

*Crenilabrus anthioides*, Bennett, 1832a: 167 (Mauritius).

*Cossyphus zosterophorus* Bleeker, 1857c: 75 (Ambon Id, Moluccas Ids, Indonesia).

*Cossyphus boutoni* Liénard in Sauvage, 1891: 452 (Mauritius).

*Cossyphus bicolor* Liénard in Sauvage, 1891: 453 (Mauritius).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### ***Bodianus axillaris*** (Bennett)

*Labrus axillaris* Bennett, 1832a: 167 (Mauritius).

*Cossyphus axillaris* Val., 1839: 131, pl. 371 (Mauritius).

*Cossyphus octomaculatus* Liénard in Sauvage, 1891: 454 (Mauritius).

*Lepidaplois albomaculatus* Smith, 1957a: 101, fig. 1 (Mauritius).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### ***Bodianus bilunulatus*** (Lacepède)

*Labrus bilunulatus* Lacepède, 1801: 454, 526, pl. 31, fig. 2 (Great Equatorial Ocean [Mauritius]).

*Cossyphus albotaeniatus* Val., 1839: 141 (Hawaiian Ids).

*Crenilabrus modestus* Garrett, 1864: 106 (Honolulu fish market, Oahu Id, Hawaiian Ids).

*Lepidaplois strophodes* Jordan & Evermann, 1903: 103 (Honolulu, Oahu Id, Hawaiian Ids).

*Lepidaplois richardsoni* Fowler, 1908: 433, fig. 7 (Victoria, Australia).

*Lepidaplois atrorubens* Jordan [E.K.], 1925: 23, pl. 1, fig. 3 (Honolulu fish market, Oahu Id, Hawaiian Ids).

Distribution: Indo-Pacific. Three subspecies: *Bodianus bilunulatus albotaeniatus*: Hawaiian Ids; *Bodianus bilunulatus bilunulatus*: Indian Ocean and western Pacific; and *Bodianus bilunulatus* new subspecies, eastern central Pacific (M. Gomon, pers. comm.).

### ***Bodianus bimaculatus*** Allen

*Bodianus bimaculatus* Allen, 1973: 386, fig. 1 ( Bairakaseru Id, Ngemelis Ids, Palau Archipelago, Philippine Sea).

Distribution: South Africa, Mauritius and Maldives to western Pacific.

### ***Bodianus cylindriatus*** (Tanaka)

*Verreo cylindriatus* Tanaka, 1930: 941, pl. 187, fig. 513 (Tokyo fish market, Japan).

Distribution: Japan, Taiwan, New Caledonia, and northwestern Hawaiian Ids.

### ***Bodianus diana*** (Lacepède)

*Labrus diana* Lacepède, 1801: 450, 522, pl. 32, fig. 1 (Indo-Pacific Ocean).

*Cossyphus spilotes* Guichenot, 1865: 13 (Réunion Id).

*Lepidaplois aldabrensis* Smith, 1955: 932, pl. 24 (Aldabra Id).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia, Samoa and Marshall Ids.

### ***Bodianus diplotaenia*** (Gill)

*Harpe diplotaenia* Gill, 1862: 140 (Cape San Lucas, Baja California, Mexico).

*Harpe pectorallis* Gill, 1862: 141 (Cape San Lucas, Baja California, Mexico).

Distribution: Baja California to Peru; records from Chile are questionable (M. Protti, pers. comm.).

### ***Bodianus eclancheri*** (Valenciennes)

*Cossyphus eclancheri* Valenciennes, 1846:., pl. 8, fig. 2 (Galápagos Ids); the species name

dates to publication of the plate; the corresponding text was published later (Valenciennes, 1855: 340).

Distribution: Ecuador to Chile, Galápagos Ids.

***Bodianus frenchii*** (Klunzinger)

*Cossyphus frenchii* Klunzinger, 1880: 400 (King George Sound, Western Australia).

*Trochocopus rufus* Macleay, 1878b: 35, pl. 5, fig. 3 (King George Sound, Western Australia).

Distribution: southeastern and southwestern Australia.

***Bodianus insularis*** Gomon & Lubbock

*Bodianus insularis* Gomon & Lubbock, 1980: 106, figs. 1-3 (English Bay, Ascension Id).

Distribution: Ascension, St. Helena and St. Paul's Rocks.

***Bodianus izuensis*** Araga & Yoshino

*Bodianus izuensis* Araga & Yoshino in Masuda, Araga & Yoshino, 1975: 296, pl. 103, fig. G (off Izu Oceanic Park, Shizuoka Pref., Japan).

Distribution: Japan, Taiwan, New Caledonia, and eastern Australia.

***Bodianus leucosticticus*** (Bennett)

*Labrus leucosticticus* Bennett, 1832a: 166 (Mauritius).

*Lepidaplois bourbon* Fourmanoir & Guézé, 1961: 7, fig. 1 (Réunion Id).

Distribution: Madagascar, Mauritius, Réunion, Comores, Indonesia, Taiwan, and southern Japan.

Remarks: the specific name was misspelled as *leucostictus* by Smith (1957a), Randall (1986a), and Shen (1993).

***Bodianus loxozonus*** (Snyder)

*Lepidaplois loxozonus* Snyder, 1908: 95 (Okinawa, Japan).

*Lepidaplois trotteri* Fowler & Bean, 1923: 20 (Tuamotu Ids).

Distribution: two subspecies: *B. loxozonus*, *loxozonus*: western Pacific to Mariana and Marshall Ids, and *B. loxozonus trotteri* Line Ids to French Polynesia (Myers, 1989).

***Bodianus macrognathos*** (Morris)

*Lepidaplois macrognathos* Morris, 1974: 632, figs. 1-2 (off Kanyika Id, Kenya, 2°27'S, 40°52'E, 65 m.).

Distribution: Kenya and Oman.

***Bodianus macrourus*** (Lacepède)

*Labrus macrourus* Lacepède, 1801: 438, 493, pl. 9, fig. 3 (Indo-Pacific Ocean).

*Labrus hirsutus* Lacepède, 1801: 429, 473, pl. 20, fig. 1 (Great Gulf of India).

*Labrus rubrolineatus* Lacepède, 1801: 433, 480 (Madagascar and Réunion Id).

*Crenilabrus croceus* Lesson, 1828: 407 (Mauritius).

*Crenilabrus chabrolii* Lesson, 1830: 133, pl. 38 (Mauritius).

*Labrus spilonotus* Bennett, 1836: 207 (Mauritius).

*Cossyphus maldat* Val., 1839: 114 (Mauritius).

*Cossyphus macrurus* Günther, 1862: 104 (unjustified emendation of *Labrus macrourus*, Lacepède).

Distribution: western Indian Ocean.

***Bodianus masudai*** Araga & Yoshino

*Bodianus masudai*, Araga & Yoshino in Masuda, Araga & Yoshino, 1975: 297, pl. 103, fig. H (off Izu Oceanic Park, Shizuoka Pref., Japan).

Distribution: Japan, Taiwan, and New Caledonia.

***Bodianus mesothorax*** (Bloch & Schneider)

*Labrus mesothorax* Bloch & Schneider, 1801: 254 (East Indies).

*Scarus mordax* Gronow in Gray, 1854: 64 (Indian Ocean).

Distribution: western Pacific to Christmas Id (eastern Indian Ocean).

***Bodianus neilli*** (Day)

*Cossyphus neilli* Day, 1867b: 560 (Madras, India).

Distribution: India and Sri Lanka.

***Bodianus opercularis*** (Guichenot)

*Cossyphus opercularis* Guichenot, 1847: 283 (Madagascar).

*Trochocopus opercularis* Günther, 1862: 100 (Mauritius?).

*Cheiliopsis bivittatus* Steindachner, 1863a: 1113, pl. 24, fig. 1-1c (Mauritius).

Distribution: Red Sea and Indian Ocean to Indonesia.

### ***Bodianus oxycephalus*** (Bleeker)

*Cossyphus oxycephalus* Bleeker, 1862d: 129 (Japan).

Distribution: Japan.

### ***Bodianus perditio*** (Quoy & Gaimard)

*Labrus perditio* Quoy & Gaimard, 1834: 702, pl. 20, fig. 4 (Tongatabu, Tonga Ids).

*Cossyphus atrolumbus* Val., 1839: 123 (Mauritius).

*Trochocopus sanguinolentus* De Vis, 1883: 287 (Cape Moreton, Queensland, Australia).

*Cossyphus aurifer* De Vis, 1884: 146 (Moreton Bay, Queensland, Australia).

*Cossyphus latro* De Vis, 1885: 878 (Moreton Bay).

*Cossyphus nigromaculatus* Gilchrist & Thompson, 1908: 197 (off Durban harbor, South Africa).

*Chaeropsodes pictus* Gilchrist & Thompson, 1909: 260 (Durban market, South Africa).

Distribution: Indo-Pacific; anti-equatorial: southern Africa to the islands of southern Oceania and from Taiwan to southern Japan.

### ***Bodianus prognathus*** Lobel

*Bodianus prognathus* Lobel, 1981: 45, figs. 1-4 (Fanning Id, Line Ids).

Distribution: Line Ids, central Pacific.

### ***Bodianus pulchellus*** (Poey)

*Cossyphus pulchellus* Poey, 1860: 208 (Cuba).

*Harpe naevius* Eigenmann, 1894: 630 (Rio de Janeiro, Brazil).

Distribution: Bermuda, North Carolina to Florida, Gulf of Mexico, Caribbean and West Indies to Venezuela.

### ***Bodianus rufus*** (Linnaeus)

*Labrus rufus* Linnaeus, 1758: 284 (America).

*Bodianus bodianus* Bloch, 1790: 33, pl. 223 (Brazil).

*Lutjanus verres* Bloch, 1791: 9, pl. 255 ("Japan"; evidently erroneous).

*Sparus falcatus* Bloch, 1791: 20, pl. 258 (Martinique Id)

*Labrus semiruber* Lacepède, 1801: 428, 473 (Brazil).

*Bodianus blochii* Lacepède, 1802: 279, 287 (Brazil).

*Harpe caeruleoaurus* Lacepède, 1802: 426, 427, pl. 8, fig. 2 (Martinique Id, West Indies).

*Bodianus brachyrhynchus* Miranda-Ribeiro, 1918: 787 (Estado de Bahia, Brazil).

Distribution: Bermuda, North Carolina to Florida, Gulf of Mexico, Caribbean and West Indies to southern Brazil.

Remarks: *Bodianus brachyrhynchus* is a synonym according to Luiz Alves Rocha (pers. comm.).

### ***Bodianus sanguineus*** (Jordan & Evermann)

*Verriculus sanguineus* Jordan & Evermann, 1903: 191 (Hilo, Hawaiian Ids).

Distribution: Hawaiian Ids.

### ***Bodianus scrofa*** (Valenciennes)

*Labrus scrofa* Val., 1839: 93 (Cape Verde Ids and Madeira).

*Crenilabrus caninus* Lowe, 1839: 84 (off Madeira).

*Pseudolepidaplois pfaffi* Bauchot & Blanc, 1961: 54, fig. 4 (Santa Cruz, Tenerife, Canary Ids).

Distribution: eastern tropical Atlantic.

### ***Bodianus speciosus*** (Bowdich)

*Diastodon speciosus* Bowdich, 1825: 238, fig. 41 (St Jago Id, Madeira).

*Labrus iagonensis* Bowdich, 1825: 234, fig. 47 ( St Jago Id, Madeira and River Gambia, West Africa).

*Cossyphus tredecimspinosus* Günther, 1862: 107 (no locality).

*Cossyphus iagonensis* Troschel, 1866: 229 (emendation of *Labrus iagonensis* Bowdich).

Distribution: eastern tropical Atlantic.

### ***Bodianus tanyokidus*** Gomon & Madden

*Bodianus tanyokidus* Gomon & Madden, 1981: 122, figs. 2-3 (Mauritius).

Distribution: Comoro Ids, Mauritius, southern Japan, southern Marianas.

***Bodianus thoracotaeniatus*** Yamamoto

*Bodianus thoracotaeniatus* Yamamoto, in Amaoka et al., 1982: 245, pl. 170 (Kita Koho Seamount, Kyushu-Palau Ridge, W. Pacific, 26°45 'N, 135°22' E; 345 m).

Distribution: southern Japan and Taiwan.

***Bodianus trilineatus*** (Fowler)

*Lepidaplois trilineatus* Fowler, 1934: 492, fig. 47 (Natal coast, South Africa).

*Lepidaplois luteopunctatus* Smith, 1957a: 102, pl. 1, fig. A (off Delagoa Bay, Mozambique).

Distribution: Gulf of Aden to South Africa.

***Bodianus unimaculatus*** (Günther)

*Cossyphus unimaculatus* Günther, 1862: 109, 506 (Australia).

*Cossyphus bellis* Ramsay & Ogilby, 1887c: 561 (Shoalhaven, New South Wales, Australia).

Distribution: southeastern Australia, New Zealand, Lord Howe Id, and Norfolk Id to Easter Id.

***Bodianus vulpinus*** (Richardson)

*Cossyphus vulpinus* Richardson, 1850: 71 (Australia).

Distribution: western Australia.

***Bodianus* sp 1**

Distribution: Western Australia.

***Bodianus* sp 2**

Distribution: southeastern Australia and New Zealand.

***Bodianus* sp 3**

Distribution: New Caledonia and eastern Australia.

***Bodianus* sp 4**

Distribution: Cook Ids, Papua New Guinea, New Caledonia and Palau.



### ***Bodianus* sp 5**

Distribution: Hawaiian Ids.

### ***Bodianus* sp 6**

Distribution: Line Ids, central Pacific.

### **Genus *Centrolabrus* Günther**

*Centrolabrus* Günther, 1861: 303 (type-species, *Labrus exoletus* Linnaeus, by subsequent designation).

Three species; eastern Atlantic.

### ***Centrolabrus caeruleus* Azevedo**

*Centrolabrus caeruleus* Azevedo, 1999: 3, fig. 1, a-b (Ponta Delgada, São Miguel Id, Azores).

Distribution: Azores Ids.

### ***Centrolabrus exoletus* (Linnaeus)**

*Labrus exoletus* Linnaeus, 1758: 287 (Atlantic Ocean).

*Labrus chinensis* Linnaeus, 1758: 287 ("Asia" [probably Europe]).

*Labrus pentacanthus* Lacepède, 1801: 441, 503 (between Norway and Greenland).

*Crenilabrus microstoma* Thompson (ex Couch), 1837: 55 (Cornwall, England).

Distribution: northeastern Atlantic from Greenland and Norway to Portugal.

Remarks: synonymy from Bauchot (1963) and Bauchot and Quignard (1973). Lönnberg (1896) regarded *Labrus chinensis* as a synonym of *Labrus exoletus*. The diagnosis of *L. chinensis* is concise, but the anal-fin ray count of five spines in a total of 12 elements suggests that it may represent *C. exoletus*. Wheeler (1991: 178) examined the Linnean fish collection at Uppsala and concluded that the specimen labelled *Centrolabrus exoletus*, (ZIU 194) is apparently the type of *L. chinensis*. The type of *Labrus exoletus* is no longer extant. As stated by Wheeler, "if it became necessary in a revisionary study to designate a neotype for *L. exoletus*, it might be desirable to designate this specimen".

### ***Centrolabrus trutta* (Lowe)**

*Crenilabrus trutta* Lowe, 1834: 143 (off Madeira).

*Crenilabrus trutta* var. *unicolor* Lowe, 1838: 187 (Madeira).

*Acantholabrus viridis* Val., 1839: 252 (Canary Ids).

*Acantholabrus romeritus* Valenciennes, 1843: 64 (Canary Ids).

*Acantholabrus romerus* Valenciennes, 1843: 64 (Lanzarote, Canary Ids).

Distribution: Azores, Madeira, and Canary Ids.

Remarks: synonymy from Gomon and Forsyth (1990).

### **Genus *Cheilinus*** Lacepède

*Cheilinus* Lacepède, 1801: 529 (type-species, *Cheilinus trilobatus* Lacepède, by subsequent designation; *Chilinus* is a misspelling).

*Crassilabrus* Swainson, 1839: 172, 225 (type-species, *Cheilinus undulatus* Rüppell, by monotypy; proposed as subgenus).

*Thalliurus* Swainson, 1839: 230 (type-species, *Thalliurus blochii* Swainson, by monotypy; proposed as subgenus).

*Urichthys* Swainson, 1839: 172, 225 (type-species, *Labrus lunulatus* Forsskål, by subsequent designation; proposed as subgenus).

Seven species; Indo-Pacific. The genus is currently under revision by M.W. Westneat, J.E. Randall, and M.F. Gomon; synonymies should be considered provisional.

### ***Cheilinus abudjubbe*** (Rüppell)

*Cheilinus abudjubbe* Rüppell, 1835: 18 (Red Sea).

Distribution: Red Sea.

### ***Cheilinus chlorourus*** (Bloch)

*Sparus chlorourus* Bloch, 1791: 24, pl. 260 (Japan).

*Thalliurus blochii* Swainson, 1839: 230 (no locality).

*Cheilinus punctatus* Bennett, 1832a: 167 (Mauritius).

*Cheilinus punctulatus* Val., 1840: 87, pl. 396 (Seychelles).

*Cheilinus blochii* Val., 1840: 108 (Japan).

*Cheilinus guttatus* Bleeker, 1847: 161 (Jakarta, Indonesia).

*Cheilinus decacanthus* Bleeker, 1851b: 256 (Indonesia).

Distribution: Indo-Pacific, from South Africa to Japan, Australia and central Pacific.

### ***Cheilinus fasciatus*** (Bloch)

*Sparus fasciatus*, Bloch, 1791: 18, pl. 257 (Japan).

*Labrus enneacanthus* Lacepède, 1801: 433, 480 (no locality).

*Sparus bandatus* Perry, 1811: no page (Eastern Ocean).

*Cheilinus quinquecinctus* Rüppell, 1835: 19, pl. 6, fig. 1 (Jidda [Jeddah], Saudi Arabia, Red Sea).

Distribution: Red Sea to Mozambique, Samoa and Marshall Ids.

Remarks: *Sparus bandatus* is a synonym according to Whitley (1931b).

### ***Cheilinus lunulatus*** (Forsskål)

*Labrus lunulatus* Forsskål, 1775: 37 (Jeddah, Red Sea).

*Cheilinus lunifer* Nichols, 1923: 3, fig. 3 (Djibouti).

Distribution: Red Sea to Persian Gulf.

### ***Cheilinus oxycephalus*** (Bleeker)

*Cheilinus ketlitzii* Val., 1840: 105 (Ulea, Caroline Ids).

*Cheilinus sanguineus* Val., 1840: 106 (Ulea, Caroline Ids).

*Cheilinus oxycephalus* Bleeker, 1853h: 349 (Indonesia).

*Cheilinus calophthalmus* Playfair & Günther, 1867: 90, pl. 11, fig. 4 (Zanzibar).

Distribution: Indo-Pacific, from South Africa to Japan, Australia and central Pacific.

Remarks: *Cheilinus ketlitzii*, *Cheilinus sanguineus*, and *Cheilinus calophthalmus*, are new synonyms of *Cheilinus oxycephalus* (Mark Westneat, pers. comm.). Fowler (1928: 362) emended *Cheilinus ketlitzii* to *kitlitzii*, and regarded it as the valid name for the species presently known as *Oxychelinus celebicus* (Bleeker). Randall and Parenti (1999) proposed that *ketlitzii* and *sanguineus* be suppressed in order to conserve *oxycephalus*.

### ***Cheilinus trilobatus*** Lacepède

*Cheilinus trilobatus* Lacepède, 1801: 529, 537, pl. 31, fig. 3 (type localities, Réunion, Mauritius and Madagascar).

*Cheilinus trilobus* Schinz, in Cuvier, 1822: 427 (emendation of *Cheilinus trilobatus* Lacepède).

*Cheilinus sinuosus* Quoy & Gaimard, 1824: 278 (Madagascar, Hawaiian Ids and Mariana Ids).

*Cheilinus rivulatus* Val., 1840: 86 (New Ireland Id).

*Cheilinus festivus* Val., 1840: 104 (Oualan, Caroline Ids).

*Cheilinus maculosus* Val., 1840: 104 (Oualan Id).

*Cheilinus nebulosus* Richardson, 1846b: 261 (Sea of China).

*Cheilinus tetrazona* Bleeker, 1853c: 293 (Indonesia).

*Cheilinus fasciatopunctatus* Steindachner, 1863a: 1114, pl. 23 (Red Sea).

*Cheilinus pulchellus* Sauvage, 1880: 224 (Fiji Ids).

Distribution: Indo-Pacific, from South Africa to Japan, Australia and central Pacific.

Remarks: Daget (1968) discussed the status of *Cheilinus trilobus*.

### ***Cheilinus undulatus*** (Rüppell)

*Cheilinus undulatus* Rüppell, 1835: 20, pl. 6, fig. 2 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Cheilinus mertensii* Val., 1840: 102 (Guam, Mariana Ids).

*Chilinus godeffroyi* Günther, 1872a: 666, pl. 66 (Tonga Ids).

*Cheilinus rostratus* Cartier, 1874: 103 (Cebu, Philippines).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### **Genus *Cheilio*** Lacepède

*Cheilio* Lacepède, 1802: 432 (type-species, *C. auratus* Lacepède, by subsequent designation).

*Micropodus* Rafinesque, 1815: 86 (unneeded replacement name for *Cheilio* Lacepède).

*Eupemis* Swainson, 1839: 173, 232 (type-species, *Labrus fusiformis* Rüppell, by monotypy; proposed as subgenus of *Julis* on p. 173 and as subgenus of *Gomphosis* on p. 233).

One species.

### ***Cheilio inermis*** (Forsskål)

*Labrus inermis* Forsskål, 1775: 34 (Yemen, Red Sea).

*Labrus hassek* Lacepède, 1801: 444 513 (Arabia, *nomen novum*, for *Labrus inermis* Forsskål).

*Cheilio auratus* Lacepède, 1802: 432, 433 (Mauritius).

*Cheilio fuscus* Lacepède, 1802: 432, 433 (Mauritius).

*Labrus fusiformis* Rüppell, 1835: 7, pl. 1, fig. 4 (Jeddah, Saudi Arabia, and Massawa, Eritrea).

*Cheilio cyanochloris* Val., 1839: 346, pl. 382 (Mauritius).

*Cheilio forskalii* Val., 1839: 349 (Mauritius and Suez).

*Cheilio hemichrysos* Val., 1839: 351 (Hawaiian Ids).

*Cheilio viridis* Val., 1839: 352 (Vanikoro, Santa Cruz Ids).

*Cheilio microstoma* Val., 1839: 353 (no locality).

*Cheilio ramosus* Jenyns, 1842: 102 (Japan).

*Cheilio bicolor* Bianconi, 1857: 100 (Mozambique).

*Cheilio udanad* Montrouzier, 1857: 470 (Woodlark Id).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Hawaiian Ids, Australia and Easter Id.

Remarks: synonymy from Fowler (1928) de Beaufort (1940), and Bauchot (1963).

### **Genus *Choerodon*** Bleeker,

*Choerodon* Bleeker, 1849: 10 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Choerops* Rüppell, 1852: 20 (type-species, *Choerops meleagris* Rüppell, by monotypy).  
*Cossyphodes* Bleeker, 1860a: 37 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Hypsigenys* Günther, 1861: 383 (type-species, *Labrus macrodontus* Lacepède, by monotypy).  
*Torresia* Castelnau, 1875: 36 (type-species, *T. australis* Sauvage, by monotypy).  
*Lienardella* Fowler & Bean, 1928: 202 (type-species, *Lepidaplois mirabilis* Snyder, by original designation; proposed as a subgenus).  
*Macrochoerodon* Fowler & Bean, 1928: 200 (type-species, *Crenilabrus oligacanthus* Bleeker, by original designation).  
*Pealopesia* Smith, 1949: 370 (type-species, *Xiphochilus gymnogenys* Günther, by original designation).  
*Aspiurochilus* Fowler, 1956: 176 (type-species, *Crenilabrus stejnegeri* Ishikawa, by original designation; proposed as a subgenus).  
*Choerodonoides* Kamohara, 1958: 2 (type-species, *C. japonicus* Kamohara, by original designation).

Twenty-three species plus two undescribed species; Indo- Pacific. We follow Gomon (1974a) in placing *Lienardella* Fowler & Bean in synonymy. The genus is being revised by M.F. Gomon. Names and synonyms are provisional.

### ***Choerodon anchorago*** (Bloch)

*Sparus anchorago* Bloch, 1791: 108, pl. 276 ("Received from the Holland auction").  
*Labrus macrodontus* Lacepède, 1801: 451, 522 (no locality).  
*Cossyphus macrodon* Bleeker, 1849a: 10 (unjustified emendation of *Labrus macrodontus* Lacepède).  
*Choerops meleagris* Rüppell, 1852: 20 (Mare Javanicum,).  
*Labrus chlorodus* Gray, 1854: 80 (no locality).  
*Crenilabrus leucozona* Bleeker, 1858c: 238 (Indonesia).  
*Choerops maeander* Cartier, 1874: 102 (Cebu, Philippines).  
*Choerodon weberi* Ogilby, 1911: 52 (Aru Ids, Indonesia).

Distribution: Sri Lanka to Ryukyus, French Polynesia and New Caledonia.

### ***Choerodon azurio*** (Jordan & Snyder)

*Labrus japonicus* Val., 1839: 99 (Japan; preoccupied by *Labrus japonicus* Houttuyn, 1782 *nomen dubium*).  
*Choerops azurio* Jordan & Snyder, 1901: 747 *nomen novum* for *Labrus japonicus* Valenciennes.  
*Crenilabrus stejnegeri* Ishikawa, 1904: 13, pl. 6, fig. 2 (Miyako-jima, Ryukyu Ids, Japan).

Distribution: Taiwan, Japan.

Remarks: M.F. Gomon informed us that *Crenilabrus stejnegeri* is a synonym of *C. azurio*.

***Choerodon cauteroma*** Gomon & Allen

*Choerodon cauteroma* Gomon & Allen, 1987: 25 (Exmouth Gulf, Western Australia).

Distribution: western Australia.

***Choerodon cephalotes*** (Castelnau)

*Chaerops cephalotes* Castelnau, 1875: 39 (Queensland).

*Choerops perpulcher* De Vis, 1885: 877 (Queensland).

*Choerops macleayi* Ramsay & Ogilby, 1887: 241 (Port Jackson, New South Wales, Australia).

*Choerops hodgkinsonii* Saville-Kent, 1893: 296, 370, pl. 15, fig. 2 (Port Denison, Queensland, Australia).

Distribution: northern Australia.

***Choerodon cyanodus*** (Richardson)

*Labrus cyanodus*, Richardson, 1843b: 355 (Black Point, Port Essington, Queensland, Australia).

*Chaerops crassus* Castelnau, 1875: 39 (Dampier Archipelago, Western Australia).

*Choerops albigena* De Vis, 1885: 876 (Queensland).

*Choerops olivaceus* De Vis, 1885: 876 (Queensland).

*Choerops unimaculatus* De Vis, 1885: 877 (Great Barrier Reef; preoccupied by *Choerops unimaculatus* Cartier, 1874 [= *Choerodon schoenleinii* (Valenciennes)]).

?*Choerops concolor* De Vis, 1885: 878 (Queensland).

Distribution: Indonesia and north coast of Australia.

Remarks: Assignment of the De Vis names from M.F. Gomon (pers. comm.).

***Choerodon fasciatus*** (Günther)

*Xiphochilus fasciatus* Günther, 1867: 101, pl. 10 (Cape York, Queensland, Australia).

*Lepidaplois mirabilis* Snyder, 1908: 96 (Okinawa, Japan).

*Choerodon balerensis* Herre, 1950: 149 (Philippines).

Distribution: western Pacific.

Remarks: *Choerodon balerensis* is a synonym according to M.F. Gomon (pers. comm.).

***Choerodon frenatus*** Ogilby

*Choerodon frenatus* Ogilby, 1910b: 99 (north of Double Id Point, Queensland, Australia).

Distribution: northeastern Australia.

***Choerodon graphicus*** (De Vis)

*Choerops graphicus* De Vis, 1885: 878 (Queensland).

*Choerodon transversalis* Whitley, 1956: 258, fig. 7 (Heron Id, Capricorn Group, Queensland, Australia).

Distribution: New Caledonia, southern Great Barrier Reef.

***Choerodon gymnogenys*** (Playfair & Günther)

*Xiphochilus gymnogenys* Playfair & Günther, 1867: 85, pl. 12, fig. 4 (Zanzibar).

Distribution: Tanzania. Kenya? Mozambique?

***Choerodon jordani*** (Snyder)

*Choerops jordani* Snyder, 1908: 98 (Okinawa Id, Japan).

Distribution: western Pacific.

***Choerodon margaritiferus*** (Fowler & Bean)

*Choerodon margaritiferus* Fowler & Bean, 1928: 197 (Jolo market, Philippines).

Distribution: New Caledonia, Philippines.

***Choerodon melanostigma*** (Fowler & Bean)

*Choerodon melanostigma* Fowler & Bean, 1928: 199, pl. 16 (Jolo market, Philippines).

Distribution: Philippines; records from New Caledonia are misidentifications of *C. jordani*.

***Choerodon monostigma*** (Ogilby)

*Choerodon monostigma* Ogilby, 1910b: 102 (Queensland).

Distribution: northern Australia and New Guinea.

### ***Choerodon oligacanthus*** (Bleeker)

*Crenilabrus oligacanthus* Bleeker, 1851c: 489 (Rio [Rhio or Riouw], Indonesia).  
*Choerops palawanensis* Seale, 1910: 523 (Philippines).

Distribution: Indonesia, Philippines.

### ***Choerodon paynei*** Whitley

*Choerodon paynei* Whitley, 1945: 29, fig. 14 (Dirk Hartog Id, Western Australia).

Distribution: western Australia.

### ***Choerodon robustus*** (Günther)

*Xiphochilus robustus* Günther, 1862: 98 (Mauritius).  
*Cossyphus maxillosus* Guichenot, 1865: 23 (Réunion Id).  
*Choerops dodecacanthus* Bleeker, 1868: 275 (Réunion Id).  
*Choerodon pescadorensis* Yu, 1968: 10, fig. 4 (Pescadores Ids, Taiwan).

Distribution: Red Sea, Réunion, Mauritius, Taiwan, Japan.

Remarks: *Choerodon pescadorensis* Yu is a synonym (S.C. Shen, pers. comm.).

### ***Choerodon rubescens*** (Günther)

*Choerops rubescens* Günther, 1862: 97 (Houtman Abrolhos, Western Australia).

Distribution: western Australia.

### ***Choerodon schoenleinii*** (Valenciennes)

*Cossyphus schoenleinii* Val., 1839: 143 (Indonesia).  
*Cossyphus cyanostolus* Richardson, 1846b: 256 (China).  
*Cossyphus ommopterus* Richardson, 1846b: 257 (China).  
*Choerops unimaculatus* Cartier, 1874: 102 (Philippines).  
*Torresia australis* Castelnau, 1875: 36 (Queensland).  
*Torresia lineata* De Vis, 1885: 881 (Cardwell, Queensland).  
*Chaerops notatus* Alleyne & Macleay, 1877: 344, pl. 16, fig. 1 (Cape Grenville, Queensland, Australia).  
? *Choerops nyctemblema* Jordan & Evermann, 1902: 353, fig. 21 (Taiwan).  
*Choerodon rubidus* Scott, 1959: 89, fig. 7 (Shark Bay, Western Australia).  
*Choerodon quadrifasciatus* Yu, 1968: 11, fig. 5 (Taiwan).



Distribution: Okinawa to Indonesia and Australia.

Remarks: Synonymy from M.F. Gomon, (pers. comm.).

***Choerodon sugillatum*** Gomon

*Choerodon sugillatum* Gomon, 1987: 19 (Cape Bedford, Queensland, Australia).

Distribution: Queensland to northwestern Australia.

***Choerodon venustus*** (De Vis)

*Choerops venustus* De Vis, 1884: 147 (Moreton Bay, Queensland, Australia).

*Choerodon ambiguus* Ogilby, 1910b: 100 (Queensland).

Distribution: Great Barrier Reef to southeastern Australia.

Remarks: Synonymy from M.F. Gomon, (pers. comm.).

***Choerodon vitta*** (Ogilby)

*Choerodon vitta* Ogilby, 1910a: 13 (Aru Ids, Indonesia).

Distribution: Aru Ids, Papua New Guinea, and northern Australia.

***Choerodon zamboangae*** (Seale & Bean)

*Choerops zamboangae* Seale & Bean, 1907: 236, fig. 6 (Zamboanga, Philippines).

Distribution: West Pacific.

***Choerodon zosterophorus*** (Bleeker)

*Choerops zosterophorus* Bleeker, 1868: 273, pl. 12, top fig. (Great Kai Id, Indonesia).

*Choerops brenchleyi* Günther, 1872b: 424 (Indonesia).

Distribution: East Indies.

**Genus *Cirrhilabrus*** Temminck & Schlegel

*Cirrhilabrus* Temminck & Schlegel, 1845: 167 (type-species, *Cirrhilabrus temminckii* Bleeker, by subsequent designation).

*Cheilinooides* Bleeker, 1851a: 71 (type-species, *Cheilinooides cyanopleura* Bleeker, by monotypy).

*Cirrhilabrichthys* Klausewitz, 1976: 12 (type-species, *C. filamentosus* Klausewitz, by original designation).

*Neocirrhilabrus* Cheng & Wang, 1979: 73 (type-species, *N. oxyurus* Cheng & Wang, by original designation).

Thirty-six species and 5 undescribed species. Red Sea to Central Pacific.

### ***Cirrhilabrus adornatus*** Randall & Kunzmann

*Cirrhilabrus adornatus* Randall & Kunzmann, 1998: 41, figs. 1-4 (Pulau Ular, off Padang, Sumatra, Indonesia).

Distribution: Sumatra and Mentawai Ids.

### ***Cirrhilabrus aurantidorsalis*** Allen & Kuitert

*Cirrhilabrus aurantidorsalis* Allen & Kuitert, 1999: 134, figs. 1-3 (Batudaka Id., Togean Islands, Indonesia).

DISTRIBUTION>: Indonesia.

### ***Cirrhilabrus balteatus*** Randall

*Cirrhilabrus balteatus* Randall, 1988: 210, pls. 1, figs. c-d, 3, figs. d-f (Eniwetak Atoll, Marshall Ids).

Distribution: Marshall Ids.

### ***Cirrhilabrus blatteus*** Springer & Randall

*Cirrhilabrus blatteus* Springer & Randall, 1974: 48, figs. 2-3 (Eilat, Israel, Gulf of Aqaba, Red Sea).

Distribution: Red Sea.

### ***Cirrhilabrus condei*** Allen & Randall

*Cirrhilabrus condei* Allen & Randall, 1996: 102, figs. 1-2 (Rausch Pass, Madang, Papua New Guinea).

Distribution: Papua New Guinea and Great Barrier Reef.

### ***Cirrhilabrus cyanopleura*** (Bleeker)

*Cheilinoides cyanopleura* Bleeker, 1851a: 72, pl.1 (Batavia [Jakarta], Indonesia).

*Cirrhilabrus heterodon* Bleeker, 1871: 326, fig. 1 (Ambon Id, Moluccas Ids, Indonesia).

*Cirrhilabrus lyukyuensis* Ishikawa, 1904: 12, pl. 6, fig. 1 (Naha, Okinawa Id, Ryukyu Ids, Japan).

Distribution: western Indonesia to southern Japan.

Remarks: synonymy from Randall & Shen, 1978.

### ***Cirrhilabrus exquisitus*** Smith

*Cirrhilabrus exquisitus* Smith, 1957a: 109, fig. 4; pl. 2, fig. E (Pinda, Mozambique).

Distribution: Indo-Pacific.

### ***Cirrhilabrus filamentosus*** (Klausewitz)

*Cirrhilabrichthys filamentosus* Klausewitz, 1976: 12, figs. 1-3 (Java Sea, [aquarium import from Indonesia]).

Distribution: Indonesia.

### ***Cirrhilabrus flavidorsalis*** Randall & Carpenter

*Cirrhilabrus flavidorsalis* Randall & Carpenter, 1980: 21, figs. 1B, 7-8 (Monthage Id, Sulawesi, Indonesia).

Distribution: Philippines and Indonesia.

### ***Cirrhilabrus johnsoni*** Randall

*Cirrhilabrus johnsoni* Randall, 1988: 217, pl. 2, fig. c (Kwajalein Atoll, Marshall Ids).

Distribution: Marshall Ids.

### ***Cirrhilabrus jordani*** Snyder

*Cirrhilabrus jordani* Snyder, 1904: 529, pl. 10, fig. 18 (between Maui and Lanai islands, Hawaiian Ids).

Distribution: Hawaiian Ids.

***Cirrhilabrus katherinae*** Randall

*Cirrhilabrus katherinae* Randall, 1992a: 108, pl. 3 B,C (Igaya Bay, Miyake-jima, Izu Ids, Japan).

Distribution: Mariana Ids and Izu Ids.

***Cirrhilabrus kato*** Senou & Hirata

*Cirrhilabrus kato* Senou & Hirata, 2000: 89, fig. 1 (Hachijo-jima Id, Izu Ids, Japan).

Distribution: Izu Ids and Kashiwa-jima Id, Japan.

***Cirrhilabrus laboutei*** Randall & Lubbock

*Cirrhilabrus laboutei* Randall & Lubbock, 1982: 2, pl. 1, figs A-B (south of Nouméa, New Caledonia).

Distribution: New Caledonia, Loyalty Ids and Great Barrier Reef.

***Cirrhilabrus lanceolatus*** Randall & Masuda

*Cirrhilabrus lanceolatus* Randall & Masuda, 1991: 57, figs. 6-8 (Okinawa Id, Ryukyu Ids, Japan).

Distribution: Honshu to Ryukyu Ids.

***Cirrhilabrus lineatus*** Randall & Lubbock

*Cirrhilabrus lineatus* Randall & Lubbock, 1982: 6, pl. 1, fig. C ( Mato Pass, off southern end of New Caledonia).

Distribution: New Caledonia, Loyalty Ids, and Great Barrier Reef.

***Cirrhilabrus lubbocki*** Randall & Carpenter

*Cirrhilabrus lubbocki* Randall & Carpenter, 1980: 18, figs. 1A, 2-6 ( Mactan Id, Cebu Prov., Philippines).

Distribution: Philippines and Indonesia.

***Cirrhilabrus lunatus*** Randall & Masuda

*Cirrhilabrus lunatus* Randall & Masuda, 1991: 54, figs. 1-5 ( Sesoko Id, Okinawa Id, Ryukyu Ids, Japan).

Distribution: Ryukyu Ids and Ogasawara Ids.

***Cirrhilabrus luteovittatus*** Randall

*Cirrhilabrus luteovittatus* Randall, 1988: 203, pl. 1, figs. a-b; pl. 3, figs a-c (Enewetak Atoll, Marshall Ids).

Distribution: Caroline and Marshall Ids.

***Cirrhilabrus melanomarginatus*** Randall & Shen

*Cirrhilabrus melanomarginatus* Randall & Shen, 1978: 14, pl. 2B (Mao Pi Tou, Taiwan).  
*Neocirrhilabrus oxyurus* Cheng & Wang, 1979: 73 (China).

Distribution: Taiwan, Philippines, and South China Sea.

***Cirrhilabrus morrisoni*** Allen

*Cirrhilabrus morrisoni* Allen, 1999: 120, figs. 1-4 (Hiberia Reef, western Timor Sea off northwestern Australia).

Distribution: known only from the type locality.

***Cirrhilabrus punctatus*** Randall & Kuitert

*Cirrhilabrus punctatus* Randall & Kuitert, 1989: 44, figs. 1-7 (One Tree Id, Capricorn Group, Great Barrier Reef).

Distribution: New South Wales, Great Barrier Reef, Papua New Guinea, Lord Howe Id, Fiji, and Tonga.

***Cirrhilabrus pylei*** Allen & Randall

*Cirrhilabrus pylei* Allen & Randall, 1996: 105, figs. 3-4 (Milne Bay Prov., Papua New Guinea).

Distribution: Papua New Guinea.

***Cirrhilabrus randalli*** Allen

*Cirrhilabrus randalli* Allen, 1995a: 14, figs. 1-3 ( Mermaid Reef, Rowley Shoals, Western

Australia).

Distribution: northwestern Australia.

***Cirrhilabrus rhomboidalis*** Randall

*Cirrhilabrus rhomboidalis* Randall, 1988: 215, pl. 2, figs. a-b; pl. 3, fig. 8 ( Kwajalein Atoll, Marshall Ids).

Distribution: Marshall Ids.

***Cirrhilabrus roseafascia*** Randall & Lubbock

*Cirrhilabrus roseafascia* Randall & Lubbock, 1982: 9, pl. 1, fig. D (Bulari Pass, south of Nouméa, New Caledonia).

Distribution: New Caledonia.

***Cirrhilabrus rubrimarginatus*** Randall

*Cirrhilabrus rubrimarginatus* Randall, 1992a: 114, pl. 2 A-C (Sesoko Id, Okinawa Id, Ryukyu Ids, Japan).

Distribution: Ryukyu Ids to Vanuatu, Fiji, and Tonga.

***Cirrhilabrus rubripinnis*** Randall & Carpenter

*Cirrhilabrus rubripinnis* Randall & Carpenter, 1980: 23, figs, 9-10 (Caban Id, Batangas, Luzon Id, Philippines).

Distribution: Philippines and Kalimantan, Borneo.

***Cirrhilabrus rubrisquamis*** Randall & Emery

*Cirrhilabrus rubrisquamis* Randall & Emery, 1983: 21, fig. 1 (Peros Banhos Atoll, Chagos Archipelago).

Distribution: Chagos Archipelago and Maldive Ids.

***Cirrhilabrus rubriventralis*** Springer & Randall

*Cirrhilabrus rubriventralis* Springer & Randall, 1974: 52, figs. 4-5 (Elat, Israel, Gulf of Aqaba,

Red Sea).

Distribution: Red Sea to Oman and South Africa, with questionable records from Sri Lanka and Philippines (Randall, 1995a); Sumatra (R. H. Kuiter, pers. comm.).

***Cirrhilabrus sanguineus*** Cornic

*Cirrhilabrus sanguineus* Cornic, 1987: 140, fig. (Mauritius).

Distribution: Mauritius.

***Cirrhilabrus scottorum*** Randall & Pyle

*Cirrhilabrus scottorum* Randall & Pyle, 1989: 114, figs. 1-5 (Papara, Tahiti, Society Ids).

Distribution: Great Barrier Reef to Pitcairn Group.

***Cirrhilabrus solorensis*** Bleeker

*Cirrhilabrus solorensis* Bleeker, 1853f: 88 (Lawajong, Solor Id, Indonesia).

Distribution: Indonesia.

***Cirrhilabrus temminckii*** Bleeker

*Cirrhilabrus temminckii* Bleeker, 1853i: 17 (Nagasak).

Distribution: western Australia to southern Japan.

***Cirrhilabrus tonozukai*** Allen & Kuiter

*Cirrhilabrus tonozukai* Allen & Kuiter, 1999: 137, figs. 6-8 (Tumbak Id, Banggai Ids, Indonesia).

Distribution: Indonesia.

***Cirrhilabrus walindi*** Allen & Randall

*Cirrhilabrus walindi* Allen & Randall, 1996: 108, figs. 5-7 (New Britain Id, Bismarck Archipelago).

Distribution: Papua New Guinea and Solomon Ids.

***Cirrhilabrus* sp 1**

Distribution: Fiji.

***Cirrhilabrus* sp 2**

Distribution: Palau.

Remarks: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 3**

Distribution: Samoa.

Remarks: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 4**

Distribution: Cook Islands.

Remarks: to be described by J.R. Randall and R.L. Pyle.

***Cirrhilabrus* sp 5**

Distribution: New Caledonia, Santa Cruz Ids, and Solomon Ids.

Remarks: to be described by M.W. Westneat and J.T. Williams

**Genus *Clepticus* Cuvier**

*Clepticus* Cuvier, 1829: 261 (type-species, *Clepticus genizara* Cuvier, by monotypy).

Three species, two of which are undescribed (Ross Robertson, pers. comm.). Western and eastern Atlantic.

***Clepticus parrae* (Bloch & Schneider)**

*Brama parrae* Bloch & Schneider, 1801: 100 (Cuba).

*Clepticus genizara* Cuvier, 1829: 261 (Havana, Cuba).

Distribution: Bermuda and North Carolina to Gulf of Mexico, Caribbean, West Indies, to Brazil.

***Clepticus* sp 1**



Distribution: Brazil.

Remarks: to be described by Rodrigo Moura

### ***Clepticus* sp 2**

Remarks: a new species from São Tomé, Gulf of Guinea; to be described by Ross Roberston and John Heiser.

### **Genus *Conniella* Allen**

*Conniella* Allen, 1983: 44 (type-species, *Conniella apterygia* Allen, by original designation).

One species.

### ***Conniella apterygia* Allen**

*Conniella apterygia* Allen, 1983: 44, figs. 1-2 (Bedwell Id, Clerke Reef, Rowley Shoals, Western Australia).

Distribution: Rowley Shoals and Scott-Seringapatam Reefs, western Australia.

### **Genus *Coris* Lacepède**

*Coris* Lacepède (ex Commerson), 1801: 96 (type-species, *Coris aygula* Lacepède, by subsequent designation).

*Julis* Cuvier, 1814: 90 (type-species, *Labrus julis* Linnaeus, by absolute tautonymy).

*Aygula* Rafinesque, 1815: 87 (unneeded replacement for *Coris* Lacepède).

*Ichtycallus* Swainson, 1839: 173, 232 (type-species, *Julis semipunctatus* Rüppell, by subsequent designation, proposed as a subgenus).

*Neanis* Gistel, 1848: ix (type-species, *Labrus julis* Linnaeus, unneeded replacement for *Julis* "Lacep." [Cuvier, 1814]).

*Hemicoris* Bleeker, 1862: 411 (type-species, *Halichoeres variegatus* Rüppell, by original designation).

*Ctenocorissa* Whitley 1931a: 323 (type-species, *Labrus pictus* Bloch & Schneider, by original designation).

*Tiricoris* Whitley, 1955: 111 (type-species, *Cymolutes sandageri* Hector, by original designation).

Twenty-six species; Indo-Pacific species revised by Randall (1999); two eastern Atlantic species; 5 undescribed species in the Indo-Pacific region.

### ***Coris atlantica* Günther**

*Coris atlantica* Günther, 1862: 197 (Sierra Leone).

*Coris hupferi* Fischer, 1885: 73 (Nifao, Liberia).

*Coris guineensis* Bleeker, 1863: 31, pl. 5, fig. 2 (Guinea).

Distribution: tropical eastern Atlantic.

Remarks: *Coris atlantica* is a distinct species ranging from Cape Verde Islands to Liberia (A. Brito and P. Wirtz, pers. comm.). The species is readily confused with the sympatric *Coris julis*; it differs from *C. julis* in having longer pelvic fins, more suborbital pores, and configuration of the lateral-line tubules. Two specimens from São Tomé collected by Ross Robertson also show distinct colour variation. These specimens and colour photographs are deposited in the U.S. National Museum of Natural History.

### ***Coris auricularis*** (Valenciennes)

*Julis auricularis* Val., 1839: 489 (King George Sound, Western Australia).

Distribution: southwestern Australia.

### ***Coris aurilineata*** Randall & Kuiter

*Coris aurilineata* Randall & Kuiter, 1982: 164, pl. 1, fig. 1B-C, fig. 2 (Keppel Id, Queensland, Australia).

Distribution: New South Wales to Great Barrier Reef.

### ***Coris aygula*** Lacepède

*Coris aygula* Lacepède, 1801: 96, 97, pl. 4, fig. 1 (Mauritius).

*Coris angulatus* Lacepède, 1801: 96, 99, pl. 4 (no locality).

*Labrus cingulum* Lacepède, 1801: 448, 517, pl. 28, fig. 1 (Mauritius).

*Labrus aureomaculatus* Bennett J.W., 1830: pl. 20 (Sri Lanka).

*Julis ruppelii* Bennett, 1831: 128 (Gulf of Setic, Red Sea).

*Julis gibbifrons* Quoy & Gaimard, 1834: 707, pl. 19, fig. 3 (Mauritius).

*Julis semipunctatus* Rüppell, 1835: 12, pl. 3, fig. 3 (Mohila, Red Sea).

*Julis coris* Val., 1839: 491; *nomen novum* for *Coris aygula* Lacepède; preoccupied by *Julis coris* Lesson, 1828 [= *Thalassoma quinquevittatum* (Lay & Bennett, 1839)].

*Coris cyanea* Macleay, 1883a: 588 (New Guinea).

*Coris variegata* Ramsay & Ogilby, 1887a: 131 (Vanuatu).

*Coris imbris* Tanaka, 1918: 521, pl. 138, fig. 386 (Japan).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### ***Coris ballieui*** Vaillant & Sauvage

- Coris ballieui* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).  
*Coris (Hemicoris) rosea* Vaillant & Sauvage, 1875: 286 (Hawaiian Ids).  
*Coris argenteostriata* Steindachner, 1900: 176 (Honolulu).  
*Coris schauinslandii* Steindachner, 1900: 177 (Honolulu).  
*Hemicoris keleipionis* Jenkins, 1901: 51, fig. 6 (Honolulu).

Distribution: Hawaiian Ids.

### ***Coris batuensis*** (Bleeker)

- Julis (Halichoeres) batuensis* Bleeker, 1856f: 240 (Batu Ids, Indonesia).  
*Julis (Halichoeres) schroederii* Bleeker, 1858a: 3 (Ambon Id, Moluccas Ids, Indonesia).  
*Coris pallida* MacLeay, 1881: 100 (Queensland, Australia).  
*Coris papuensis* Macleay, 1883b: 275 (Papua New Guinea).  
*Coris coronata* De Vis, 1885: 883 (Queensland, Australia).  
*PlatyGLOSSUS punctatus* De Vis, 1885: 885 (Murray Id, Queensland, Australia).

Distribution: New South Wales to southern Japan and Ogasawara Ids, east to Micronesia, west to the Maldives and Chagos Archipelago.

### ***Coris bulbifrons*** Randall & Kuitert

- Coris bulbifrons* Randall & Kuitert, 1982: 168, pl. 2, figs. A-C; figs. 3-5 (Lord Howe Id, Australia).

Distribution: New South Wales, Lord Howe, Norfolk Id.

### ***Coris caudimacula*** (Quoy & Gaimard)

- Julis caudimacula* Quoy & Gaimard, 1834: 710, pl. 15, fig. 2 (Mauritius).  
*Halichoeres multicolor* Rüppell, 1835: 15, pl. 4, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

Distribution: Indian Ocean, Red Sea to South Africa, Indonesia and northwestern Australia.

### ***Coris centralis*** Randall

- Coris centralis* Randall, 1999b: 21, fig. 2; pls. 5C,D; 17D (Tabuaeran [Fanning Id], Line Islands).

DISTRIBUTION: Line Ids, central Pacific Ocean

### ***Coris cuvieri*** (Bennett)

*Julis cuvieri* Bennett, 1831: 128 (Mauritius).

*Julis stellatus* Val., 1839: 499 (Mauritius).

*Coris gaimard africana* Smith, 1957b: 119, Pls. 1A-2A; fig. 1 (Mahé, Seychelles).

Distribution: Indian Ocean: Red Sea to South Africa, Sri Lanka and all western Indian Ocean islands.

Remarks: *Coris gaimard africana* Smith was treated as *Coris africana* by Randall, 1992b, 1995.

### ***Coris debueni*** Randall

*Coris debueni* Randall, 1999b: 26, fig. 3; pls. 6 C,D; 7 A,B (Hanga Roa, west coast of Easter Id.).

Distribution: Easter Island.

### ***Coris dorsomacula*** Fowler

*Coris dorsomacula* Fowler, 1908: 436, fig. 8 (Victoria, Australia).

Distribution: western Pacific.

### ***Coris flavovittata*** (Bennett)

*Julis flavovittatus* Bennett, 1828b: 36 (Hawaiian Ids).

*Coris eydouxii* Val., 1839: 445 (Hawaiian Ids).

*Coris lepomis* Jenkins, 1901: 48, fig. 4 (Honolulu).

Distribution: Hawaiian Ids.

Remarks: the Philippines record of (Fowler and Bean, (1928) is based on a misidentification of *Coris pictoides*.

### ***Coris formosa*** (Bennett)

*Labrus formosus* Bennett J.W., 1830: pl. 16 (Sri Lanka). *Coris frerei* Playfair & Günther, 1867: 101, pl. 13 (Zanzibar).

*Coris halei* Day, 1888: 803 (Sri Lanka).

Distribution: Western Indian Ocean, Red Sea to South Africa and Sri Lanka.

REMARKS: *Labrus formosus* Shaw, 1803 was a subsequent reclassification of the species originally named *Sparus formosus* Shaw and Nodder, 1790, which is a synonym of *Labrus*

*mixtus* Linnaeus, 1758. Hence, *Labrus formosus* Bennett is not a homonym.

### ***Coris gaimard*** (Quoy & Gaimard)

*Julis gaimard* Quoy & Gaimard, 1824: 265, pl. 54, fig. 1 (Maui, Hawaiian Ids).

*Julis greenovii* Bennett, 1828b: 37 (Hawaiian Ids).

*Julis ganymede* Bennett J.W., 1830: pl. 16 (Sri Lanka).

*Julis (Julis) leucorhynchus* Bleeker, 1856b: 57 (Manado, Sulawesi [Celebes], Indonesia).

*Coris pulcherrima* Günther, 1862: 200 (Ambon, Indonesia).

*Coris greenoughii* Günther, 1861: 387 (emendation of *Julis greenovii* Bennett).

*Coris gaimard speciosa* Fowler, 1946: 171, fig. 37 (Aguni-Shima, Ryukyu Ids, Japan).

Distribution: Indo-Pacific, Christmas and Cocos-Keeling Ids (eastern Indian Ocean) to Japan, Australia, Hawaiian Ids, Society Ids and Tuamotus (but not the Marquesas where there is a closely related undescribed species).

Remarks: *Julis ganymede* Bennett 1830 is a new synonym of *Coris gaimard* (Eschmeyer & Pethiyagoda, 1996).

### ***Coris hewetti*** Randall

*Coris hewetti* Randall, 1999b: 43, figs. 4,5; pls. 10 C,D; 11A, 20 B-F (Anabo Bay, Nuku Hiva, Marquesas Ids.)

Distribution: Marquesas Ids.

### ***Coris julis*** (Linnaeus)

*Labrus julis* Linnaeus, 1758: 284 (Genoa, Italy).

*Labrus paroticus* Linnaeus, 1758: 284 (probably Mediterranean Sea).

*Labrus perdica* Forsskål 1775: 34 (Istanbul, Turkey).

*Labrus keslik* Lacepède 1801: 453, 523 (Istanbul, Turkey; unneeded replacement for *Labrus perdica* Forsskål).

*Labrus infuscus* Walbaum 1792: 249 (Mediterranean Sea).

*Labrus subfuscus* Bloch & Schneider 1801: 259 (Mediterranean Sea; preoccupied by *Labrus subfuscus* Walbaum, 1792 [= *Tautoga onitis* (Linnaeus, 1758)]).

*Labrus cettii* Rafinesque 1810b: 23, 54 (Sicily, Italy).

*Labrus giofredi* Risso, 1810: 228, pl. 9, fig. 23 (Nice).

*Julis mediterranea* Risso, 1827: 309 (Nice, France; *nomen novum* for *Labrus julis* Linnaeus)

*Julis speciosa* Risso, 1827: 309, 311, pl. 9, fig. 20 (Nice).

*Julis vulgaris* Fleming, 1828: 210 (Cornwall, England).

*Julis vulgaris* Val., 1839: 361, pl. 384 preoccupied by *Julis vulgaris* Fleming, 1828).

*Julis festiva* Val., 1839: 374 (Brest, France).

*Julis melanura* Lowe, 1839: 85 (Madeira).

*Coris (Hologymnosus) taeniatus* Steindachner, 1863b: 1189, pl. 2, fig. 1 ("Java" [probably

eastern Atlantic]).

*Julis azorensis* Fowler, 1919: 204, fig. 2 (Fayal Id, Azores).

Distribution: Eastern Atlantic from Sweden to Cape Lopez, Gabon, including the Azores, Madeira, Canary Ids, Mediterranean and southern Black Sea.

Remarks: Synonymy from Gomon and Forsyth (1990). *Julis vulgaris* Valenciennes is based on several specimens described by Rondelet, Salviani, Aldrovandi, Willughby and on *Labrus* n.7 of Artedi used by Linneaus to describe his *Labrus julis* (Bauchot, 1963: 75). *Labrus cettii* is a junior synonym according to Quignard (1966) and Tortonese (1970). *Labrus infuscus* Walbaum was described from the Mediterranean with D IX,12; P 13; A III,12; it is a new synonym of *Coris julis*. The two syntypes of *Coris taeniatus* were examined by the first author at the Naturhistorische Museum in Vienna and found to be *C. julis*; the locality "Java" given by Steindachner is obviously erroneous. The specimens may have been from a large collection made in the Canary Ids that came to the Museum at that time. The larger of the two syntypes, NMW 25675, 114 mm SL, is here designated as the lectotype, a decision made with the approval of the curator, Dr. Ernst Mikschi.

### ***Coris marquesensis*** Randall

*Coris marquesensis* Randall, 1999: 49, fig. 6; pls 11B-D; 20 G,H (Marquesienne Bay, Nuku Hiva, Marquesas Ids).

DISTRIBUTION: Marquesas Ids, South Pacific Ocean.

### ***Coris musume*** (Jordan & Snyder)

*Julis musume* Jordan & Snyder, 1904: 236, pl. 61 (Japan).

DISTRIBUTION: Southern Japan, Izu Ids and Taiwan.

### ***Coris nigrotaenia*** Mee & Hare

*Coris nigrotaenia* Mee & Hare, 1995: 247 (Oman).

Distribution: southern Oman.

### ***Coris picta*** (Bloch & Schneider)

*Labrus pictus* Bloch & Schneider, 1801: 251, pl. 55 (New South Wales, Australia).

*Coris semicineta* Ramsay, 1883: 301 (New South Wales).

Distribution: southeastern Australia, New Caledonia, Kermadec, Lord Howe, Norfolk and New

Zealand.

***Coris pictoides*** Randall & Kuitert

*Coris pictoides* Randall & Kuitert, 1982: 160, pl. 1, fig. A; fig. 1 (Bunut, Tioman Id, Malaysia).

Distribution: New South Wales to northwest Australia and Philippines.

***Coris roseoviridis*** Randall

*Coris roseoviridis* Randall, 1999b: 59, fig. 6; pls. 13 C,D; 14 A (Karapoto Iti Islet, Rapa).

Distribution: Pitcairn Ids, Mangareva, Rapa, Austral Ids, and Raratonga, Cook Ids.

***Coris sandageri*** (Hector)

*Cymolutes sandeyeri* Hector, 1884: 323 (Tiritiri Id, Auckland, New Zealand; incorrect original spelling)

*Coris rex* Ramsay & Ogilby, 1886: 851 (off Bondi, New South Wales, Australia).

*Cymolutes sandageri*: Sandager, 1888: 130 (emendation).

*Coris trimaculata* Ogilby, 1888: 992 (Norfolk Id).

Distribution: southeastern Australia and New Zealand.

Remarks: Hector (1884) stated that the specimen was "Collected by Mr. Sandeyer"; however this man's name was F.S. Sandager. Sandager (1888: 130) in a paper on fishes of Mokohinau Islands, lists *Cymolutes sandageri*, with information on its presence, abundance, spawning, but nothing on the name change. Hutton (1890: 282) followed Hector in using *sandeyeri*, but later, Thompson (1892), Phillips (1927), and Paulin et al. (1989) report *sandageri*. Phillips (1927) stated "sandeyeri" is obviously a misprint for "sandageri", the species being named after the lighthouse-keeper, Sandager". G.S. Hardy (1990: 11) reports "*Cymolutes sandeyeri* Hector, 1884: 323 = *Coris sandageri* (Hector, 1884)".

We have identified the only remaining syntype of *Coris trimaculata*, AMS I.1403, 92 mm SL, as a juvenile *Coris sandageri*.

***Coris variegata*** (Rüppell)

*Halichoeres variegatus* Rüppell, 1835: 14, pl. 4, fig. 2 (Massawa, Eritrea, Red Sea).

Distribution: Red Sea.

Remarks: *Coris variegata* is often wrongly used in the Indo-West Pacific for the very similar

*Coris batuensis*.

### ***Coris venusta*** Vaillant & Sauvage

*Coris (Hemicoris) venusta* Vaillant & Sauvage, 1875: 285 (Hawaiian Ids).  
*Hemicoris remediis* Jenkins, 1901: 49, fig. 5 (Honolulu).

Distribution: Hawaiian Ids.

### **Genus *Ctenolabrus*** Valenciennes

*Ctenolabrus* Val., 1839: 223 (type-species, *Labrus rupestris* Linnaeus, by subsequent designation).

*Cynaedus* Swainson, 1839: 229 (type-species, *Labrus rupestris*, by subsequent designation, proposed as a subgenus).

One species (Bauchot & Quignard, 1973).

### ***Ctenolabrus rupestris*** (Linnaeus)

?*Labrus suillus* Linnaeus, 1758: 285 (West Europe).

*Labrus rupestris* Linnaeus, 1758: 286 (no locality).

*Labrus bergsnyltrus* Lacepède, 1801: 439 (North Atlantic).

*Sparus carudse* Lacepède, 1802: 49, 148 (Norway).

*Labrus cinereus* Pallas, 1814: 267 (*Maris nigri*).

*Ctenolabrus marginatus* Val., 1839: 232 (France).

*Ctenolabrus acutus* Val., 1839: 235 (Malaga, Spain).

Distribution: Eastern Atlantic and Mediterranean.

Remarks: *Labrus suillus* is a probable synonym (Quignard, 1966). The combination *Ctenolabrus suillus* has been used by some authors (Jordan, 1890: 623; Lozano Rey, 1952: 448, pl. 37; Bauchot, 1963: 39; Costa, 1991).

### **Genus *Cymolutes*** Günther

*Cymolutes* Günther, 1861: 387 (type-species, *Julis praetextata* Quoy & Gaimard, by subsequent designation).

Previously considered a monotypic genus (Bauchot, 1963); 3 species are presently recognized (Randall, 1986a; Randall et al., 1990). Indo-Pacific.

### ***Cymolutes lecluse*** (Quoy & Gaimard)



*Xyrichthys lecluse* Quoy & Gaimard, 1824: 284, pl. 65, fig.1 (Hawaiian Ids).  
*Xyrichthys microlepidotus* Val., 1840: 52 (Hawaiian Ids).  
*Novacula (Novacula) microlepis* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).

Distribution: Hawaiian Ids.

### ***Cymolutes praetextatus*** (Quoy & Gaimard)

*Julis praetextata* Quoy & Gaimard, 1834: 712, pl. 15, fig. 4 (Mauritius).  
*Novacula xyrichthyoides* Bleeker, 1856g: 488 (East Indies).  
? *Julis kuelkuel* Montrouzier, 1857: 473 (Woodlark Id).

Distribution: Indo-Pacific.

### ***Cymolutes torquatus*** (Valenciennes)

*Xyrichthys torquatus* Val., 1840: 54, pl. 392 ("Suriname" [actually East Indies]).  
*Xyrichthys novaculoides* Bleeker, 1853a: 122 (Indonesia).  
*Cymolutes tateyamaensis* Sakamoto, 1930: 11, fig. 1 (Japan).

Distribution: Indo-Pacific.

### **Genus *Decodon*** Günther

*Decodon* Günther, 1861: 384 (type-species, *Cossyphus puellaris* Poey, by monotypy).  
*Pariolanthus* Smith, 1968: 343 (type-species, *Lepidaplois grandisquamis*, by original designation, proposed as a subgenus).

Four species (Randall, 1986a; Gomon, 1997). Atlantic, Indian and Pacific Oceans.

### ***Decodon grandisquamis*** (Smith)

*Lepidaplois (Pariolanthus) grandisquamis* Smith, 1968: 343, figs. 1-2 (off Ponte de Barra Falsa, Mozambique).

Distribution: western Indian Ocean.

### ***Decodon melasma*** Gomon

*Decodon melasma* Gomon, 1974b: 207, fig. 1 (3 mi. off Buena Vista, Gulf of California, Mexico).

Distribution: eastern Pacific.

***Decodon pacificus*** (Kamohara)

*Verreo pacificus* Kamohara, 1952: 54, fig. 51 (Mimase).

Distribution: Japan.

***Decodon puellaris*** (Poey)

*Cossyphus puellaris* Poey, 1860: 210 (Havana, Cuba).

Distribution: Bermuda, North Carolina to Florida, Gulf of Mexico, West Indies to Brazil.

**Genus *Diproctacanthus*** Bleeker

*Diproctacanthus* Bleeker, 1862a: 415 (type-species, *Labroides xanthurus* Bleeker, by original designation).

One species.

***Diproctacanthus xanthurus*** (Bleeker, 1856)

*Labroides xanthurus* Bleeker, 1856b: 52 (Indonesia).

Distribution: Indonesia, New Guinea, Philippines, Palau.

**Genus *Doratonotus*** Günther

*Doratonotus* Günther, 1862: 124 (type-species, *Doratonotus megalepis* Günther, by subsequent monotypy).

*Antonichthys* Bauchot & Blanc, 1961: 50 (type-species, *A. wetmorelloides* Bauchot & Blanc, by monotypy).

One species.

***Doratonotus megalepis*** Günther

*Doratonotus megalepis* Günther, 1862: 125 (St. Christopher, Leeward Ids, West Indies).

*Doratonotus thalassinus* Jordan & Gilbert, 1884: 28 (Key West, Florida, U.S.A.).

*Doratonotus decoris* Evermann & Marsh, 1899: 354 (Ponce, Puerto Rico).

*Doratonotus boekei* Metzelaar, 1919: 107, fig. 31 (Curaçao and Bonaire).

*Antonichthys wetmorelloides* Bauchot & Blanc, 1961: 50, fig. 3a-c (Rolas Id, São Tomé, eastern Atlantic).

Distribution: Bermuda, Florida to Venezuela; West Indies, and off São Tomé in the eastern Atlantic.

### **Genus *Dotalabrus* Whitley**

*Dotalabrus* Whitley, 1930: 251 (type-species, *Cheilinus aurantiacus* Castelnau, by original designation).

Two species (Russell, 1988); Australia.

### ***Dotalabrus alleni* Russell**

*Dotalabrus* sp. Allen, 1985: figs. 304-305 (Rottnest Id, Western Australia).

*Dotalabrus alleni* Russell, 1988: 10, fig. 2, pl. 1, c-d (Carnac Id, Cockburn Sound, Western Australia).

Distribution: southwestern Australia.

### ***Dotalabrus aurantiacus* (Castelnau)**

*Cheilinus aurantiacus* Castelnau, 1872b: 245 (Adelaide).

*Labrichthys elegans* Steindachner, 1883: 195 (St. Vincent Gulf, South Australia).

*Labrichthys macleayi* Herzenstein, 1896: 10 (St. Vincent Gulf, South Australia).

Distribution: southern and southwestern Australia.

### **Genus *Epibulus* Cuvier**

*Epibulus* Cuvier, 1815b: 111 (type-species, *Sparus insidiator* Pallas, by monotypy).

Two species (1 undescribed); Indo-Pacific.

### ***Epibulus insidiator* (Pallas)**

*Sparus insidiator* Pallas, 1770: 41, pl. 5, fig. 1 (Java, Indonesia).

*Epibulus insidiator* var. *flava* Bleeker, 1849a: 40 (Java).

*Epibulus insidiator* var. *fusca* Bleeker, 1849a: 40 (Java).

*Epibulus striatus* Day, 1871: 697 (Andaman Ids).

Distribution: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Hawaiian Ids.

### ***Epibulus* sp 1**

*Epibulus* sp. Myers, 1989: 180.

Distribution: Palau to Philippines.

Remarks: to be described by J.E. Randall and B.W. Carlson.

### **Genus *Eupetrichthys*** Ramsay & Ogilby

*Eupetrichthys* Ramsay & Ogilby, 1888: 631 (type-species, *E. angustipes* Ramsay & Ogilby, by monotypy).

One species.

### ***Eupetrichthys angustipes*** Ramsay & Ogilby

*Eupetrichthys angustipes* Ramsay & Ogilby, 1888: 632 (Rose Bay, Port Jackson, New South Wales, Australia).

Distribution: Southeastern and western Australia.

### **Genus *Frontilabrus*** Randall & Condé

*Frontilabrus* Randall & Condé, 1989: 90 (type-species, *F. caeruleus* Randall & Condé, by monotypy).

One species.

### ***Frontilabrus caeruleus*** Randall & Condé

*Frontilabrus caeruleus* Randall & Condé, 1989: 90, figs. 1-3 (Maldive Ids).

Distribution: Maldive Ids.

### **Genus *Gomphosus*** Lacepède

*Gomphosus* Lacepède, 1801: 100 (type-species, *Gomphosus caeruleus* Lacepède, by subsequent designation).

*Acarauna* Sevastianoff, 1802: 357, 364 (type-species, *Acarauna longirostris* Sevastianoff, by monotypy).

Two species (Randall, 1986a); Indo-Pacific.

### ***Gomphosus caeruleus*** (Lacepède)

- Gomphosus caeruleus* Lacepède, 1801: 100, 101, pl. 5, fig. 1 (Mauritius).  
*Acarauna longirostris* Sevestianoff, 1802: 359 (Brazil?; evidently erroneous).  
*Gomphosus fuscus* Bennett J.W., 1828: pl. 3 (Sri Lanka).  
*Gomphosus ornatus* Bennett, 1830: 690 (Indonesia).  
*Gomphosus viridis* Bennett J.W., 1830: pl. 30 (Sri Lanka; preoccupied by *Gomphosus viridis* Cuvier, 1829 [= *G. varius* Lacepède, 1801]).  
*Gomphosus melanotus* Bleeker, 1855d: 457 (Cocos-Keeling Ids, Indian Ocean).  
*Gomphosus caeruleus klunzingeri* Klausewitz, 1962: 12, pl. 1, fig. 3 (Al-Quseir [formerly Kosseir], Egypt, Red Sea).

Distribution: Indian Ocean, Red Sea to South Africa, Oman, Maldives, Chagos and Cocos-Keeling Ids. Two subspecies: *G. caeruleus caeruleus*, Indian Ocean, and *G. caeruleus klunzingeri*, Red Sea.

### ***Gomphosus varius*** (Lacepède)

- Gomphosus varius* Lacepède, 1801: 100, 105, pl. 5, fig. 2 (Tahiti, Society Ids).  
*Gomphosus tricolor* Quoy & Gaimard, 1824: 280, pl. 55, fig. 2 (Maui, Hawaiian Ids).  
*Gomphosus pectoralis* Quoy & Gaimard, 1824: 282 (Maui, Hawaiian Ids).  
*Gomphosus viridis* Cuvier, 1829: 261 (no locality given).  
*Gomphosus cepedianus* Val., 1840: 18 (Hawaiian Ids).  
*Gomphosus fuscus* Val., 1840: 25 (Mauritius).  
*Gomphosus nasutus* Parkinson in Cuvier & Valenciennes, 1840: 27 (Tahiti, Society Ids).  
*Gomphosus notostigma* Bleeker, 1862b: 304 (Java).  
*Gomphosus sandvicensis* Günther, 1862: 194 (Hawaiian Ids).  
*Gomphosus undulatus* Streets, 1877: 85 (Line Ids).  
*Gomphosus pacificus* Seale, 1901a: 94 (Guam).  
*Thalassoma stuckiae* Whitley, 1959: 19, fig. 7 (Nouméa, New Caledonia).

Distribution: eastern Indian Ocean to central Pacific, including Pitcairn Group.

### **Genus *Halichoeres*** Rüppell

- Halichoeres* Rüppell, 1835: (10) 14 (type-species, *H. bimaculatus* Rüppell, by subsequent designation).  
*PlatyGLOSSUS* Bleeker (ex Klein), 1862a: 411 (type-species, *Julis annulatis* Valenciennes, by original designation).  
*Hemijulis* Swainson, 1839: 173, 228 (type-species, *Labrus guttatus* Bloch, by subsequent designation).  
*Hemijulis* Bonaparte, 1841: punctata 156, fasc. 30 (incorrect subsequent spelling).  
*Hemitautoga* Bleeker, 1862a: 413 (type-species, *Labrus centiquadrus* Lacepède, by original designation).

*Guentheria* Bleeker, 1862a: 413 (type-species, *Halichoeres caeruleovittatus* Rüppell, by original designation).

*Pseudojulis* Bleeker, 1862a: 412 (type-species, *Julis (Julis) girardi* Bleeker, by original designation).

*Choerojulis* Gill, 1862: 142 (proposed as a replacement name for *Halichoeres* Rüppell).

*Pusa* Jordan & Gilbert, 1879: 374 (type-species, *Choerojulis grandisquamis* Gill, by monotypy, preoccupied by Scopoli 1777 in Mammalia).

*Emmeekia* Jordan & Evermann, 1896: 413 (type-species, *Pseudojulis venustus* Jenkins & Evermann, by original designation).

*Iridio* Jordan & Evermann, 1896: 412 (type-species, *Labrus radiatus* Linnaeus, by original designation).

*Julidio* Jordan & Evermann, 1896: 413 (type-species, *Pseudojulis adustus* Gilbert, by original designation).

*Octocynodon* Fowler, 1904: 535 (type-species, *Julis miniatus* Valenciennes, by original designation)

*Halinanodes* Whitley, 1931b: 113 (type-species, *Halichoeres leucostigma* Fowler & Bean, by original designation).

*Artisia* de Beaufort, 1939: 17 (type-species, *Artisia festiva* de Beaufort, by monotypy).

Indo-Pacific, western Atlantic and eastern Pacific. *Emmeekia* is a synonym according to W. Bussing (pers. comm.). *Halichoeres* is in need of revision. On the basis of differences in larval and juvenile features a separate genus may be required for four eastern Pacific species formerly assigned to *Pseudojulis* (*adustus*, *inornatus*, *melanotus* and *venustus*) (Grove & Lavenberg, 1997: 488). With about 70 species, of which 4 are undescribed, *Halichoeres* is the largest genus of the Labridae. Randall and Smith (1982) recognized 15 species from the western Indian Ocean. Randall (1981c) discussed the status of some species from the Pacific. Nine species are known from the western Atlantic (Randall & Böhlke, 1965); 61 species are known from the Indo-Pacific region.

### ***Halichoeres adustus*** (Gilbert)

*Pseudojulis adustus* Gilbert, 1890: 66 (Socorro Id, Revilla Gigedo [Revillagigedo] Ids, off western Mexico).

DISTRIBUTION: Revillagigedo Ids and Isla del Coco.

### ***Halichoeres aestuaricola*** Bussing

*Iridio bimaculata* Wilson, 1916: 68 (mouth of Rio Dagua at Bonaventura, Colombia).

*Halichoeres aestuaricola* Bussing, 1972: 4, fig. 1 *nomen novum* for *Iridio bimaculata* Wilson 1916, secondarily preoccupied by *Halichoeres bimaculatus* Rüppell 1835.

DISTRIBUTION: Gulf of California to Colombia.

### ***Halichoeres argus*** (Bloch & Schneider)

- Labrus guttatus* Bloch, 1791: 149, pl. 287, fig. 2 (no locality; preoccupied by *Labrus guttatus* Bonnaterre, 1788 and *Labrus guttatus* Gmelin, 1789 [= *Symphodus ocellatus* (Forsskål, 1775)]).
- Labrus argus* Bloch & Schneider, 1801: 263 (Australia).
- Labrus guttulatus* Lacepède, 1801: 446, 514 (incorrect subsequent spelling or emendation of *Labrus guttatus*).
- Julis argus* Bennett 1828a: 577, pl. 13, fig. 7 (Indonesia).
- Julis punctulatus* Val., 1839: 483 ([Indonesia]; based on Renard, fol. 21, n. 115).
- Julis (Halichoeres) polyophthalmus*; Bleeker, 1852f: 731 (Lepar Id, western Sumatra, Indonesia).
- Julis (Halichoeres) leparensis* Bleeker, 1852f: 730 (Lepar Id, western Sumatra, Indonesia).
- PlatyGLOSSUS reticulatus* Cartier, 1874: 104 (Philippines).
- Halichoeres fijiensis* Herre, 1935: 410 (Ovalau, Fiji Ids).

DISTRIBUTION: western Pacific.

REMARKS: *Julis punctulatus* is a synonym (Pietsch, 1995).

### ***Halichoeres bathyphilus*** (Beebe & Tee-Van)

*Iridio bathyphilus* Beebe & Tee-Van, 1932: 117 (1 mi. south of Nonsuch Id, Bermuda).

DISTRIBUTION: Bermuda, North Carolina, northeastern Gulf of Mexico, Yucatan and southern Brazil.

### ***Halichoeres bicolor*** (Bloch & Schneider)

- Labrus bicolor* Bloch & Schneider, 1801: 267 (no locality).
- Julis (Halichoeres) margaritiphorus* Bleeker, 1853d: 487 (Batavia [Jakarta], Indonesia).
- Julis (Halichoeres) hyrtlII* Bleeker, 1856b: 60 (Makasar [Ujung Pandang], Sulawesi [Celebes], Indonesia).
- Julis (Halichoeres) cantori* Bleeker, 1861a: 70 (Malaysia).
- PlatyGLOSSUS bifasciatus* Steindachner, 1866a: 477, pl. 5, fig. 2 (Hong Kong).
- PlatyGLOSSUS pseudogramma* Cartier, 1874: 103 (Ubay, Bohol Id, Philippines).
- PlatyGLOSSUS bilineatus* Karoli, 1882: 174 (*lapsus calami* for *bifasciatus*).
- ?*PlatyGLOSSUS xanti* Karoli, 1882: 174 (Singapore); probably a juvenile *Halichoeres bicolor*.

DISTRIBUTION: Indo-Malayan region to Sri Lanka; a Christmas Id record is doubtful.

### ***Halichoeres binotopsis*** Bleeker

- Julis (Halichoeres) binotopsis* Bleeker, 1849b: 7 (Boleling, northern Bali, Indonesia).
- Halichoeres* sp. 2 Kuitier, 1992: 179.

DISTRIBUTION: Indonesia.

***Halichoeres biocellatus*** Schultz

*Halichoeres biocellatus* Schultz, in Schultz et al., 1960: 233, fig. 104 (Ariji Id, Bikini Atoll, Marshall Ids).

DISTRIBUTION: southern Japan to western Australia, Fiji and Micronesia.

***Halichoeres bivittatus*** (Bloch)

*Labrus bivittatus* Bloch, 1791: 133, pl. 284, fig. 1 (Martinique Id, West Indies).

*Labrus psittaculus* Lacepède, 1801: 452, 522, pl. 16, fig. 2 (America [Martinique Id, West Indies]).

*Labrus multicostatus* Gronow in Gray, 1854: 81 (Carolinas, U.S.A.).

*Julis humeralis* Poey, 1860: 212 (Cuba).

*Choerojulis grandisquamis* Gill, 1863: 206 (North Carolina, U.S.A.)

*Choerojulis arangoi* Poey, 1876: 151 [109], pl. 7 [4], fig. 1 (Havana, Cuba).

*PlatyGLOSSUS florealis* Jordan & Gilbert, 1882c: 287 (Laguna Grande, Florida, U.S.A.).

DISTRIBUTION: Bermuda, North Carolina to Brazil.

***Halichoeres bleekeri*** (Steindachner & Döderlein)

*PlatyGLOSSUS bleekeri* Steindachner & Döderlein, 1887: 275 (Tokyo, Japan).

*Halichoeres tremebundus* Jordan & Snyder, 1902: 639, fig. 8 (Hiroshima, Japan).

DISTRIBUTION: Honshu to Philippines.

REMARKS: *H. bleekeri* is here treated as distinct from the species the Japanese have been calling *H. tenuispinis* (Randall, 1999d).

***Halichoeres brownfieldi*** (Whitley)

*Choerojulis brownfieldi* Whitley, 1945: 28, fig. 13 (Garden Id, off Fremantle, Western Australia).

DISTRIBUTION: western Australia.

***Halichoeres caudalis*** (Poey)

*Julis caudalis* Poey, 1860: 213 (Havana, Cuba).

DISTRIBUTION: North Carolina to northern South America.



***Halichoeres chierchiae*** Caporiacco

*Halichoeres chierchiae* Caporiacco, 1947: 205, fig. 3 (Gulf of Panama, eastern Pacific).

DISTRIBUTION: Gulf of California to Panama.

***Halichoeres chlorocephalus*** Kuiter & Randall

*Halichoeres chlorocephalus* Kuiter & Randall, 1995: 110, figs. 5-8 (Nagada, Madang Prov., Papua New Guinea).

DISTRIBUTION: Papua New Guinea.

***Halichoeres chloropterus*** (Bloch)

*Labrus chloropterus* Bloch, 1791: 151, pl. 288 (Japan).

*Labrus gymnocephalus* Bloch & Schneider, 1801: 251 (no locality).

*Julis (Halichoeres) cuvieri* Bleeker, 1847: 160 (Batavia [Jakarta], Indonesia; preoccupied by *Julis cuvieri* Bennett, 1831 [= *Coris cuvieri*])

*Julis (Halichoeres) modestus* Bleeker, 1847: 160 (Batavia [Jakarta], Indonesia).

*Halichoeres bleekeri* Günther, 1861: 386 *nomen novum* for *Julis cuvieri* Bleeker, 1847.

*PlatyGLOSSUS guttulatus* Macleay, 1883a: 587 (New Guinea).

DISTRIBUTION: Philippines to Solomon Ids.

***Halichoeres chrysus*** Randall

*Halichoeres chrysus* Randall, 1981c: 416, figs. 1-2 (Sandfly Passage, Florida Id, Solomon Ids).

DISTRIBUTION: western Pacific to Marshall Ids and Caroline Ids; also Rowley Shoals (western Australia) and Christmas Id (eastern Indian Ocean).

***Halichoeres cosmetus*** Randall & Smith

*Halichoeres cosmetus* Randall & Smith, 1982: (3)15, pl. 6, fig. C, pl. 7, figs. A-B (North Male Atoll, Maldives).

DISTRIBUTION: western Indian Ocean.

***Halichoeres cyanocephalus*** (Bloch)

*Labrus cyanocephalus* Bloch, 1791: 139, pl. 286 (no locality).

*Julis dimidiatus* Agassiz in Spix & Agassiz, 1831: 96, pl. 53 (off Brazil).

*Julis internasalis* Poey, 1861: 421 (Havana, Cuba).

DISTRIBUTION: Florida and Antilles to Brazil.

***Halichoeres discolor*** Bussing

*Halichoeres discolor* Bussing, 1983: 19, fig. 1 (Bahía Weston, Isla del Coco, Costa Rica).

DISTRIBUTION: Isla del Coco, Costa Rica, eastern Pacific.

***Halichoeres dispilus*** (Günther)

*PlatyGLOSSUS dispilus* Günther, 1864: 25 (Pacific coast of Panama).

DISTRIBUTION: Gulf of California to Peru, Galapagos Ids.

***Halichoeres garnoti*** (Valenciennes)

*Julis garnoti* Val., 1839: 390 (Martinique Id, West Indies).

*Julis cinctus* Poey, 1860: 211, pl. 13, fig. 19 (Cuba).

*Julis ruptus* Poey, 1860: 212, pl. 13, fig. 20 (Cuba).

*Iridio decoratus* Bean, 1906: 29 (Nonsuch Id, Bermuda).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies and Caribbean to southern Brazil.

***Halichoeres hartzfeldii*** (Bleeker)

*Julis (Halichoeres) hartzfeldii* Bleeker, 1852d: 563 (Ambon Id, Moluccas Ids, Indonesia).

*Labrichthys nudigena* De Vis, 1885: 881 (Great Barrier Reef, Queensland, Australia).

DISTRIBUTION: Indonesia.

REMARKS: a valid species according to Kuitert (1992).

***Halichoeres hortulanus*** (Lacepède)

*Labrus hortulanus* Lacepède, 1801: 449, 518, pl. 29, fig. 2 (Indo-Pacific Ocean).

*Labrus centiquadrus* Lacepède, 1801: 437, 493 (Madagascar, Mauritius and Réunion).

*Julis semidecorata* Lesson, 1828: 403 (Mauritius).

*Sparus decussatus* Bennett, 1829: pl. 14 (Sri Lanka).

*Halichoeres eximius* Rüppell, 1835: 16, pl. 5, fig. 1 (Red Sea).

*Julis corbis* Val., 1839: 435 (no locality given).

*Julis (Halichoeres) notophthalmus* Bleeker, 1847: 158 (Batavia [Jakarta], Indonesia).

*Tautoga notophthalmus* Bleeker, 1856b: 53 (Manado, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Indo-Pacific, including Red Sea.

REMARKS: *Halichoeres centiquadrus* appeared first in Lacepède (1801) and was used by many authors as the name for this species. Randall and Smith (1982) pointed out that Valenciennes realized that *centiquadrus* and *hortulanus* represented the same species; he placed *hortulanus* first in the species heading and table of contents. As first revisor, his choice of *hortulanus* established it as the valid name for this species. *Julis corbis* Valenciennes is a synonym (Pietsch, 1995).

### ***Halichoeres insularis*** Allen & Robertson

*Halichoeres insularis* Allen & Robertson, 1992: 51, figs. 5-6 (Socorro Id, Revillagigedo Ids, Mexico).

DISTRIBUTION: Isla Socorro, off Pacific coast of Mexico.

### ***Halichoeres iridis*** Randall & Smith

*Halichoeres iridis* Randall & Smith, 1982: 17, pl. 7, figs. C-E (Mauritius).

DISTRIBUTION: Western Indian Ocean, Red Sea to South Africa, Oman, Maldives, Chagos and Mauritius.

### ***Halichoeres kallochroma*** Bleeker

*Julis (Halichoeres) kallochroma* Bleeker, 1853c: 289 (Priaman, Sumatra, Indonesia).

DISTRIBUTION: Mentawai Ids (off Sumatra); also off southwestern Thailand (U. Satopomin, pers. comm.).

### ***Halichoeres lapillus*** Smith

*Halichoeres lapillus* Smith, 1947: 801 (Inhaca Id, Delagoa Bay, Mozambique).

DISTRIBUTION: western Indian Ocean.

### ***Halichoeres leptotaenia*** Randall & Earle

*Halichoeres leptotaenia* Randall & Earle, 1994: 288, pls. 1-3 (Musandam, Persian Gulf, Oman).

DISTRIBUTION: Persian Gulf.

***Halichoeres leucoxanthus*** Randall & Smith

*Halichoeres leucoxanthus* Randall & Smith, 1982: 20, pl. 8, figs C-D (East end of Java, Indonesia).

DISTRIBUTION: western Indian Ocean, Christmas Id, and western Indonesia.

***Halichoeres leucurus*** (Walbaum)

*Labrus leucurus* Walbaum, 1792: 249 (no locality).

*Labrus purpurescens* Bloch & Schneider, 1801: 262 (no locality).

*Anampses moniliger* Cuvier, in Cuvier et al., 1827: pl. 31, fig. 6 (no locality).

*Julis (Halichoeres) kallopos* Bleeker, 1853h: 348 (Ambon Id, Moluccas Ids, Indonesia).

*Julis (Halichoeres) temmincki* Bleeker, 1853d: 491 (Batavia [Jakarta], Indonesia).

DISTRIBUTION: East Indies, Palau, and Solomon Ids.

REMARKS: Although *Halichoeres purpurescens* has often been recognized as valid, we follow de Beaufort (1940) in regarding it as a synonym of *H. leucurus*. *Labrus leucurus* and *Anampses moniliger* are based on the figure and description of Seba (1761: 95 pl. 31).

***Halichoeres maculipinna*** (Müller & Troschel)

*Julis maculipinna* Müller & Troschel in Schomburgk, 1848: 18 (Barbados, West Indies).

*Iridio meyeri* Bean, 1906: 29 (Bermuda).

*Iridio microstomus* Bean, 1906: 30 (Bermuda).

*Halichoeres penrosei* Starks, 1913: 59, pl. 7 (Natal, Brazil).

*Iridio frenatus* Nichols, 1920: 61 (Bermuda).

*Iridio similis* Nichols, 1920: 61 (Bermuda).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies, Caribbean to Brazil.

***Halichoeres malpelo*** Allen & Robertson

*Halichoeres malpelo* Allen & Robertson, 1992: 47, figs. 1-2 (Malpelo Id, eastern Pacific).

DISTRIBUTION: Isla Malpelo, Colombia, eastern Pacific.

***Halichoeres margaritaceus*** (Valenciennes)

*Julis margaritaceus* Val., 1839: 484 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).

*Julis poecila* Lay & Bennett, 1839: 66, pl. 19, fig.1 (Ryukyu Ids, Japan).

*Julis (Halichoeres) harloffii* Bleeker, 1847: 159 (Java).

*PlatyGLOSSUS opercularis* Günther, 1862: 148 (Fiji Ids and Ambon Id, Indonesia).

*PlatyGLOSSUS equinus* De Vis, 1885: 885 (Cardwell, Great Barrier Reef, Queensland, Australia).

*Halichoeres daedalma* Jordan & Seale, 1906: 301, pl. 47, fig. 2 (Apia, Upolu Id, Western Samoa).

*Halichoeres nafae* Tanaka, 1908: 36, pl. 2, fig. 3 (Naha, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Cocos-Keeling Islands to central Pacific.

REMARKS: synonymy from Kuitert and Randall (1981).

### ***Halichoeres marginatus*** Rüppell

*Halichoeres marginatus* Rüppell, 1835: 16 (Mohila and Massawa, Eritrea, Red Sea).

*Julis lamarii* Val., 1839: 481 (Mauritius).

*Julis annularis* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 482 (Java, Indonesia).

*Julis notopsis* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 485 (Guam, Mariana Ids).

*Julis (Halichoeres) phaiopus* Bleeker, 1853c: 291 (Cauer, Sumatra, Indonesia).

*PlatyGLOSSUS metager* Day (ex Tickell), 1888: 802 (Saddle Id, off Kyoukphyoo, Arracan, Myanmar [Burma]).

*Halichoeres ianthinus* Fourmanoir, 1955: 217 (Comores).

*Halichoeres virescens* Fourmanoir & Guézé, 1961: 13 (Réunion Id).

DISTRIBUTION: Indo-Pacific, Red Sea to Hawaiian Ids.

### ***Halichoeres melanochir*** Fowler & Bean

*Halichoeres melanochir* Fowler & Bean, 1928: 264, pl. 25 (Lampinigan Id, Philippines).

DISTRIBUTION: western Australia to southern Japan.

### ***Halichoeres melanotis*** (Gilbert)

*Pseudojulis melanotis* Gilbert, 1890: 66 (Gulf of California, Mexico).

DISTRIBUTION: Gulf of California to Panama.

### ***Halichoeres melanurus*** (Bleeker)

*Julis (Halichoeres) hoevenii* Bleeker, 1851b: 250 (Banda Neira, Banda Ids, Indonesia).

*Julis (Halichoeres) melanurus* Bleeker, 1851b: 251 (Banda Neira, Banda Ids, Indonesia).

*Julis (Halichoeres) chrysotaenia* Bleeker, 1853d: 488 (Batavia [Jakarta], Indonesia).

*PlatyGLOSSUS flosCORALLIS* Jordan & Seale, 1906: 299, pl. 46, fig. 2 (Pago Pago, American Samoa).

DISTRIBUTION: western Pacific to Micronesia and Samoa.

REMARKS: *Halichoeres hoevenii* and *H. melanurus* are the female and male forms of this species. As first revisors, (Randall, Allen & Steene, 1997: 319) chose *Halichoeres melanurus* as the valid name.

***Halichoeres melas*** Randall & Earle

*Halichoeres melas* Randall & Earle, 1994: 296, pl. 8 (Kuria Muria Ids, southern Oman, Arabian Sea).

DISTRIBUTION: southern Oman.

***Halichoeres melasmapomus*** Randall

*Halichoeres melasmapomus* Randall, 1981c: 421, figs. 3-4 (Pitcairn Id).

DISTRIBUTION: western to central Pacific.

***Halichoeres miniatus*** (Valenciennes)

*Julis miniatus* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 460 (Java, Indonesia).

*Pseudojulis murrayensis* De Vis, 1885: 882 (Murray Id, Queensland, Australia).

*Halichoeres annulatus* Fowler, 1904: 535, pl. 20 (Padang, Sumatra, Indonesia).

DISTRIBUTION: western Pacific.

REMARKS: synonymy from Kuitert and Randall (1981).

***Halichoeres nebulosus*** (Valenciennes)

*Julis nebulosus* Val., 1839: 461 (Bombay, India).

*Julis (Halichoeres) pseudominiatus* Bleeker, 1856a: 62 (Ambon Id, Moluccas Ids, Indonesia).

*Julis (Halichoeres) reichei* Bleeker, 1858b: 43 (Sumatra and Ambon Id, Indonesia).

*Pseudojulis maculifer* Castelnau, 1875: 35 (Queensland, Australia).

DISTRIBUTION: western Indian Ocean to western Pacific.

REMARKS: synonymy from Kuitert and Randall (1981).

***Halichoeres nicholsi*** (Jordan & Gilbert)

*PlatyGLOSSUS nicholsi* Jordan & Gilbert, 1882a: 231 (Socorro Id, Revillagigedo Ids, off western Mexico).

*Halichoeres sellifer* Gilbert, 1890: 67 (Clarion Id, Revillagigedo Ids).

*Halichoeres macgregori* Gilbert & Starks, 1904: 145, pl. 23, fig. 45 (Panama).

*Julidio maculosus* Clark, 1936: 390 (Conway Bay, Indefatigable Id [Santa Cruz], Galápagos Ids).

*Halichoeres stigmasepia* Fowler, 1944a: 336, fig. 228 (Santa María Id [Charles Id], Galápagos Ids).

*Halichoeres stictus* Fowler, 1944a: 336, figs. 230-231 (James Id [San Salvador Id], Galápagos Ids).

DISTRIBUTION: Gulf of California to Panama, Revillagigedo Ids and Galápagos Ids.

REMARKS: synonymy from Bussing (1987).

***Halichoeres nigrescens*** (Bloch & Schneider)

*Labrus nigrescens* Bloch & Schneider, 1801: 263 (no locality).

*Labrus baccatus* de Procé 1822: 132 (Manila, Philippines).

*Labrus mola* Cuvier 1829: 258 (no locality given).

*Julis dussumieri* Val., 1839: 478, pl. 387 (Malabar, India).

*Julis exornatus* Richardson, 1846b: 258 (Hong Kong).

*Julis (Halichoeres) javanicus* Bleeker, 1857b: 341 (Java).

*Halichoeres kneri* Bleeker, 1862b: (Java; Singapore; Bangka; Sulawesi, Indonesia).

*PlatyGLOSSUS (LeptoJulis) dubius* Steindachner, 1866c: 37 (Tanzania [Zanzibar]).

*PlatyGLOSSUS dayi* Steindachner, 1870b: 567 (Singapore).

*PlatyGLOSSUS ransonneti* Steindachner, 1870: 567 (Singapore).

*PlatyGLOSSUS immaculatus* Macleay, 1878a: 362, pl. 10, fig. 1f (Darwin, Australia).

*PlatyGLOSSUS amabilis* De Vis, 1885: 885 (Murray Id, Queensland, Australia).

*PlatyGLOSSUS roseus* Day, 1888: 264 (Karachi, Pakistan).

*PlatyGLOSSUS maculatus* Jatzow & Lenz, 1898: 520, pl. 36, fig. 16 (Zanzibar).

*Halichoeres leucostigma* Fowler & Bean, 1928: 299, pl. 40 (Pujada Bay, Mindanao, Philippines).

*Halichoeres dianthus* Smith, 1947: 802 (Inhaca Id, Delagoa Bay, Mozambique).

DISTRIBUTION: Western Indian Ocean to western Pacific.

REMARKS: Bloch and Schneider (1801) based their brief description of *Labrus nigrescens* on Seba's plate 31, fig.2. Randall and Smith (1982) pointed out that no type specimen of *L.*

*nigrescens* is extant, and accepted *Julis dussumieri* Valenciennes, 1839 as the valid name, adding "in contrast to most recent authors who use *Halichoeres nigrescens* Bloch & Schneider". They listed deficiencies in the Seba illustration of *nigrescens* and noted that the two black spots between the fourth, fifth and sixth dorsal-fin spines are suggestive of males of several species of the genus including *H. dussumieri*. Further studies of these species by J.E. Randall now indicate that the two black spots in the spinous portion of the dorsal fin as illustrated by Seba are diagnostic for *H. nigrescens*. Other discrepancies such as greater body depth, protruding lower jaw, and posterior origin of the dorsal fin should be regarded as artist errors. The anal-ray count of III,15 as given by Bloch & Schneider, is actually III,12 (15 represents the total count of anal spines and soft-rays), so this count is not in error as indicated by Randall and Smith. If *nigrescens* is not accepted as the valid name, then *Halichoeres mola* (Cuvier, 1829) would replace *H. dussumieri*. Cuvier based the name *mola* on the Sahnee Moia of Russel (1803: vol. 2: 15, fig. 120) which is clearly conspecific with the species we here identify as *nigrescens*. The holotypes of *PlatyGLOSSUS maculatus* (AMS I.16369-001, 84 mm SL) and *P. amabilis* (QM I.88, 57 mm SL, from Murray Id) have been examined by the second author. Rudie H. Kuitert (pers. comm.) determined that *Halichoeres kneri* is a subadult of *H. dussumieri*. The holotype of *P. roseus* Day was examined by A. Gill. From meristics, body form, the presence of a median row of predorsal scales and fin form he concluded that it is *H. dussumieri*. The specimen lacks the distinctive pectoral-base spot of the species, but is faded, and may have lost this character after long preservation.

### ***Halichoeres notospilus*** (Günther)

*Pseudojulis notospilus* Günther, 1864: 26 (Pacific coast of Panama).

DISTRIBUTION: Gulf of California to Peru.

### ***Halichoeres ornatissimus*** (Garrett)

*Julis ornatissimus* Garrett, 1863: 63 (Hawaiian Ids).

*Halichoeres iridescens* Jenkins, 1901: 47, fig. 2 (Honolulu, Hawaiian Ids).

*Halichoeres lao* Jenkins, 1901: 48, fig. 3 (Honolulu).

DISTRIBUTION: central and western Pacific.

### ***Halichoeres pallidus*** Kuitert & Randall

*Halichoeres pallidus* Kuitert & Randall, 1995: 116, figs. 13-16 (Gunung Api Id, Indonesia).

DISTRIBUTION: Indonesia and Line Ids, central Pacific.

### ***Halichoeres papilionaceus*** (Valenciennes)

*Julis papilionaceus* Val., 1839: 484 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).



*Julis (Halichoeres) schwarzii* Bleeker, 1847: 159 (Sumanap, eastern Madura, Indonesia).

*Julis (Halichoeres) dieschismenacanthus* Bleeker, 1852e: 645 (Banda Neira, Banda Ids, Indonesia).

*Julis (Halichoeres) dieschismenacanthoides* Bleeker, 1853a: 121 (Ambon Id, Moluccas Ids, Indonesia).

*PlatyGLOSSUS (Halichoeres) doleschalli* Steindachner, 1863b: 1190, pl. 2, fig. 2 (Ambon Id, Indonesia).

DISTRIBUTION: East Indies.

### ***Halichoeres pardaleocephalus*** Bleeker

*Julis (Halichoeres) pardaleocephalus* Bleeker, 1849b: 8 (Boleling, northern Bali, Indonesia).

DISTRIBUTION: Bali and Sumatra to India.

### ***Halichoeres pelicierii*** Randall & Smith

*Halichoeres pelicierii* Randall & Smith, 1982: 12, pl. 5, figs. C-D, pl. 6, figs. A-B (Mauritius).

DISTRIBUTION: Mauritius.

### ***Halichoeres pictus*** (Poey)

*Julis pictus* Poey, 1860: 214 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida Keys, West Indies and Caribbean to Brazil.

### ***Halichoeres podostigma*** Bleeker

*Julis (Halichoeres) podostigma* Bleeker, 1854c: 332 (Larantuka, Flores Id, Indonesia).

DISTRIBUTION: East Indies.

### ***Halichoeres poeyi*** (Steindachner)

*Choerojulius crotaphus* Poey (*nec* Cuvier), 1860: 109 (Cuba).

*PlatyGLOSSUS poeyi* Steindachner, 1867c: 355 (Suriname).

*Iridio kirschii* Jordan & Evermann, 1898: 1598 (Bahia, Brazil).

DISTRIBUTION: South Florida and Bahamas to Brazil.

### ***Halichoeres prosopeion*** Bleeker

*Julis (Halichoeres) prosopeion* Bleeker, 1853h: 347 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: western Pacific to Palau and Samoa.

***Halichoeres radiatus*** (Linnaeus)

*Labrus radiatus* Linnaeus, 1758: 288 (America).

*Labrus brasiliensis* Bloch, 1791: 125, pl. 280 (Brazil).

*Julis crotaphus* Cuvier, 1829: 258 (no locality given).

*Julis cyanostigma* Val., 1839: 391 (Martinique).

*Julis opalina* Val., 1839: 392 (Martinique, West Indies).

*Julis patatus* Val., 1839: 398 (Martinique, West Indies).

*Julis principis* Val., 1839: 402 (Bahia, Brazil).

*Iridio elegans* Bean, 1906: 30, fig. 6 (Bermuda).

*Halichoeres irideus* Starks, 1913: 60, pl. 8 (Natal, Brazil).

*Halichoeres irideus torquatus* Parr, 1930: 84, fig. 20 (Rum Cay, Bahamas).

DISTRIBUTION: Bermuda and North Carolina to Brazil.

REMARKS: According to Luiz Alvez Rocha (pers. comm.) specimens from Brazil may represent a different species from *H. radiatus* in the Caribbean.

***Halichoeres richmondi*** Fowler & Bean

*Halichoeres richmondi* Fowler & Bean, 1928: 263, pl. 24 (Inamucan Bay, Mindanao, Philippines).

DISTRIBUTION: East Indies to Micronesia.

***Halichoeres rubricephalus*** Kuitert & Randall

*Halichoeres rubricephalus* Kuitert & Randall, 1995: 113, figs. 9-12 (Flores Id, Indonesia).

*Halichoeres* sp. 1 Kuitert, 1992: 177.

DISTRIBUTION: Flores, Indonesia.

***Halichoeres scapularis*** (Bennett)

*Julis scapularis* Bennett, 1832a: 167 (Mauritius).

*Halichoeres caeruleovittatus* Rüppell, 1835: 14, pl. 4, fig. 1 (Jidda [Jeddah] Saudi Arabia, Red Sea; [also spelt *Halichöres coeruleo-vittatus* in text]).

*Julis leschenaulti* Val., 1839: 453 (Mauritius, Réunion).

*Julis elegans* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1839: 467 (Java, Indonesia).

*Julis (Halichoeres) phaiotaenia* Bleeker, 1855a: 322 (Batu Ids, Indonesia).

*PlatyGLOSSUS alternans* Cartier, 1874: 104 (Philippines).

*PlatyGLOSSUS (Guentheria) pagenstecheri* Kossmann & Räuber, 1877: 407, pl. 3, fig. 5 (Red Sea).

*Pseudojulis ziczac* De Vis, 1885: 282 (Queensland).

*Halichoeres cymatogrammUS* Jordan & Seale, 1905: 786, fig. 8 (southern Negros, Philippines).

DISTRIBUTION: Indo-West Pacific, Red Sea to South Africa, Japan, Australia and western Pacific.

### ***Halichoeres semicinctus*** (Ayres)

*Julis semicinctus* Ayres, 1859: 32 (Cedros Id, Baja California, Mexico).

*Pseudojulis venustus* Jenkins & Evermann, 1889: 145 (Guaymas, Sonora, Mexico).

DISTRIBUTION: Baja California and Gulf of California.

REMARKS: synonymy from W. Bussing (pers. comm.).

### ***Halichoeres signifer*** Randall & Earle

*Halichoeres signifer* Randall & Earle, 1994: 292, pls. 5-7 (Masirah Id, central coast of Oman, Arabian Sea).

DISTRIBUTION: central to southern Oman.

### ***Halichoeres solorensis*** Bleeker)

*Julis (Halichoeres) solorensis* Bleeker, 1853f: 86 (Lawajong, Solor Id, Indonesia).

*Julis (Halichoeres) amboinensis* Bleeker, 1856a: 55 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: East Indies.

### ***Halichoeres stigmaticus*** Randall & Smith

*Halichoeres stigmaticus* Randall & Smith, 1982: 7, pl. 3, fig. A-B (east of Muharrak Id, Bahrain, Persian Gulf).

DISTRIBUTION: Persian Gulf.

### ***Halichoeres tenuispinis*** (Günther)

*PlatyGLOSSUS tenuispinis* Günther, 1862: 161 (China).  
*Artisia festiva* de Beaufort, 1939: 17, fig. 2 (Amoy, China).

DISTRIBUTION: coast of China.

REMARKS: Synonymy from Randall (1999d).

### ***Halichoeres timorensis*** (Bleeker)

*Julis (Halichoeres) timorensis* Bleeker, 1852b: 171 (Timor Id, East Indies).  
*Julis (Halichoeres) kawarin* Bleeker, 1852b: 172 (Timor).

DISTRIBUTION: East Indies.

### ***Halichoeres trimaculatus*** (Quoy & Gaimard)

*Julis trimaculata* Quoy & Gaimard, 1834: 705, pl. 20, fig. 2 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).  
*Julis auritus* Val., 1839: 486 (Ulea, Caroline Ids).  
*Julis (Halichoeres) spilurus* Bleeker, 1851b: 252 (Banda Neira, Banda Ids, Indonesia).  
*PlatyGLOSSUS vicinus* Günther, 1909: 267, pl. 142, fig. C (Gilbert Ids).  
*Guntheria vestalis* Whitley, 1958: 37 (Lady Musgrove Id, Queensland, Australia).

DISTRIBUTION: central and western Pacific.

REMARKS: Russell (1983b: 99) referred *Guntheria vestalis* Whitley to the synonymy of *Halichoeres trimaculatus*. *Julis auritus* was described by Valenciennes from a painting. A colour photograph of the painting was sent by Martine Desoutter of the Muséum National d'Histoire Naturelle in Paris to the second author who was then able to identify the species as *H. trimaculatus*.

### ***Halichoeres trispilus*** Randall & Smith

*Halichoeres trispilus* Randall & Smith, 1982: 18, pl. 8, figs. A-B (Villingili Id, North Malé Atoll, Maldives).

DISTRIBUTION: Maldives, South Africa and Mauritius.

### ***Halichoeres vrolikii*** (Bleeker)

*Julis (Halichoeres) vrolikii* Bleeker, 1855a: 323 (Batu Ids, Indonesia).  
*PlatyGLOSSUS ubayensis* Cartier, 1874: 104 (Philippines).  
*Halichoeres desmogenys* Fowler & Bean, 1928: 276, pls. 28-29 (Dupon Port, Leyte Id,

Philippines).

DISTRIBUTION: Indonesia and Philippines to Maldives.

***Halichoeres zeylonicus*** (Bennett)

*Julis zeylonicus* Bennett, 1832b: 183 (Sri Lanka).

*Halichoeres bimaculatus* Rüppell, 1835: 17, pl. 5, fig. 2 (Massawa, Eritrea, Red Sea).

DISTRIBUTION: Red Sea and western Indian Ocean to Indonesia.

***Halichoeres sp 1***

*Halichoeres ornatissimus* (*nec* Garrett): Masuda et al., 1984: 208.

REMARKS: Known from southern Japan and Taiwan; to be described by J. E. Randall.

**? *Halichoeres sp 2***

REMARKS: Known from Belize; tentatively placed in the genus *Halichoeres*, this species is under study by J. E. Randall, P. S. Lobel and L. Kaufman.

***Halichoeres sp 3***

REMARKS: Known from Cocos Id, eastern Pacific; to be described by G.R. Allen and D.R. Robertson.

***Halichoeres sp 4***

DISTRIBUTION: Galapágos Ids.

REMARKS: A new species to be described by C.C. Baldwin and J.E. McCosker (in press).

**Genus *Hemigymnus*** Günther

*Hemigymnus* Günther, 1861: 386 (type-species, *Mullus fasciatus* Thunberg, by subsequent designation).

*Cheilolabrus* Alleyne & Macleay, 1877: 345 (type-species, *C. magnilabris* Alleyne & Macleay, by monotypy).

Two species (Randall, 1986a); Indo-Pacific.

***Hemigymnus fasciatus*** (Bloch)

*Labrus fasciatus* Bloch, 1792: 6, pl. 290 (Japan).

*Labrus fuliginosus* Lacepède, 1801: 437, 493, pl. 22, fig. 3 (Madagascar, Mauritius, Réunion).

*Labrus malapteronotus* Lacepède, 1801: 450, 518, pl. 31, fig. 1 (Great Equatorial Ocean [Mauritius]).

*Sparus meaco* Lacepède, 1802: 54, 160 (Japan).

*Sparus zonephorus* Lacepède, 1802: 51, 155 (unnecessary replacement for *Labrus fasciatus* Bloch).

*Scarus quinquefasciatus* Bennett J.W., 1830: pl. 23 (Sri Lanka).

*Halichoeres sexfasciatus* Rüppell, 1835: 18, pl. 5, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Tautoga mertensii* Val., 1839: 308 (Caroline Ids).

*Tautoga leucomos* Bleeker, 1858c: 239 (Indonesia).

*Thalassoma bilateralis* von Bonde, 1934: 454, pl. 23, fig. 7 (Zanzibar fish market, Tanzania).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### ***Hemigymnus melapterus*** (Bloch)

*Labrus melapterus* Bloch, 1791: 137, pl. 285 (Japan).

*Labrus malapterus* Bloch 1792: 29, pl. 296, fig. 2 (Japan).

?*Labrus melanopterus* Forster 1795: 15 (Indian Ocean).

*Labrus melampterus* Bloch & Schneider, 1801: 247 (Java).

*Sparus niger* Lacepède, 1802: 50, 152 (Japan).

*Julis boryii* Lesson, 1831: 141, pl. 36 (Tahiti, Society Ids).

*Tautoga dimidiatus* Bleeker, 1849a: 18 (no locality).

*Julis beraber* Montrouzier, 1857: 474 (Woodlark Id).

*Labrichthys bicolor* Day, 1871: 696 (Andaman Ids).

*Cheilolabrus magnilabris* Alleyne & Macleay, 1877: 345, pl. 16, fig. 2 (Darnley Id, Queensland, Australia).

DISTRIBUTION: Western Indian Ocean to Samoa and Micronesia.

REMARKS: The name *melanopterus* was listed in the register of Bloch's *Naturgeschichte der ausländischen Fische*, last volume of 1795 with reference to part 5 of that work page 137. The species described there was named in 1791 as *Labrus melapterus* (H.-J. Paepke, pers. comm.).

### **Genus *Hologymnosus*** Lacepède

*Hologymnosus* Lacepède, 1801: 556 (type-species, *Hologymnosus fasciatus* Lacepède, by monotypy).

Genus revised by Randall (1982); 4 species; Indo-Pacific.

### ***Hologymnosus annulatus*** (Lacepède)

*Labrus annulatus* Lacepède, 1801: 455, 526, pl. 28, fig. 3 (Indo-Pacific Ocean).

*Labrus semidiscus* Lacepède, 1801: 429, 473, pl. 6, fig. 2 (Great Gulf of India).

*Coris elongata* Günther, 1862: 201 (Aneityum Id, Vanuatu).

*Coris semipartita* Günther, 1862: 203 (Mauritius).

DISTRIBUTION: Indo-Pacific, Red Sea to Pitcairn Group.

### ***Hologymnosus doliatus*** (Lacepède)

*Labrus doliatus* Lacepède, 1801: 429, 473, pl. 6, fig. 3 (Mauritius).

*Hologymnosus fasciatus* Lacepède, 1801: 556, 557, pl. 1, fig. 3 (Indo-Pacific Ocean).

*Julis rosea* Quoy & Gaimard, 1834: 709 (Mauritius).

*Julis annulatus* Val., 1839: 501, pl. 388 (Mauritius; Seychelles).

*Julis laportei* Liénard, 1845: 113 (Mauritius).

*Julis (Julis) oxyrhynchos* Bleeker, 1857a: 74 (Kajeli, Buru Ids, Moluccas Ids, Indonesia).

DISTRIBUTION: East Africa to Samoa and Line Ids.

REMARKS: *Julis laportei* Liénard is a new synonym.

### ***Hologymnosus longipes*** (Günther)

*Coris longipes* Günther, 1862: 204 (Vanuatu).

DISTRIBUTION: Vanuatu, New Caledonia, Loyalty Ids and Great Barrier Reef.

### ***Hologymnosus rhodonotus*** Randall & Yamakawa

*Hologymnosus* sp. Randall, 1982: 19.

*Hologymnosus rhodonotus* Randall & Yamakawa, 1988: 26, figs. 1-2 (Okinawa, Ryukyu Ids, Japan).

DISTRIBUTION: Okinawa and Philippines.

### **Genus *Labrichthys*** Bleeker

*Labrichthys* Bleeker, 1854c: 331 (type-species, *Labrichthys cyanotaenia* Bleeker, by monotypy).

*Thysanochailus* Kner, 1864: 185 (type-species, *Thysanochailus ornatus* Kner, by monotypy).

One species (Randall & Springer, 1973).

### ***Labrichthys unilineatus*** (Guichenot)

*Cossyphus unilineatus* Guichenot, 1847: 284 (Guam).

*Labrichthys cyanotaenia* Bleeker, 1854c: 331 (Larantuka, Flores Id, Lesser Sunda Ids, Indonesia).

*Thysanocheilus ornatus* Kner, 1865a: 5, pl. 3, fig. 1 (Upolu, Samoa).

*PlatyGLOSSUS ocellatus* Kner & Steindachner, 1867: 377 [22], pl. 2, fig. 8 (Upolu, Samoa).

*Chaerophilus castaneus* Kner & Steindachner, 1867: 394 (Upolu, Samoa).

DISTRIBUTION: Western Indian Ocean to Samoa.

### **Genus *Labroides*** Bleeker

*Labroides* Bleeker, 1851: 227, 249 (type-species, *Labroides paradiseus* Bleeker, by monotypy).

*Fissilabrus* Kner, 1860: 52 [14] (type-species, *Cossyphus dimidiatus* Valenciennes, by subsequent monotypy).

*Fowlerella* Smith, 1957a: 100, 104 (type-species, *Labroides bicolor* Fowler & Bean, by original designation).

Five species (Randall, 1958b); Red Sea and Indo-Pacific.

### ***Labroides bicolor*** Fowler & Bean

*Labroides bicolor* Fowler & Bean, 1928: 224, pl. 18 (Port Maricaban, Philippines).

DISTRIBUTION: Indo-Pacific.

### ***Labroides dimidiatus*** (Valenciennes)

*Labrus latovittatus* Rüppell, 1835: 7 (El Tur, Sinai coast, Egypt; preoccupied by *Labrus latovittatus* Lacepède, 1801 [= *Malacanthus latovittatus*]).

*Cossyphus dimidiatus* Val., 1839: 136 (replacement name for *Labrus latovittatus* Rüppell).

*Labroides paradiseus* Bleeker, 1851b: 249 (Indonesia).

*Labroides bicincta* Saville-Kent, 1893: 308, color pl. 16, fig.4 (Queensland, Australia).

*Labroides caeruleolineatus* Fowler, 1945: 65, fig. 7 (Saipan Id, West Pacific).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia and Pitcairn Group.

### ***Labroides pectoralis*** Randall & Springer

*Labroides pectoralis* Randall & Springer, 1975: 6, pl. 1 (Auluaptagel Id, Palau Ids, Philippine Sea).



DISTRIBUTION: Micronesia and western Pacific to Christmas Id (Indian Ocean).

***Labroides phthirophagus*** Randall

*Labroides phthirophagus* Randall, 1958b: 337, pl. 1, fig. A (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

***Labroides rubrolabiatus*** Randall

*Labroides rubrolabiatus* Randall, 1958b: 342, pl. 1, fig. B (Moorea, Society Ids).

DISTRIBUTION: Pitcairn Group, French Polynesia, Society Ids, and Line Ids to Samoa.

**Genus *Labropsis*** Schmidt

*Labropsis* Schmidt, 1931: 75 (type-species, *Labropsis manabei* Schmidt, by original designation).

Genus revised by Randall (1981a); 6 species; Indo-Pacific.

***Labropsis alleni*** Randall

*Labropsis alleni* Randall, 1981a: 131, pl. 1, fig. A (Palau).

DISTRIBUTION: western Pacific to Marshall Ids.

***Labropsis australis*** Randall

*Labropsis australis* Randall, 1981a: 149, pl. 5, Figs. A-C (One Tree Id, Capricorn Group, Great Barrier Reef).

DISTRIBUTION: Great Barrier Reef to Samoa.

***Labropsis manabei*** Schmidt

*Labropsis manabei* Schmidt, 1931: 76, figs. 3-4 (Itoman, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: Indonesia to Ryukyu Ids.

***Labropsis micronesica*** Randall

*Labropsis micronesica* Randall, 1981a: 145, pl. 4, figs. A-C (Eniwetak Atoll, Marshall Ids).

DISTRIBUTION: Islands of Micronesia.

### *Labropsis polynesica* Randall

*Labropsis polynesica* Randall, 1981a: 134, pl. 1, figs. B-C; fig. 3 (Moorea, Society Ids).

DISTRIBUTION: French Polynesia to Cook Ids.

### *Labropsis xanthonota* Randall

*Labropsis* sp. Shepard & Meyer, 1978b: 37.

*Labropsis* sp. Allen & Steene, 1979: 50.

*Labropsis xanthonota* Randall, 1981a: 138, pl. 2, figs A-C (Fagatele Bay, Tutuila, American Samoa).

DISTRIBUTION: Indian Ocean to western Pacific, eastward to Micronesia and Samoa.

### Genus *Labrus* Linnaeus

*Labrus* Linnaeus, 1758: 282 (type-species, *Labrus bimaculatus* Linnaeus, by subsequent designation).

*Cicla* Röse, 1793: 112 (type-species, ?*Labrus viridis*, by subsequent designation).

REMARKS: Fernholm & Wheeler (1983:253) indicate that the holotype of *Labrus bimaculatus* is a *Cichlasoma*; Case 2905 is pending before the International Commission to select neotypes so that *Labrus bimaculatus* would be a labrid. Bailey (1997) and Kullander (1997) proposed to designate *Labrus mixtus* Linnaeus, 1758 as type-species. Quignard (1966) discussed the status of the four species. Eastern Atlantic and Mediterranean.

### *Labrus bergylta* (Ascanius)

*Labrus bergylta* Ascanius, 1767: 3, pl. 1 (no locality).

*Labrus comber* Bonnaterre, 1788: 115, pl. 99, fig. 405 (Seas of Great Britain).

*Labrus comber* Gmelin, 1789: 1297 ("Cornubiae littore"; preoccupied by *Labrus comber* Bonnaterre, 1788).

*Labrus ballan* Bonnaterre, 1788: 115, pl. 98 (Seas of Great Britain).

*Labrus ballan* Walbaum 1792: 259 (Seas of Great Britain; preoccupied by Bonnaterre, 1788).

*Labrus comber* Walbaum, 1792: 259 (no locality; preoccupied by *Labrus comber* Bonnaterre, 1788 and *Labrus comber* Gmelin, 1789).

*Labrus maculatus* Bloch, 1792: 17, pl. 294 (North Sea).

*Labrus aper* Retzius, 1800: 335 ("Mari Occidentalis").

*Labrus neustriæ* Lacepède, 1801: 451, 522 (près des rives de l'ancienne Neustrie).

*Labrus ballanus* Shaw, 1803: 498, pl. 71 (Filey Bridge near Scarborough, England).

*Labrus balanus* Fleming, 1828: 209 (England).

*Crenilabrus multidentatus* Thompson, 1837: 56 (Ireland).

*Labrus variabilis* Thompson, 1837: 59 (Ireland).

*Labrus donovani* Val., 1839: 39 (Brittany).

*Labrus reticulatus* Lowe, 1839: 85 (Madeira; preoccupied by *Labrus reticulatus* Bonnaterre, 1788 [= *Symphodus ocellatus* (Forsskål, 1775)] and *Labrus reticulatus* Walbaum, 1792 *nomen dubium*).

*Labrus nubilus* Valenciennes, 1843: 62 (Canary Ids).

DISTRIBUTION: eastern Atlantic from Norway to Morocco, Azores, Madeira and Mediterranean.

REMARKS: *Labrus comber* Gmelin is here regarded as independently described from *L. comber* Bonnaterre.

### ***Labrus merula*** Linnaeus

?*Labrus livens* Linnaeus, 1758: 287 (no locality).

*Labrus merula* Linnaeus, 1758: 288 (Europe).

?*Sparus lividus* Lacepède, 1802: 50, 152 (Mediterranean).

*Labrus nereus* Risso, 1810: 231 (Nice, France).

*Labrus psittacus* Risso, 1827: 304 (Nice; preoccupied by *Labrus psittacus* Lacepède, 1801 [= *Labrus viridis* Linnaeus 1758]).

?*Labrus crassus* Agassiz in Spix & Agassiz, 1831: 95, pl. 52 (off Brazil).

*Labrus limbatus* Val., 1839: 89 (Toulon, Nice, Naples).

*Labrus lineolatus* Val., 1839: 90 (Toulon, Nice, Naples).

*Labrus saxorum* Val., 1839: 91 (Mediterranean Sea).

DISTRIBUTION: Portugal to Morocco, Azores, and Mediterranean.

REMARKS: Jordan (1890: 609) used *Labrus livens* for this species. However, as pointed out by Valenciennes (1839: 86) nothing in the concise description of *Labrus livens* proves it represents this species. Agassiz described *Labrus crassus* with D XVII, 14; Günther (1862) and Jordan (1890) questioned the type locality. As no species of *Labrus* are known to occur in American waters, *L. crassus* probably came from Europe, and the species is a synonym of *L. merula*.

### ***Labrus mixtus*** Linnaeus

*Labrus ossifagus* Linnaeus, 1758: 286 (Europe).

*Labrus mixtus* Linnaeus, 1758: 287 (Liburni [eastern Adriatic Sea]).

*Labrus varius* Linnaeus 1758: 288 (Mediterranean Sea).

*Labrus coeruleus* Ascanius, 1772: 5, pl. 12 (Norway).

*Labrus carneus* Ascanius, 1772: 6, pl. 13 (Norway).

*Labrus trimaculatus* Bonnaterre, 1788: 113, pl. 98, fig. 401 (Seas of Great Britain).

*Labrus lineatus* Bonnaterre, 1788: 113, pl. 98, fig. 402 (Seas of Great Britain).

*Labrus trimaculatus* Gmelin 1789: 1294 (Britain; preoccupied by *Labrus trimaculatus* Bonnaterre, 1788).

*Labrus variegatus* Gmelin, 1789: 1294 (Skerry).

*Labrus coquus* Gmelin, 1789: 1297 ("in Cornubiae littore").

?*Labrus microlepidotus* Bloch, 1792: 12, pl. 292 (no locality).

*Labrus badius* Walbaum 1792: 258 (no locality).

*Labrus coquus* Walbaum, 1792: 260 (no locality; preoccupied by *Labrus coquus* Gmelin, 1789).

*Labrus herbeus* Walbaum 1792: 25 (no locality).

*Labrus vittatus* Walbaum, 1792: 256 (no locality).

*Labrus vetula* Bloch, 1792: 14, pl. 293 (North Sea).

*Labrus cook* Bloch & Schneider 1801: 268 (no locality).

*Sparus claviera* Lacepède, 1802: 50, 152 (Marseille et d'Antibes; unnecessary replacement for *Labrus varius* Linnaeus).

*Sparus formosus* Shaw & Nodder, 1790: pl. 31 (North Atlantic).

*Labrus luvarus* Rafinesque, 1810a: 38 (Sicily).

*Labrus quadrimaculatus* Risso, 1827: 302 (Nice, France).

*Acantholabrus yarellii* Val., 1839: 250 (London market).

*Labrus larvatus* Lowe, 1852: 249 (Madeira).

DISTRIBUTION: eastern Atlantic from Norway to Senegal and Mediterranean.

REMARKS: *Labrus bimaculatus* Linnaeus, 1758 has been used for either the present species or the common South American cichlid *Cichlasoma bimaculatum*. Conservation of usage and neotype designation were proposed by Ronald Fricke and Carl J. Ferraris (Case 2905) so that the name *bimaculatus* should be maintained for the labrid species. However, *L. mixtus* continues to be used for the labrid species and *L. bimaculatus* is very much in use for the South American cichlid. Kullander (1997) designated a neotype for *L. mixtus* (UUZM 193) and proposed: i) to set aside the application in Case 2905, ii) to place on the Official List of Specific Names in Zoology the names *bimaculatus* (specific name of the type species of *Cichlasoma*) and *mixtus* (specific name of the type species of *Labrus*), and iii) to place on the Official List of Rejected and Invalid Specific Names in Zoology the name *ossifagus*. This application was also supported by Kottelat and Wheeler (1998). We agree that stability is best attained by accepting Kullander's proposal. *Labrus vittatus* Walbaum and *Labrus formosus* Shaw are synonyms according to Günther (1862). However, *formosus* was originally described as *Sparus formosus* Shaw and Nodder, 1790. We follow Günther (1862: 91 footnote) in regarding *Acantholabrus yarellii* as an abnormal specimen of *L. mixtus*. *Labrus microlepidotus*, with dorsal-fin rays XVII, 13 and more than 50 lateral-line scales, is likely a synonym of *L. mixtus*.

### ***Labrus viridis*** Linnaeus

*Labrus viridis* Linnaeus, 1758: 286 (Mediterranean Sea).

*Labrus luscus* Linnaeus, 1758: 287 (no locality).

*Labrus turdus* Linnaeus, 1758: 287 (European Seas).

*Labrus luteus* Walbaum 1792: 236 (no locality).

*Labrus saphyrinus* Walbaum 1792: 236 (no locality).

*Labrus psittacus* Lacepède, 1801: 440 (no locality).

*Labrus zittoides* Rafinesque, 1810a: 38 (Sicily, Italy).

*Labrus zittus* Rafinesque, 1810a: 38, pl. 12, fig. 3 (Sicily).

*Labrus prasostictes* Pallas, 1814: 272 ("ad Ponti littora").

*Labrus pincus* Nardo, 1827: 30 (Adriatic Sea).

*Labrus saxatilis* Risso, 1827: 300 (Nice, France).

*Labrus festivus* Risso, 1827: 304 (Nice, France).

*Labrus rufus* Rathke, 1837: 337 (Black Sea; preoccupied by *Labrus rufus* Linnaeus, 1758 [= *Bodianus rufus*]).

*Labrus lividus* Val., 1839: 87 (Toulon; Marseille, Naples).

*Labrus nardii* Perugia 1866: 20 (Adriatic Sea).

DISTRIBUTION: Mediterranean Sea.

REMARKS: *Labrus nardii* was regarded as a synonym by Perugia (1881). *Labrus pincus* Nardo is a synonym according to Canestrini (1872) and Bini (1968).

### Genus *Lachnolaimus* Cuvier

*Lachnolaimus* Cuvier, 1829: 257 (type-species, *L. suillus* Cuvier, by subsequent designation).

*Lachnolaemus* Agassiz, 1846: 199 (unjustified emendation).

One species.

### *Lachnolaimus maximus* Walbaum

*Labrus maximus* Walbaum, 1792: 261 (no locality).

*Lachnolaimus caninus* Cuvier, 1829: 257 (no locality).

*Lachnolaimus suillus* Cuvier, 1829: 257 (no locality).

*Lachnolaimus aigula* Val., 1839: 277, pl. 378 (St. Barthélemy Id, Leeward Ids, Lesser Antilles).

*Lachnolaimus dux* Val., 1839: 285 (Martinique).

*Lachnolaimus psittacus* Val., 1839: 291 (Puerto Rico)

DISTRIBUTION: Carolinas to northern South America.

REMARKS: synonymy from Jordan (1885, 1890). *Lachnolaimus suillus* and *L. caninus* were redescribed as new by Valenciennes (1839: 286-290). The combination *Lachnolaimus falcatus* used by Günther (1862: 87), based on *Labrus falcatus* Linnaeus is invalid; *Labrus falcatus* was described by Linnaeus in the carangid genus *Trachinotus*.

### Genus *Lappanella* Jordan

*Lappanella* Jordan, 1890: 622, 689 (type-species, *Ctenolabrus iris* Valenciennes, by monotypy, proposed as a subgenus).

*Marzapanus* Facciola, 1916: 148 (type-species, *Coricus fasciatus* Cocco, by monotypy).

Two species (Gomon and Forsyth, 1990). Eastern Atlantic and Mediterranean.

***Lappanella fasciata*** (Cocco)

*Coricus fasciatus* Cocco, 1833: 16, fig. 3 (Messina, Sicily).

*Ctenolabrus iris* Val., 1839: 236, pl. 374 (Naples, Sicily; Malta).

*Crenilabrus aurantiacus* Facciola, 1888: 22 (Messina, Sicily; preoccupied by *Crenilabrus aurantiacus* Cocco in Facciola, 1885 [= ?*Symphodus ocellatus* (Forsskål)]).

DISTRIBUTION: eastern Atlantic, Mediterranean Sea.

REMARKS: Quignard (1965) redescribed the species without mention of *Crenilabrus aurantiacus*. Facciola (1916) recognized his *C. aurantiacus* as a synonym of *Coricus fasciatus* Cocco.

***Lappanella guineensis*** Bauchot

*Lappanella guineensis* Bauchot, 1969: 1145, fig. 1 (Gulf of Guinea, 8°28'N, 14°21'W).

DISTRIBUTION: eastern Atlantic.

**Genus *Larabicus*** Randall & Springer

*Larabicus* Randall & Springer, 1973: 289 (type-species, *Labrus quadrilineatus* Rüppell, 1835 by original designation).

One species.

***Larabicus quadrilineatus*** (Rüppell)

*Labrus quadrilineatus* Rüppell, 1835: 6, pl. 2, fig. 1 (Massawa, Eritrea, Red Sea).

*Cossyphus taeniatus* Val. (ex Ehrenberg) in Cuv. & Val., 1839: 134 (Massawa, Eritrea, Red Sea).

*Labrichthys cousteaui* Estève in Roux-Estève and Fourmanoir, 1955: 199 (Abu Latt, Red Sea).

DISTRIBUTION: Red Sea.

**Genus *Leptojulis*** Bleeker

*Leptojulis* Bleeker, 1862a: 412 (type-species, *Julis (Halichoeres) cyanopleura* Bleeker, by original designation).

Five species (Randall, 1996); Indo-West Pacific.

***Leptojulius chrysotaenia*** Randall & Ferraris

*Leptojulius chrysotaenia* Randall & Ferraris, 1981: 91, figs. 3-4 (Ka Pu Islet, Phuket, Thailand).

DISTRIBUTION: Indonesia to Sri Lanka.

***Leptojulius cyanopleura*** (Bleeker)

*Julis finlaysoni* Val., 1839: 471 (Sri Lanka).

*Julis purpureolineatus* Val., 1839: 471 (Sri Lanka).

*Julis (Halichoeres) cyanopleura* Bleeker, 1853d: 489 (Batavia [Jakarta], Indonesia).

*Julis (Halichoeres) pyrrhogrammatoides* Bleeker, 1853d: 490 (Batavia [Jakarta], Indonesia).

DISTRIBUTION: Malaysia, New Guinea, and Australia to Persian Gulf.

REMARKS: Randall and Parenti (1999) have proposed that the names *Julis finlaysoni* and *purpureolineatus* be suppressed in order to conserve *cyanopleura*.

***Leptojulius lambdastigma*** Randall & Ferraris

*Leptojulius lambdastigma* Randall & Ferraris, 1981: 93, fig. 5 (Samar Sea, Philippines).

DISTRIBUTION: Philippines and Taiwan.

***Leptojulius polylepis*** Randall

*Leptojulius polylepis* Randall, 1996: 15, pls, 2C, 3G, 3H (Guadalcanal, Solomon Ids).

DISTRIBUTION: Solomon Ids, New Guinea, and Indonesia.

***Leptojulius urostigma*** Randall

*Leptojulius urostigma* Randall, 1996: 10, fig. 3, pls 3D-F (Batangas Prov., Luzon Id, Philippines).

DISTRIBUTION: Taiwan to Indonesia.

**Genus *Macropharyngodon*** Bleeker

*Macropharyngodon* Bleeker, 1862a: 412 (type-species, *Julis geoffroy* Quoy & Gaimard, by original designation).

Ten species (Randall, 1978b). Indo-Pacific.

### ***Macropharyngodon bipartitus* Smith**

*Macropharyngodon bipartitus* Smith, 1957a: 104, fig. 2; pl. 2, fig. B (Pinda, Mozambique).

*Macropharyngodon varialvus* Smith, 1957a: 105, fig. 3; pl. 2, fig. A (Pinda, Mozambique).

*Macropharyngodon bipartitus marisrubri* Randall, 1978: 759, figs. 5 a-b (Taba, Gulf of Aqaba).

DISTRIBUTION: Western Indian Ocean and Red Sea. Two subspecies: *Macropharyngodon bipartitus marisrubri*, Red Sea, and *Macropharyngodon bipartitus bipartitus*, western Indian Ocean.

### ***Macropharyngodon choati* Randall**

*Macropharyngodon choati* Randall, 1978b: 761, fig. 5d (One Tree Id, Capricorn Group, Great Barrier Reef).

DISTRIBUTION: southern Great Barrier Reef, New South Wales, and New Caledonia.

### ***Macropharyngodon cyanoguttatus* Randall**

*Macropharyngodon cyanoguttatus* Randall, 1978b: 749, figs. 3 c-d (Mauritius).

DISTRIBUTION: Mauritius, Réunion, and South Africa.

### ***Macropharyngodon geoffroy* (Quoy & Gaimard)**

*Julis geoffroy* Quoy & Gaimard, 1824: 270, pl. 56, fig. 3 (Hawaiian Ids).

*Labrus margaritiferus* Cuvier, 1829: 258 (no locality).

*Macropharyngodon aquilolo* Jenkins, 1901: 46, fig. 1 (Honolulu, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

REMARKS: Cuvier (1829: 258) published the name *Labrus margaritiferus* as a footnote with reference to fig. 3 on a plate in Quoy and Gaimard (1824) with the common name "Girelle Labiche". The plate number was mistakenly omitted. This common name does not appear on any Quoy and Gaimard plates. M.-L. Bauchot checked the original manuscript 506 (XIII B 62) and found the name Girelle Labiche written in pencil on a tracing of the painting of pl. 56, fig. 3 of Quoy and Gaimard. This was the first common name given to the species by Quoy. It was later changed to Girelle Geoffroy.

### ***Macropharyngodon kuiteri* Randall**



*Macropharyngodon kuiteri* Randall, 1978b: 766, figs. 5 g-h (Seal Rocks, New South Wales, Australia).

DISTRIBUTION: southern Great Barrier Reef, New South Wales, and New Caledonia.

***Macropharyngodon meleagris*** (Valenciennes)

*Julis meleagris* Val., 1839: 481 (Ulea, Caroline Ids).

*Leptojulis pardalis* Kner, 1867: 728 [19], pl. 3, fig. 2 (Fiji).

*PlatyGLOSSUS nigromaculatus* Günther, 1872a: 666, pl. 65, fig. B (Savai'i [Savay] Id, Western Samoa Ids).

*Halichoeres nigropunctatus* Seale, 1901a: 89 (Guam).

DISTRIBUTION: western and central Pacific.

***Macropharyngodon moyeri*** Shepard & Meyer

*Macropharyngodon moyeri* Shepard & Meyer, 1978a: 159, fig. 1 (Miyakejima, Izu Ids, Japan).

DISTRIBUTION: southern Japan.

***Macropharyngodon negrosensis*** Herre

*Macropharyngodon negrosensis* Herre, 1932: 142 (Dumagnete, Oriental Negros, Philippines).

DISTRIBUTION: western Pacific to Micronesia and Samoa.

***Macropharyngodon ornatus*** Randall

*Macropharyngodon ornatus* Randall, 1978b: 753, figs. 3 g-h (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: Indonesia to western Indian Ocean.

***Macropharyngodon vivienae*** Randall

*Macropharyngodon vivienae* Randall, 1978b: 764, fig. 6 (outer slope of barrier reef, off Tuléar, Madagascar).

DISTRIBUTION: Madagascar and South Africa.

**Genus *Malapterus*** Valenciennes

*Malapterus* Val., 1839: 355 (type-species, *Malapterus reticulatus* Valenciennes, by monotypy).  
*Malacopterus* Günther, 1862: (unjustified emendation, preoccupied by Audinet-Serville 1834 in Coleoptera).  
*Neolabrus* Steindachner, 1875: 461 (type-species, *Neolabrus fenestratus* Steindachner, by monotypy).  
*Hospilabrus* Whitley, 1931a: 334 (unnneeded replacement for *Malapterus* Valenciennes).

A valid genus (Pequeño, 1989 and M. Protti, pers. comm.). One species.

### ***Malapterus reticulatus*** Valenciennes

*Malapterus reticulatus* Val., 1839: 355, pl. 383 (Juan Fernández Ids).  
*Neolabrus fenestratus* Steindachner, 1875: 461 [19], pl. 1, fig. 2 (Juan Fernández Ids).

DISTRIBUTION: Juan Fernández Ids, Chile.

### **Genus *Minilabrus*** Randall & Dor

*Minilabrus* Randall & Dor, 1980: 155 (type-species, *M. striatus* Randall & Dor, by original designation).

One species.

### ***Minilabrus striatus*** Randall & Dor

*Minilabrus striatus* Randall & Dor, 1980: 155, figs. 1-3 (Um Aabak , Dahlak Archipelago, Eritrea, Red Sea).

DISTRIBUTION: Red Sea.

### **Genus *Nelabrichthys*** Russell

*Nelabrichthys* Russell, 1983a: 1 (type-species, *Labrus ornatus* Carmichael, by original designation).

One species.

### ***Nelabrichthys ornatus*** (Carmichael)

*Labrus ornatus* Carmichael, 1819: 502, pl. 27 (Tristan da Cunha, South Atlantic).  
*Labrichthys isleanus* Sauvage, 1875: 988 (St Paul Id, southern Indian Ocean).  
*Labrichthys lantzii* Sauvage, 1875: 988 (St Paul Id).  
*PlatyGLOSSUS robinsoni* Gilchrist & Thompson, 1914: 86 (Natal, South Africa [specimen evidently

mislabeled]).

DISTRIBUTION: Tristan da Cunha Group, Gough, and Vema Seamount in the southern Atlantic, and St Paul and Amsterdam Ids in the southern Indian Ocean.

### **Genus *Notolabrus* Russell**

*Notolabrus* Russell, 1988: 12 (type-species, *Labrus fucicola* Richardson, by original designation).

Seven species (Russell, 1988). Mostly in southern Australia and New Zealand.

#### ***Notolabrus celidotus* (Bloch & Schneider)**

*Labrus celidotus* Bloch & Schneider (ex Forster), 1801: 265 (New Zealand).

*Labrus poecilopleura* Val., 1839: 95 (New Zealand).

*Julis notatus* Richardson and Solander in Richardson, 1843c: 425 (Totaeranue, Queen Charlotte Sound and Tolaga, New Zealand).

*Labrus botryocosmus* Richardson, 1846a: 53, pl. 31 (South Australia).

DISTRIBUTION: New Zealand.

#### ***Notolabrus cinctus* (Hutton)**

*Labrichthys cincta* Hutton, 1877: 354 (Otago, New Zealand).

DISTRIBUTION: New Zealand.

#### ***Notolabrus fucicola* (Richardson)**

*Labrus fucicola* Richardson, 1840: 26 (Tasmania).

*Labrichthys fucicolor* Hutton, 1890: 281 (misprinting or emendation).

*Pseudolabrus pittensis* Waite, 1910: 26 (Chatham Ids).

DISTRIBUTION: southwestern Australia and New Zealand.

#### ***Notolabrus gymnogenis* (Günther)**

*Labrichthys gymnogenis* Günther, 1862: 117 (Australia).

*Labrichthys nigromarginatus* MacLeay, 1878b: 35, pl. 3, fig. 3 (Port Jackson, New South Wales, Australia).

DISTRIBUTION: Queensland to Tasmania, Lord Howe Id.

### ***Notolabrus inscriptus*** (Richardson)

*Labrus inscriptus* Richardson, 1848: 134, pl. 56, figs. 1-2 (Norfolk Id).

DISTRIBUTION: New South Wales, New Zealand, Lord Howe Id, Norfolk Id, and Kermadecs.

### ***Notolabrus parilus*** (Richardson)

*Tautoga parila* Richardson, 1850: 70 (King George Sound, Western Australia).

*Labrichthys punctulata* Günther, 1862: 118 (Swan river, Western Australia).

*Labrichthys edelensis* Castelnau, 1873: 137 (Fremantle, Western Australia).

*Labrichthys bostockii* Castelnau, 1873: 137 (Fremantle).

*Labrichthys convexus* Castelnau, 1875: 38 (Fremantle).

*Labrichthys rubra* Castelnau, 1875: 38 (Fremantle).

*Labrichthys unicolor* Castelnau, 1875: 37 (Fremantle).

DISTRIBUTION: southern and western Australia.

### ***Notolabrus tetricus*** (Richardson)

*Labrus tetricus* Richardson, 1840: 25 (Tasmania).

*Labrichthys bleekeri* Castelnau, 1872a: 148 (Melbourne).

*Labrichthys richardsoni* Castelnau, 1872a: 150 (Melbourne)

*Labrichthys vestita* Castelnau, 1872a: 151 (Melbourne).

*Labrichthys tetrica* var *fuscipinnis* Klunzinger, 1872: 37 (Hobson's Bay, Victoria, Australia).

*Labrichthys tetrica* var *tigripinnis* Klunzinger, 1872: 37 (Hobson's Bay, Victoria, Australia).

*Labrichthys cuvieri* Castelnau, 1873: 53 (Tasmania).

?*Labrichthys tetrica* var *ocellata* Klunzinger, 1880: 402 (Murray river, South Australia).

*Labrichthys cyanogenys* Ramsay & Ogilby, 1887b: 242 (Broken Bay, New South Wales, Australia).

*Labrichthys ceruleus* Saville-Kent, 1897: 174 (Tasmania).

DISTRIBUTION: southern New South Wales to Tasmania and South Australia.

### **Genus *Novaculichthys*** Bleeker

*Novaculichthys* Bleeker, 1862a: 414 (type-species, *Labrus taeniourus* Lacepède, by original designation).

*Malacocentrus* Gill, 1862: 143 (type-species, *Xyrichthys taeniurus* Valenciennes, by original designation).

*Dimalacocentrus* Gill, 1863: 223 (type-species, *Novacula kallosoma* Bleeker, by monotypy).

*Semachlorella* Fowler & Bean, 1928: 367 (type-species, *Julis bifer*, Lay & Bennett, by original designation)

*Novaculops* Schultz, 1960: (122) 143 (type-species, *Novaculichthys woodi* Jenkins, by original designation).

This genus is under study by J.E. Randall and J.L. Earle; 7 species, including 3 undescribed species. Red Sea to eastern Pacific.

### ***Novaculichthys macrolepidotus* (Bloch)**

*Labrus macrolepidotus* Bloch, 1791: 135, pl. 284, fig. 2 (no locality).

*Labrus arago* Quoy & Gaimard, 1824: 263, pl. 65, fig. 2 (Iles des Papous).

*Julis taenianotus* Cuvier in Quoy & Gaimard, 1824: 271 (Waigeo, Indonesia).

*Julis trimaculata* Val., 1839: 386 (no locality; preoccupied by *Julis trimaculata* Quoy & Gaimard, 1834 [= *Halichoeres trimaculatus*]). *Novacula julioides* Bleeker, 1851b: 354 (Indonesia).

DISTRIBUTION: Indian Ocean to Mariana Ids.

### ***Novaculichthys perlas***

(Wellington, Allen & Robertson)

*Xyrichtys perlas* Wellington, Allen & Robertson, 1994: 49, figs. 1-3 (Isla San Jose, Perlas Ids, eastern Pacific).

DISTRIBUTION: Perlas Ids (Gulf of Panama).

### ***Novaculichthys taeniourus* (Lacepède)**

*Labrus taeniourus* Lacepède, 1801: 448, 518, pl. 29, fig. 1 (Great Equatorial Ocean [Mauritius]).

*Sparus hemisphaerium* Lacepède, 1802: 53, 160 (Madagascar).

*Sparus brachion* Lacepède, 1802: 54, 160 (Madagascar).

*Julis vanikorensis* Quoy & Gaimard, 1834: 704, pl. 20, fig. 1 (Vanikoro Id, Santa Cruz Ids, southwestern Pacific).

*Xyrichtys altipinnis* Rüppell, 1835: 22, pl. 7 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Julis bifer* Lay & Bennett, 1839: 64, pl. 18, fig. 2 (Oahu Id, Hawaiian Ids).

*Novacula cephalotaenia* Bleeker, 1854c: 333 (Indonesia).

*Novacula hoedtii* Bleeker, 1856a: 59 (Ambon, Indonesia).

*Novacula kallosoma* Bleeker, 1860b: 5 (Ambon and Bali).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Hawaiian Ids, and tropical eastern Pacific.

REMARKS: Valenciennes redescribed *Labrus taeniourus* Lacepède as *Xyrichtys taeniurus* nob. (Val., 1840: 54) and *Julis vanikorensis* Quoy & Gaimard as *Xyrichtys vanikolensis* nob. (Val., 1840: 57).

### ***Novaculichthys woodi* Jenkins**

*Novaculichthys woodi* Jenkins, 1901: 52, fig. 8 (Honolulu).

*Novaculichthys entargyreus* Jenkins, 1901: 53, fig. 9 (Honolulu, Oahu Id, Hawaiian Ids).

*Novaculichthys tattoo* Seale, 1901b: 5, fig. 2 (Honolulu).

*Xyrichthys sciistius* Jordan & Thompson 1914: 263, pl. 30, fig. 3 (Sagami Bay, Japan).

DISTRIBUTION: Hawaiian Ids and southern Japan.

### ***Novaculichthys* sp 1**

DISTRIBUTION: Lord Howe Id (Francis, 1993).

### ***Novaculichthys* sp 2**

DISTRIBUTION: Papua New Guinea.

### ***Novaculichthys* sp 3**

DISTRIBUTION: Easter Id.

### **Genus *Ophthalmolepis* Bleeker**

*Ophthalmolepis* Bleeker, 1862a: 413 (type-species, *Julis lineolatus* Valenciennes, by original designation).

One species.

### ***Ophthalmolepis lineolatus* (Valenciennes)**

*Julis lineolatus* Val., 1839: 436 (Victoria, Australia).

*Julis cyanogramma* Richardson, 1850: 73 (King George Sound, Western Australia).

*Pseudojulis lineata* Castelnau, 1873: 138 (Fremantle, WA).

*Julis adelaidensis* Castelnau, 1875: 35 (Adelaide).

DISTRIBUTION: Southern Queensland to southern and western Australia.

### **Genus *Oxycheilinus* Gill**

*Oxycheilinus* Gill, 1863: 143 (type-species, *Cheilinus arenatus* Valenciennes, by original designation).

Twelve species, of which 4 are undescribed (Westneat, pers. comm.); Indo-Pacific. Synonymies are partially based on Fowler (1928) and de Beaufort (1940) and they should be considered provisional. The genus is currently under revision by M.W. Westneat, J.E. Randall and M.F. Gomon.

***Oxycheilinus arenatus*** (Valenciennes)

*Cheilinus arenatus* Val., 1840: 101, pl. 397 (Réunion Id).

*Cheilinus notophthalmus* Bleeker, 1853d: 493 (Indonesia).

DISTRIBUTION: Red Sea, Indian Ocean to Micronesia and Samoa (in deep water).

***Oxycheilinus bimaculatus*** (Valenciennes)

*Cheilinus bimaculatus* Val., 1840: 96 (Honolulu).

*Cheilinus ceramensis* Bleeker, 1852c: 290 (Indonesia).

*Cheilinus mossambicus* Günther, 1862: 127 (Mozambique).

*Cheilinus melanopleura* Bleeker, 1866: 134 (Ambon Id).

*Cheilinus bifasciatus* Bleeker, 1871: 327, fig. 3 (Ambon).

DISTRIBUTION: Indo-Pacific, including Hawaiian Ids.

***Oxycheilinus celebicus*** (Bleeker)

*Cheilinus celebicus* Bleeker, 1853g: 171 (Indonesia).

*Cheilinus hoevenii* Bleeker, 1862b: 297 (Indonesia).

*Cheilinus oxyrhynchus* Bleeker, 1862b: 300 (Sulawesi; Ambon and Batjan; Indonesia).

DISTRIBUTION: Indo-Australian Archipelago and Japan.

***Oxycheilinus digramma*** (Lacepède)

*Labrus digramma* Lacepède, 1801: 448, 518, pl. 1, fig. 2 (Mauritius).

*Sparus radiatus* Bloch & Schneider, 1801: 270 (East Indies).

*Cheilinus coccineus* Rüppell, 1828: 23 ([Jeddah, Red Sea).

*Cheilinus commersoni* Bennett, 1832a: 167 (Mauritius).

*Cheilinus radiatus* Val., 1840: 91 (Red Sea).

*Cheilinus roseus* Val., 1840: 105 (Ulea, Caroline Ids).

*Cheilinus lacrymans* Val., 1840: 109 (Indonesia).

DISTRIBUTION: Red Sea to western Pacific.

REMARKS: the name has been often incorrectly spelled *diagrammus* (Kyushin et al., 1977; Dor, 1984; Yamakawa in Masuda et al. 1984; Randall 1986a.

### ***Oxycheilinus mentalis*** (Rüppell)

*Cheilinus mentalis* Rüppell, 1828: 24 (Massawa, Eritrea).

*Cheilinus venosus* Val., 1840: 100 (Suez, Red Sea).

DISTRIBUTION: Red Sea and Gulf of Aden.

### ***Oxycheilinus orientalis*** (Günther)

*Cheilinus orientalis* Günther (ex Bleeker), 1862: 132 (Batjan, Indonesia).

DISTRIBUTION: Indonesia to New Caledonia.

### ***Oxycheilinus rhodochrous*** (Playfair & Günther)

*Cheilinus rhodochrous* Playfair & Günther, 1867: 90, pl. 11, fig. 3 (Zanzibar).

DISTRIBUTION: Zanzibar.

REMARKS: erroneously regarded as the senior synonym of *Cheilinus unifasciatus* Streets by de Beaufort (1940). The citation by Masuda et al. (1984) appears to be a misidentification of *C. unifasciatus*. Provisionally, we consider it valid. Perhaps it is a deeper water fish not seen in normal diving depths.

### ***Oxycheilinus unifasciatus*** (Streets)

*Cheilinus polygramma* Val., 1840: 103 (Caroline Ids).

*Cheilinus unifasciatus* Streets, 1877: 82 (Line Ids).

*Chilinus [sic] hexagonatus* Günther, 1881: 287, pl. 135, fig. B (Yap Id; Hawaiian Ids).

*Cheilinus zonurus* Jenkins, 1901: 56, fig. 13 (Johnson Id, central Pacific).

*Cheilinus cingulatus* Weber, 1913: 365, pl. 9, fig. 5 (Binongka, Siboga sta. 220; Banda, Siboga sta. 240).

DISTRIBUTION: western and central Pacific, including Pitcairn Group.

REMARKS: This species was often misidentified as *Cheilinus rhodochrous*. Randall and Parenti (1999) proposed the rejection of *Cheilinus polygramma* in order to conserve *O. unifasciatus*.

### ***Oxycheilinus* sp 1**

DISTRIBUTION: Red Sea.



### ***Oxycheilinus* sp 2**

DISTRIBUTION: New Caledonia, southeastern Australia.

### ***Oxycheilinus* sp 3**

DISTRIBUTION: Indonesia.

### ***Oxycheilinus* sp 4**

DISTRIBUTION: Rarotonga, Cook Ids.

### **Genus *Oxyjulis* Gill**

*Oxyjulis* Gill, 1863: 223 (type-species, *Halichoeres californicus* Günther, by original designation).

One species.

### ***Oxyjulis californica* (Günther)**

*Julis modestus* Girard, 1854: 151 (Monterey and San Diego, California; preoccupied by *Julis modestus* Bleeker, 1847 [= *Halichoeres chloropterus* (Bloch)]).

*Halichoeres californicus* Günther, 1861: 386 *nomen novum* for *Julis modestus* Girard.

DISTRIBUTION: California to Baja California.

### **Genus *Paracheilinus* Fourmanoir**

*Paracheilinus* Fourmanoir in Roux-Estève & Fourmanoir, 1955: 199 (type-species, *Paracheilinus octotaenia* Fourmanoir, by original designation).

Genus revised by Randall & Lubbock (1981); 13 species. Red Sea to Hawaiian Ids and Fiji.

### ***Paracheilinus angulatus* Randall & Lubbock**

*Paracheilinus angulatus* Randall & Lubbock, 1981: (21) 26, pl. 2, fig. D (Batangas, Luzon Id, Philippines).

DISTRIBUTION: Philippines.

### ***Paracheilinus attenuatus* Randall, 1999**

*Paracheilinus attenuatus* Randall, 1999: 34, figs 2-6 (St François, Amirante Ids, Seychelles).

DISTRIBUTION: Seychelles and off Kenya.

***Paracheilinus bellae*** Randall

*Paracheilinus bellae* Randall, 1988: 222, pls. 2, fig. D and 3, fig. H (Kwajalein Atoll, Marshall Ids).

DISTRIBUTION: Marshall Ids.

***Paracheilinus carpenteri*** Randall & Lubbock

*Paracheilinus carpenteri* Randall & Lubbock, 1981: 24, pl. 2, figs. A-B (Mactan Id, east of Cebu, Philippines).

*Paracheilinus* sp. 2 Debelius & Kuitert, 1994: 232.

DISTRIBUTION: Philippines, Indonesia, and Taiwan.

***Paracheilinus cyaneus*** Kuitert & Allen

*Paracheilinus cyaneus* Kuitert & Allen, 1999: 121, figs. 1-3 (Bandang Id, Banggai Ids, Indonesia).

DISTRIBUTION: Banggai Ids, Derawan Id, Sulawesi.

***Paracheilinus filamentosus*** Allen

*Paracheilinus filamentosus* Allen, 1974: 452, fig. 2 (Kranket Id, Madang, New Guinea).

DISTRIBUTION: East Indies.

***Paracheilinus flavianalis*** Kuitert & Allen

*Paracheilinus flavianalis* Kuitert & Allen, 1999: 123, figs. 4-7 (Scott Reef, Western Australia).

DISTRIBUTION: Indonesia, northwestern Australia.

***Paracheilinus hemitaeniatus*** Randall & Harmelin-Vivien

*Paracheilinus hemitaeniatus* Randall & Harmelin-Vivien, 1977: 338, fig. 4 (Tuléar, Madagascar).

DISTRIBUTION: Madagascar and South Africa (photograph by Dennis King of a specimen from KwaZulu-Natal, P.C. Heemstra, pers. comm.).

***Paracheilinus lineopunctatus*** Randall & Lubbock

*Paracheilinus lineopunctatus* Randall & Lubbock, 1981: 21, pl. 1, fig. B (Mactan Id, east of Cebu, Philippines).

DISTRIBUTION: Philippines.

***Paracheilinus mccoskeri*** Randall & Harmelin-Vivien

*Paracheilinus mccoskeri* Randall & Harmelin-Vivien, 1977: 332, fig. 2 (Grande Comore, Comoro Ids).

*Parachelinus* sp. 1 Debelius & Kuitert, 1994: 232.

DISTRIBUTION: western Indian Ocean, Comores, Persian Gulf, Maldives to Fiji.

***Paracheilinus octotaenia*** Fourmanoir

*Paracheilinus octotaenia* Fourmanoir in Roux-Estève & Fourmanoir, 1955: 199, fig. 1 (Abu Latt, Red Sea).

DISTRIBUTION: Red Sea.

***Paracheilinus piscilineatus*** (Cornic)

*Cirrhilabrus piscilineatus* Cornic, 1987: 141 (Mauritius).

DISTRIBUTION: Mauritius.

***Paracheilinus togeanensis*** Kuitert & Allen

*Paracheilinus togeanensis* Kuitert & Allen, 1999: 127, fig. 8 (Batudaka Id, Togean Islands, Indonesia).

DISTRIBUTION: Indonesia.

**Genus *Parajulis*** Bleeker

*Parajulis* Bleeker, 1865: 251 (type-species, *Julis poecilepterus* Temminck & Schlegel, by original designation).

One species.

***Parajulis poecilepterus*** (Temminck & Schlegel)

*Julis poecilepterus* Temminck & Schlegel, 1845: 169, pl. 86 bis, fig. 1 (Bay of Sinabara, Japan).

*Julis poecilopterus* Richardson, 1846b: 260 (China).

*Julis thirsites* Richardson, 1846b: 260 (Canton, China).

*Julis pyrrhogramma* Schlegel in Temminck & Schlegel, 1845: 170, pl. 86bis, fig. 2 (Nagasaki, Japan).

DISTRIBUTION: Korea, northern Japan at Hakodate to Taiwan and Hong Kong (but not Ryukyu Ids).

REMARKS: In a revision of *Leptojulis*, Randall & Ferraris (1981), wrote "According to Nguyen Tri Truc (pers. comm.), who wrote his Ph D dissertation on the osteology of Japanese labrid fishes, *Julis poecilepterus* should be placed in the monotypic genus *Parajulis*." *Parajulis* is distinguishable from *Halichoeres* by the following combination of characters: vertebral number 9-10+17-18; second anal pterygiophore lies before first haemal spine; juncture of dentaries sutured; two pairs of enlarged anterior canines on each jaw; teeth on side of jaws small; epiotic-parietal-frontal crest meet ridge of median groove far from the junction of frontal; D IX, 14; A III, 14. In the literature the specific name is often spelled as *poecilopterus* (Masuda et al., 1984: 209; Shen, 1993: 459; Kuitert and Randall, 1995: 113).

**Genus *Pictilabrus*** Gill

*Pictilabrus* Gill, 1891: 403 (type-species, *Labrus laticlavus* Richardson, by monotypy).

Revised by Russell (1988); 3 species. Southern Australia.

***Pictilabrus brauni*** Hutchins & Morrison

*Pictilabrus brauni* Hutchins & Morrison, 1996: 39, figs. 1, 4, 7 (Cheyne Beach, Western Australia).

DISTRIBUTION: south coast of Western Australia.

***Pictilabrus laticlavus*** (Richardson)

*Labrus laticlavus* Richardson, 1840: 26 (Tasmania).

*Hemigymnus bleasdalei* Castelnau, 1875: 38 (Adelaide).

*Labrichthys labiosa* Macleay, 1881: 88, pl. 1, fig. 2 (Port Jackson, New South Wales, Australia).

*Eupetrichthys gloveri* Scott in Scott, Glover & Southcott, 1974: 303 (Thistle Id, South Australia).

DISTRIBUTION: New South Wales to western Australia.

***Pictilabrus viridis*** Russell

*Pictilabrus viridis* Russell, 1988: 38, figs. 8,12-13, 15-18, 23; pl. 4e-f (Lucky Bay, Cape La Grande, W.A.).

DISTRIBUTION: southwestern Australia.

**Genus *Polylepion*** Gomon

*Polylepion* Gomon, 1977: 622 (type-species, *Bodianus russelli* Gomon & Randall, by original designation).

Two species. Eastern to western Pacific.

***Polylepion cruentum*** Gomon

*Polylepion cruentum* Gomon, 1977: 624, figs. 1, 2 left, 3 (eastern Pacific off Quepos, Costa Rica).

DISTRIBUTION: Gulf of California to Costa Rica.

***Polylepion russelli*** (Gomon & Randall)

*Bodianus russelli* Gomon & Randall, 1975: 444 (off Moku Manu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids, Society Ids, Marianas, and Okinawa (at depths over 100 m).

**Genus *Pseudocheilinops*** Schultz

*Pseudocheilinops* Schultz in Schultz et al., 1960: 128 (type-species, *P. ataenia* Schultz, by original designation).

One species.

***Pseudocheilinops ataenia*** Schultz

*Pseudocheilinops ataenia* Schultz in Schultz et al., 1960: 129, fig. 94 (Talissee Id, Sulawesi, Indonesia).

DISTRIBUTION: Indonesia, Philippines, and Micronesia.

## **Genus *Pseudocheilinus* Bleeker**

*Pseudocheilinus* Bleeker, 1862a: 409 (type-species, *Cheilinus hexataenia* Bleeker, by original designation).

Genus revised by Randall (1999a); 7 species; Indo-Pacific.

### ***Pseudocheilinus citrinus* Randall**

*Pseudocheilinus citrinus* Randall, 1999: 5, pl. 1A (Pitcairn Id).

DISTRIBUTION: Cook, Austral and Pitcairn Ids.

### ***Pseudocheilinus dispilus* Randall**

*Pseudocheilinus dispilus* Randall, 1999a: 10, pl. 1B,C (Réunion).

DISTRIBUTION: Réunion and Mauritius.

### ***Pseudocheilinus evanidus* Jordan & Evermann**

*Pseudocheilinus evanidus* Jordan & Evermann, 1903: 192 (Hawaii, Hawaiian Ids).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Japan, Australia, Hawaiian and Marquesas Ids.

### ***Pseudocheilinus hexataenia* (Bleeker)**

*Cheilinus hexataenia* Bleeker, 1857c: 84 (Indonesia).

*Pseudocheilinus psittaculus*, Kner & Steindachner 1867: 376 [21], pl. 3, fig. 7 (Phoenix Ids, Pacific).

*Cossyphus echis* Guichenot, 1869: 197, pl. 12, fig. 5 (Madagascar).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Ryukyus, Johnston Id, Australia, Lord Howe and Tuamotu Ids, but not at the Hawaiian Ids.

### ***Pseudocheilinus ocellatus* Randall, 1999**

*Pseudocheilinus ocellatus* Randall: 1999a: 21, fig. 3, pls 1H, 2A (Laura Id, Majuro Atoll, Marshall Ids).

DISTRIBUTION: western-central Pacific, Japan and Pitcairn.

### ***Pseudocheilinus octotaenia*** Jenkins

*Pseudocheilinus octotaenia* Jenkins, 1901: 64, fig. 22 (Honolulu, Oahu Id, Hawaiian Ids).  
*Pseudocheilinus margaretae* Smith, 1956a: 929, fig.1 (Aldabra Id, Seychelles).

DISTRIBUTION: Indo-Pacific, from South Africa to Hawaiian Ids and Pitcairn Group.

### ***Pseudocheilinus tetrataenia*** Schultz

*Pseudocheilinus tetrataenia* Schultz in Schultz et al., 1960: 167, fig. 98 (Reer Id, Bikini Atoll, Marshall Ids).

DISTRIBUTION: Islands of Oceania, including Hawaiian Ids and Pitcairn Ids.

### **Genus *Pseudocoris*** Bleeker

*Pseudocoris* Bleeker, 1862a: 411 (type-species, *Julis (Halichoeres) heteropterus* Bleeker, by original designation).

Five species (Chen & Shao, 1995). Indo-Pacific.

### ***Pseudocoris aurantiofasciata*** Fourmanoir

*Pseudocoris aurantiofasciatus* Fourmanoir, 1971: 130, fig. 2 (Rangiroa, Tuamotu Archipelago).

DISTRIBUTION: central and western Pacific.

### ***Pseudocoris bleekeri*** (Hubrecht)

*Coris bleekeri* Hubrecht, 1876: 214 (Moluccas, Indonesia).  
*Coris philippina* Fowler & Bean, 1928: 309, pl. 42 (Sulade Id, Philippines).  
*Julis albolumbata* Schmidt, 1931: 87, fig. 8 (Okinawa Id).

DISTRIBUTION: Ryukyu Ids to Indonesia.

### ***Pseudocoris heteroptera*** (Bleeker)

*Julis (Halichoeres) heteropterus* Bleeker, 1857c: 78 (Ambon Id, Moluccas Ids, Indonesia).

DISTRIBUTION: South Africa, Seychelles to western Pacific.

### ***Pseudocoris ocellata*** Chen & Shao

*Pseudocoris ocellatus* Chen & Shao, 1995: 690, fig. 1 (Wanlitung, southern Taiwan).

DISTRIBUTION: Taiwan.

***Pseudocoris yamashiroi*** (Schmidt)

*Julis yamashiroi* Schmidt, 1931: 85, fig. 5 (Okinawa).

*Julis awayae* Schmidt, 1931: 86, figs. 6-7 (Okinawa).

DISTRIBUTION: Indo-Pacific, Maldives to Japan and Samoa.

**Genus *Pseudodax*** Bleeker

*Pseudodax* Bleeker, 1861b: 229 (type-species, *Odax moluccanus* Valenciennes, by original designation).

One species.

***Pseudodax moluccanus*** (Valenciennes)

*Odax moluccanus* Val., 1840: 305, pl. 408, fig. 2 (Moluccas Ids, Indonesia).

*Odax borbonicus* Val., 1840: 306 (Réunion Id).

*Odax varius* Val., 1840: 307 (Ulea, Caroline Ids).

*Pseudodax moluccensis* Günther, 1862: 208 (emendation).

DISTRIBUTION: Red Sea to South Africa, southern Japan, Society Ids, Marquesas and Tuamotu Ids.

REMARKS: Synonymy from Randall and Parenti (1999).

**Genus *Pseudojuloides*** Fowler

*Pseudojuloides* Fowler, 1949: 119 (type-species, *Pseudojulis cerasina* Snyder, by original designation).

Genus revised by Randall and Randall (1981); 11 species Red Sea to South Africa and Eastern Pacific.

***Pseudojuloides argyreogaster*** (Playfair & Günther)

*Pseudojulis argyreogaster* Playfair & Günther, 1867: 95, pl. 12, fig. 2 (Zanzibar).



DISTRIBUTION: Zanzibar, Seychelles.

***Pseudojuloides atavai*** Randall & Randall

*Leptojulius* sp. Randall, 1973: 198.

*Pseudojuloides atavai* Randall & Randall, 1981: 58, figs. 4-5 (Pitcairn Id).

DISTRIBUTION: French Polynesia, Pitcairn Group, Guam.

***Pseudojuloides cerasinus*** (Snyder)

*Pseudojulius cerasina* Snyder, 1904: 528 (Honolulu)

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Hawaiian Ids, and eastern Pacific.

***Pseudojuloides elongatus*** Ayling & Russell

*Pseudojuloides elongatus* Ayling & Russell, 1977: 174, figs. 4-6, 8-10 (Poor Knights Ids, New Zealand).

DISTRIBUTION: Japan, New Zealand, Australia.

***Pseudojuloides erythrops*** Randall & Randall

*Pseudojuloides erythrops* Randall & Randall, 1981: 71, figs. 13-14 (Mauritius).

DISTRIBUTION: Mauritius and Seychelles.

***Pseudojuloides inornatus*** (Gilbert)

*Pseudojulius inornatus* Gilbert, 1890: 67 (off Baja California, Mexico).

DISTRIBUTION: Baja California.

REMARKS: David G. Smith examined the holotype and only known specimen of this species at the U.S. National Museum of Natural History and confirmed that the dentition is that of the genus *Pseudojuloides*. The description of the colour of the specimen in preservative by Gilbert does not match of any species of the genus.

***Pseudojuloides kaleidos*** Kuitert & Randall

*Pseudojuloides kaleidos* Kuitert & Randall, 1995: 107, figs. 1-4 (Maldives).

DISTRIBUTION: Maldives and Indonesia.

***Pseudojuloides mesostigma*** Randall & Randall

*Pseudojuloides mesostigma* Randall & Randall, 1981: 68, figs. 11-12 (Philippines).

DISTRIBUTION: East Indies and Philippines.

***Pseudojuloides pyrius*** Randall & Randall

*Pseudojuloides pyrius* Randall & Randall, 1981: 62, figs. 6-7 (Tahuata, Marquesas Ids).

DISTRIBUTION: Marquesas Ids.

***Pseudojuloides severnsi*** Bellwood & Randall

*Pseudojuloides* sp. 1: Masuda & Kobayashi (1994)

*Pseudojuloides severnsi* Bellwood & Randall, 2000: 1, figs 1-5 (Alor, Indonesia).

DISTRIBUTION: Ryukyu Ids and Alor, Indonesia.

***Pseudojuloides xanthomos*** Randall & Randall

*Pseudojuloides xanthomos* Randall & Randall, 1981: 67, fig. 10 (Gunner's Quoin, Mauritius).

DISTRIBUTION: Mauritius.

**Genus *Pseudolabrus*** Bleeker

*Pseudolabrus* Bleeker, 1862a: 413 (type-species, *Labrus rubiginosus* Temminck & Schlegel, by original designation).

*Lunolabrus* Whitley, 1933: 86 (type-species, *Labrus miles* Bloch & Schneider, by original designation, proposed as a subgenus).

Genus revised by Russell (1988) and Mabuchi and Nakabo (1997); 11 species. South Pacific, except two species from Japan, Korea, Taiwan and coast of China.

***Pseudolabrus biserialis*** (Klunzinger)

*Labrichthys biserialis* Klunzinger, 1880: 402 (King George Sound, Western Australia).

DISTRIBUTION: southwestern Australia.

***Pseudolabrus eoethinus*** (Richardson)

*Labrus eoethinus* Richardson, 1846b: 255 (Canton, China).

*Labrus rubiginosus*, in part, Temminck & Schlegel, 1845: 165, pl. 86, fig. 1 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 [= *Symphodus* sp.]).

DISTRIBUTION: Japan, Ogasawara Archipelago, and Korea to Hong Kong.

***Pseudolabrus fuentesi*** (Regan)

*Labrichthys fuentesi* Regan, 1913: 371, pl. 58, fig. 2 (Easter Id).

DISTRIBUTION: Easter Id to Austral Ids.

***Pseudolabrus gayi*** (Valenciennes)

*Labrus gayi* Val., 1839: 97 (Juan Fernández Ids).

DISTRIBUTION: Juan Fernandez Id and San Felix Id.

***Pseudolabrus guentheri*** Bleeker

*Pseudolabrus guentheri* Bleeker, 1862: 131 (Australia).

*Labrichthys australis* Steindachner, 1866a: 476 (South Pacific).

*Pseudolabrus richardsonii* Steindachner, 1867b: 332 (Port Jackson, New South Wales, Australia).

*Labrichthys dorsalis* Macleay, 1881: 87 (Sydney).

*Labrichthys melanura* Macleay, 1881: 89 (Sydney).

*Labrichthys dux* De Vis, 1883: 287 (Queensland).

*Labrichthys cruentatus* De Vis, 1885: 879 (Queensland).

*Labrichthys maculatus* De Vis, 1885: 881 (Moreton Bay, Queensland; preoccupied by *Labrichthys maculata* Macleay 1881 [= *Austrolabrus maculatus*]).

*Labrichthys rex* De Vis, 1885: 880 (Queensland).

*Labrichthys sexlineatus* De Vis, 1885: 880 (Queensland).

DISTRIBUTION: east coast of Australia.

REMARKS: Günther (1862: 507) included the description of *Labrichthys guentheri* Bleeker from Bleeker's manuscript proofsheets.

***Pseudolabrus luculentus*** (Richardson)

*Labrus luculentus* Richardson, 1848: 130 (Norfolk Id).

DISTRIBUTION: New South Wales, Lord Howe Id, Kermadec Ids, Norfolk Id, and New Zealand.

***Pseudolabrus miles*** (Forster)

*Labrus miles* Forster in Bloch & Schneider, 1801: 264 (New Zealand).

*Julis ?rubecula* Richardson (ex Solander), 1843c: 423 (Queen Charlotte Sound, New Zealand).

*Julis ?rubiginosus* Richardson (ex Solander and Parkinson), 1843c: 425 (New Zealand).

*Labrichthys roseipunctata* Hutton, 1880: 455 (Dunedin, New Zealand).

*Pseudolabrus cossyphoides* Steindachner, 1900: 176 (New Zealand).

DISTRIBUTION: New Zealand.

***Pseudolabrus rubicundus*** (Macleay)

*Labrus psittaculus* Richardson 1840: 26 (Port Arthur, Tasmania; preoccupied by *Labrus psittaculus* Lacepède, 1801 [= *Halichoeres bivittatus* (Bloch)]).

*Labrichthys rubicunda* Macleay, 1881: 89 (King George Sound, Western Australia).

*Labrichthys mortonii* Johnston, 1885b: lxxxiv, xciv, 256 (mouth of Derwent River, Tasmania).

DISTRIBUTION: southeastern Australia.

***Pseudolabrus semifasciatus*** (Rendahl)

*Labrichthys semifasciatus* Rendahl, 1921: 65 (Easter Id).

DISTRIBUTION: Easter Id.

***Pseudolabrus sieboldi*** Mabuchi & Nakabo

*Labrus rubiginosus* Richardson, 1846: 255 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 [= *Symphodus* sp.] and secondarily preoccupied by *Julis ?rubiginosus* Richardson, 1843 [= *Pseudolabrus miles* (Forster)]).

*Labrus rubiginosus* (in part) Temminck & Schlegel, 1846: 165 (Japan; preoccupied by *Labrus rubiginosus* Risso, 1827 and *Labrus rubiginosus* Richardson, 1846).

*Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997: 323 (Morode Beach, Ehime Pref., Japan).

DISTRIBUTION: southern Japan and Taiwan.

REMARKS: Mabuchi and Nakabo (1997) regarded *Labrus japonicus* Houttuyn, 1782 as a *nomen dubium* and proposed the new name *P. sieboldi* for the Japanese species most authors have identified as *P. japonicus* (Houttuyn).

***Pseudolabrus torotai*** Russell & Randall

*Pseudolabrus torotai* Russell & Randall, 1981: 437, fig. 4 (Rapa Id, South Pacific).

DISTRIBUTION: Rapa.

**Genus *Pteragogus*** Peters

*Pteragogus* Peters, 1855: 451 (type-species, *Cossyphus opercularis* Peters, by monotypy).  
*Duymaeria* Bleeker, 1856a: 52 (type-species, *Duymaeria amboinensis* Bleeker, by subsequent designation).

*Labrastrum* Guichenot, 1860: 153 (type-species, *Ctenolabrus flagellifer* Valenciennes, by original designation).

Eight species (one undescribed). Indo-West Pacific.

***Pteragogus aurigarius*** (Richardson)

*Ctenolabrus aurigarius* Richardson, 1845: 90, pl. 45, figs. 1-2 (China seas near Canton).

*Ctenolabrus rubellio* Richardson, 1845: 93, pl. 45, fig. 3 (China seas near Canton).

*Crenilabrus spilogaster* Bleeker, 1854d: 416 (Nagasaki).

*Duymaeria japonica* Bleeker, 1856a: 53 (Nagasaki).

DISTRIBUTION: Japan and Taiwan.

***Pteragogus cryptus*** Randall

*Pteragogus cryptus* Randall, 1981b: 83 ( Eilat, Israel, Gulf of Aqaba).

DISTRIBUTION: Indo-Pacific, Red Sea to Samoa.

***Pteragogus enneacanthus*** (Bleeker)

*Crenilabrus enneacanthus* Bleeker, 1853a: 120 (Ambon).

*Duymaeria amboinensis* Bleeker, 1856a: 54 (Ambon Id).

DISTRIBUTION: East Indies.

***Pteragogus flagellifer*** (Valenciennes)

*Labrus ramentosus* Forsskål, 1775: 34 (Yemen, Red Sea).

*Ctenolabrus flagellifer* Val., 1839: 240 (no locality).

*Crenilabrus nematopterus* Bleeker, 1851b: 250 (Banda Neira, Banda Ids, Indonesia).

*Cossyphus filamentosus* Peters, 1855: 435 (Mozambique).

*Duymaeria caeruleomaculata* Günther, 1862: 122 (Aneityum [Aneiteum] Id, Vanuatu [New Hebrides]).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and western Pacific.

REMARKS: synonymy from Smith (1957a). Parenti & Randall (1998) proposed that the little-used name *Labrus ramentosus* Forsskål be suppressed .

### ***Pteragogus guttatus*** (Fowler & Bean)

*Duymaeria guttata* Fowler & Bean, 1928: 218 (Samar Id, Philippines).

DISTRIBUTION: Philippines, Indonesia and Palau.

### ***Pteragogus pelycus*** Randall

*Cossyphus opercularis* Peters, 1855: 451 (Mozambique; preoccupied by *Cossyphus opercularis* Guichenot, 1847 [= *Bodianus opercularis* (Guichenot)]).

*Pteragogus pelycus* Randall, 1981b: 82, pl. 1, figs. 1-2 *nomen novum* for *Cossyphus opercularis* Peters.

DISTRIBUTION: Western Indian Ocean, Red Sea to South Africa, Madagascar, Mauritius, and Seychelles; also eastern Mediterranean from Israel (Golani & Sonin) to Rhodes Id, Greece (Corsini & Economidis, 1999).

### ***Pteragogus taeniops*** (Peters)

*Cossyphus taeniops* Peters, 1855: 453 (Mozambique).

DISTRIBUTION: southern Mozambique to Zanzibar.

### ***Pteragogus* sp 1**

DISTRIBUTION: presently known only from Ogasawara Ids (Randall et al., 1997).

### **Genus *Semicossyphus*** Günther

*Semicossyphus* Günther, 1861: 384 (type-species, *Cossyphus reticulatus* Valenciennes, by subsequent designation).

*Pimelometopon* Gill, 1864: 58 (type-species, *Labrus pulcher* Ayres, by original designation).

Three species; Japan and eastern Pacific. Gomon (1997) considered *Pimelometopon* as a

synonym, but according to Maurizio Protti (who is currently reviewing the labroids of Chile) it is a valid genus.

### ***Semicossyphus darwini*** (Jenyns)

*Cossyphus darwini* Jenyns, 1842: 100, pl. 20 (Galápagos).

*Labrus aper* Valenciennes, 1846: pl. 8, fig. 1 (Galápagos Ids; preoccupied by *Labrus aper* Retzius, 1800 [= *Labrus bergylta* Ascanius]; description published later [Valenciennes, 1855: 338]).

*Trochocopus canis* Philippi, 1887: 570 [38], pl. 7, fig. 3 (Iquique, Valparaíso, Chile).

*Dentex maculatus* Perez Canto, 1886: 12 (Valparaiso).

DISTRIBUTION: Ecuador to Chile, including Galápagos Ids.

REMARKS: synonymy from M. Protti (pers. comm.).

### ***Semicossyphus pulcher*** (Ayres)

*Labrus pulcher* Ayres, 1854: 174 (San Diego, California).

DISTRIBUTION: California to Gulf of California.

### ***Semicossyphus reticulatus*** (Valenciennes)

*Cossyphus reticulatus* Val., 1839: 139 (Japan).

*Semicossyphus robecchii* Steindachner & Bellotti in Steindachner & Döderlein, 1887: 271 (Yokohama).

DISTRIBUTION: Japan, Korea and China.

### **Genus *Stethojulis*** Günther

*Stethojulis* Günther, 1862: 386 (type-species, *Julis strigiventer* Bennett, by subsequent designation).

*Hinalea* Jordan & Jordan, 1922: 69 (type-species *Julis axillaris* Quoy & Gaimard, by original designation).

*Rhytejulis* Fowler & Bean, 1928: 232, 241 (type-species, *Labrus trilineatus* Bloch & Schneider, by original designation).

Genus revision by Randall (2000); 10 species. Red Sea to eastern Pacific.

### ***Stethojulis albovittata*** (Bonnaterre)

*Labrus albovittatus* Bonnaterre, 1788: 108, pl. 98 (no locality).

*Labrus koelreuteri* Walbaum, 1792: 262 (no locality).

DISTRIBUTION: Red Sea and western Indian Ocean.

### ***Stethojulis balteata*** (Quoy & Gaimard)

*Julis balteatus* Quoy & Gaimard, 1824: 267, pl. 56, fig.1 (Maui, Hawaiian Ids).

*Julis axillaris* Quoy & Gaimard, 1824: 272 (Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

### ***Stethojulis bandanensis*** (Bleeker)

*Julis (Halichoeres) bandanensis* Bleeker, 1851b: 254 (Banda Neira, Banda Ids, Indonesia).

?*Julis sukl* Montrouzier, 1857: 473 (Woodlark Id)

*Stethojulis fulvoventris* Seale, 1901a: 92 (Guam).

*Stethojulis rubromacula* Scott, 1959: 87, fig. 7 (Shark Bay, Western Australia).

*Stethojulis linearis* Schultz in Schultz et al., 1960: 214, pl. 107, fig. E (Enyu Id, Bikini Atoll, Marshall Ids).

DISTRIBUTION: western Pacific to islands of the tropical eastern Pacific.

### ***Stethojulis interrupta*** (Bleeker)

*Labrus chlorocephalus* Bloch & Schneider 1801: 254 (India).

*Julis (Halichoeres) interruptus* Bleeker, 1851b: 252 (Banda Neira, Banda Ids, Indonesia).

*Julis (Halichoeres) kalosoma* Bleeker, 1852c: 289 (Ambon Id, Moluccas Ids, Indonesia).

*Stethojulis kallosoma* Bleeker, 1862b: 290 (unjustified emendation of *Julis (Halichoeres) kalosoma* Bleeker).

*Stethojulis zatima* Jordan & Seale, 1905: 788, fig. 9 (Negros, Philippines).

DISTRIBUTION: Indo-West Pacific from South Africa to the Philippines, Indonesia and eastern Australia.

REMARKS: the holotype of *Labrus chlorocephalus* (ZMB 2619, 54 mm SL) was examined by H.-J. Paepke with a key to species of *Stethojulis* by Randall and Kay (1974), and he concluded that it is *Stethojulis interrupta*. Randall and Parenti (1999) proposed the rejection of the name *Labrus chlorocephalus* in order to conserve the well known *Stethojulis interrupta*.

### ***Stethojulis maculata*** Schmidt

*Stethojulis maculatus* Schmidt, 1931: 81, pl. 5, fig. 1 (Kominato, Amami-Oshimo Id, Ryukyu Ids, Japan).



DISTRIBUTION: anti-equatorial; Ryukyu Ids, Fiji, Norfolk Id.

***Stethojulis marquesensis*** Randall, 2000

*Stethojulis marquesensis* Randall, 2000: 20, fig. 5, pls III C, D (Uaa Huka, Marquesas Ids).

Distribution: Marquesas Islands.

***Stethojulis notialis*** Randall

*Stethojulis notialis* Randall, 2000: 22, fig. 7, pls IC, D (Nukulau Id, Fiji Ids).

DISTRIBUTION: Fiji Islands, New Caledonia, Norfolk Id.

***Stethojulis strigiventer*** (Bennett)

*Julis strigiventer* Bennett, 1832c: 184 (Mauritius).

*Julis (Halichoeres) renardi* Bleeker, 1851b: 253 (Banda Neira, Banda Ids, Indonesia).

*Stethojulis psacas* Jordan & Snyder, 1902: 629, fig. 5 (Naha, Okinawa Id, Ryukyu Ids, Japan).

DISTRIBUTION: South Africa to western Pacific and Samoa.

***Stethojulis terina*** Jordan & Snyder

*Stethojulis terina* Jordan & Snyder, 1902: 631, fig. 6 (Misaki, Kanagawa Pref., Sagami Sea, Japan).

*Stethojulis trossula* Jordan & Snyder, 1902: 633, fig. 7 (Misaki, Kanagawa Pref., Sagami Sea, Japan).

DISTRIBUTION: Honshu, Japan to Taiwan and Hainan

***Stethojulis trilineata*** (Bloch & Schneider)

*Labrus trilineatus* Bloch & Schneider, 1801: 253 (India).

*Julis sebanus* Val., 1839: 474 (no locality).

*Julis (Halichoeres) phekadopleura* Bleeker, 1849b: 8 (Boleling, northern Bali, Indonesia).

*Julis (Halichoeres) casturi* Bleeker, 1852g: 768 (Ujung Pandang, Celebes, Indonesia).

*Julis sukl* Montrouzier, 1857: 473 (Woodlark Id).

*Halichoeres sebae* Kner, 1860: 12, pl. 1, fig. 9 (no locality).

*Stethojulis casturi* Günther, 1881: 255 (Oceania: Palau, Yap, and Futuna).

*Stethojulis phekadopleura* Martens, 1876: 397 (Ambon, Moluccas Ids, Indonesia).

*Stethojulis filholi* Sauvage, 1880: 225 (Fiji Ids).

DISTRIBUTION: Maldives, to western Pacific and Samoa.

### ***Suezichthys* Smith**

*Suezia* Smith, 1957a: 100, 106 (type-species, *Labrichthys caudovittatus* Steindachner, by original designation, preoccupied in Crustacea).

*Suezichthys* Smith, 1958: 319 (replacement name for *Suezia* Smith, 1957).

Genus revised by Russell (1985); 10 species, and one undescribed species. Indo-Pacific.

### ***Suezichthys arquatus* Russell**

*Suezichthys arquatus* Russell, 1985: 15, pl. 3, figs A-B); Figs. 1, 6c, 7b (Poor Knights Id, New Zealand).

DISTRIBUTION: New Zealand, New Caledonia, eastern Australia, Lord Howe Id, and Norfolk Id; also recorded from Honshu, Japan (Araga et al., 1988) and Ogasawara Ids (Randall et al. (1997).

### ***Suezichthys aylingi* Russell**

*Suezichthys aylingi* Russell, 1985: 5, pl. 1, figs A-B (Poor Knights Id, New Zealand).

DISTRIBUTION: New Zealand and southeastern Australia.

### ***Suezichthys bifurcatus* Russell**

*Suezichthys bifurcatus* Russell, 1986: 59, figs. 1-2 (Great Australian Bight, 34°20'-34°21'S, 123°42'-123°43'E).

DISTRIBUTION: western Australia.

### ***Suezichthys caudavittatus* (Steindachner)**

*Labrichthys caudavittatus* Steindachner, 1898a: 199 (Suez, Red Sea).

*Labrichthys caudovittatus* Steindachner, 1898b: 783, pl. 1 (further description and illustration).

DISTRIBUTION: Red Sea, Somalia, and Persian Gulf.

REMARKS: Spelt *caudovittatus* by Dor (1984: 208) and Russell (1985: 10).

***Suezichthys cyanolaemus* Russell**

*Suezichthys cyanolaemus* Russell, 1985: 13, pl. 2, figs. C-D; fig. 7a (Rottneest Id, Western Australia).

DISTRIBUTION: southwestern Australia.

***Suezichthys devisi* (Whitley)**

*Guntheria devisi* Whitley, 1941: 36, fig. 24 (Queensland).

DISTRIBUTION: eastern Australia.

REMARKS: Russell (1985) regarded this species as a synonym of *S. gracilis*, but it is now considered valid (R.H. Kuitert, 1993 and B.C. Russell, pers. comm.).

***Suezichthys gracilis* (Steindachner & Döderlein)**

*Labrichthys gracilis* Steindachner & Döderlein, 1887: 273 (Tokyo, Japan).

DISTRIBUTION: Persian Gulf, Viet Nam, Taiwan, Japan, and Korea.

***Suezichthys notatus* (Kamohara)**

*Pseudolabrus notatus* Kamohara, 1958: 8, pl. 3, fig. 2 (Okinoshima, Kochi Pref., Japan).  
*Suezichthys tripunctatus*, in part, Randall & Kotthaus, 1977: 34 (Oahu Id, Hawaiian Ids).

DISTRIBUTION: Japan, Australia, Hawaiian Ids.

***Suezichthys russelli* Randall**

*Suezichthys russelli* Randall, 1981: 90, pl. 2, fig. 5 (Ras Abu-Galum, Sinai Peninsula, Gulf of Aqaba, Red Sea).

*Suezichthys tripunctatus*, in part, Randall & Kotthaus, 1977: 34 (Indian Ocean paratypes).

DISTRIBUTION: Red Sea to Kenya.

***Suezichthys soelae* Russell**

*Suezichthys soelae* Russell, 1985: 9, pl. 2, figs. A-B (Northwest Shelf [20°29.4'S, 116°10.0'E], Australia).

DISTRIBUTION: northwestern Australia, Okinawa and Ogasawara Ids (Randall et al., 1997) .

## **Suezichthys sp 1**

DISTRIBUTION: southwestern Australia.

REMARKS: species currently under study by J.B. Hutchins.

## **Genus *Symphodus* Rafinesque**

*Symphodus* Rafinesque, 1810a: 41 (type-species, *S. fulvescens* Rafinesque, by subsequent designation).

*Corycus* Cuvier, 1814: 89 (type-species, *Lutjanus rostratus* Bloch, by subsequent designation; spelt *Coricus* in Cuvier, 1816: 263)

*Crenilabrus* Oken (ex Cuvier), 1817: 1182a (type-species, *Labrus lapina* Forsskål, by subsequent designation).

Ten species (Bauchot & Quignard, 1973; Gomon & Forsyth, 1990). Eastern Atlantic, Mediterranean, and Black Sea.

## ***Symphodus bailloni* (Valenciennes)**

?*Labrus pirca* Walbaum 1792: 265 (no locality [Adriatic Sea]).

*Crenilabrus donovani* Val., 1839: 39 (Brittany).

*Crenilabrus bailloni* Val., 1839: 191 ( La Manche, France).

DISTRIBUTION: Eastern Atlantic from North Sea to Mauritania, and western Mediterranean.

REMARKS: *Labrus pirca* Walbaum was based on a fish described but not named by Brünnich (1768: 97). Bloch & Schneider (1801: 256) reported *Labrus pirca* from the Adriatic Sea.

Tortonese (1970) suggested that *Labrus pirca* may represent an older name for *Symphodus bailloni* (Valenciennes); the combination *Symphodus pirca* was also used by Jordan (1890).

## ***Symphodus cinereus* (Bonnaterre)**

*Labrus cinereus* Bonnaterre, 1788: 118 (Mediterranean).

*Labrus griseus* Gmelin, 1789: 1296 (Mediterranean).

*Labrus rubellio* Walbaum 1792: 264 (no locality).

*Lutjanus cornubicus* Risso, 1810: 267 (Nice, France).

*Lutjanus massa* Risso, 1810: 274, pl. 8, fig. 26 (Nice).

*Lutjanus cotta* Risso, 1810: 282 (Nice, France).

?*Labrus fucii* Rafinesque, 1810a: 38 (Sicily, Italy).

*Labrus fuscus* Pallas, 1814: 266 (Crimea, Ukraine; preoccupied by *Labrus fuscus* Gmelin, 1789 [= *S. mediterraneus* (Linnaeus)], *Labrus fuscus* Walbaum, 1792 [= *S. mediterraneus*] and *Labrus fuscus* Lacepède, 1801 [= *Thalassoma trilobatum* (Lacepède)]).

*Labrus fraenatus* Pallas 1814: 270 (ad littore Taurica [coast of Ukraine]).

?*Labrus simus* Pallas 1814: 271 (Tauriae [Ukraine]).

?*Labrus donzella* Nardo, 1824: 254 (Adriatic Sea; preoccupied by *Labrus donzella* Rafinesque, 1810a [= *Thalassoma pavo* (Linnaeus)]).

?*Lutianus core* Nardo, 1827: 30 (Adriatic Sea; *nomen novum* for *Labrus donzella* Nardo).

*Crenilabrus fraenatus* Bennett, 1835: 91 (Black Sea).

*Crenilabrus staitii* Nordmann, 1840: 452, pl. 18, fig. 2 (Odessa, Ukraine).

*Crenilabrus pusillus* Nordmann, 1840: 454, pl. 18, fig. 2 (Lustdorff, Odessa, Ukraine).

DISTRIBUTION: eastern Atlantic from bassin d'Arcachon to Gibraltar; Mediterranean; the subspecies *S. cinereus staitii* is found also in the Black Sea.

REMARKS: *Labrus griseus* Gmelin and *Labrus rubellio* Walbaum are based on *Labrus n. 75* of Brünnich (1768: 58). Bonaparte's (1846) listing of *Labrus simus* as a synonym was questioned by Günther (1862). *Labrus donzella* Nardo (described independently of Rafinesque) is a probable synonym of *Symphodus cinereus*. *Lutianus core* is a replacement name listed afterward as *Crenilabrus core* Nardo (1860).

### ***Symphodus doderleini*** Jordan

*Crenilabrus tinca* Val., 1837: 199 (Mediterranean Sea; based on *Labrus tinca* (*non* Linnaeus):

Brünnich, 1768: 55; secondarily preoccupied in *Symphodus* by *Labrus tinca* Linnaeus.

*Symphodus doderleini* Jordan, 1890: 618 (probably near Marseille, France).

DISTRIBUTION: Mediterranean, Bosphorus, Marmara Sea.

### ***Symphodus mediterraneus*** (Linnaeus)

*Perca mediterranea* Linnaeus, 1758: 291 [Mediterranean].

*Labrus coeruleovittatus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus serpentinus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus fuscus* Gmelin 1789: 1295 (Mediterranean).

*Labrus unimaculatus* Gmelin, 1789: 1295 (Mediterranean).

*Lutjanus bidens* Bloch, 1790: 123, pl. 251, fig. 1 (no locality).

*Labrus erithrophthalmus* Walbaum 1792: 263 (no locality; based on *Labrus no. 73* Brünnich (1768: 57) and *Labrus unimaculatus* Gmelin).

*Labrus fuscus* Walbaum 1792: 263 (no locality; based on *Labrus no. 72* Brünnich (1768: 56); preoccupied by *Labrus fuscus* Gmelin, 1789).

*Labrus mediterraneus* Bloch & Schneider (ex Brünnich) 1801: 255 (Mediterranean Sea).

*Lutjanus brunnichii* Lacepède, 1802: 184, 222 (Mediterranean Sea).

*Lutjanus massiliensis* Lacepède, 1802: 184, 222 (Mediterranean Sea).

*Labrus pittima* Rafinesque, 1810a: 36 (Sicily, Italy).

*Lutjanus chlorosochrus* Risso, 1810: 275, pl. 8, fig. 27 (Nice, France).

*Labrus bidens* Nardo, 1824b: 253 (Adriatic Sea).

*Crenilabrus nigrescens* Risso, 1827: 263 (Nice, France).

*Crenilabrus boryanus* Risso, 1827: 320 (Nice, France).

*Crenilabrus pictus* Lowe, 1838: 186 (Madeira).

DISTRIBUTION: Mediterranean and Marmara Sea; eastern Atlantic from Portugal to Morocco, Madeira, and Azores.

REMARKS: The holotype of *Lutjanus chlorosochrus* is lost (Bauchot, 1963); based on Risso's original description, the first author concluded that it is *Symphodus mediterraneus*. Nardo (1824) added "*nobis*" to the name *Labrus bidens* and doubted that his species was the same as *Lutjanus bidens* Bloch.

### *Symphodus melanocercus* (Risso)

*Lutjanus melanocercus* Risso, 1810: 283 (Saint Hospice , near Villefranche, France, Mediterranean).

*Crenilabrus caeruleus* Risso, 1827: 316, pl. 10, fig. 25 (probably Mediterranean).

*Crenilabrus cyanospilatus* Cocco, 1840: 242 (Sicily, Italy).

*Crenilabrus melanoxanthurus* Cocco, 1840: 243 (Sicily).

DISTRIBUTION: Mediterranean and Marmara Sea.

REMARKS: Facciola (1916) synonymized *Crenilabrus cyanospilatus* and *C. melanoxanthurus* with *S. melanocercus*.

### *Symphodus melops* (Linnaeus)

*Labrus melops* Linnaeus, 1758: 286 (southern Europe).

*Labrus rone* Ascanius, 1772: 6, pl. 14 (Norway).

*Labrus gibbosus* Bonnaterre, 1788: 112, pl. 99, fig. 403 (Seas of Great Britain).

*Labrus goldsinny* Bonnaterre, 1788: 112, pl. 99, fig. 404 (Seas of Great Britain).

*Labrus gibbus* Gmelin, 1789: 1295 (Great Britain).

?*Labrus cornubius* Gmelin, 1789: 1297 (England).

*Lutjanus norwegicus* Bloch, 1791: 11, pl. 256 (Norway).

*Labrus tessellatus* Bloch, 1792: 8, pl. 291, fig. 1 (Norway).

*Perca maculosa* Retzius, 1800: 337 (Sweden).

*Labrus ascanii* Shaw, 1803: 512 (Northern Seas; *nomen novum* for *Labrus rone* Ascanius 1771).

*Crenilabrus couchii* Val., 1839: 178 (no locality).

*Crenilabrus pennantii* Val., 1839: 178 (no locality).

*Crenilabrus locaninus* Gulia, 1861: 16 (Malta).

DISTRIBUTION: western Mediterranean and Adriatic Sea, northeastern Atlantic from Norway to Morocco.

REMARKS: The text for *Lutjanus norwegicus* Bloch, 1791 refers to pl. 256 in which the name *Lutianus norve* is used. This species was spelled *norvegicus* in Bloch's Ichthyologie (1797: 9) and Lacepède (1802: 233). Günther (1862) listed *Perca maculosa* as a synonym. *Crenilabrus locaninus* Gulia is a new synonym.

### *Symphodus ocellatus* (Forsskål)

?*Labrus ocellaris* Linnaeus 1758: 285 (no locality).

*Labrus ocellatus* Forsskål, 1775: 37 (Smyrne, Turkey).

*Labrus olivaceus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus reticulatus* Bonnaterre, 1788: 117 (Mediterranean).

*Labrus guttatus* Bonnaterre 1788: 118 (Mediterranean).

*Labrus guttatus* Gmelin, 1789: 1296 (no locality; preoccupied by *Labrus guttatus* Bonnaterre 1788).

*Labrus venosus* Gmelin, 1789: 1296 (Mediterranean Sea).

*Labrus olivaceus* Walbaum 1792: 263 (no locality; preoccupied by *Labrus olivaceus* Bonnaterre, 1788).

*Labrus venosus* Walbaum, 1792: 264 (no locality; preoccupied by *Labrus venosus* Gmelin, 1789).

*Labrus guttatus* Walbaum 1792: 265 (no locality; preoccupied by *Labrus guttatus* Bonnaterre 1788, *Labrus guttatus* Gmelin 1789 and *Labrus guttatus* Bloch 1791 [= *Halichoeres argus* (Bloch & Schneider)]).

*Labrus rubens* Bloch & Schneider (ex Brunnich) 1801: 256 (Mediterranean Sea).

*Labrus mendovella* Rafinesque 1810b: 23, 54 (Sicily).

?*Lutianus ruber* Rafinesque, 1810b: 63 (Sicily).

?*Lutianus flavus* Rafinesque, 1814: 18 (Mediterranean)

*Labrus perspicillatus* Pallas, 1814: 267 ("Mari Tauricam Chersonesum circumfluente" [Crimea, Ukraine]).

*Labrus dubbius* Nardo, 1824a: 255 (Adriatic Sea).

*Lutianus eques* Nardo, 1827: 30 (Adriatic Sea; *nomen novum* for *Labrus dubbius* Nardo).

*Crenilabrus littoralis* Risso, 1827: 322 (Nice).

*Crenilabrus rissoi* Val., 1839: 197 (Naples, Palermo, Sicily, Italy).

*Crenilabrus morelli* Nordmann, 1840: 459, pl. 18, fig. 5 (Sevastopol and Yalta, Crimea, Ukraine).

*Crenilabrus argenteostriatus* Nordmann, 1840: 461, pl. 18, fig. 4 (Sevastopol, Crimea, Ukraine).

?*Scarus maculatus* Gronow in Gray, 1854: 63 (no locality).

*Crenilabrus dubius* Gulia, 1861: 13 (Malta).

*Crenilabrus schemberianus* Gulia, 1861: 13 (Malta).

*Crenilabrus zeraphinus* Gulia, 1861: 13 (Malta).

?*Crenilabrus aurantiacus* Cocco in Facciola, 1885: 231 (Messina, Sicily, Italy).

*Crenilabrus bertini* Pras, 1961: 12 (southwest of Les Salins d'Hyères, Mediterranean coast of France).

DISTRIBUTION: Mediterranean, Black Sea and Sea of Azov.

REMARKS: *Labrus ocellaris* Linnaeus probably represents the current *Symphodus ocellatus* (Forsskål); as reported by Valenciennes (1839), the status remains doubtful due to the

inadequate description. *Crenilabrus aurantiacus* Cocco was reported as a synonym by Facciola (1916) but it is regarded as unidentifiable by di Caporiacco (1921). *Labrus reticulatus* Bonnaterre, *Labrus venosus* Gmelin, and *Labrus venosus* Walbaum are all based on *Labrus* n. 74 (Brünnich, 1768: 58). *Labrus rubens* Bloch & Schneider is based on *Labrus* n. 71 (Brünnich, 1768: 56) already described by Bonnaterre as *Labrus olivaceus*. *Labrus olivaceus* Walbaum and *Labrus guttatus* Walbaum are based on *Labrus* n. 71 and n. 76 (Brünnich, 1768: 56 & 59), respectively. *Labrus mendovella* Rafinesque is a synonym as proposed by Cocco (Facciola, 1885). *Lutianus flavus* Rafinesque is a probable synonym. *Scarus maculatus* Gronow is based in part on *Labrus ocellaris* Linnaeus; Ninni (1912) placed the species *Labrus dubbius* Nardo (spelled *dubius* in Nardo 1824b) into synonymy with *Symphodus rostratus*. However, Nardo (1824a) includes in his description typical features of *ocellatus*, such as the presence of a large red-ringed blue spot on the opercle and another small dark spot at the caudal fin base. *Lutianus eques*, a new name for *Labrus dubbius*, was thereafter spelled *Coricus aequus* (Nardo, 1860). *Crenilabrus dubius*, *Crenilabrus schemberianus* and *Crenilabrus zeraphinus* are new synonyms.

### *Symphodus roissali* (Risso)

*Lutjanus roissali* Risso, 1810: 276, pl. 8, fig. 28 (Nice).

*Lutjanus alberti* Risso, 1810: 277 (Nice).

*Labrus oculusperdix* Rafinesque 1810a: 239 (Sicily).

*Labrus aeruginosus* Pallas, 1814: 264 ("Meridionali Tauriae" [Crimea, Ukraine]).

*Labrus capistratus* Pallas, 1814: 269 ("Sinu Theodosiano" [Crimea, Ukraine]).

*Crenilabrus tigrinus* Risso, 1827: 317, pl. 10, fig. 26 (Nice).

*Crenilabrus quinquemaculatus* Risso, 1827: 324, pl. 10, fig. 23 (Nice).

*Crenilabrus arcuatus* Risso, 1827: 328, pl. 16 (Nice).

DISTRIBUTION: Mediterranean, Black Sea, Atlantic coast of Spain.

### *Symphodus rostratus* (Bloch)

?*Labrus scina* Forsskål, 1775: 36 (Istanbul, Turkey).

*Lutjanus rostratus* Bloch, 1791: 7, pl. 254, fig. 2 (no locality).

*Lutjanus virescens* Bloch, 1791: 5, pl. 254, fig. 1 (no locality).

*Symphodus fulvescens* Rafinesque, 1810a: 41 (Sicily).

?*Labrus macrostomus* Rafinesque 1810a: 36 (Sicily).

?*Labrus pitimoides* Rafinesque 1810a: 36 (Sicily).

?*Labrus verdolidus* Rafinesque, 1810a: 36 (Sicily).

*Lutjanus rubescens* Risso, 1810: 271 (Nice).

*Lutjanus lamarckii* Risso, 1810: 281, pl. 9, fig. 29 (Nice).

*Labrus acatirostreus* Nardo, 1824a: 254 (Adriatic Sea).

*Coricus brama* Nordmann, 1840: 464, pl. 20, fig. 1 (Ukraine).

DISTRIBUTION: Mediterranean and Black Sea.

REMARKS: Jordan (1890: 623) used *Symphodus scina* as the valid name for this species. This



decision was followed by some authors (Dieuzeide & Novella, 1955: 95; Svetovidov, 1964: 331) and used in popular guides (e.g. Costa, 1991: 340). Tortonese (1970) wrote "...the name applied by Forsskål cannot be maintained because the author indicated the lateral line as interrupted...". *Labrus macrostomus*, *Labrus pitimoides* and *Labrus verdolidus* are synonyms according to Bonaparte (1846) and Cocco (Facciola, 1885). *Labrus acatirostreus* is perhaps a misspelling for "*acutirostreus*"; however, Nardo (1824a) spelt *acutirostreus* three times in Latinized form and again in a later publication (Nardo, 1824b). The name was later changed to *Lutianus acutirostreus* (Nardo, 1827: 30), and it is here recognized as a new synonym of *rostratus*.

### *Symphodus tinca* (Linnaeus)

*Labrus tinca* Linnaeus, 1758: 285 (British Seas)

*Labrus lapina* Forsskål, 1775: 36 (Istanbul, Turkey).

*Lutjanus linkii* Bloch, 1790: 127, pl. 252 (no locality; spelt *linckii* on plate).

*Labrus violaceus* Bloch & Schneider, 1801: 248 (*nomen novum* for *Lutjanus linkii* Bloch, 1790).

?*Labrus flavescens* Bloch & Schneider 1801: 260 (no locality).

*Labrus tancoides* Lacepède, 1801: 439 (British rivers).

*Lutjanus geofroyius* Risso, 1810: 261, pl. 8, fig. 25 (Nice).

?*Labrus caliophthalmus* Rafinesque 1810a: 37 (Sicily).

?*Labrus chrysostoma* Rafinesque 1810a: 37 (Sicily).

?*Labrus lappanoides* Rafinesque 1810a: 39 (Sicily).

?*Labrus lappanus* Rafinesque 1810a: 39 (Sicily).

?*Labrus chlorophthalmus* Rafinesque 1810a: 40 (Sicily).

?*Labrus marmoratus* Rafinesque 1810a: 41 (Sicily; preoccupied by *Labrus marmoratus* Lacepède, 1801 in Cirrhitidae).

*Labrus polychrous* Pallas, 1814: 262 ("Ponto").

*Labrus niger* Nardo 1824b: 253 (Adriatic Sea).

*Labrus sanguineus* Nardo 1824b: 254 (Adriatic Sea).

*Crenilabrus geoffroi* Risso, 1827: 314 (Nice).

*Crenilabrus propinquus* Gulia, 1861: 17 (Malta).

DISTRIBUTION: Mediterranean, northeastern Atlantic from Spain to Morocco.

REMARKS: *Labrus chlorophthalmus*, *Labrus chrysostoma* and *Labrus lappanoides* are probable synonyms (Cocco in Facciola, 1885). Most of the labrid species descriptions by Rafinesque are inadequate, consequently they were not included in the checklist of north-eastern and Atlantic and the Mediterranean (Bauchot, pers. comm.). In the *Histoire Naturelle des Poissons* de Cuvier et Valenciennes, Valenciennes (1839) cites Rafinesque only two times. At page 188 he wrote: "...Je ne fais mention de cet auteur (Rafinesque) que pour avertir le lecteur qu'il m'a été impossible de reconnaître la plupart des espèces mentionnées dans son ouvrage". *Crenilabrus propinquus* Gulia is a variant of *Lutjanus geofroyius* Risso. Nardo (1827) placed *sanguineus* and *niger* as synonyms of *Labrus pavo* Brünnich (*nec* Linnaeus), 1768. The name *Labrus pavo* was often used in the literature for the fish known as *Labrus tinca*; Valenciennes (Cuvier and Valenciennes, 1839: 149) in redescribing this species as *Crenilabrus pavo nob.* commented (page 154) "Il me semble donc que l'on pourrait regarder le *labrus tinca*

comme étant en quelque sorte, par la pensée d'Artemide, le nom qui doit être attribué à l'espèce décrite dans ce chapitre". Bonaparte (1846) emended *Crenilabrus geoffroyi* to *Crenilabrus geoffroyi*.

### Genus *Tautoga* Mitchill

*Tautoga* Mitchill, 1814: 23 (type-species, *Tautoga niger* Mitchill, by subsequent designation).  
*Hiatula* Lacepède, 1800:522 (type-species, *Hiatula gardeniana* Lacepède, by monotypy, preoccupied by *Hiatula* Modeer 1792 in Mollusca, not replaced).

One species (Jordan et al., 1930).

### *Tautoga onitis* (Linnaeus)

*Labrus onitis* Linnaeus, 1758: 286 (no locality).

*Labrus hiatula* Linnaeus, 1766: 475 (Carolina, U.S.A.).

*Labrus carolinus* Bonnaterre, 1788: 113 (Carolina).

*Labrus subfuscus* Walbaum, 1792: 254 (North America).

*Hiatula gardeniana* Lacepède, 1800: 522, 523 (Carolina).

*Labrus americanus* Bloch & Schneider, 1801: 261 (New York).

*Tautoga niger* Mitchill, 1814: 23 (New York).

*Tautoga niger* var. *alius* Mitchill, 1814: 24 (New York).

*Tautoga niger* var. *fuscus* Mitchill, 1814: 24 (New York).

*Tautoga niger* var. *rubens* Mitchill, 1814: 24 (New York).

*Labrus tautoga* Mitchill, 1815: 399, pl. 1, fig. 1 (unneeded replacement for *Tautoga niger* Mitchill 1814).

DISTRIBUTION: Atlantic coast of North America from Nova Scotia to North Carolina.

### Genus *Tautogolabrus* Günther

*Tautogolabrus* Günther, 1862: 89, 90 (type-species, *Ctenolabrus burgall* Günther, by monotypy, proposed as a subgenus).

Two species; Atlantic. The genus needs revision.

### *Tautogolabrus adspersus* (Walbaum)

*Labrus burgall* Schöpf, 1788: 155 (New York).

*Labrus adspersus* Walbaum, 1792: 254 (New York).

*Tautoga caerulea* Mitchill, 1814: 24 (New York).

*Labrus chogset* Mitchill, 1815: 402, pl. 3, fig. 2 (New York).

*Labrus chogset* var. *fulva* Mitchill, 1815: 403 (New York).

*Ctenolabrus uninotatus* Val., 1839: 239 (New York).

DISTRIBUTION: northwestern Atlantic from Newfoundland to Chesapeake Bay.

REMARKS: *Labrus burgall* is an available name (Eschmeyer, 1997) that has not been used since Günther (1862: 90). In Jordan's (1890) revision of the European and American Labridae the name *adspersus* was used.

***Tautogolabrus brandaonis*** (Steindachner)

*Ctenolabrus* (*Tautogolabrus*) *brandaonis* Steindachner, 1867a: 64 (Brazil).

DISTRIBUTION: Brazil.

**Genus *Terelabrus*** Randall & Fourmanoir

*Terelabrus* Randall & Fourmanoir, 1998:248 (type-species, *Terelabrus rubrovittatus* Randall & Fourmanoir, by original designation).

One species.

***Terelabrus rubrovittatus*** Randall & Fourmanoir

*Terelabrus rubrovittatus* Randall & Fourmanoir, 1998: 249, fig. 1 (Bulari Pass, New Caledonia).

DISTRIBUTION: Western Pacific: New Caledonia, Papua New Guinea, Bali and Palau.

**Genus *Thalassoma*** Swainson

*Thalassoma* Swainson, 1839: 172, 224 (type-species, *Scarus purpureus* Forsskål, by monotypy, proposed as a subgenus).

*Chlorichthys* Swainson, 1839: 173, 232 (type-species, *Labrus bifasciatus* Bloch, by subsequent designation, proposed as a subgenus).

*Bermudichthys* Nichols, 1920: 62 (type-species, *Bermudichthys subfurcatus* Nichols, by original designation).

*Pseudojulops* Fowler, 1941: 271 (type-species, *Pseudojulis trifasciatus* Weber, by original designation).

Twenty-six species (Gomon & Forsyth, 1990; Allen, 1995b; A. Brito pers. comm.). Indo-Pacific (17 species), Atlantic (5 species) and eastern Pacific (4 species). The genus was revised by Heiser (1981) in his unpublished dissertation.

***Thalassoma amblycephalum*** (Bleeker)

*Julis (Julis) amblycephalus* Bleeker, 1856d: 83 (Java).

*Julis (Julis) melanochir* Bleeker, 1857c: 77 (Indonesia).

*Thalassoma melanochir* Fowler, 1904: 537, pl. 20, middle fig. (Padang, Sumatra, Indonesia).

*Pseudojulis trifasciatus* Weber, 1913: 380, fig. 76 (Tiur, Nusa Laut, Karkaralong Ids, Indonesia).

*Thalassoma marnae* Schultz, 1943: 203, fig.17 (Hull Id, Phoenix Ids).

DISTRIBUTION: Indo-Pacific, South Africa to Japan, Australia and central Pacific.

### ***Thalassoma ascensionis*** (Quoy & Gaimard)

*Julis ascensionis* Quoy & Gaimard, 1834: 706, pl. 20, fig. 5 (Ascension Id).

?*Julis newtoni* Osorio, 1891: 127 (São Tomé Id, Gulf of Guinea, West Africa).

DISTRIBUTION: Ascension Id and Canary Ids.

REMARKS: *Julis newtoni* Osorio may represent a valid species of *Thalassoma* (A. Brito, pers. comm.).

### ***Thalassoma ballieui*** (Vaillant & Sauvage)

*Julis ballieui* Vaillant & Sauvage, 1875: 284 (Hawaiian Ids).

*Julis obscura* Günther, 1880: 61, pl. 26, figs. A-B (Honolulu, Oahu Id, Hawaiian Ids).

*Julis verticalis* Smith & Swain, 1882: 135 (Johnston Id, central Pacific).

DISTRIBUTION: Hawaiian Ids and Johnston Id.

### ***Thalassoma bifasciatum*** (Bloch)

*Labrus bifasciatus* Bloch, 1791: 131, pl. 283 ("East Indies" [actually West Indies]).

*Labrus torquatus* Walbaum, 1792: 245 (Antilles).

*Labrus bifasciatus* var *torquatus* Bloch & Schneider, 1801: 243 (Antilles).

*Julis detersor* Val., 1839: 408 (Santo Domingo and Martinique Id, West Indies).

*Labrus ornatus* Gronow in Gray, 1854: 83 (Antilles and American Ocean; preoccupied by *Labrus ornatus* Carmichael, 1819 [= *Nelabrichthys ornatus*]).

*Julis gillianus* Poey, 1860: 214 (Cuba).

*Julis nitida* Günther, 1862: 190 (Jamaica).

*Julis nitidissima* Goode, 1877: 293 (Bermuda).

*Bermudichthys subfurcatus* Nichols, 1920: 62 (Bermuda).

DISTRIBUTION: Bermuda, North Carolina, Florida, Gulf of Mexico, West Indies and Caribbean to Venezuela.

REMARKS: *Labrus torquatus* Walbaum is a new synonym.

***Thalassoma cupido*** (Temminck & Schlegel)

*Julis cupido* Temminck & Schlegel, 1845: 170, pl. 86 bis, fig. 3 (Nagasaki, Japan).

DISTRIBUTION: Japan, Korea, and Taiwan.

***Thalassoma duperrey*** (Quoy & Gaimard)

*Julis duperrey* Quoy & Gaimard, 1824: 268, pl. 56, fig. 2 (Hawaiian Ids).

*Julis caeruleocephalus* Cuvier, 1829: 259 (no locality).

*Julis clepsydralis* Smith & Swain, 1882: 136 (Johnston Id).

*Thalassoma pyrrhovinctum* Jenkins, 1901: 51, fig. 7 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids and Johnston Id.

***Thalassoma genivittatum*** (Valenciennes)

*Julis genivittatus* Val., 1839: 416 (Mauritius, Madagascar).

*Julis commersoni* Val., 1839: 418 (Mauritius, Madagascar)

*Julis matthoei* Val., 1839: 419 (Mauritius).

*Julis bicolor* Günther, 1862: 184 (no locality [Mauritius]).

*Thalassoma mascarenum* Fricke, 1999: 437, figs 6A, 7A (Réunion).

DISTRIBUTION: Mauritius and South Africa.

REMARKS: Bauchot (1963: 61) stated that Smith (1957a) was in error to identify *Julis matthoei* as *Xiphocheilus gymnogenys* Günther. We follow Heiser (1981) in regarding *J. matthoei* as an aberrant *T. genivittatum*. *T. mascarenum* is a synonym according to Randall and Smith (ms. in preparation).

***Thalassoma grammaticum*** Gilbert

*Thalassoma grammaticum* Gilbert, 1890: 68 (Socorro and Clarion Ids, Revillagigedo Ids, off western Mexico).

DISTRIBUTION: Gulf of California to Panama and Galápagos Ids.

REMARKS: Randall (1995b) showed that *Thalassoma grammaticum* is the correct name for the eastern Pacific labrid fish misidentified as *Thalassoma lutescens* (Lay & Bennett) by recent authors.

***Thalassoma hardwicke*** (Bennett)

*Labrus quindecimaculeatus* Lacepède, 1801: 432, 480, pl. 25, fig. 1 (Gulf of India, *nomen dubium*).

*Sparus hardwicke* Bennett J.W., 1830: pl. 12 (Sri Lanka).

*Julis dorsalis* Quoy & Gaimard, 1834: 713, pl. 15, fig. 5 (Mauritius).

*Julis semifasciatus* Val., 1839: 448 (Mauritius).

*Julis prostigma* Kuhl & van Hasselt in Cuvier & Valenciennes, 1839: 451 (Java, Indonesia).

*Labrus pulcherrimus* Forster in Cuvier & Valenciennes, 1839: 451 (Tahiti, Society Ids).

?*Julis erythropterus* Val., 1839: 464 (no locality).

*Julis (Julis) urostigma* Bleeker, 1853c: 287 (Cauer, Sumatra, Indonesia).

*Julis (Julis) schwanefeldii* Bleeker, 1853c: 288 later spelled *schwanefeldii* by Bleeker (Cauer, Sumatra).

*Halichoeres iris* Seale, 1910: 522 (Jolo Id, Philippines).

DISTRIBUTION: Indo-Pacific, South Africa to Tahiti.

REMARKS: *Sparus hardwickii* Bennett, 1841 and *Thalassoma hardwickii* of later authors are incorrect spellings (Eschmeyer & Pethiyagoda, 1996). See Bauchot (1963: 89) for discussion of *Labrus quindecimaculeatus* Lacepède.

### *Thalassoma hebraicum* (Lacepède)

*Labrus hebraicus* Lacepède, 1801: 454, 526, pl. 29, fig. 3 (Mauritius).

*Julis cingulata* Quoy & Gaimard, 1834: 711, pl. 15, fig. 3 (Mauritius).

*Julis blochii* Val., 1839: 422 (no locality).

DISTRIBUTION: western Indian Ocean.

REMARKS: *Julis blochii* is based on *Labrus lunaris* Bloch (1791: pl. 281) and the specimen labeled by Cuvier and Valenciennes at the MNHN is *Thalassoma hebraicum* Lacepède (Bauchot, 1963: 76).

### *Thalassoma heiseri* Randall & Edwards

*Thalassoma heiseri* Randall & Edwards, 1984: 15, fig. 1B, 3 (Pitcairn Id, southern Pacific).

DISTRIBUTION: Pitcairn Group and Tuamotu Archipelago.

### *Thalassoma jansonii* (Bleeker)

*Julis (Julis) jansonii* Bleeker, 1856b: 56 (Indonesia).

DISTRIBUTION: Maldives to Micronesia and Fiji.

### *Thalassoma loxum* Randall & Mee

*Thalassoma loxum* Randall & Mee, 1994: 303, pls. 1-5 (South coast, Hoone's Bay, Oman, Arabian Sea).

DISTRIBUTION: southern Oman to Gulf of Oman.

***Thalassoma lucasanum*** (Gill)

*Julis lucasanus* Gill, 1862: 142 (Cape San Lucas, Baja California, Mexico).

*Thalassoma steindachneri* Jordan, 1890: 654 (Acapulco, Mexico).

*Thalassoma caeruleomarginata* Fowler, 1944a: 265, fig. 233 (Perlas Ids, Panama, eastern Pacific).

DISTRIBUTION: Baja California to Panama and Galápagos.

***Thalassoma lunare*** (Linnaeus)

*Labrus lunaris* Linnaeus, 1758: 283 (India).

*Scarus gallus* Forsskål, 1775: 26 (Yemen, Red Sea).

*Labrus zeylanicus* Forster, 1781: 24 (Sri Lanka).

*Labrus viridis* Bloch 1791: 129, pl. 282 (Japan; preoccupied by *Labrus viridis* Linnaeus, 1758).

?*Labrus polyodon* Walbaum 1792: 250 (no locality).

?*Labrus polyodon* Bloch & Schneider 1801: 263 (no locality; preoccupied by *Labrus polyodon* Walbaum).

*Trichopus arabicus* Shaw, 1803: 390 (Arabian Sea).

*Julis maculata* Lesson, 1828: 402 (Caroline Ids).

*Julis porphyrocephala* Bennett, 1832b: 183 (Sri Lanka).

*Julim [sic] lutescentem* Bennett, 1832b: 184 (Sri Lanka).

*Julis hardwickii* Gray, 1832: pl. 92, fig. 1 (no locality).

*Julis trimaculatus* Rüppell, 1835: 13 (Massawa, Eritrea, Red Sea; preoccupied by *Julis trimaculatus* Quoy & Gaimard, 1834 [= *Halichoeres trimaculatus*]).

?*Chlorichthys grayii* Swainson, 1839: 232 (no locality).

*Julis meniscus* Val., 1839: 415 (Seychelles, India, Macao).

?*Julis mertensii* Val., 1839: 421 (Ulea, Caroline Ids).

*Julis (Julis) celebicus* Bleeker, 1855e: 313 (Indonesia).

*Julis rapan* Montrouzier, 1857: 473 (Woodlark Id).

*Julis gracilis* Steindachner, 1863b: 1190 (Java, Indonesia).

*Julis truncatus* Cartier, 1874: 105 (Cebu, Philippines).

*Julis ventralis* De Vis, 1885: 884 (Queensland, Australia).

?*Julis cyanoventor* Saville-Kent, 1893: 296, pl. 16, fig.14 (Rocky Id, Cape Flattery, Queensland, Australia).

*Thalassoma cupido bipunctatum* Vasiliu, 1931: 349, pl. 10, fig. 11 (Galle, Sri Lanka).

*Thalassoma herrei* Seale, 1935: 369, pl. 23, fig. 2 (Tulagi, Florida Id, Solomon Ids).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Persian Gulf, Japan, Australia and

central Pacific.

REMARKS: *Labrus polyodon* Walbaum and *Labrus polyodon* Bloch are based on Seba (Thes. III n. 3 and n. 4, tab. 31) and might represent this species. Bleeker (1862f) listed *Julis hardwickii* Gray as a synonym. The first author and Jeff Johnson of the Queensland Museum determined that *Julis ventralis* De Vis is a synonym. *Thalassoma cupido bipunctatum* Vasiliu is a subadult of *T. lunare*. *Julis cyanoventor* Saville-Kent is a probable synonym (R.H. Kuitert, pers. comm.). *Chlorichthys grayii* Swainson appears to be a new name for *Julis hardwickii* Gray.

### ***Thalassoma lutescens*** (Lay & Bennett)

?*Labrus semilunatus* Lacepede 1804: 205, 211 (Australia).

*Julis lutescens* Lay & Bennett (ex Solander), 1839: 65, pl. 19, fig. 2 (Mauritius; Tahiti; Ryukyu Ids, Japan).

*Julis aneitensis* Günther, 1862: 183 (northeastern coast of Australia; Norfolk Id; Vanuatu [New Hebrides]).

*Julis melanoptera* Günther, 1862: 183 ([Sri Lanka]).

*Thalassoma neanis* Jordan & Evermann in Jordan & Snyder, 1907: 214, pl. 12, fig. 2 (Honolulu, Oahu Id).

*Thalassoma cranei* Herre, 1935: 412 (Tenibuli, Ysabel Id, Solomon Ids).

*Julis whitmii* Günther, 1909: 291, pl. 148, fig. A (Raiatea, Society Ids).

DISTRIBUTION: central and eastern Pacific to Oman.

REMARKS: Information of the type of *Julis melanoptera* was provided by A.C. Gill (pers. comm.).

### ***Thalassoma noronhanum*** (Boulenger)

*Julis noronhana* Boulenger, 1890: 483 (Fernando de Noronha, Brazil).

DISTRIBUTION: Fernando de Noronha Archipelago, Brazil, and coast of Brazil.

### ***Thalassoma pavo*** (Linnaeus)

*Labrus pavo* Linnaeus, 1758: 283 (Mediterranean, Syria).

*Labrus syriacus* Bloch & Schneider, 1801: 244 (Syria).

?*Labrus donzella* Rafinesque 1810a: 39 (Sicily, Italy).

?*Labrus imperialis* Rafinesque 1810a: 40 (Sicily).

*Labrus leo* Rafinesque, 1810a: 37 (Sicily, Italy).

*Julis squamismarginatus* Bowdich, 1825: 234, fig. 53 (Gambia river, West Africa).

*Julis turcica* Risso, 1827: 312, pl. 9, fig. 21 (Nice, France).

*Julis unimaculata* Lowe, 1840: 37 (Madeira).

*Julis unimaculata* var. *lineolata* Lowe, 1840: 37 (Madeira).



*Julis unimaculata* var. *taeniata* Lowe, 1840: 37 (Madeira).

*Julis turcica* var. *lemniscata* Lowe, 1843: 1 (Madeira).

*Julis turcica* var. *torquata* Lowe, 1843: 1, pl. 1 (Madeira).

*Julis vulgaris* Valenciennes, 1843: 65 (Canary Ids; preoccupied by *Julis vulgaris* Fleming 1828 [= *Coris julis* Linnaeus]) and *Julis vulgaris* Valenciennes, 1839 [= *Coris julis* Linnaeus]).

DISTRIBUTION: Mediterranean and eastern Atlantic from Portugal to Cape Lopez, Gabon, including Azores, Madeira, and Canary Ids.

REMARKS: synonymy from Gomon and Forsyth (1990). Cocco (Facciola, 1885) recognized *Labrus donzella* Rafinesque as a synonym.

### ***Thalassoma purpureum*** (Forsskål)

*Scarus purpureus* Forsskål, 1775: 27 (Jeddah, Red Sea).

*Scarus purpuratus* Shaw, 1803: 397 (Arabian Seas; unjustified emendation for *Scarus purpureus* Forsskål).

*Julis quadricolor* Lesson, 1828: 400 (Tahiti, Matavai and Borabora).

*Scarus georgii* Bennett J.W., 1830: pl. 24 (Sri Lanka).

*Scarus georgiiquarti* Bennett [J.W.], 1841: pl. 24 (Sri Lanka).

*Julis semicoeruleus* Rüppell, 1835: 10, pl. 3, fig. 1 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Julis umbrostygma* Rüppell, 1835: 11, pl. 3, fig. 2 (Mohila and Jidda [Jeddah], Saudi Arabia, Red Sea).

*Julis aeruginosus* Val., 1839: 441 (Mauritius).

*Julis cyanogaster* Val. (ex Solander) in Cuv. & Val., 1839: 444 (Tahiti, Society Ids).

*Julis erythrogaster* Val. (ex Solander) in Cuv. & Val., 1839: 447 (Ulea, Caroline Ids).

*Thalassoma immanis* Fowler, 1900: 488, pl. 18, fig. 2 (Caroline (Thornton) Id, [Line Ids, not Caroline Ids]).

*Thalassoma berendti* Seale, 1901b: 15, fig. 7 (Honolulu, Hawaiian Ids).

*Julis punctatus* Seale, 1901a: 91 (Guam, Mariana Ids).

DISTRIBUTION: Indo-Pacific: Red Sea to South Africa, Sri Lanka, Japan, Australia, Hawaiian Ids and Easter Id.

### ***Thalassoma quinquevittatum*** (Lay & Bennett)

*Julis coris* Lesson, 1828: 404 (Caroline Ids).

*Scarus quinquevittatus* Lay & Bennett, 1839: 66, pl. 19, fig. 3 (Ryukyu Ids, Japan).

*Julis guentheri* Bleeker, 1862b: 279 (Sulawesi, Indonesia).

*Thalassoma albolineum* Nichols, 1941: 1, fig. 6 (Bali, Indonesia).

DISTRIBUTION: South Africa and Western Indian Ocean to central Pacific including Hawaiian Ids.

REMARKS: *Julis coris* Lesson is an earlier name for *Thalassoma quinquevittatum*. Although

there is no type specimen, Lesson's description is sufficient to identify it as the species long known as *T. quinquevittatum*. Valenciennes (1839) used *Julis coris* for *Coris aygula* Lacepède. Randall and Parenti (1999) included *J. coris* Lesson among the old labrid names that should be suppressed in order to conserve names long accepted as valid.

### ***Thalassoma robertsoni*** Allen

*Thalassoma* sp. Allen & Robertson, 1994: 207.

*Thalassoma robertsoni* Allen, 1995b: 75, figs. 1-2 (Clipperton Id, 10°18'N, 109°13'W).

DISTRIBUTION: Clipperton Id (eastern Pacific).

### ***Thalassoma rueppellii*** (Klunzinger)

*Julis purpureus* (nec Forsskål) Rüppell, 1828: 25 ( Red Sea, misidentification).

*Julis rueppellii* Klunzinger, 1871: 536 ( Egypt, Red Sea).

*Thalassoma klunzingeri* Fowler & Steinitz, 1956: 278, fig. 24 (Eilat, Israel, Gulf of Aqaba).

DISTRIBUTION: Red Sea.

### ***Thalassoma sanctaehelenae*** (Valenciennes)

*Julis sanctaehelenae* Val., 1839: 382 (St. Helena Id).

*Julis lessonii* Val., 1839: 384 (St. Helena Id).

DISTRIBUTION: St. Helena Id, South Atlantic.

### ***Thalassoma septemfasciatum*** Scott

*Thalassoma septemfasciata* Scott, 1959: 84, fig. 4 (Shark Bay, Western Australia).

DISTRIBUTION: western Australia.

### ***Thalassoma trilobatum*** (Lacepède)

*Labrus trilobatus* Lacepède, 1801: 454, 526, pl. 4, fig. 3 (Indo-Pacific Ocean).

*Labrus fuscus* Lacepède, 1801: 437, 493 (Mauritius; preoccupied by *Labrus fuscus* Gmelin, 1789 and *Labrus fuscus* Walbaum, 1792 [= *Symphodus mediterraneus* (Linnaeus, 1758)]).

*Sparus hemisphaericus* Shaw, 1803: 454 (Indian Seas).

*Sparus brachiatus* Shaw, 1803: 456 (Indian Seas).

*Julis bicatenatus* Bennett, 1832a: 167 (Mauritius).

*Julis formosus* Val., 1839: 439 (Mauritius).

*Julis souleyetii* Val., 1839: 457 (Mauritius, Hawaiian Ids).

*Julis abhortani* Val., 1839: 459 (Mauritius).

*Julis aran* Montrouzier, 1856: 474 (Woodlark Id).

DISTRIBUTION: Indo-Pacific, South Africa to central Pacific, including Hawaiian Ids and Pitcairn Group.

REMARKS: *Sparus hemisphaericus* Shaw and *Sparus brachiatus* Shaw were reported as synonyms of *Labrus fuscus* Lacepède by Swain (1883: 305).

### ***Thalassoma virens*** Gilbert

*Thalassoma virens* Gilbert, 1890: 68 (Socorro Id, Revilla Gigedo [Revillagigedo] Ids, off western Mexico).

*Thalassoma socorroense* Gilbert, 1890: 69 (Socorro Id).

DISTRIBUTION: Revillagigedo Ids and Clipperton Id.

### **Genus *Wetmorella*** Fowler & Bean

*Wetmorella* Fowler & Bean, 1928: 211 (type-species, *Wetmorella philippina* Fowler & Bean, by original designation).

Two species (Randall, 1983a). Indo-Pacific.

### ***Wetmorella albofasciata*** Schultz & Marshall

*Wetmorella albofasciata* Schultz & Marshall, 1954: 446, pl. 12 (Mabul Id, Philippines).

*Wetmorella philippina*, in part, Fowler & Bean, 1928: 211, pl. 17 (Little Santa Cruz, Zamboanga, Philippines).

DISTRIBUTION: Indo-Pacific, including Hawaiian Ids.

### ***Wetmorella nigropinnata*** (Seale)

*Cheilinus nigropinnatus* Seale, 1901a: 86 (Guam).

*Wetmorella philippina* (in part) Fowler & Bean, 1928: 211 (Little Santa Cruz, Zamboanga, Philippines).

*Wetmorella philippina bifasciata* Schultz & Marshall, 1954: 441, pl. 12, figs. A-B; fig. 53 (Suakin, Sudan).

*Wetmorella ocellata* Schultz & Marshall, 1954: 444, pl. 12, figs. D-E (Rongelap Atoll, Marshall Ids).

*Wetmorella triocellata* Schultz & Marshall, 1954: 447, fig. 54 (Rapurapu Id, Philippines).

DISTRIBUTION: Indo-Pacific, including Red Sea.

### Genus *Xenojulis* de Beaufort

*Xenojulis* de Beaufort, 1939: 415 (type-species *Xenojulis montillai* de Beaufort, by original designation).

One species.

#### *Xenojulis margaritaceus* (Macleay)

*PlatyGLOSSUS margaritaceus* Macleay, 1883b: 274 (Hood Bay, Port Moresby, Papua New Guinea).

*Halichoeres macleayi* Jordan & Seale, 1906:303 (unneeded replacement for *PlatyGLOSSUS margaritaceus* Macleay, thought to be preoccupied by *Julis margaritaceus* Valenciennes when both in *Halichoeres*).

*Xenojulis montillai* de Beaufort, 1939: 417, fig. 3 (Balawan, La Union Province, Luzon Id, Philippines).

*Halichoeres sexmaculatus* Fowler, 1946: 166, fig. 34 (Aguni Shima, Ryukyu Ids, Japan).

DISTRIBUTION: Ryukyu Ids, Philippines, New Guinea, and western Australia.

### Genus *Xiphocheilus* Bleeker

*Xiphocheilus* Bleeker, 1856e: 223 (type-species, *Xiphocheilus typus* Bleeker, by monotypy)

*Xiphochilus* Günther, 1862:98 (unjustified emendation).

One species (Gomon, 1997).

#### *Xiphocheilus quadrimaculatus* (Günther)

*Xiphochilus quadrimaculatus* Günther, 1880: 45, pl. 20, fig. C (Arafura Sea).

*Xiphocheilos typus* Bleeker, 1856e: 224 (Nias, Indonesia).

DISTRIBUTION: India, Indonesia, northwestern Australia, South China Sea, New Caledonia.

### Genus *Xyrichtys* Cuvier

*Xyrichtys* Cuvier, 1814: 87 (type-species, *Coryphaena novacula* Linnaeus, by subsequent designation).

*Novacula* Cuvier, 1815a: 324 (type-species, *Coryphaena novacula* Linnaeus, by monotypy and by absolute tautonymy).

*Xirichthys* Cuvier, 1829: 262 (*Xyrichtys* of later authors)

*Amorphocephalus* Bowdich, 1825: xii, 238 (type-species, *Amorphocephalus granulatus* Bowdich, by monotypy).

*Iniistius* Gill, 1862: 143 (type-species, *Xyrichtys pavo* Valenciennes, by original designation).  
*Xyrula* Jordan, 1890: 656 (type-species, *Xyrichtys jessiae* Jordan, by original designation).  
*Duohemipteronotus* Fowler, 1956: 281 (type-species, *Hemipteronotus evides* Jordan & Richardson, by original designation, proposed as a subgenus).

REMARKS: Randall and Bauchot (1993) showed that the use of *Hemipteronotus* Lacepède for species of *Xyrichtys* is incorrect, as Lacepède's name was intended for the pilotfish (*Naucrates ductor*). They proposed that *Hemipteronotus* be suppressed, and it was placed on the Official Index of Rejected and Invalid Generic Names in Zoology (Opinion, 1799). The genus is in need of revision to determine the identity of some Indo-Pacific species; Randall (1965a) reviewed the Western Atlantic species; 28 species are provisionally listed here (including 1 undescribed species). Some 22 species (including 4 species endemic to the Eastern Pacific) are Indo-Pacific; 6 species are known from the Atlantic.

### *Xyrichtys aneitensis* (Günther)

*Novacula aneitensis* Günther, 1862: 176 (Aneityum [Aneiteum] Id, Vanuatu [New Hebrides]).  
*Hemipteronotus liogenys* Fowler, 1904: 539, pl. 20, lower fig. (Padang, Sumatra, Indonesia).

DISTRIBUTION: Indo-Pacific, Maldives to Samoa.

### *Xyrichtys baldwini* (Jordan & Evermann)

*Hemipteronotus baldwini* Jordan & Evermann, 1903: 192 (Honolulu, Oahu Id, Hawaiian Ids).  
*Hemipteronotus jenkinsi* Snyder, 1904: 530, pl 10, fig. 19 (Puako Bay, Hawaii Id, Hawaiian Ids).  
*Hemipteronotus evides* Jordan & Richardson, 1909: 196, pl. 72 (Kao-Hsiung, Taiwan).  
*Hemipteronotus maculosus* Fourmanoir, 1967: 268, fig. 2 (Vietnam).

DISTRIBUTION: Hawaiian Ids and Viet Nam.

REMARKS: *Hemipteronotus maculosus* is a new synonym.

### *Xyrichtys bimaculatus* Rüppell

*Xyrichtys bimaculatus* Rüppell, 1829: 43, pl. 10 (Bay of Massawa, Eritrea, Red Sea).  
*Novacula punctulata* Val., 1840: 73 (Bombay, India).  
*Hemipteronotus hyospilus* Schultz in Schultz et al., 1960: 150, fig. 97 (Makasser, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Red Sea, India, and Indonesia.

REMARKS: synonymy from Randall (1981b).

### *Xyrichtys blanchardi* (Cadenat & Marchal)

*Novaculichthys blanchardi* Cadenat & Marchal, 1963: 1293, fig. 42 (Ascension Id).

DISTRIBUTION: Ascension and St. Helena, South Atlantic.

REMARKS: Reported from St. Helena by Edwards and Glass (1987).

***Xyrichtys celebicus*** (Bleeker)

*Novacula celebica* Bleeker, 1856b: 61 (Indonesia).

*Xyrichtys* sp. 2 Shen & Yeh, 1987: 65, figs. 13-14 (Taiwan).

DISTRIBUTION: East Indies, Taiwan, to Marshall Ids.

***Xyrichtys cyanifrons*** Valenciennes

*Xyrichtys cyanifrons* Val., 1840: 46 (Pondicherry, India).

*Novacula rufa* Day, 1873: 238 (Madras, India).

DISTRIBUTION: Pondichéry, southern India.

***Xyrichtys dea*** Temminck & Schlegel

*Xyrichtys dea* Temminck & Schlegel, 1845: 171, pl. 87 (Japan).

*Xyrichtys margaritatus* Fourmanoir, 1967: 267, fig. 1 (Vietnam).

DISTRIBUTION: Japan, China, Viet Nam, Indonesia and Australia.

***Xyrichtys geisha*** Araga & Yoshino

*Hemipteronotus* sp. 2 Masuda et al., 1975: 306, pl. 111 I.

*Xyrichtys geisha* Araga & Yoshino, 1986: 75, fig. 1 (outer margin of Okinawa Trough, Japan, depth ca. 100 m).

DISTRIBUTION: Japan.

***Xyrichtys incandescens*** Edwards & Lubbock

*Xyrichtys incandescens* Edwards & Lubbock, 1981: 233, fig. 1 (Fernando de Noronha Archipelago, Brazil).

DISTRIBUTION: Fernando de Noronha Archipelago, Brazil.

***Xyrichtys jacksonensis*** (Ramsay)

*Novacula jacksonensis* Ramsay, 1881: 198 (Manly Beach, Port Jackson, New South Wales, Australia).

DISTRIBUTION: Australia and Lord Howe Id..

***Xyrichtys javanicus*** (Bleeker)

*Novacula javanica* Bleeker, 1862b: 305 (Java, Indonesia).

DISTRIBUTION: Red Sea and Indonesia.

***Xyrichtys martinicensis*** Valenciennes

*Xyrichtys martinicensis* Val., 1840: 49 (Martinique Id).

*Xyrichtys lineatus* Val., 1840: 50 (Martinique Id).

*Xyrichtys modestus* Poey, 1867: 238 (Havana, Cuba).

*Xyrichtys venustus* Poey, 1876: 152 (Martinique Id).

*Xyrichtys infirmus* Bean, 1891: 199, pl. 29, fig. 2 (Cozumel, Yucatán, Mexico).

*Xyrichtys niveilatus* Jordan & Evermann, 1903: 194 (Cozumel, Yucatán, Mexico).

DISTRIBUTION: Bermuda, Florida, West Indies, Carribean, Yucatan to Venezuela.

REMARKS: synonymy from Randall (1965a).

***Xyrichtys melanopus*** (Bleeker)

*Novacula melanopus* Bleeker, 1857c: 82 (Ambon Id, Moluccas Ids, Indonesia).

*Novacula spilonotus* Bleeker, 1857c: 83 (Ambon Id).

DISTRIBUTION: Red Sea and western Pacific.

***Xyrichtys mundiceps*** Gill

*Xyrichtys mundiceps* Gill, 1862: 143 (Baja California).

DISTRIBUTION: Baja California, Mexico.

***Xyrichtys niger*** (Steindachner)

*Novacula (Iniistius) nigra* Steindachner, 1900: 176 (Honolulu, Oahu Id, Hawaiian Ids).

*Iniistius verater* Jenkins, 1901: 55, fig. 12 (Honolulu).

DISTRIBUTION: Red Sea and Hawaiian Ids.

REMARKS: a probable synonym of *Xyrichtys pavo* Valenciennes (Randall & Earle, MS).

***Xyrichtys novacula*** (Linnaeus)

*Coryphaena novacula* Linnaeus, 1758: 262 (Mediterranean).

*Coryphaena psittacus* Linnaeus, 1766: 448 (Carolina, U.S.A.).

*Coryphaena lineata* Gmelin, 1789: 1195 (Charleston, South Carolina, U.S.A.).

*Coryphaena lineolata* Rafinesque, 1810a: 33 (Sicily, Italy).

*Novacula coryphaenoides* Schinz in Cuvier, 1822: 430 *nomen novum* for *Coryphaena novacula* Linnaeus.

*Amorhocephalus granulatus* Bowdich, 1825: 238, fig. 36 (Bona Vista, Madeira).

*Novacula coryphena* Risso, 1827: 334 (Mediterranean; substitute name for *Coryphaena novacula* Linnaeus).

*Xyrichtys uniocellatus* Agassiz in Spix & Agassiz, 1829: 97, pl. 55 (Brazil).

*Xyrichtys cultratus* Val., 1840: 37, pl. 391 (Martigues, Montpellier, Ivica, Seide).

*Xyrichtys vitta* Val., 1840: 51 (no locality).

*Xyrichtys vermiculatus* Poey, 1860: 215 (Havana, Cuba).

*Xyrichtys argentimaculata* Steindachner, 1861: 134 (Cape of Good Hope, South Africa; [locality dubious]).

*Xyrichtys rosipes* Jordan & Gilbert, 1884: 27 (Key West, Florida, U.S.A.).

*Xyrichtys jessiae* Jordan, 1888: 698 (off Tampa Bay, Florida, U.S.A.).

*Hemipteronotus copei* Fowler, 1901: 508, pl. 20, fig. 1 ("Oahu, Hawaiian Ids" [locality questionable]).

*Xyrichtys binghami* Mowbray, 1925: 1, fig. 1 (Double-headed Shot Cat, Cay Sal Bank, Bahamas).

DISTRIBUTION: Western Atlantic: Bermuda, North Carolina to Brazil, including Gulf of Mexico, West Indies and Caribbean. Mediterranean and Eastern Atlantic from Spain to Gulf of Guinea, including Madeira and Canary Ids.

REMARKS: synonymy from Randall (1965a) and Gomon and Forsyth (1990). The status of *Novacula coryphaenoides* is discussed by Daget (1968).

***Xyrichtys pavo*** (Valenciennes)

*Xyrichtys pavo* Val., 1840: 61, pl. 394 (Mauritius).

*Xyrichtys pavoninus* Val., 1840: 63 (Hawaiian Ids).

*Novacula tessellata* Val., 1840: 74 (Mauritius).

*Novacula immaculata* Val., 1840: 75 (Mauritius).

*Xyrichtys puniceus* Richardson, 1846b: 261 (China).

*Novacula tetrazona* Bleeker, 1859a: 169 (Bali, Indonesia).

*Iniistius mundicorpus* Gill, 1862: 145 (Baja California).



*Novacula (Xirichthys) carneoflava* Peters, 1877: 843 (Dana Id).

*Iniistius cacatua* Waite, 1901: 41, pl. 7 (Lord Howe Id).

*Iniistius leucozonus* Jenkins, 1901: 54, fig. 11 (Honolulu).

*Novacula temporalis* Regan, 1905: 392, pl. 6, fig. 3 (Réunion).

*Xyrichthys panamensis* Fowler, 1944a: 267, fig. 234 (Perlas Ids, Panama, Eastern Pacific).

DISTRIBUTION: Indo-Pacific, Red Sea to eastern Pacific.

REMARKS: *Iniistius leucozonus* Jenkins is a new synonym.

### ***Xyrichtys pentadactylus*** (Linnaeus)

*Coryphaena pentadactyla* Linnaeus, 1758: 261 (India).

*Xirichthys cyanirostris* Guerin-Meneville 1829-38: 27, pl. 43, fig. 3 (Pondicherry, India).

*Novacula sexmaculata* Val., 1840: 72 (Bombay, India).

DISTRIBUTION: Red Sea to western Pacific.

REMARKS: *Coryphaena pentadactyla* was redescribed by Valenciennes (1840: 69) as *Novacula pentadactyla*. *Xirichthys cyanirostris* Guerin-Meneville and *Novacula sexmaculata* Valenciennes are synonyms according to Bleeker (1862f) and Bauchot (1963), respectively.

### ***Xyrichtys rajagopalani***

Venkataramanujam, Venkataramani & Ramanathan

*Xyrichtys rajagopalani* Venkataramanujam, Venkataramani & Ramanathan, 1987: 47, fig. 1 (Tamil Nadu, India).

DISTRIBUTION: southern India.

### ***Xyrichtys sanctaehelena*** (Günther)

*Novacula sanctaehelena* Günther, 1868: 228 (St. Helena).

DISTRIBUTION: St. Helena and Ascension Id.

### ***Xyrichtys splendens*** Castelnau

*Xyrichtys splendens* Castelnau, 1855: 28, pl. 5, fig. 2 (Bahia, Brazil).

*Xyrichtys ventralis* Bean, 1891: 198, pl. 29, fig. 1 (Cozumel, Yucatán, Mexico).

DISTRIBUTION: Bermuda, Florida, Yucatán, Caribbean and West Indies to Brazil.

### ***Xyrichtys trivittatus*** Randall & Cornish

*Xyrichtys* sp. 1 Shen & Yeh, 1987: 64, fig. 12 (Taiwan).

*Xyrichtys pavo* (*nec Valenciennes*): Shen, 1997: 469, pl. 156, fig. 5 (same photo used by Shen & Yeh (1987)).

*Xyrichtys trivittatus* Randall & Cornish, 2000: 19, fig. 1 (Hong Kong).

DISTRIBUTION: Hong Kong and Taiwan.

### ***Xyrichtys twistii*** (Bleeker)

*Novacula twistii* Bleeker, 1856c: 381 (Indonesia).

?*Novacula stockumii* Reuvens, 1895: 131 (Indonesia).

*Hemipteronotus nigromaculatus* Herre, 1933: 20 (Jolo, Sulu Archipelago, Philippines).

*Hemipteronotus* sp. 1 Masuda et al., 1975: 305, pl.111 C.

DISTRIBUTION: Japan, Indonesia.

### ***Xyrichtys umbrilatus*** (Jenkins)

*Hemipteronotus umbrilatus* Jenkins, 1901: 53, fig. 10 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

### ***Xyrichtys verrens*** (Jordan & Evermann)

*Hemipteronotus verrens* Jordan & Evermann, 1902: 354, fig. 22 (Keerun, Taiwan).

*Hemipteronotus caeruleopunctatus* Yu, 1968: 129, fig. 54 (Koahsiung, Taiwan).

DISTRIBUTION: Japan, Taiwan.

REMARKS: Synonymy from Shen and Yeh (1987).

### ***Xyrichtys victori*** Wellington

*Xyrichtys victori* Wellington, 1992: 1054, figs. 1-2 (Punta Espejo, Marchena Id, Galápagos Ids).

DISTRIBUTION: Galápagos Ids.

### ***Xyrichtys wellingtoni*** Allen & Robertson

*Xyrichtys wellingtoni* Allen & Robertson, 1995: 80, fig. 1 (Clipperton Id, 10°18'N, 109°13'W).

DISTRIBUTION: Clipperton Id, Central Pacific.

### *Xyrichtys* sp 1

DISTRIBUTION: Galápagos Ids.

REMARKS: This species is under study by B.C. Victor and G.M. Wellington.

## Family SCARIDAE Rafinesque, 1810a

(Parrotfishes)

The Family Scaridae (also known as the Callyodontidae) is represented in all shallow tropical seas. Most scarids (75%) occur in the Indo-Pacific Region. Some widely distributed tropical species (e.g. *Scarus ghobban*) may be found in subtropical waters, and one species (*Sparisoma cretense*) enters the temperate waters of the Eastern Atlantic and Mediterranean Sea.

Characters that define the Scaridae are as follows:

Body oblong to moderately elongate, somewhat compressed. Mouth rather small, terminal, not protractile; teeth fused to form a pair of sharp-edged plates, resembling a parrot's beak, covered to a varying degree by lips; one or two small laterally projecting canine teeth may be present posteriorly on dental plates in adults. Pharyngeal dentition unique, the interlocking upper pharyngeal bone with 1-3 rows of molariform teeth on a convex surface which bears against the molar-studded concave surface of the single lower pharyngeal bone. Dorsal fin continuous, with 9 spines and 10 soft rays, anal fin with 3 spines and 9 soft rays, caudal fin with 11 branched rays, and pelvic fin with one spine and 5 rays. Scales large, cycloid, with 22-24 in longitudinal series; those of lateral line with arborescent tubes; lateral line continuous or interrupted below rear of dorsal fin, usually with 18 scales in upper section and 6 scales in lower portion. Head naked, except for scales on cheek. Parrotfishes have a very long intestine and no true stomach, characters related to their herbivorous diet.

Generally found on coral reefs and rocky substrata with heavy algal cover, or seagrass beds. Parrotfishes feed mainly on seagrasses and algae (especially on dead coral substrates), but a few of the larger species feed in part on live coral. Sex reversal is associated with colour changes, as in the Labridae, and colour patterns of many species change greatly from juvenile to adult. Nevertheless, colour patterns of live fish are very important in classification.

## TAXONOMY

Usually two subfamilies, Sparinae and Sparisomatinae, have been recognized. However, according to recent phylogenetic analysis, this distinction appears no longer justified (Bellwood, 1994). Ten genera and 90 species, 2 of which are undescribed are recognized here. Bellwood

(1994) revised the generic classification; Randall & Bruce (1983) reviewed western Indian Ocean species (Hoover, 1995 added another species from Oman); and Choat and Randall (1986) reviewed the parrotfishes of the Great Barrier Reef. Although we believe the oldest available names are correct for the species of Scaridae, there are many later names not yet confidently placed with the correct senior synonym. Some of these were imperfectly described, thus requiring examination of the holotypes. Even when holotypes are available, the loss of colour pattern in preserved specimens makes identification difficult. A revision of all Indo-Pacific species will still be a difficult task.

### **Genus *Bolbometopon* Smith**

*Bolbometopon* Smith, 1956b: 8 (type-species, *Scarus muricatus* Valenciennes, by original designation).

One species.

#### ***Bolbometopon muricatum* (Valenciennes)**

*Scarus muricatus* Val., 1840: 208 (Java, Indonesia).

*Callyodon shimoniensis* Smith, 1953: 622, pl. 15-16 (Shimoni, Kenya).

DISTRIBUTION: Indo-Pacific, Red Sea to Mozambique, Maldives, Samoa and Line Ids.

### **Genus *Calotomus* Gilbert**

*Calotomus* Gilbert, 1890: 70 (type-species, *Calotomus xenodon* Gilbert, by original designation).

*Scaridea* Jenkins, 1903: 468 (type-species, *Scaridea zonarcha* Jenkins, by original designation).

Genus revised by Bruce & Randall (1985); 4-5 species (see remarks under *C. viridescens*). Red Sea to South Africa, Japan, Australia and eastern Pacific.

#### ***Calotomus carolinus* (Valenciennes)**

*Callyodon carolinus* Val., 1840: 291 (Caroline Ids).

*Callyodon genistriatus* Val., 1840: 293 (no locality).

*Callyodon sandwicensis* Val., 1840: 295 (Hawaiian Ids).

*Callyodon brachysoma* Bleeker, 1861b: 244 (Indonesia).

*Calotomus xenodon* Gilbert, 1890: 70 (Socorro Id, Revillagigedo Ids, off western Mexico).

*Calotomus irradians* Jenkins, 1901: 58, fig. 15 (Honolulu).

*Calotomus snyderi* Jenkins, 1903: 467, fig. 25 (Honolulu).

*Scarichthys rarotongae* Seale, 1906: 59, fig. 8 (Cook Ids).

*Cryptotomus albimarginatus* Fourmanoir & Guézé, 1961: 19, fig. 6 (Réunion Id).

DISTRIBUTION: Indo-Pacific, South Africa to Oman, Hawaiian Ids, and eastern tropical Pacific.

REMARKS: *Calotomus carolinus* may be a synonym of *C. viridescens* (Rüppell) (Randall & Anderson, 1993).

### ***Calotomus japonicus*** (Valenciennes)

*Callyodon japonicus* Val., 1840: 294, pl. 406 (Japan).

*Calotomus cyclurus* Jenkins, 1903: 465, fig. 24 ("Hawaiian Islands"; error for Japan (Bruce & Randall, 1985)).

DISTRIBUTION: Japan, Korea and Hawaiian Ids.

### ***Calotomus spinidens*** (Quoy & Gaimard)

*Scarus spinidens* Quoy & Gaimard, 1824: 289 (Waigeo [Waigiou], Indonesia).

*Callyodon waigiensis* Val., 1840: 296 (unneeded replacement for *Scarus spinidens* Quoy & Gaimard).

*Callyodon hypselosoma* Bleeker, 1855c: 425 (Ambon Id, Moluccas Ids, Indonesia).

*Callyodon moluccensis* Bleeker, 1861b: 243 (Sulawesi [Celebes], Ternate, Batjan, Timor, Ambon, Ceram and Banda, Indonesia).

DISTRIBUTION: Indo-Pacific, South Africa, Chagos, Maldives, to Marshall Ids and Tonga.

### ***Calotomus viridescens*** (Rüppell)

*Scarus (Calliodon) viridescens* Rüppell, 1835: 23, pl. 7, fig. 2 (Jidda [Jeddah], Saudi Arabia, Red Sea).

DISTRIBUTION: Red Sea, Chagos, Maldives; might be Indo-Pacific (see Remarks under *C. carolinus*).

### ***Calotomus zonarchus*** (Jenkins)

*Scaridea zonarcha* Jenkins, 1903: 468, fig. 26 (Honolulu).

*Scaridea balia* Jenkins, 1903: 469, fig. 27 (Honolulu).

*Scaridea aerosa* Jordan & Snyder, 1907: 215, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).

*Scaridea farrandi* Jordan [E.K.], 1925: 28, pl. 1, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Ids.

### **Genus *Cetoscarus*** Smith

*Cetoscarus* Smith, 1956b: 16 (type-species, *Scarus pulchellus* Rüppell, by original designation).

One species.

### ***Cetoscarus bicolor*** (Rüppell)

*Scarus bicolor* Rüppell, 1829: 82, pl. 21, fig. 3 (Jeddah).

*Scarus pulchellus* Rüppell, 1835: 25, pl. 8, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Scarus ocellatus* Val., 1840: 278 (Caroline Ids).

*Scarus roseiceps* Val., 1840: 279 (Ulea, Caroline Ids).

*Callyodon scriptus* Gronow in Gray, 1854: 85 (Indian Ocean).

*Pseudoscarus nigripinnis* Playfair & Günther, 1867: 105, pl. 15, fig. 2 (Zanzibar).

*Scarus ophthalmistius* Herre, 1933: 21 (Philippines).

DISTRIBUTION: Indo-Pacific, Red Sea to Chagos, Maldives, and Caroline Ids.

### **Genus *Chlorurus*** Swainson

*Chlorurus* Swainson, 1839: (173) 227 (type-species, *Scarus gibbus* Rüppell, by monotypy, proposed as a subgenus).

*Pseudoscarus* Bleeker, 1861b: 230 (type-species, *Scarus microrhinos* Bleeker, by subsequent designation).

*Xanophon* Smith, 1956b: 4 (type-species, *Callyodon bipallidus* Smith, by original designation).

*Ypsiscarus* Schultz, 1958: 33, 47 (type-species, *Callyodon oedema* Snyder, by original designation; proposed as a subgenus).

A valid genus (Bellwood, 1994); 17 species; Indo-Pacific.

### ***Chlorurus atrilunula*** (Randall & Bruce)

*Scarus atrilunula* Randall & Bruce, 1983: 9, pl. 4, figs. A-B (Shimoni, Kenya).

DISTRIBUTION: Known only from Kenya to South Africa.

### ***Chlorurus bleekeri*** (de Beaufort)

*Scarus quoyi* (*nec* Valenciennes) Bleeker, 1853e: 607 (Ternate, Moluccas, Indonesia).

?*Scarus cyanotaenia* Bleeker, 1854b: 197 (Jakarta).

*Callyodon bleekeri* de Beaufort, 1940: 318 (*nomen novum* for *Scarus quoyi* Bleeker).

DISTRIBUTION: Northwestern Australia to Fiji.

REMARKS: *Scarus cyanotaenia* Bleeker, 1854b is an initial phase of *Chlorurus*, most likely *C. bleekeri*.

***Chlorurus bowersi*** (Snyder)

*Callyodon bowersi* Snyder, 1909: 602 (Okinawa, Japan).

DISTRIBUTION: Ryukyus, Philippines, Java and Palau.

***Chlorurus capistratoides*** (Bleeker)

*Scarus capistratoides* Bleeker, 1847: 162 (Jakarta).

DISTRIBUTION: Indonesia to Maldives and Chagos Ids.

REMARKS: regarded as *Scarus japonensis* by Randall and Nelson (1979); corrected by Randall (1992b).

***Chlorurus cyanescens*** (Valenciennes)

*Scarus cyanescens* Val., 1840: 254 (Mauritius).

*Pseudoscarus chloromelas* Playfair & Günther, 1867: 109, pl. 15, fig. 1 (Zanzibar).

DISTRIBUTION: Zanzibar to South Africa., Madagascar and Mauritius.

***Chlorurus enneacanthus*** (Lacepède)

*Scarus enneacanthus* Lacepède, 1802: 2, 6 (Mauritius).

*Scarus capitaneus* Cuvier, 1829: 265 (Mauritius).

DISTRIBUTION: Mozambique, Mauritius, Chagos, Maldives.

***Chlorurus frontalis*** (Valenciennes)

*Scarus frontalis* Val., 1840: 280 (Strong Id, Caroline Ids).

*Pseudoscarus jonesi* Street, 1877: 80 (Palmyra Id, Hawaiian Ids).

*Scarus lupus* Fowler, 1900: 491, pl. 18, fig. 1 ("Caroline Id" [Thornton] Id [Line Ids.], South Pacific).

*Scarus brighami* Bryan & Herre, 1903: 131 (Marcus Id, west Pacific).

*Callyodon latak* Jordan & Seale, 1906: 329, pl. 49 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: Great Barrier Reef and islands of Oceania.

REMARKS: synonymy from Wass (1984), Choat and Randall (1986) and Randall in Böhlke (1984).

***Chlorurus genazonatus*** (Randall & Bruce)

*Scarus genazonatus* Randall & Bruce, 1983: 19, pl. 6, figs. E-F (Sinai Peninsula, Gulf of Aqaba, Red Sea).

DISTRIBUTION: Red Sea.

***Chlorurus gibbus*** (Rüppell)

*Scarus gibbus* Rüppell, 1829: 81, pl. 20, fig. 2 (Red Sea).

DISTRIBUTION: Red Sea.

***Chlorurus japanensis*** (Bloch)

*Scarus japanensis* Bloch, 1789: 244 (Japan or Java).

*Scarus viridis* Bloch, 1790: 29 (Japan or Java, Indonesia; preoccupied by *Scarus viridis* Bonnaterra 1788 [= *Sparisoma viride* (Bonnaterre, 1788)]).

*Scarus blochii* Val., 1840: 219 (*nomen novum* for *Scarus viridis* Bloch 1790).

*Callyodon pyrrhurus* Jordan & Seale, 1906: 314, fig. 55 (Pago Pago, American Samoa).

*Callyodon abacurus* Jordan & Seale, 1906: 324, pl. 33 (Pago Pago, American Samoa).

*Callyodon philippinus* Fowler, 1918: 66, fig. 26 (Philippines).

DISTRIBUTION: western Pacific to Samoa.

REMARKS: synonymy from Randall and Nelson (1979); they erred however in listing *Scarus capistratoides* Bleeker as a junior synonym of *japanensis*.

***Chlorurus microrhinos*** (Bleeker)

*Scarus microrhinos* Bleeker, 1854b: 200 (Indonesia).

*Callyodon ultramarinus* Jordan & Seale in Seale, 1906: 63, fig. 16 (Mangareva Id, Tuamotu Ids).

DISTRIBUTION: western and central Pacific.

REMARKS: Synonymized with *Scarus gibbus* by Choat and Randall (1986); corrected by Randall (1992b).

***Chlorurus oedema*** (Snyder)

*Callyodon oedema* Snyder, 1909: 603 (Okinawa, Japan).

DISTRIBUTION: Japan to Indonesia.



### ***Chlorurus perspicillatus*** (Steindachner)

*Scarus perspicillatus* Steindachner, 1879: 32 (Hawaiian Ids).

*Scarus ahula* Jenkins, 1901: 61, fig. 19 (Honolulu).

*Scarus miniatus* Jenkins, 1901: 62, fig. 20 (Honolulu).

*Scarus barborus* Jordan & Evermann, 1903: 197 (Honolulu, Oahu Id, Hawaiian Ids).

*Callyodon borborus* Jordan & Evermann, 1905: 349, fig. 150 (unjustified emendation of *Scarus barborus*).

*Scarus kraussi* Jordan [E.K.], 1925: 30, pl. 2, fig. 1 (Honolulu, Oahu Id, Hawaiian Ids).

*Scarus leucostigma* Jordan, Evermann & Tanaka, 1927: 676, pl. 24, fig. 2 (Honolulu, Oahu Id, Hawaiian Ids).

DISTRIBUTION: Hawaiian Islands.

### ***Chlorurus rhakoura*** Randall & Anderson

*Chlorurus* sp. Anderson, 1996: 60.

*Chlorurus rhakoura* Randall & Anderson, 1997: 157 (off Trincomalee, Sri Lanka).

DISTRIBUTION: Sri Lanka.

### ***Chlorurus sordidus*** (Forsskål)

*Scarus sordidus* Forsskål, 1775: 30 (Red Sea).

*Scarus nigricans* Val., 1840: 213 (Red Sea).

*Scarus erythrodon* Val., 1840: 255 (Mauritius).

*Scarus variegatus* Val., 1840: 256 (Mauritius).

*Scarus purpureus* Val., 1840: 277 (Ulea, Caroline Ids; preoccupied by *Scarus purpureus* Forsskål, 1775 [= *Thalassoma purpureum* (Forsskål)]).

*Scarus spilurus* Val., 1840: 279 (Caroline Ids).

?*Scarus sumbawensis* Bleeker, 1848: 638 (Indonesia).

*Scarus gymnognathos* Bleeker, 1853d: 498 (Jakarta).

*Scarus celebicus* Bleeker, 1854e: 253 (Indonesia)

*Pseudoscarus margaritus* Cartier, 1874: 105 (Cebu, Philippines).

*Pseudoscarus goldiei* Macleay, 1883a: 590 (New Guinea).

*Pseudoscarus platodoni* Seale, 1901a: 96 (Guam).

*Callyodon cyanogrammus* Jordan & Seale, 1906: 330, fig. 63 (Apia, Upolu Id, Western Samoa).

*Pseudoscarus vitriolinus* Bryan, 1906: 27, fig. 4 (Honolulu, Oahu Id, Hawaiian Ids).

*Callyodon rostratus* Seale, 1910: 524 (Philippines).

*Callyodon albipunctatus* Seale, 1910: 526 (Philippines).

*Scaridea leucotaeniata* Fowler, 1944b: 180, fig. 35 (Vanuatu [New Hebrides]).

*Callyodon bipallidus* Smith, 1955: 936 (Mozambique).

*Xanophon bipallidus* Smith, 1956b: 5, pl. 41, fig. D (Pinda, Mozambique).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Maldives, Oman, Hawaiian Ids and

Pitcairn Group.

REMARKS: *Scarus sumbawensis* Bleeker is an initial phase of *Chlorurus*, possibly *C. sordidus*.

### ***Chlorurus strongylocephalus*** (Bleeker)

*Scarus strongylocephalus* Bleeker, 1854f: 439 (Jakarta).

*Pseudoscarus microcheilos* Bleeker, 1861b: 231 (Jakarta).

DISTRIBUTION: Kenya, Mozambique, Madagascar, Chagos, Seychelles, Maldives, Oman, and Indonesia.

REMARKS: Synonymized with *S. gibbus* by Randall & Bruce (1983), Choat & Randall (1986); corrected by Randall (1992b). Not known from Red Sea.

### ***Chlorurus troschelii*** (Bleeker)

*Scarus troschelii* Bleeker, 1853d: 498 (Jakarta, Indonesia).

?*Pseudoscarus rhoduropterus* Bleeker, 1861b: 233 (Makasar Sulawesi [Celebes], Indonesia).

DISTRIBUTION: Indonesia to Thailand.

REMARKS: *Pseudoscarus rhoduropterus* Bleeker is an initial phase of *Chlorurus*, possibly *C. troschelii*.

### **Genus *Cryptotomus*** Cope

*Cryptotomus* Cope, 1871: 462 (type-species, *Cryptotomus roseus* Cope, by monotypy).

One species.

### ***Cryptotomus roseus*** (Cope)

*Cryptotomus roseus* Cope, 1871: 462, figs. 1, 1a (St. Martin Id, West Indies).

*Cryptotomus crassiceps* Bean, 1906: 32 (Bermuda).

DISTRIBUTION: Bermuda, South Carolina to Florida, West Indies and Caribbean to southern Brazil.

REMARKS: synonymy from Schultz (1958).

### **Genus *Hipposcarus*** Smith

*Hipposcarus* Smith, 1956b: 17 (type-species, *Scarus harid* Forsskål, by original designation).

Two species; Indo-Pacific.

### *Hipposcarus harid* (Forsskål)

*Scarus harid* Forsskål, 1775: 30 (Red Sea).

*Scarus mastax* Rüppell, 1829: 80, pl. 21, fig. 2 (Red Sea).

*Petronason longicauda* Swainson, 1839:226 (based on *Scarus mastax* Rüppell).

*Scarus latus* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 245 (Red Sea).

*Scarus ruppelii* Val., 1840: 259 (Red Sea).

*Scarus cyanurus* Val., 1840: 261 (Jeddah, Saudi Arabia).

*Hipposcarus harid vexillus* Smith, 1959: 277, fig. 9 (Shimoni, Kenya).

DISTRIBUTION: Western Indian Ocean, Red Sea to Mozambique, Seychelles, Maldives, Mauritius, Chagos.

REMARKS: synonymy from Smith (1956a) and Dor (1984).

### *Hipposcarus longiceps* (Valenciennes)

*Scarus longiceps* Val., 1840: 241 (Waigiou, Indonesia).

*Scarus pinguirostratus* Fowler, 1904: 541, pl. 21, upper fig. (Padang, Sumatra, Indonesia).

*Scarus macrocheilos* Bleeker, 1854a: 60 (Indonesia).

*Hipposcarus schultzi* Smith, 1959: 277, fig. 8 (Murcielagos Bay, Philippines).

DISTRIBUTION: western Pacific to French Polynesia.

### Genus *Leptoscarus* Swainson

*Leptoscarus* Swainson, 1839: 172, 226 (type-species, *Scarus vaigiensis* Quoy & Gaimard, by monotypy; proposed as a subgenus).

*Scarichthys* Bleeker, 1859c: xvii, 106 (type-species, *Scarus naevius* Valenciennes, by subsequent designation).

Genus revised by Bruce & Randall (1985). One species.

### *Leptoscarus vaigiensis* (Quoy & Gaimard)

*Scarus vaigiensis* Quoy & Gaimard, 1824: 288 (Waigeo [Waigiou], Indonesia).

*Scarus (Calliodon) coeruleopunctatus* Rüppell, 1835: 24, pl. 7, fig. 3 (Jidda [Jeddah], Saudi Arabia, Red Sea).

*Scarus rubronotatus* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 212 (Gulf of Aqaba, Red Sea).

*Scarus auritus* Val., 1840: 218 (Java, Indonesia).

*Scarus naevius* Val., 1840: 253 (Seychelles).

*Scarus bottae* Val., 1840: 262 (Jeddah, Red Sea).

*Calliodon chlorolepis* Richardson, 1845: 137, pl. 64, figs. 4-7 (Hong Kong, China).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and Easter Id.

### Genus *Nicholsina* Fowler

*Nicholsina* Fowler, 1915a: 3 (type-species, *Cryptotomus beryllinus* Jordan & Swain, by original designation; proposed as a subgenus).

*Xenoscarus* Evermann & Radcliffe, 1917: 129 (type-species, *Xenoscarus denticulatus* Evermann & Radcliffe, by original designation).

Two species (Schultz, 1958). Atlantic and eastern Pacific.

### *Nicholsina usta* (Valenciennes)

*Callyodon ustus* Val., 1840: 286, pl. 405 (Brazil).

*Callyodon auropunctatus* Val., 1840: 290 (Santo Domingo).

*Scarus dentiens* Poey, 1861: 422 (Cuba).

*Calliodon retractus* Poey, 1868: 345 (Cuba).

*Cryptotomus beryllinus* Jordan & Swain, 1884: 101 (Havana, Cuba; Key West, Florida, U.S.A.).

*Nicholsina usta collettei* Schultz, 1968: 2, pl. 1 (off Guinea, west Africa, 9°53'N ,15°56'W).

DISTRIBUTION: two subspecies, *N. usta usta* Valenciennes, from Bermuda, New Jersey to northern Gulf of Mexico to Brazil; and *N. usta collettei* from Senegal to at least Annobón Id off Gabon (Randall, 1990).

### *Nicholsina denticulata* (Evermann & Radcliffe)

*Xenoscarus denticulatus* Evermann & Radcliffe, 1917: 129, pl. 12, fig. 1 (Lobos de Afuera Id, Peru).

*Xenoscarus hubbsi* Harry, 1950: 147, figs. 2-3 (Guaymas, Sonora, Gulf of California, Mexico).

DISTRIBUTION: Baja California to Peru and Galápagos Ids.

### Genus *Scarus* Forsskål

*Scarus* Forsskål, 1775: x, 25 (type-species, *Scarus psittacus* Forsskål, by subsequent designation).

*Callyodon* Scopoli (ex Gronow), 1777: 449 (type-species *Scarus croicensis* Bloch, by subsequent designation).

*Petronason* Swainson, 1839: 172, 226 (type-species, *Scarus psittacus* of Rüppell, by subsequent designation).

*Erychthys* Swainson, 1839: 172, 226 (type-species, *Scarus croicensis* Bloch, by subsequent designation; proposed as a subgenus).

*Hemistoma* Swainson, 1839: 172, 226 (type-species, *Hemistoma reticulata* Swainson, by monotypy, proposed as a subgenus).

*Loro* Jordan & Evermann, 1896: 418 (type-species, *Scarus guacamaia* Cuvier, by original designation).

*Margaritodon* Smith, 1956b: 15 (type-species, *Callyodon verweyi* de Beaufort [= *Scarus festivus*], by original designation).

*Scarops* Schultz, 1958: 17, 18 (type-species, *Scarus rubroviolaceus* Bleeker, by original designation).

*Xenoscarops* Schultz, 1958: 16, 23 (type-species, *Scarus perrico* Jordan & Gilbert, by original designation; proposed as a subgenus).

Fifty-one species, 2 of which are undescribed; circumtropical.

### ***Scarus altipinnis*** (Steindachner)

*Pseudoscarus altipinnis* Steindachner, 1879: 18 (type localities, Gilbert [Kingsmill] Ids and Hawaiian Ids).

*Callyodon waitei* Seale, 1906: 60, fig. 15 (Tahiti).

*Pseudoscarus brevifilis* Günther, 1909: 327 (Tahiti and Apamana [Abemana], Gilbert Ids).

DISTRIBUTION: central and western Pacific.

### ***Scarus arabicus*** (Steindachner)

*Pseudoscarus arabicus* Steindachner, 1902: 318 (Al Mukallä, Yemen, Gulf of Aden).

DISTRIBUTION: Arabian Sea; Gulf of Aden to Pakistan.

### ***Scarus caudofasciatus*** (Günther)

*Pseudoscarus caudofasciatus* Günther, 1862: 238 (Mauritius).

*Callyodon rubrofasciatus* Smith, 1956b: 10, pl. 43, fig. 1 (Shimoni, Kenya).

DISTRIBUTION: Red Sea to South Africa and western Indian Ocean.

### ***Scarus chameleon*** Choat & Randall

*Scarus lunula* (*non* Snyder): Choat & Robertson, 1975: 264.

*Scarus chameleon* Choat & Randall, 1986: 199, pl. 3, figs. C-D; pl. 9, figs. D-H (Sumilon Id, Cebu, Philippines).

DISTRIBUTION: western Australia to Philippines and Fiji.

### ***Scarus chinensis*** (Steindachner)

*Pseudoscarus chinensis* Steindachner, 1867b: 585 (Ningbo [Ningpo], Zhejiang province, China).

DISTRIBUTION: coasts of China.

REMARKS: This species was recognized by Bleeker (1873), Reeves (1927), Chu (1931), and Fowler (1956); known only from the holotype. The colour description is unlike that of any known species of *Scarus*; therefore we regard the species as probably valid.

### ***Scarus coelestinus*** Valenciennes

*Scarus coelestinus* Val., 1840: 180 (St. Thomas, Virgin Ids, West Indies).

*Scarus rostratus* Poey, 1860: 221 (Cuba; preoccupied by *Scarus rostratus* Shaw, 1803).

*Pseudoscarus simplex* Poey, 1865: 185 (Cuba).

*Pseudoscarus plumbeus* Bean, 1912: 125 (Bermuda).

DISTRIBUTION: Bermuda, South Florida, Caribbean, West Indies to Brazil.

### ***Scarus coeruleus*** (Bloch)

*Coryphaena coerulea* Bloch, 1786: 148, pl. 176 (Bahamas and Antilles).

*Calliodon gibbosus* Bloch & Schneider, 1801: 313 (Carolina, U.S.A.).

*Scarus loro* Bloch & Schneider, 1801: 288 (South America).

*Scarus trilobatus* Lacepède, 1802: 5, 21 (Martinique).

*Sparus holocyaneos* Lacepède, 1802: 45, 141 (Martinique)

*Scarus obtusus* Poey, 1860: 217 (Cuba).

*Scarus nuchalis* Poey, 1860: 220 (Cuba).

DISTRIBUTION: Bermuda, Maryland to Florida, Caribbean, West Indies to Brazil; absent from Gulf of Mexico.

### ***Scarus collana*** Rüppell

*Scarus collana* Rüppell, 1835: 25, pl. 8, fig. 2 (Massawa, Eritrea, Red Sea).

*Scarus collaris* Val., 1840: 265 (error for *collana*).

*Pseudoscarus ismailius* Kossmann & Rüber, 1877: 410 (Red Sea).

*Scarus ghardaqensis* Bebars, 1978: 78, fig. 2 (Al-Ghardaqa, Egypt, Red Sea).

DISTRIBUTION: Red Sea.

### ***Scarus compressus*** (Osburn & Nichols)

*Callyodon compressus* Osburn & Nichols, 1916: 171, fig. 13 (Concepción Bay, Baja California, Mexico).

DISTRIBUTION: Gulf of California to Ecuador including Galápagos Ids.

### ***Scarus dimidiatus*** Bleeker

*Scarus dimidiatus* Bleeker, 1859b: 17 (Doreh, New Guinea).

*Callyodon zonularis* Jordan & Seale, 1906: 321, fig. 60 (Pago Pago, American Samoa).

*Callyodon fumifrons* Jordan & Seale, 1906: 326, pl. 34 (Pago Pago, American Samoa).

DISTRIBUTION: Indonesia to Ryukyus, and Samoa.

### ***Scarus dubius*** Bennett

*Scarus dubius* Bennett, 1828b: 37 (Hawaiian Ids).

*Scarus formosus* Val., 1840: 283 (Hawaiian Ids).

*Scarus bennetti* Val., 1840: 270 (Hawaiian Ids).

*Scarus lauia* Jordan & Evermann, 1903: 196 (Hawaii Id).

DISTRIBUTION: Hawaiian Ids.

### ***Scarus falcipinnis*** (Playfair)

*Pseudoscarus falcipinnis* Playfair, 1868: 865, fig. 3 (Seychelles).

*Callyodon pindae* Smith, 1956b: 11, pl. 45, fig. 1 (Pinda, Mozambique).

*Callyodon improvisus* Smith, 1956b: 12, pl. 41, fig. E (Mahé, Seychelles).

DISTRIBUTION: Seychelles, Oman, Mozambique, Mauritius. The juvenile *Scarus falcipinnis* from Chagos (Winterbottom et al., 1989) may be *S. prasiognathos*.

### ***Scarus ferrugineus*** Forsskål

*Scarus ferrugineus* Forsskål, 1775: 29 (Dahab, northwest coast of Gulf of Aqaba, Red Sea).

*Scarus coerulescens* Val., 1840: 230 (Red Sea).

*Scarus aeruginosus* Val., 1840: 257 (Red Sea).

*Pseudoscarus augustinus* Kossmann & Räuber, 1877: 409 (Red Sea).

*Scarus marshalli* Schultz, 1958: 88 (Mersa Sheikh Sa'ad, Red Sea).

DISTRIBUTION: Red Sea to Persian Gulf.

### ***Scarus festivus*** Valenciennes

*Scarus festivus* Val., 1840: 282 (no locality).

*Callyodon lunula* Snyder, 1908: 99 (Okinawa, Japan).

*Callyodon verweyi* de Beaufort in Weber & de Beaufort, 1940: 298 (Jakarta [Batavia], Java, Indonesia).

DISTRIBUTION: South Africa, Maldives to Tuamotu Ids.

### ***Scarus flavipectoralis*** Schultz

*Scarus flavipectoralis* Schultz, 1958: 52, pl. 9 (Pagapas Bay, Luzon Id, Philippines).

DISTRIBUTION: Philippines to Great Barrier Reef, Caroline and Marshall Ids.

### ***Scarus forsteni*** (Bleeker)

*Pseudoscarus forsteni* Bleeker, 1861b: 238 (Indonesia).

*Callyodon laxtoni* Whitley, 1948: 94 (Ocean Id, Australia).

DISTRIBUTION: western Pacific to Pitcairn Group.

REMARKS: Regarded as a synonym of *Scarus tricolor* by Randall and Bruce (1983); further studies have shown that *S. forsteni* is valid (Choat & Randall, 1986). *C. laxtoni* is tentatively placed in the synonymy based on meristics, body shape and emarginate caudal fin.

### ***Scarus frenatus*** Lacepède

*Scarus frenatus* Lacepède, 1802: 3, 13, pl. 1, fig. 2 (Indo-Pacific Ocean).

*Scarus sexvittatus* Rüppell, 1835: 26 (Jeddah, Red Sea).

*Callyodon upolensis* Jordan & Seale, 1906: 319, fig. 59 (Apia, Upolu Id, Western Samoa).

*Callyodon vermiculatus* Fowler & Bean, 1928: 472, pl. 49 (Tidore Id, south of Ternate Id, Indonesia).

*Scarus randalli* Schultz, 1958: 97, pls. 19c, 27a; fig. 20 (Onotoa Atoll, Gilbert Ids).

DISTRIBUTION: Indo-Pacific, including Red Sea.

### ***Scarus fuscocaudalis*** Randall & Myers

*Scarus* sp. Myers, 1989: 198.

*Scarus* sp. Debelius & Kuitert, 1994: 238.

*Scarus fuscocaudalis* Randall, & Myers, 2000: 222, pl. 1 (Guam).

DISTRIBUTION: East Indies, Palau, Guam, Philippines, and Ryukyu Ids, Japan.



### *Scarus fuscopurpureus* (Klunzinger)

*Pseudoscarus forsskalii* var. *fuscopurpureus* Klunzinger, 1871: 567 (Al-Quseir [Kosseir], Egypt, Red Sea).

*Pseudoscarus collana* var. *eques* Steindachner, 1903: 151 (Al Mukallä, Yemen, Gulf of Aden).

DISTRIBUTION: Red Sea to Persian Gulf.

### *Scarus ghobban* Forsskål

*Scarus ghobban* Forsskål, 1775: 28 (Jeddah, Red Sea).

*Scarus guttatus* Bloch & Schneider (ex Sonnerat), 1801: 294 (Indian Seas).

*Scarus maculosus* Lacepède, 1802: 5, 21, pl. 1, fig. 3 (Mauritius).

*Scarus pepo* Bennett J.W., 1830: pl. 28 (Sri Lanka).

*Hemistoma reticulata* Swainson, 1839: 226, fig. 77 (*nomen novum* for *Scarus pepo* Bennett).

*Scarus lacerta* Val., 1840: 217 (Pondicherry, India).

*Scarus dussumieri* Val., 1840: 252 (Seychelles).

*Scarus scabriusculus* Val., 1840: 271 (Java, Indonesia).

*Scarus magrathii* Bennett, 1841: pl. 28 (Sri Lanka).

*Scarus pyrostethus* Richardson, 1846b: 262 (China).

*Scarus haridoides* Bleeker, 1855b: 344 (Indonesia).

*Pseudoscarus cantori* Bleeker, 1861b: 240 (Indonesia).

*Pseudoscarus nudirostris* Alleyne & Macleay, 1877: 346, pl. 17, fig. 1 (Cape Grenville, Queensland, Australia).

?*Pseudoscarus papuensis* Macleay, 1883: 590 (Papua New Guinea).

*Pseudoscarus flavipinnis* De Vis, 1885: 886 (Cape York, Queensland, Australia).

*Pseudoscarus californiensis* Pellegrin, 1901: 163 (La Paz Bay, Baja California, Mexico, Gulf of California).

*Scarus noyesi* Heller & Snodgrass, 1903: 206, pl. 9 (Isabela Id [Albemarle Id], Galápagos Ids).

*Pseudoscarus garretti* Günther, 1909: 306, pl. 153, fig. C (Gilbert [Kingsmill] Ids).

*Pseudoscarus natalensis* Gilchrist & Thompson, 1909: 259 (Natal, South Africa).

*Scarus pyrostethus australianus* Paradise in Paradise & Whitley, 1927: 103, pl. 14 (Northern Australia).

*Scarus azureus* Meek & Hildebrand, 1928: 742, pl. 72, fig. 1 (Panama City market, Panama).

*Scarus toshi* Whitley, 1933: 61 (Queensland, Australia).

*Callyodon fuscocuneus* Fowler, 1935: 158, fig. 128 (Bangkok, Thailand).

*Callyodon apridentatus* Smith, 1956b: 14, pl. 44, fig. F (Malindi, Kenya).

*Callyodon speigleri* Smith, 1956b: 14 (Indo-Pacific).

*Scarus fehlmanni* Schultz, 1969: 24, fig. 2 (Strait of Jubal, 27°16'40"N, 33°46'50"E, Red Sea).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and eastern Pacific.

REMARKS: No type of *Pseudoscarus papuensis* Macleay has been found. From the size of 16 inches, colour description, "crescent-shaped" caudal fin, 3 rows of scales on cheek, and noting that *Scarus ghobban* is not among the 14 scarids listed by Macleay, the best prospect would be

*ghobban*. However, one would have to accept an error by Macleay for 13 instead of 15 pectoral rays, and the upper lip should cover more than half, not less than half, of the upper dental plate.

### ***Scarus globiceps*** Valenciennes

*Scarus globiceps* Val., 1840: 242 (Tahiti, Society Ids).

*Scarus lepidus* Jenyns, 1842: 108 (Tahiti, Society Ids).

*Pseudoscarus spilonotus* Kner, 1868: 31 (Fiji Ids).

*Pseudoscarus strigipinnis* De Vis, 1885: 886 (Cardwell, Queensland, Australia).

*Pseudoscarus fuscus* De Vis, 1885: 887 (Queensland).

*Scarus pronus* Fowler, 1900: 490, pl. 18, fig. 3 (Caroline (Thornton) Id, [Line Ids]).

DISTRIBUTION: Indo-Pacific, South Africa to Fiji Ids.

REMARKS: synonymy from Randall and Choat (1980). The holotype of *P. strigipinnis* is in poor condition; it is considered *S. globiceps* based on the colour pattern described by De Vis and cheek scale counts.

### ***Scarus gracilis*** (Steindachner)

*Pseudoscarus gracilis* Steindachner, 1869: 125 (China).

DISTRIBUTION: China.

REMARKS: Like *Scarus chinensis*, this species is also from China and known only from the type material. It was recognized as valid by Bleeker (1873), Reeves (1927), Chu (1931), and Fowler (1956). Steindachner mentioned a dark stripe from snout to caudal fin, bordered broadly above by yellowish green. No fish with this colour pattern is known to us, although it may prove to be the initial phase of *S. chinensis*.

### ***Scarus guacamaia*** Cuvier

*Scarus guacamaia* Cuvier, 1829: 265 (Cuba).

*Scarus turchesius* Val., 1840: 181 (Puerto Rico).

*Scarus pleianus* Poey, 1861: 293 (St. Thomas, Virgin Ids).

DISTRIBUTION: Bermuda, South Florida, and Bahamas to Argentina; absent from Gulf of Mexico.

REMARKS: synonymy from Schultz (1969).

### ***Scarus hoefleri*** (Steindachner)

*Pseudoscarus hoefleri* Steindachner, 1881: 159 (Gorée, Senegal).

DISTRIBUTION: Eastern tropical Atlantic.

REMARKS: this species was illustrated and described in more detail in Steindachner 1881b.

### *Scarus hypselopterus* Bleeker

*Scarus hypselopterus* Bleeker, 1853d: 496 (Indonesia).

*Scarus javanicus* Bleeker, 1854b: 198 (Java, Indonesia).

*Scarus moensi* Bleeker, 1860c: 54 (Sulawesi, Indonesia).

*Callyodon ogos* Seale, 1910: 527 (Philippines).

DISTRIBUTION: Ryukyu Ids to Indonesia and Palau.

### *Scarus iseri* (Bloch)

*Callyodon iseri* Bloch, 1789: 245 (St. Croix, Virgin Ids).

*Scarus croicensis* Bloch, 1790: 27, pl. 221 (St. Croix Id).

*Scarus insulaesanctaecrucis* Bloch & Schneider, 1801: 285 (St. Croix Id, Virgin Ids, West Indies).

*Calliodon lineatus* Bloch & Schneider, 1801: 312, pl. 62, fig. 2 (no locality; plate apparently mislabeled as *Callyodon striatus*).

*Scarus punctulatus* Val., 1840: 195 (Martinique Id, W.I.).

*Scarus diadema* Val., 1840: 198 (Martinique Id, W.I.).

*Scarus alternans* Val., 1840: 200 (Martinique Id, W.I.).

*Scarus flavomarginatus* Val., 1840: 202 (Martinique Id)

*Scarus aracanga* Günther, 1862: 209 (Jamaica).

*Callyodon margarita* Fowler, 1917: 133, fig. 2 (Colón, (Atlantic) Panama).

DISTRIBUTION: Bermuda, North Carolina to Florida, northeast Gulf of Mexico, West Indies and Caribbean to northern South America.

REMARKS: The specific name *iseri* was regarded by Randall and Nelson (1979) as an inadvertent error for *iserti*. However, Bloch spelled *iseri* three times in Latinized form, so it can be argued that there was no inadvertent error. Later it was named *Scarus croicensis* by Bloch (1790). Many authors used *croicensis* as the valid name for this species. Valid as *iserti* in recent literature (Smith-Vaniz et al, 1999).

### *Scarus koputea* Randall & Choat

*Scarus koputea* Randall & Choat, 1980: 409, figs, 29-31 (Fatu Hiva, Marquesas Ids).

DISTRIBUTION: Marquesas Ids.

### ***Scarus longipinnis*** Randall & Choat

*Scarus longipinnis* Randall & Choat, 1980: 414, figs. 32-33 (Pitcairn Id, South Pacific).

DISTRIBUTION: Great Barrier Reef to Pitcairn Ids and Rapa.

### ***Scarus niger*** Forsskål

*Scarus niger* Forsskål, 1775: 28 (Red Sea).

?*Scarus chadri* Lacepède, 1802: 2, 12 (Arabia).

*Scarus nuchipunctatus* Val., 1840: 224 (Indian Seas).

*Scarus limbatus* Val., 1840: 271 (Macao).

?*Scarus makaravar* Montrouzier, 1857: 475 (Woodlark Id).

*Pseudoscarus flavomarginatus* Kner, 1865b: 262, pl. 10, fig. 2 (Java, Indonesia).

*Pseudoscarus niger* var. *viridis* Klunzinger, 1871: 570 (Al-Quseir [Kosseir], Egypt, Red Sea).

*Pseudoscarus madagascariensis* Steindachner, 1887a: 230 (Madagascar).

*Callyodon maoricus* Jordan & Seale, 1906: 328, pl. 48, fig. 3 (Pago Pago, American Samoa).

*Pseudoscarus godeffroyi* Günther, 1909: 326, pl. 159 (Society Ids).

*Callyodon lineolabiatatus* Fowler & Bean, 1928: 457, pl. 47 (Butauanan Id, Philippines).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa and Society Ids.

REMARKS: synonymy from Choat and Randall (1986). Lacepède (1802) described *Scarus chadri* as a new name for *Scarus niger* Forsskål; however, he described the fish as having no spinous rays. *Scarus makaravar* was doubtfully identified as a synonym of *S. niger* by Fowler (1928).

### ***Scarus obishime*** Randall & Earle

*Scarus obishime* Randall & Earle, 1993: 288, figs. 1-2 (Tatsumi-wan, Chichi-jima, Ogasawara Ids).

DISTRIBUTION: Ogasawara Ids, Japan.

### ***Scarus oviceps*** Valenciennes

*Scarus oviceps* Val., 1840: 244 (Tahiti, Society Ids).

*Pseudoscarus zonatus* Macleay, 1883: 591 (New Guinea).

*Pseudoscarus knerii* Steindachner, 1887a: 231 (Auckland [?], New Zealand).

*Callyodon lazulinus* Jordan & Seale, 1906: 333, fig. 65 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: Philippines to Great Barrier Reef, Marshall Ids and French Polynesia.

REMARKS: *Pseudoscarus knerii* was illustrated and described in more detail in Steindachner 1887b: 64, Pl. 4, figs. 1-1a. Steindachner described *knerii* from two specimens: a 30 cm fish from "Auckland" that Kner (1865b: 261) regarded as a variety of *Scarus aeruginosus* Valenciennes, and a 16 cm fish from ?Madagascar. The Madagascar locality is certainly in error because *S. oviceps* is a Pacific species. The Auckland locality is highly unlikely for an adult, as a few subtropical reef fishes are known from the north island of New Zealand, but most only as juveniles that do not survive their first winter. *Scarus oviceps* is a tropical species not known from any islands near New Zealand (Lord Howe, Norfolk, or the Kermadecs).

### *Scarus ovifrons* Temminck & Schlegel

*Scarus ovifrons* Temminck & Schlegel, 1846: 173, pl. 88 (Tokyo Bay, Japan).

DISTRIBUTION: southern Japan and Taiwan.

### *Scarus perrico* Jordan & Gilbert

*Scarus perrico* Jordan & Gilbert, 1882b: 357 (Mazatlán, Sinaloa, western Mexico).

*Callyodon microps* Osburn & Nichols, 1916: 170, fig. 12 (Santa Catalina Id, Gulf of California, Mexico).

*Scarus dubius* Hildebrand, 1946: 351, fig. 72 (Lobos de Afuera Bay, Peru; preoccupied by *Scarus dubius* Bennett, 1828).

*Scarus hildebrandi* Kanazawa, 1952: 203 *nomen novum* for *Scarus dubius* Hildebrand.

DISTRIBUTION: Gulf of California to Peru.

REMARKS: Synonymy from Schultz (1958).

### *Scarus persicus* Randall & Bruce

*Scarus persicus* Randall & Bruce, 1983: 25, pl. 6, figs. G-H (Bahrain fish market, Persian Gulf).

DISTRIBUTION: Persian Gulf and south coast of Oman.

### *Scarus prasiognathos* Valenciennes

*Scarus prasiognathos* Val., 1840: 272 (New Ireland Id, Bismarck Archipelago).

*Scarus chlorodon* Jenyns, 1842: 105, pl. 21 (Cocos-Keeling Ids, Indian Ocean).

*Scarus singaporensis* Bleeker, 1852a: 69 (Singapore).

*Scarus janthochir* Bleeker, 1853b: 139 (Ternate, Moluccas, Indonesia; Jakarta, Java, Indonesia).

DISTRIBUTION: Maldives and Chagos to Indonesia and Ryukyu Ids.

### *Scarus psittacus* Forsskål

*Scarus psittacus* Forsskål, 1775: 29 (Jeddah, Red Sea).

*Scarus venosus* Val., 1840: 212 (Réunion Id).

*Scarus hertit* Ehrenberg in Cuvier & Valenciennes, 1840: 215 (Lohaja; Suez; Djedda [Jeddah], Red Sea).

*Scarus taeniurus* Val., 1840: 257 (Mauritius).

*Scarus forsteri* Val., 1840: 275 (Tahiti, Society Ids).

*Pseudoscarus forskalii* Klunzinger, 1871: 566 (*nomen novum* for *Scarus psittacus* Forsskål).

*Scarus balinensis* Bleeker, 1849b: 8 (Bali, Indonesia).

*Scarus bataviensis* Bleeker, 1857b: 342 (Indonesia).

?*Pseudocarus [sic] oktodon* Bleeker, 1861b: 235 (Butung [Buton], Indonesia).

*Pseudoscarus filholi* Sauvage, 1880: 225 (Fiji Ids).

*Pseudoscarus labiosus* Macleay, 1883a: 591 (Port Moresby, Papua New Guinea)

*Scarus gilberti* Jenkins, 1901: 59, fig. 17 (Hawaiian Ids).

*Scarus brunneus* Jenkins, 1901: 59, fig. 16 (Honolulu).

*Scarus jenkinsi* Jordan & Evermann, 1903: 195 (Honolulu).

*Callyodon erythacus* Jordan & Seale, 1906: 318, fig. 58 (Apia, Upolu Id, Western Samoa).

*Callyodon hornbosteli* Fowler, 1925: 16 (Guam).

*Scarus galena* Jordan [E.K.], 1925: 32 (Honolulu).

*Xanophon carifanus* Smith, 1956b: 6, pl. 42, fig. D (Kenya).

*Xanophon parvidens* Smith, 1956b: 7, pl. 45, fig. E (Bazaruto Id, Mozambique).

DISTRIBUTION: Indo-Pacific, Red Sea to South Africa, Oman, Maldives, Mauritius, Réunion, Chagos, Japan, Australia, Hawaiian Ids and Fiji.

REMARKS: synonymy from Randall and Ormond (1978) and Choat and Randall (1986).

### *Scarus quoyi* Valenciennes

*Scarus quoyi* Val., 1840: 273 (Bismarck Archipelago).

*Callyodon mutabilis* Gronow in Gray, 1854: 86 (Ambon Id, Moluccas Ids, Indonesia).

*Scarus chrysopomus* Bleeker, 1847: 163 (Indonesia).

*Pseudoscarus moresbyensis* Macleay, 1883a: 591 (Port Moresby, Papua New Guinea).

*Callyodon hadji* Seale, 1910: 525 (Philippines).

DISTRIBUTION: India and Moluccas to western Pacific.

### *Scarus rivulatus* Valenciennes

*Scarus rivulatus* Val., 1840: 223 (Java, Indonesia).

*Scarus fasciatus* Val., 1840: 222 (Moluccas, Indonesia).

*Scarus arcuatus* Val., 1840: 276 (Thailand).

*Scarus micrognathos* Bleeker, 1847: 164 (Indonesia).

*Scarus rivulatoides* Bleeker, 1847: 163 (Java, Indonesia).

*Pseudoscarus flavolineatus* Alleyne & Macleay, 1877: 346, pl. 16, fig. 3 (Queensland, Australia).

DISTRIBUTION: western Australia to Thailand, Ryukyu Ids; New Caledonia, Palau, Norfolk and Kermadecs Ids..

REMARKS: synonymy from Randall and Choat (1980) and Choat and Randall (1986). Bleeker chose *Scarus rivulatus* as the valid name, with *Scarus rivulatoides* and *Scarus micrognathos* in the synonymy.

### ***Scarus rubroviolaceus*** Bleeker

*Scarus rubroviolaceus* Bleeker, 1847: 162 (Indonesia).

*Pseudoscarus frontalis* Macleay, 1883a: 590 (New Guinea; secondarily preoccupied by *Scarus frontalis* Val. 1840).

*Pseudoscarus jordani* Jenkins, 1901: 63, fig. 21 (Honolulu)

*Scarus paluca* Jenkins, 1901: 60, fig. 18 (Honolulu).

*Scarus calus* Fowler, 1904: 542, pl. 21 (Indonesia).

*Callyodon macleayi* Jordan & Seale in Seale, 1906: 331 (*nomen novum* for *Pseudoscarus frontalis* Macleay).

*Callyodon ruberrimus* Jordan & Seale, 1906: 316, fig. 56 (Pago Pago, American Samoa).

*Pseudoscarus heliotropinus* Bryan, 1906: 23, fig. 3 (Honolulu market, Oahu Id, Hawaiian Ids).

*Pseudoscarus rostratus* Günther, 1909: 315, pl. 154 (Society Ids).

*Callyodon africanus* Smith, 1955: 19, pl. 3, fig. 26 (Kenya).

DISTRIBUTION: South Africa to eastern Pacific.

### ***Scarus russelii*** Valenciennes

*Scarus russelii* Val., 1840: 234 (Vizagapatam, India).

*Xanophon fowleri* Smith, 1956b: 5, pl. 42, fig. G (East Africa [Pinda, Mozambique]).

DISTRIBUTION: India, Mozambique, South Africa, Chagos.

REMARKS: *Xanophon fowleri* Smith is a synonym according to Randall and Bruce (1983).

### ***Scarus scaber*** Valenciennes

*Scarus scaber* Val., 1840: 239 (Mauritius).

*Scarus pectoralis* Val., 1840: 269 (Jeddah, Red Sea).

*Pseudoscarus flavomaculatus* Bliss, 1883: 57 (Mauritius).

DISTRIBUTION: Red Sea to Oman, South Africa, Maldives, Mauritius and Chagos.

### ***Scarus schlegeli*** (Bleeker)

*Pseudoscarus schlegeli* Bleeker, 1861b: 242 (Indonesia).

*Pseudoscarus pentazona* Bleeker, 1861b: 241 (Indonesia).

*Scarus cypho* Seale, 1901a: 95 (Guam, Mariana Ids).

DISTRIBUTION: western and central Pacific.

### ***Scarus spinus*** (Kner)

*Pseudoscarus spinus* Kner, 1868: 31 (Kandavu, Fiji Ids).

*Callyodon kelloggii* Jordan & Seale, 1906: 327, fig. 62 (Apia, Upolu Id, Western Samoa).

DISTRIBUTION: western Pacific to Micronesia and Samoa.

### ***Scarus taeniopterus*** Desmarest

*Scarus taeniopterus* Desmarest in Bory de Saint-Vincent 1831: 244 (Cuba).

*Pseudoscarus lineolatus* Poey, 1867: 239 (Cuba).

*Scarus virginalis* Jordan & Swain, 1884: 88 (Cuba).

*Scarus bollmani* Jordan & Evermann, 1887: 470 (off Pensacola, Florida, Gulf of Mexico, U.S.A.).

*Scarus emblematicus* Jordan & Rutter, 1897: 122 (Kingston, Jamaica).

DISTRIBUTION: Bermuda, South Florida, West Indies and Caribbean to Brazil.

REMARKS: synonymy from Schultz (1958).

### ***Scarus tricolor*** (Bleeker)

*Scarus tricolor* Bleeker, 1847: 164 (Jakarta, Indonesia).

*Scarus cyanognathus* Bleeker, 1847: 164 (Indonesia).

*Callyodon elerae* Jordan & Seale, 1907: 31, fig. 11 (Cavite, Luzon Id, Philippines).

*Callyodon latifasciatus* Seale & Bean, 1907: 237, fig. 7 (Zamboanga, Philippines).

*Callyodon viridibusius* Fowler & Bean, 1928: 459, pl. 48 (Uki, Bouro Id, Moluccas Ids, Indonesia).

*Scarus visayanus* Herre, 1933: 22 (Philippines).

*Callyodon mus* Smith, 1956b: 13, pl. 41, fig. B (Kenya).

*Callyodon urbanus* Smith, 1959: 272, pl. 42, fig. J; fig. 3 (Shimoni, Kenya).

DISTRIBUTION: Kenya to South Africa, Maldives, Chagos, to western Pacific, Micronesia, Samoa, and Line Ids.

REMARKS: synonymy from Randall and Bruce (1983). *Scarus visayanus* Herre is a new synonym of *tricolor*.



***Scarus vetula*** Bloch & Schneider

*Scarus vetula* Bloch & Schneider, 1801: 289 (no locality).

*Scarus acutus* Poey, 1860: 216 (Havana, Cuba).

*Scarus superbus* Poey, 1860: 218 (Cuba).

*Pseudoscarus gnathodus* Poey, 1867: 240 (Cuba).

*Scarus cuzamilae* Bean, 1891: 196, pl. 29, fig. 4 (Cozumel, Yucatán, Mexico).

*Scarus nigrescens* Meek & Hildebrand, 1928: 743, pl. 72, fig. 2 (Porto Bello, Atlantic coast of Panama).

*Scarus roseiventer* Fowler, 1944a: 116, pl. 16 (Courtown Key, Caribbean Sea).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, and Caribbean to Brazil.

REMARKS: synonymy from Schultz (1958) and Randall in Böhlke (1984).

***Scarus viridifucatus*** (Smith)

*Callyodon viridifucatus* Smith, 1956b: 9, 12, pl. 42, figs. B, I (Shimoni, Kenya).

*Callyodon malindiensis* Smith, 1956b: 9, 13, pl. 45H (Malindi, Kenya).

DISTRIBUTION: Kenya to Maldives, Chagos, and Indonesia.

***Scarus xanthopleura*** Bleeker

*Scarus xanthopleura* Bleeker, 1853d: 499 (Indonesia).

*Scarus atropectoralis* Schultz, 1958: 79, pl. 15, fig. A (Buka Id, Sulawesi [Celebes], Indonesia).

DISTRIBUTION: western Pacific to Palau and Marshall Ids.

REMARKS: synonymy from Randall (1997).

***Scarus zufar*** Randall & Hoover

*Scarus zufar* Randall & Hoover, 1995: 684, pl. 1 (Oman).

DISTRIBUTION: southern Oman.

***Scarus sp 1***

*Scarus sp.* Winterbottom et al., 1989: 59, fig. 368.

DISTRIBUTION: Chagos Archipelago.

REMARKS: The 205 mm SL specimen from Peros Banhos was examined by the second author, but he was unable to identify it with any species presently known.

### ***Scarus sp 2***

DISTRIBUTION: Andaman Sea and Sumatra.

REMARKS: to be described by M. Westneat, U. Satapoomin, and J.E. Randall.

### **Genus *Sparisoma* Swainson**

*Sparisoma* Swainson, 1839: 172, 227 (type-species, *Scarus abildgaardii* Bloch, [= *Sparisoma chrysopterum*] by monotypy; proposed as a subgenus).

*Scarus* Bleeker (*nec* Forsskål), 1849: 4, 9, 42, 44 (type-species, *Labrus cretensis* Linnaeus, by subsequent designation).

*Callyodontichthys* Bleeker, 1861b: 230 (type-species, *Scarus flavescens* Bleeker by subsequent designation).

*Euscarus* Jordan & Evermann, 1896: 416 (type-species, *Labrus cretensis* Linnaeus, by original designation; proposed as a subgenus).

Atlantic; 9 species (Randall, 1990; Cervigón et al., 1993).

### ***Sparisoma atomarium* (Poey)**

*Scarus atomarius* Poey, 1861: 423 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, Honduras to northern South America.

REMARKS: Validity shown by Randall (1965b).

### ***Sparisoma aurofrenatum* Valenciennes**

*Scarus aurofrenatus* Val., 1840: 191 (Santo Domingo).

*Scarus miniofrenatus* Poey, 1861: 379, 393 *nomen novum* for *Scarus aurofrenatus* Valenciennes.

*Scarus distinctus* Poey, 1861: 423 (Havana, Cuba).

*Scarus erythrinoides* Guichenot, 1865: 10 (Santo Domingo).

*Scarus oxybrachius* Poey, 1868: 342 (Havana, Cuba).

DISTRIBUTION: Bermuda, Florida, West Indies, Caribbean, Central America to Brazil.

### ***Sparisoma chrysopterum* (Bloch & Schneider)**

*Sparus abildgaardi* Bloch, 1791: 22, pl. 259 (St. Croix Id, Virgin Ids, West Indies).  
*Scarus chrysopterus* Bloch & Schneider, 1801: 286, pl. 57 (American Seas).  
*Scarus chloris* Bloch & Schneider, 1801: 289 (Cuba).  
*Scarus flavescens* Bloch & Schneider, 1801: 290 (Cuba).  
? *Scarus virens* Val., 1840: 203 (Martinique Id).  
*Scarus squalidus* Poey, 1860: 218 (Cuba).  
*Scarus lateralis* Poey, 1860: 219 (Cuba).  
*Scarus brachialis* Poey, 1861: 345 (Cuba).  
*Scarus maschalespilos* Bleeker, 1862c: 127 (Suriname).  
*Sparisoma lorito* Jordan & Swain, 1884: 95 (Cuba).  
*Sparisoma elongatum* Meek & Hildebrand, 1928: 757, pl. 74, fig. 2 (market at Panama City, Panama; specimen probably caught on Atlantic side of Panama).

DISTRIBUTION: Bermuda, Florida, West Indies, Central America to Brazil.

REMARKS: Rodrigo L. Moura and J.E. Randall have prepared a petition to the International Commission of Zoological Nomenclature (Case 3051) to reject the name *Sparisoma abildgaardi* in order to conserve *Sparisoma chrysopterus*. They discovered that the true *abildgaardi* is not the initial phase of *viride*, as generally accepted (Randall, 1990), but an older name for *chrysopterus*. *Scarus virens* is a probable synonym of *S. chrysopterus* (Randall, 1990).

### ***Sparisoma cretense*** (Linnaeus)

*Labrus cretensis* Linnaeus, 1758: 282 (Crete).  
*Labrus xantherythrus* Rafinesque 1810a: 40 (Sicily).  
*Scarus canariensis* Valenciennes, 1838: pl. 17, fig. 2 (Canary Ids).  
*Scarus rubiginosus* Val., 1840: 171 (Canary Ids; Madeira).  
*Scarus mutabilis* Lowe, 1838: 187 (Madeira).  
*Scarus siculus* Cocco, 1846: 748 (Sicily, Italy).  
*Scarus rubiginoides* Guichenot, 1865: 8 (Canary Ids).

DISTRIBUTION: Mediterranean (sporadic) and eastern Atlantic from Portugal to Senegal.

REMARKS: the description of *Scarus canariensis* was published after the plate (Valenciennes, 1843: 68).

### ***Sparisoma griseorubra*** Cervigón

*Sparisoma griseorubra* Cervigón, 1982: 5 (Coast of Sur de la isla de Cubagua, Venezuela).

DISTRIBUTION: apparently known only from the type locality (Cervigón et al., 1993).

### ***Sparisoma radians*** (Valenciennes)

*Scarus radians* Val., 1840: 206 (Mexico).

*Scarus lacrimosus* Poey, 1861: 422 (Havana, Cuba).

*Callyodontichthys bleekeri* Steindachner, 1863a: 1111, pl. 24, figs 2-2b (Bahia, Brazil).

*Sparisoma cyanolene* Jordan & Swain, 1884: 98 (Key West, Florida, U.S.A.).

*Sparisoma xystrodon* Jordan & Swain, 1884: 99 (Key West, Florida, U.S.A.).

*Scarus hoplomystax* Cope, 1871: 462 (St. Martin, W.I.).

*Sparisoma niphobles* Jordan & Bollmann, 1889: 551 (Green Turtle Cay, Bahamas).

*Sparisoma abbotti* Fowler, 1915b: 258, fig. 2 (St. Vincent Id, West Indies).

?*Scaridea octodon* Fowler, 1928: 368, fig.59 ("Hawaiian Ids"; type locality evidently erroneous).

DISTRIBUTION: Bermuda, North Carolina to Florida, Bahamas, Antilles, Central America to Venezuela.

### ***Sparisoma rubripinne*** (Valenciennes)

*Scarus rubripinnis* Val., 1840: 199 (Santo Domingo).

?*Scarus circumnotatus* Poey, 1861: 423 (Cuba).

*Scarus spinidens* Guichenot, 1865: 15 (Bahia, Brazil; preoccupied by *Scarus spinidens* Quoy & Gaimard 1824 [= *Calotomus spinidens* (Quoy & Gaimard)]).

*Scarus truncatus* Poey, 1868: 339 (Havana, Cuba).

?*Scarus emarginatus* Poey, 1868: 340 (Havana, Cuba).

*Scarus (Scarus) axillaris* Steindachner, 1878: 384, pl. 3, fig. 1 ("probably coast of North Australia" [evidently an error]).

*Sparisoma rhomaleum* Meek & Hildebrand, 1928: 754, pl. 74, fig. 1 (Colón market, (Atlantic) Panama).

*Sparisoma pachycephalum* Longley in Longley & Hildebrand, 1941: 215, pl. 28, fig. 2 (Tortugas, Florida, U.S.A.; new name for *Sparisoma flavescens* (*nec* Bloch & Schneider) Jordan & Swain, 1884).

DISTRIBUTION: Bermuda, North Carolina to Florida, West Indies, Central America to Brazil; also eastern Atlantic from Senegal to Gulf of Guinea.

REMARKS: *Scarus circumnotatus* and *Scarus emarginatus* are doubtful synonyms (Randall, 1990).

### ***Sparisoma strigatum*** (Günther)

*Scarus strigatus* Günther, 1862: 212 (no locality [probably St. Helena]).

DISTRIBUTION: St. Helena (eastern Atlantic).

### ***Sparisoma viride*** (Bonnaterre)

*Scarus viridis* Bonnaterre, 1788: 96, pl. 50, fig. 193 (Bahamas).

*Scarus coccineus* Bloch & Schneider, 1801: 289 (Cuba).

*Scarus catesby* Lacepède, 1802: 4, 16 (Carolina, U.S.A.).

*Sparus aureoruber* Lacepède, 1802: 56 (Martinique Id).

*Scarus frondosus* Agassiz in Spix and Agassiz, 1829: 98, pl. 54 (Bahia, Brazil).

*Scarus amplus* Ranzani, 1842: 324, pl. 25 (Brazil).

*Scarus melanotis* Bleeker, 1862c: 126 (St. Croix Id, W.I.).

DISTRIBUTION: Bermuda, Florida, Gulf of Mexico, West Indies, and Central America to Brazil.

## NON-LABROID FISHES ORIGINALLY

### DESCRIBED IN LABROID GENERA

*Ctenolabrus ? knoxi* Hutton, 1873 = *Girella tricuspidata* Quoy & Gaimard, Kyphosidae (B. Russell, 1996).

*Julis horsfieldii* Valenciennes, 1839 = *Labracinus cyclophthalmus* (Møller & Troschel), Pseudochromidae (Gill & Randall, 1999).

*Labrus ciavolus* Rafinesque 1810 = *Spicara maena* (Linnaeus), Centranchidae.

*Labrus loeflingii* Walbaum, 1792 = unidentifiable serranid.

*Labrus spinosus* Mitchill, 1814 = *Trachinotus falcatus* (Linnaeus), Carangidae (C. L. Smith, pers. comm.).

*Scarus maxillosus* Zouiew (1782: 230 (Mediterranean and Red Sea; does not correspond with any known labrid or scarid species).

## SPECIES INCERTAE SEDIS

### LABRIDAE

*Coryphaena virens* Linnaeus, 1766: 448 (Asiatic Sea). Wheeler (1991) examined the probable holotype in the Zoological Museum of the University of Uppsala and regarded it as an undetermined *Hemipteronotus* (= *Xyrichtys*). If the locality indicated by Linnaeus is correct, then this fish is unlikely to be the Atlantic-Mediterranean species *Xyrichtys novacula* (Linnaeus) as proposed by some authors. This Linnean name should be regarded as a *nomen oblitum*.

*Crenilabrus chrysophrus* Risso, 1827: 319 (Nice); type lost (Bauchot, 1963). This species is an unidentifiable *Symphodus*; the synonymy with *Symphodus mediterraneus* (Linnaeus) proposed by Carus (1893) was not confirmed.

*Crenilabrus intermedius*, *C. serranoides*, & *C. serranus* described by Gulia, 1861: 14, 15 (Malta) are unidentifiable *Symphodus*.

*Julichthys inornata* De Vis, 1885: 884 (Great Barrier Reef, Australia). The dorsal-fin count of 11 spines and 11 soft-rays and the 2 anal-fin spines given for this species by De Vis do not match

any labrid fish known from the Great Barrier Reef. The description of the colour, in particular the mention of dark brown dots posteriorly on the body, suggests that De Vis may have had a female *Halichoeres chloropterus* (Bloch). With no type extant to check the dorsal-fin count (as well as the count of 2 anal spines), we assume these counts were in error or aberrant.

*Julis (Julis) girardi* Bleeker, 1858-59a: 168 (Boleling, northern Bali, Indonesia). Bleeker described the genus *Pseudojulis* principally from the lack of a canine tooth at the corner of the mouth of *Julis girardi*. Randall (1978) redescribed the holotype of the type-species of the genus, *Pseudojulis girardi*, BMNH 1864.5.15.13, 67.5 mm SL. He noted that there is no canine tooth at the corner of the mouth of *Halichoeres bimaculatus* Rüppell, (type-species of *Halichoeres* and now a junior synonym of *H. zeylonicus*), at a length of 115 mm SL or less. Nor could he find any differences in external morphology of *P. girardi* and *H. zeylonicus*. The unusual striped pattern of Bleeker's illustration of *P. girardi* in Atlas Ichthyologique (1862), vol. 1, pl. 33, fig. 3, with a narrow dark mid-lateral stripe on the body curving dorsally on the head behind the eye would seem species specific. However, extensive collecting in Indonesia by the second author and colleagues has failed to yield any labrid fish with this colour pattern. Randall (1978) noted that no trace of the dark stripe remains on the holotype of *P. girardi*, but the triangular blackish spot still persists at the upper base of the pectoral fin. We now believe that *P. girardi* is the initial phase of *H. zeylonicus* or its Pacific counterpart, *H. hartzfeldii* (Bleeker), both of which occur in Indonesia (Rudie H. Kuitert, pers. comm.), that the stripe of the holotype of *P. girardi* was yellow or orange in life, hence did not persist in preservative, and that it was inaccurately portrayed as curving upward on the head. All of the meristic data of the holotype of *P. girardi* fit the modal data of *H. zeylonicus* and *H. hartzfeldii*.

*Julis pavoninus* Val., 1839: 483 (no locality [East Indies]; based on a drawing of Renard, this species is an unidentifiable *Halichoeres* [Pietsch, 1995]).

*Labrus citrinus* Walbaum 1792: 261 (Japan; based on *Labrus japonicus* Houttuyn (see below)).

*Labrus coromandelicus* Bloch & Schneider 1801: 244 (Tranquebar, India). The fin counts of D IX,10 and A II,12 do not fit any known labrid species.

*Labrus ephippium* Val., 1839: 96 ("Java" [erroneous]). M. Boeseman examined the holotype at the Netherlands Royal Museum of Leyden. He wrote (Bauchot, 1963): "I believe that it represents a species from Atlantic or Mediterranean Sea, even though I am unable to identify it precisely. It appears very similar to *Labrus bergylta* Ascanius, but the lateral line is slightly different (39-40 tubules vs 41-47)".

*Labrus gouanii* Lacepède, 1801: 433, 480 (no locality); an unidentifiable species.

*Labrus japonicus* Houttuyn, 1782: 324 (Japan). The original description of *Labrus japonicus* agrees with no Japanese labrid fish (Mabuchi & Nakabo, 1997). The labrid fish formerly known as *Pseudolabrus japonicus* (Houttuyn) comprises two distinct species, *Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997 and *Pseudolabrus eoethinus* (Richardson, 1846).

*Labrus javensis* Bloch & Schneider 1801: 243 (no locality given). Assuming (from the name) that this fish was from Java, it probably is a species of *Bodianus*. The description may pertain to any of a number of species, although "head scaled" may restrict it to species that have predorsal scales extending to in front of the eye. There are several species of *Bodianus* in the Indonesian region that have this characteristic.

*Labrus lineatus* Walbaum 1792: 247 (no locality; preoccupied by *Labrus lineatus* Bonnaterre, 1788 [= *Labrus mixtus* Linnaeus]). Species unidentifiable.

*Labrus macrolepidotus* Walbaum 1792: 266 (no locality; preoccupied by *Labrus macrolepidotus* Bloch, 1791 (= *Novaculichthys macrolepidotus*); an unidentifiable species based on Gronov. Mus. I n. 86.

*Labrus maculosus* Gronow in Gray 1854: 81 (Indian Ocean); species unidentifiable.

*Labrus malacopterus* Forster 1795: 15 (India); species unidentifiable. Reported by Bloch and Schneider (1801: 286).

*Labrus melanotus* Rafinesque 1810a: 40, pl. 12, fig. 4 (Sicily); regarded by Bonaparte (1846) as *Labrus coeruleus* Risso (= *Labrus merula* Linnaeus) and by Jordan (1890: 617) as a questionable synonym of *Symphodus melanocercus*. Species unidentifiable.

*Labrus perioides* Walbaum 1792: 260 (no locality); unidentifiable.

*Labrus pictus* Gronow in Gray 1854: 80 preoccupied by *Labrus pictus* Bloch & Schneider, 1801 (= *Coris picta*) (Indian Ocean). Günther (1862) placed this species in the genus *PlatyGLOSSUS* (= *Halichoeres*). Species unidentifiable.

*Labrus porcus* Rafinesque, 1810a: 37 (Sicily); regarded as a questionable synonym of *Symphodus melanocercus* by Cocco (Facciola, 1885: 231) or *Labrus viridis* by Jordan (1890: 610); this species remains unidentifiable.

*Labrus quinque maculatus* Bloch, 1792: 10, pl. 291, fig. 2 (Norway); unidentifiable (Quignard, 1966).

*Labrus reticulatus* Walbaum, 1792: 266 (no locality; preoccupied by *Labrus reticulatus* Bonnaterre, 1788 [= *Symphodus ocellatus*]). Regarded by Jordan (1890: 617) as a questionable synonym of *Symphodus melops*. Species unidentifiable.

*Labrus rubiginosus* Risso 1827: 306 (Nice); no type; an unidentifiable species of *Symphodus* (Bauchot, 1963).

*Labrus scarus* Linnaeus, 1758: 282 (Greece; Sicily); unidentifiable (Monod, 1973: 444, footnote 3).

*Labrus ?tagiselem* Montrouzier, 1857: 469 (Woodlark Id, southwestern Pacific); Fowler (1928: 346) mentioned this imperfectly described species under the account of *Coris angulata* Lacepède (= *Coris aygula* Lacepède).

*Labrus tetraodon* Bloch & Schneider 1801: 263 (no locality); based on Seba; a species not identifiable as any labrid we know today. It could be a *Chromis* according to Cuvier and Valenciennes (1840: 4).

*Labrus tinea* Forsskål, 1775: xv (Istanbul, Turkey); species unidentifiable.

*Labrus unicolor* Bloch & Schneider 1801: 268 (no locality); an unidentifiable labrid with interrupted lateral line.

*Labrus variegatus* Nardo, 1824b: 253 (Adriatic Sea); preoccupied by *Labrus variegatus* Gmelin, 1789 [= *Labrus mixtus* Linnaeus]. Apparently described independently of Gmelin, 1789; replaced by *Lutianus manis* Nardo, 1827. An unidentifiable *Symphodus* possibly *melops* or *roissali*.

*Leptojulius bimaculatus* Kner & Steindachner, 1867: 378 (Chile); possibly a synonym of *Halichoeres dispilus* (Günther).

*Lutianus erythrophthalmus* Rafinesque, 1810b: 67 (Sicily, Italy); the fin ray counts are consistent with *Ctenolabrus rupestris*, but the description is inadequate to identify this species.

*Lutjanus notatus* Bloch, 1790: 125, pl. 251, fig. 2 (East Indies); type locality probably erroneous. With 14 dorsal fin spines and 8 soft rays this species might belong to *Symphodus*, as suggested by Valenciennes (1839: 217), who tentatively placed it in *Crenilabrus*. As pointed out by Valenciennes, nothing in the description is diagnostic and the affinities of this species are uncertain.

*Xyrichtys virens* Val., 1840: 47 ("Tahiti" [?]). Randall (1973) listed this as a valid species from the literature. It was described from a drawing attributed by Valenciennes to Sydney Parkinson (labeled "*Coryphaena virens*") and associated with Captain James Cook's first voyage. The colour described by Valenciennes is similar to that of female *X. pentadactylus*; however this species is not known from oceanic islands of the Pacific, so it may have been collected before the expedition got to the Pacific. Valenciennes did not realize that *Coryphaena virens* was a Linnean taxon presently regarded as an unidentifiable *Xyrichtys* (see above in this section).

## SCARIDAE

*Callyodon cretensis* Bloch, 1789: 246 (?Crete); probably represents *Scarus cretensis* Bloch, 1790: 23, renamed by Valenciennes as *Scarus striatus*, an unidentifiable species.



*Pseudoscarus maculiceps* Peters, 1876: 443 (Mauritius); unidentifiable species (Randall & Bruce, 1983).

*Pseudoscarus obscurus* Castelnau, 1875: 41 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Pseudoscarus richardsoni* Castelnau, 1875: 42 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Pseudoscarus viridescens* Castelnau, 1875: 42 (Queensland, Australia); unidentifiable species (Choat & Randall, 1986).

*Scarus caninus* Gronow in Gray, 1854: 63 (Mediterranean Sea); unidentifiable species.

*Scarus capistratus* Val. (ex Kuhl & van Hasselt) in Cuv. & Val., 1840: 239 (Java); unidentifiable species.

*Scarus cruentatus* Val., 1840: 277 (Ulea, Caroline Ids); unidentifiable species (Randall & Bruce, 1983).

*Scarus evermanni* Jordan in Jordan & Evermann, 1887: 469 (off Tampa Bay, Florida, U.S.A.; based on a fish from stomach of a predator); a synonym of *Scarus croicensis* according to Schultz (1958); we regard this species as unidentifiable.

*Scarus denticulatus* Lacepède, 1802: 3, pl. 1, fig. 1 (Indo-Pacific Ocean); unidentifiable species (Randall & Bruce, 1983).

*Scarus humeralis* Poey, 1861: 422 (Havana, Cuba); unidentifiable (Schultz, 1958).

*Scarus kakatoe* Lacepède, 1802: 3, 13 (Asiatic Sea, Crete, Syria, Egypt); unidentifiable species.

*Scarus lunulatus* Val., 1840: 268 (Red Sea); unidentifiable species (Randall & Bruce, 1983).

*Scarus maculatus* Gronow in Gray, 1854: 63 (no locality); unidentifiable species.

*Scarus mentalis* Val. (ex Ehrenberg) in Cuv. & Val., 1840: 233 (Red Sea); regarded as unidentifiable by Randall and Bruce (1983); synonymized with *Chlorurus sordidus* by Dor (1984).

*Scarus mertensii* Val., 1840: 281 (Ulea, Caroline Ids); based on a drawing; unidentifiable (Randall & Bruce, 1983).

*Scarus quadrispinosus* Val., 1840: 197 (Martinique Id, West Indies). Bauchot and Guibé (1960)

considered this species a synonym of *Scarus vetula*. Mme Bauchot looked again at the dried, varnished, dark holotype. She corrected the count of pectoral rays from 11-13 to 14 or 15. She noted that there are only 2 rows of cheek scales. Valenciennes wrote that there was reason to suppose that the fish came from Brazil, but Bauchot (pers. comm.) added that it might also have come from the Pacific. If Brazil is the true locality, the total length given for the specimen, 28 pouces (= 760 mm), would apply to only two western Atlantic species, *Scarus coelestinus* and *Scarus guacamaia*; both of which have the same general morphology, 16 pectoral rays, 6 predorsal scales, and only rarely lack a third row of cheek scales. Lacking information on the colour pattern, and with some doubt of the true locality, this species is unidentifiable.

*Scarus rostratus* Shaw, 1803: 401 (no locality); unidentifiable species (Swain, 1883: 305).

*Scarus striatus* Val., 1840: 209 ("Les Indies"); a new name for the unidentifiable species figured and described by Bloch (1790) as *Scarus cretensis*.

*Scarus trispinosus* Val., 1840: 182 (Brazil); Bauchot and Guibé (1963) regarded the 760mm dried holotype, MNHN B.2041, believed to be from Brazil as unidentifiable.

### UNAVAILABLE SPECIES NAMES

*Anarchicas fusellus* Nardo (ex Chierighini), 1847: col. 115 *nomen nudum*; in synonymy of *Labrus giofredi* Risso.

*Callyodon ikan* Montrouzier, 1857: 469 *nomen nudum*, in synonymy of *Labroides dimidiatus* (Valenciennes) (Fowler, 1928: 331).

*Cheilinus aspersus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia); mentioned by Fowler (1928: 359) under *C. bimaculatus*.

*Cheilinus macrocheilus* Kuhl & van Hasselt, in Cuvier & Valenciennes, 1839: 311 *nomen nudum*; in synonymy of *Tautoga melapterus*.

*Cheilinus reticulatus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia); mentioned by Fowler (1928: 359) under *C. bimaculatus*.

*Cheilinus signatus* Kittlitz, 1858: 113 *nomen nudum*, (Lagunor, Micronesia; mentioned by Fowler (1928: 359) under *C. bimaculatus*.

*Cheilinus taeniatus* Lacepède, 1802; not found in Lacepède; Smith (1957a: 110) stated: "recorded by Wuitner (1936) from Mauritius. Name that can not be traced."

*Chelinus cheilio* Commerson in Lacepède, 1802: 433; appeared in footnote in the account of *Cheilio auratus*; not available (Eschmeyer et al., 1996).

*Coricus rostratus* var. *punctulatus* Nardo, 1860: 801 *nomen nudum*.

*Coryphaena lineata* Linnaeus, 1758: 448 (Carolina, U.S.A); Part of description, not a genus and species; it may date to Müller 1776 (Eschmeyer et al, 1997).

*Cossyphus albomaculatus* Gudger, 1929: 517, *nomen nudum*.

*Cossyphus cerulaeus* Johnston, 1891: 35 *nomen nudum*; in synonymy of *Notolabrus tetricus* (Richardson) (Russell, 1988).

*Cossyphus terophorus* Bleeker in Sauvage, 1891: 524 *nomen nudum*; listed in Fishes of Madagascar (Sauvage, 1891) but not treated; Smith (1957a) wrote "...a name that cannot be traced." Perhaps an error for *Cossyphus zosterophorus* Bleeker.

*Crenilabrus elegans* Kuhl & van Hasselt in Cuvier & Valenciennes, 1839: 130 *nomen nudum*; in

synonymy of *Cossyphus mesothorax* (Bloch & Schneider, 1801).

*Crenilabrus elegans* DeKay, 1840: 11 (New York, U.S.A.) *nomen nudum*.

*Crenilabrus geoffroyi* var. *variegatus* Risso in Bonaparte, 1846: 84 *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso. In his Catalog of fishes, Bonaparte (1846) listed several varieties of labrid fishes from a Risso manuscript. Most of them correspond to the varieties described but not named in the "Histoire naturelle des principales productions de l'Europe meridionale..." (Risso, 1827). The name *variegatus* applies to the description of *Crenilabrus geoffroyi* var. I Risso (1827: 315).

*Crenilabrus grassmultra* Nilsson in Bonaparte, 1846: 85 *nomen nudum*; name in synonymy of *Centrolabrus exoletus*.

*Crenilabrus hudsonicus* DeKay, 1840: 11 (New York, U.S.A.); *nomen nudum*.

*Crenilabrus lapina* var. *fasciatus* Risso in Bonaparte, 1846: 83 *nomen nudum*; manuscript name in synonymy of *Crenilabrus mediterraneus* Val.; based on *Crenilabrus lapina* var. I Risso (1827: 314).

*Crenilabrus lapina* var. *unicolor* Risso in Bonaparte, 1846: 83 *nomen nudum*; manuscript name in synonymy of *Crenilabrus mediterraneus* Val.; based on *Crenilabrus lapina* var. II Risso (1827: 314).

*Crenilabrus melops* var. *lugubris* Risso in Bonaparte, 1846: 83, *nomen nudum*; in synonymy of *Symphodus melops*; based on *Crenilabrus melops* var. I (Risso, 1827: 310).

*Crenilabrus melops* var. *superbus* Risso in Bonaparte, 1846: 83 *nomen nudum*; in synonymy of *Symphodus melops*; based on *Crenilabrus melops* var. II (Risso, 1827: 310).

*Crenilabrus massiliensis* var. *tricolor* Risso in Bonaparte, 1843: 85, *nomen nudum*; manuscript name in synonymy of *Acantholabrus palloni*. Name refers to *Crenilabrus massiliensis* var. I described by Risso (1827: 310).

*Crenilabrus tigrinus* var. *rubiginosus* Risso in Bonaparte, 1846: 84, *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso.

*Crenilabrus tigrinus* var. *semimaculatus* Risso in Bonaparte, 1846: 84 *nomen nudum*; manuscript name in synonymy of *Crenilabrus roissali* Risso.

*Crenilabrus xanthomelanus* Cocco in Bonaparte, 1846: 84, *nomen nudum*; in synonymy of *Crenilabrus melanocercus* Risso.

*Elops fuscus* Commerson in Cuv. & Val., 1840: 25, *nomen nudum*; name mentioned under *Gomphosus fuscus*.

*Epibulus aureus* Bleeker (ex Kuhl & van Hasselt), 1862f: 75, *nomen nudum*; in synonymy of *Epibulus insidiator*.

*Julis granatinus* Bleeker (ex Kuhl & van Hasselt), 1862f: 115 *nomen nudum*; in synonymy of *Halichoeres poecila*.

*Julis giofredi* var. *argentata* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis giofredi* Risso and based on *Julis giofredi* var. I (Risso, 1827: 310).

*Julis giofredi* var. *fuscoviolacea* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis giofredi* Risso and based on *Julis giofredi* var. II (Risso, 1827: 310).

*Julis leucostictus* Bleeker, 1862f: 134, *nomen nudum*; in synonymy of *Stethojulis phekadopleura*.

*Julis mediterranea* var. *pallidula* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis mediterranea* Risso.

*Julis mediterranea* var. *viridula* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Julis mediterranea* Risso and based on *Julis mediterranea* var. I (Risso, 1827: 310).

*Julis melanops* Reinwardt in Bleeker, 1862f: 145, *nomen nudum*; in synonymy of *Novaculichthys taeniurus*.

*Julis metager* Tickell in Day, 1888: 802, *nomen nudum*; mentioned under *PlatyGLOSSUS metager* Day 1888.

*Julis perlatus* Bleeker, 1862f: 124 *nomen nudum*; in synonymy of *Halichoeres guttatus*.

*Julis speciosus* var. *unicolor* Risso in Bonaparte, 1846: 86, *nomen nudum*, in synonymy of *Julis speciosa* Risso.

*Labrichthys affinis* Döderlein in Steindachner & Döderlein, 1887: 272, *nomen nudum*; in synonymy of *Labrus rubiginosus* Temminck & Schlegel.

*Labrichthys cerulieus* Saville-Kent, 1888: 47, *nomen nudum*; in synonymy of *Notolabrus tetricus* (Richardson) (Russell, 1988).

*Labroides asellinus* Richardson, 1843c: 426, *nomen nudum*.

*Labrus arilca* Richardson, 1848: 131, pl. 55, figs. 5-7 (Australia); not available (Eschmeyer et al., 1997: 139).

*Labrus choirodon* Kuhl & van Hasselt in Bleeker, 1862f: 162, *nomen nudum*; in synonymy of *Choerops macrodon*.

*Labrus coccineus* Forster in Bloch & Schneider, 1801: 264, *nomen nudum*; in synonymy of *Labrus miles* Forster.

*Labrus cyprinaceus* White, 1790: 264, pl.50, (Australia) *nomen nudum*; in synonymy of *Notolabrus gymnogenis* (Günther) Russell (1988).

*Labrus cyprinoides* Labillardière, 1800: 419, *nomen nudum*; in synonymy of *Notolabrus parilus* (Richardson) (Russell, 1988).

*Labrus erythrogaster* Solander in Cuvier & Valenciennes, 1839: 447, *nomen nudum*; name mentioned in the account of *Julis erythrogaster* Valenciennes.

*Labrus foetidus* Nardo (ex Chiereghini) 1847: col. 123, *nomen nudum*; in synonymy of *Symphodus tinca* (Linnaeus).

*Labrus formosus* Solander in Lay & Bennett 1839: 66, *nomen nudum*.

*Labrus hemichrysus* Commerson in Lacepède, 1801: 473, *nomen nudum*; listed in synonymy of *Labrus semiruber* Lacepède.

*Labrus lorius* Parkinson in Cuvier and Valenciennes, 1839: 412, *nomen nudum*; mentioned under account of *Julis lunaris*.

*Labrus lutescens* Bennett, 1832c: 184, *nomen nudum*; in synonymy of *Julis porphyrocephala*.

*Labrus lutescens* Solander in Richardson, 1846: 260, *nomen nudum*; in synonymy of *Julis lunaris*.

*Labrus lutiolus* Nardo (ex Chiereghini) 1847: col. 123, *nomen nudum*; in synonymy of *Coricus rostratus* Günther, 1862: 193.

*Labrus nasutus* Günther, 1862: 193, *nomen nudum*; name on specimen from Tahiti mentioned under *Gomphosus varius*.

*Labrus nellus* Nardo (ex Chiereghini) 1847: col. 123, *nomen nudum*; in synonymy of *Acantholabrus palloni* Risso, 1810.

*Labrus orientalis* Hasselquist, 1762: 394; not available, published in a rejected work (International Commission Zoological Nomenclature, Opinion 57).

*Labrus pavo* var. *elegantissimus* Risso in Bonaparte, 1846: 82 *nomen nudum*; in synonymy of *Labrus mixtus*; name refers to *Labrus pavo* var. I (Risso, 1827:310).

*Labrus ornatus* Solander in Cuvier and Valenciennes, 1839: 412 *nomen nudum*; mentioned under account of *Julis lunaris*.

*Labrus papagalus* Nardo (ex Chiereghini) 1847: col. 123, *nomen nudum*; in synonymy of *Labrus viridis* Linnaeus.

*Labrus radiatus* Hemprich & Ehrenberg, 1899: 8, *nomen nudum*; name mentioned in synonymy of, and preoccupied by, *Labrus radiatus* Linnaeus 1758.

*Labrus sachettus* Forsskål, 1775: xix, *nomen nudum*.

*Labrus saxatilis* var. *immaculatus* Risso in Bonaparte, 1846: 82, *nomen nudum*; mentioned in synonymy of *Labrus viridis*.

*Labrus scapularis* Bleeker, 1862f: 142, *nomen nudum*; in synonymy of *Hemigymnus melapterus*.

*Labrus scaruscretic* Forsskål, 1775: xix, *nomen nudum*.

*Labrus scarusvarius* Forsskål, 1775: xix, *nomen nudum*.

*Labrus verdutius* Nardo (ex Chiereghini) 1847: col. 123, *nomen nudum*; listed as synonym of *Symphodus tinca* (Linnaeus).

*Labrus vittatus* Forster, in Cuvier and Valenciennes, 1840: 445 *nomen nudum*; mentioned in account of *Julis cyanogaster*.

*Novacula plinii* Risso in Bonaparte, 1846: 86, *nomen nudum*; in synonymy of *Xyrichtys novacula*.

*Pseudoscarus schlegeli* Steindachner, in Steindachner & Döderlein, 1887: 277 *nomen nudum*; mentioned in passing under *Pseudoscarus ovifrons*.

*Scarus brachyvarius* Longley in Longley & Hildebrand, 1941: 212, *nomen nudum*; manuscript name of Poey; in synonymy of *Sparisoma rubripinne* (Randall, 1990).

*Scarus coerulescens* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus erythrogenys* Bleeker (ex Kuhl & van Hasselt), 1862: 32 *nomen nudum*; in synonymy of *Pseudoscarus nuchipunctatus*.

*Scarus gibbosus* Kuhl & van Hasselt, in Cuvier & Valenciennes, 1840: 208 *nomen nudum*; in synonymy of *Scarus muricatus*.

*Scarus harith* Ehrenberg, in Rüppell, 1829: 77, *nomen nudum*.

*Scarus lividus* Bleeker (ex Kuhl & van Hasselt), 1862: 40, *nomen nudum*; in synonymy of *Pseudoscarus aeruginosus*<sup>1</sup>.

*Scarus nigricans* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus obscurus* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus ruber* Bleeker (ex Kuhl & van Hasselt), 1862: 37, *nomen nudum*; in synonymy of *Pseudoscarus rubroviolaceus*.

*Scarus rubronotatus* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus rurk* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus viridis* Ehrenberg in Rüppell, 1829: 77, *nomen nudum*.

*Scarus viridis* Ehrenberg, in Cuvier & Valenciennes, 1839: 231, *nomen nudum*; mentioned in account of *Scarus gibbus*.

*Scarus wurk* Ehrenberg in Cuvier & Valenciennes, 1840: 246 *nomen nudum*; mentioned in account of *Scarus mastax*.

*Sparus prasiophthalmus* Richardson (ex Solander), 1843: 24 *nomen nudum*; mentioned in account of *Julis celidotus*.

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**Table. List of nominal species of Labridae and Scaridae and their present allocations. New synonyms are indicated by an asterisk (\*).**

### Nominal Species: Present Allocation

#### LABRIDAE

*Julis abhortani* Val., 1839: *Thalassoma trilobatum*  
*Cheilinus abudjubbe* Rüppell, 1835: *Cheilinus abudjubbe*  
*Labrus acatirostreus* Nardo, 1824: *Symphodus rostratus*  
*Ctenolabrus acutus* Val., 1839: *Ctenolabrus rupestris*  
*Julis adelaidensis* Castelnau, 1875: *Ophthalmolepis lineolatus*  
*Cirrhilabrus adornatus* Randall & Kunzmann, 1998: *C. adornatus*  
*Labrus adpersus* Walbaum, 1792: *Tautogolabrus adpersus*  
*Pseudojulis adustus* Gilbert, 1890: *Halichoeres adustus*  
*Julis aeruginosus* Val., 1839: *Thalassoma purpureum*  
*Labrus aeruginosus* Pallas, 1814: *Symphodus roissali*  
*Halichoeres aestuaricola* Bussing, 1972: *H. aestuaricola*  
*Lachnolaimus aigula* Val., 1839: *Lachnolaimus maximus*  
*Lutjanus alberti* Risso, 1810: *Symphodus roissali*

*Choerops albigena* De Vis, 1885: *Choerodon cyanodus*  
*Wetmorella albofasciata* Schultz & Marshall, 1954: *Wetmorella albofasciata*  
*Thalassoma albolineum* Nichols, 1941: *T. quinquevittatum*  
*Julis albolumbata* Schmidt, 1931: *Pseudocoris bleekeri*  
*Lepidaplois albomaculatus* Smith, 1957: *Bodianus axillaris*  
*Cossyphus albotaeniatus* Val., 1839: *Bodianus bilunulatus*  
*Labrus albovittatus* Bonnaterre, 1788: *Stethojulis albovittata*  
*Lepidaplois aldabrensis* Smith, 1955: *Bodianus diana*  
*Dotalabrus alleni* Russell, 1988: *Dotalabrus alleni*  
*Labropsis alleni* Randall, 1981: *Labropsis alleni*  
*PlatyGLOSSUS alternans* Cartier, 1874: *Halichoeres scapularis*  
*Xyrichtys altipinnis* Rüppell, 1835: *Novaculichthys taeniourus*  
\* *PlatyGLOSSUS amabilis* De Vis, 1885: *Halichoeres nigrescens*  
*Choerodon ambiguus* Ogilby, 1910: *Choerodon venustus*  
*Julis amblycephalus* Bleeker, 1856: *Thalassoma amblycephalum*  
*Anampses amboinensis* Bleeker, 1857: *A. meleagrides*  
*Duymaeria amboinensis* Bleeker, 1856: *Pteragogus enneacanthus*  
*Julis amboinensis* Bleeker, 1856: *Halichoeres solorensis*  
*Labrus americanus* Bloch & Schneider, 1801: *Tautoga onitis*  
*Sparus anchorago* Bloch, 1791: *Choerodon anchorago*  
*Julis aneitensis* Günther, 1862: *Thalassoma lutescens*  
*Novacula aneitensis* Günther, 1862: *Xyrichtys aneitensis*  
*Coris angulatus* Lacepède, 1801: *Coris aygula*  
*Paracheilinus angulatus* Randall & Lubbock, 1981: *P. angulatus*  
*Eupetrichthys angustipes* Ramsay & Ogilby, 1888: *E. angustipes*  
*Julis annularis* Val., 1839: *Halichoeres marginatus*  
*Halichoeres annulatus* Fowler, 1904: *Halichoeres miniatus*  
\* *Julis annulatus* Val., 1839: *Hologymnosus doliatus*  
*Labrus annulatus* Lacepède, 1801: *Hologymnosus annulatus*  
*Crenilabrus anthioides* Bennett, 1832: *Bodianus anthioides*  
*Labrus aper* Retzius, 1800: *Labrus bergylta*  
*Labrus aper* Val., 1846: *Semicossyphus darwini*  
*Conniella apterygia* Allen, 1983: *Conniella apterygia*  
*Macropharyngodon aquilolo* Jenkins, 1901: *M. geoffroy*  
*Trichopus arabicus* Shaw, 1803: *Thalassoma lunare*  
*Labrus arago* Quoy & Gaimard, 1824: *N. macrolepidotus*  
*Julis aran* Montrouzier, 1856: *Thalassoma trilobatum*  
*Crenilabrus arcuatus* Risso, 1827: *Symphodus roissali*  
*Cheilinus arenatus* Val., 1840: *Oxycheilinus arenatus*  
*Coris argenteostriata* Steindachner, 1900: *Coris ballieui*  
*Crenilabrus argenteostriatus* Nordmann, 1840: *Symphodus ocellatus*  
*Xyrichtys argentimaculata* Steindachner, 1861: *X. novacula*  
*Labrus argus* Bloch & Schneider, 1801: *Halichoeres argus*  
*Pseudojulis argyreogaster* Playfair & Günther, 1867: *Pseudojuloides argyreogaster*  
*Suezichthys arquatus* Russell, 1985: *Suezichthys arquatus*  
*Labrus ascanii* Shaw, 1803: *Symphodus melops*

*Julis ascensionis* Quoy & Gaimard, 1834: *Thalassoma ascensionis*  
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*Labrus bifasciatus* Bloch, 1791: *Thalassoma bifasciatum*  
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*Julis coris* Val., 1839: *Coris aygula*  
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*Cheilio cyanochloris* Val., 1839: *Cheilio inermis*  
*Labrus cyanodus* Richardson, 1843: *Choerodon cyanodus*  
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*Cossyphus echis* Guichenot, 1869: *Pseudocheilinus hexataenia*  
*Cossyphus eclancheri* Val., 1846: *Bodianus eclancheri*  
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*Labrus enneacanthus* Lacepède, 1801: *Cheilinus fasciatus*  
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*Labrus ephippium* Val., 1839: *nomen dubium*  
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*PlatyGLOSSUS equinus* De Vis, 1885: *Halichoeres margaritaceus*  
\* *Labrus erithrophthalmus* Walbaum 1792: *Symphodus mediterraneus*  
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*Labrus erythrogaster* Solander in Val., 1839: *nomen nudum*  
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\* *Julis exornatus* Richardson, 1846: *Halichoeres nigrescens*  
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*Sparus falcatus* Bloch, 1791: *Bodianus rufus*  
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*Coricus fasciatus* Cocco, 1833: *Lappanella fasciata*  
*Hologymnosus fasciatus* Lacepède, 1801: *H. doliatus*  
*Labrus fasciatus* Bloch, 1792: *Hemigymnus fasciatus*  
*Sparus fasciatus* Bloch, 1791: *Cheilinus fasciatus*  
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*Labrus flavescens* Bloch & Schneider 1801: *nomen dubium*  
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*Labrus fucii* Rafinesque, 1810?: *Symphodus cinereus*  
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*Stethojulis fulvoventris* Seale, 1901: *Stethojulis bandanensis*  
*Cheilio fuscus* Lacepède, 1802: *Cheilio inermis*  
*Gomphoses fuscus* Val., 1840: *Gomphosus varius*  
*Gomphosus fuscus* Bennett JW, 1828: *G. caeruleus*  
*Labrus fuscus* Gmelin 1789: *Symphodus mediterraneus*  
*Labrus fuscus* Lacepède, 1801: *Thalassoma trilobatum*  
*Labrus fuscus* Pallas, 1814: *Symphodus cinereus*  
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*Julis geoffroy* Quoy & Gaimard, 1824: *Macropharyngodon geoffroy*  
*Lutjanus geofroyius* Risso, 1810: *Symphodus tinca*  
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*Labrus gibbosus* Bonnaterre, 1788: *Symphodus melops*  
*Labrus gibbus* Gmelin, 1789: *Symphodus melops*



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*Labrus giofredi* Risso, 1810: *Coris julis*  
*Julis girardi* Bleeker, 1859: *nomen dubium*  
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*Anampses godeffroyi* Günther, 1881: *Anampses cuvier*  
*Chilinus godeffroyi* Günther, 1872: *Cheilinus undulatus*  
*Labrus goldsinny* Bonnaterre, 1788: *Symphodus melops*  
*Labrus gouanii* Lacepède, 1801: *nomen dubium*  
*Labrus gouldii* Richardson, 1843: *Achoerodus gouldii*  
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*Amorpocephalus granulatus* Bowdich, 1825: *Xyrichtys novacula*  
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*Coris greenoughii* Günther, 1862: *Coris gaimard*  
*Julis greenovii* Bennett, 1828: *Coris gaimard*  
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*Cirrhilabrus heterodon* Bleeker, 1871: *C. cyanopleura*  
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*Cheilinus hoevenii* Bleeker, 1862: *Oxycheilinus celebicus*  
*Julis hoevenii* Bleeker, 1851: *Halichoeres melanurus*  
*Labrus hortulanus* Lacepède, 1801: *Halichoeres hortulanus*  
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*Labrus imperialis* Rafinesque 1810?: *Thalassoma pavo*  
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*Labrus inermis* Forsskål, 1775: *Cheilio inermis*  
*Xyrichtys infirmus* Bean, 1891: *Xyrichtys martinicensis*  
*Labrus infuscus* Walbaum 1792: *Coris julis*  
*Julichthys inornata* De Vis, 1885: *nomen dubium*  
*Pseudojulis inornatus* Gilbert, 1890: *Pseudojuloides inornatus*  
*Labrus inscriptus* Richardson, 1848: *Notolabrus inscriptus*  
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*Sparus insidiator* Pallas, 1770: *Epibulus insidiator*  
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*Halichoeres insularis* Allen & Robertson, 1992: *H. insularis*  
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*Julis internasalis* Poey, 1861: *Halichoeres cyanocephalus*  
*Julis interruptus* Bleeker, 1851: *Stethojulis interrupta*  
*Halichoeres iridescens* Jenkins, 1901: *H. ornatissimus*  
*Halichoeres irideus* Starks, 1913: *Halichoeres radiatus*  
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*Labrus japonicus* Houttuyn, 1782: *nomen dubium*  
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*Labrus julis* Linnaeus, 1758: *Coris julis*  
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*Julis kalosoma* Bleeker, 1852: *Stethojulis interrupta*  
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\* *Julis laportei* Liénard, 1845: *Hologymnosus doliatus*  
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*Julis leschenaulti* Val., 1839: *Halichoeres scapularis*  
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*Coryphaena lineata* Gmelin, 1789: *Xyrichtys novacula*  
*Pseudojulis lineata* Castelnau, 1873: *Ophthalmolepis lineolatus*  
*Torresia lineata* De Vis, 1885: *Choerodon schoenleinii*  
*Cirrhilabrus lineatus* Randall & Lubbock, 1982: *C. lineatus*  
*Labrus lineatus* Bonnaterre, 1788: *Labrus mixtus*  
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*Anampses lineolatus* Bennett, 1836: *A. caeruleopunctatus*  
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*Hemipteronotus liogenys* Fowler, 1904: *Xyrichtys aneitensis*  
*Crenilabrus littoralis* Risso, 1827: *Symphodus ocellatus*  
*Labrus livens* Linnaeus, 1758?: *Labrus merula*

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*Labrus luvarus* Rafinesque, 1810: *Labrus mixtus*  
*Cirrhilabrus lyukyuensis* Ishikawa, 1904: *C. cyanopleura*  
*Halichoeres macgregori* Gilbert & Starks, 1904: *H. nicholsi*  
*Choerops macleayi* Ramsay & Ogilby, 1887: *Choerodon cephalotes*  
*Halichoeres macleayi* Jordan & Seale, 1906: *Xenajulis margaritaceus*  
*Labrichthys macleayi* Herzenstein, 1896: *Dotalabrus aurantiacus*  
*Cossyphus macrodon* Bleeker, 1849: *Choerodon anchorago*  
*Labrus macrodontus* Lacepède, 1801: *Choerodon anchorago*  
*Lepidaplois macrognathos* Morris, 1974: *Bodianus macrognathos*  
*Labrus macrolepidotus* Bloch, 1791: *Novaculichthys macrolepidotus*  
*Labrus macrolepidotus* Walbaum 1792: *nomen dubium*  
*Labrus macrostomus* Rafinesque 1810?: *Symphodus rostratus*  
*Labrus macrourus* Lacepède, 1801: *Bodianus macrourus*  
*Cossyphus macrurus* Günther, 1862: *Bodianus macrurus*  
*Julis maculata* Lesson, 1828: *Thalassoma lunare*  
*Labrichthys maculata* Macleay, 1881: *Austrolabrus maculatus*  
\* *Dentex maculatus* Perez Canto, 1886: *Semicossyphus darwini*  
*Labrichthys maculatus* De Vis, 1885: *Pseudolabrus guentheri*  
*Labrus maculatus* Bloch, 1792: *Labrus bergylta*  
\* *PlatyGLOSSUS maculatus* Jatzow & Lenz, 1898: *Halichoeres nigrescens*  
*Scarus maculatus* Gronow in Gray, 1854?: *Symphodus ocellatus*  
*Stethojulis maculatus* Schmidt, 1931: *Stethojulis maculata*  
*Pseudojulis maculifer* Castelnau, 1875: *Halichoeres nebulosus*  
*Julis maculipinna* Müller & Troschel, 1848: *Halichoeres maculipinna*  
*Perca maculosa* Retzius, 1800: *Symphodus melops*

*Cheilinus maculosus* Val., 1840: *Cheilinus trilobatus*  
\* *Hemipteronotus maculosus* Fourmanoir, 1967: *Xyrichtys baldwini*  
\* *Julidio maculosus* Clark, 1936: *Halichoeres nicholsi*  
*Labrus maculosus* Gronow, 1854: *nomen dubium*  
*Choerops maeander* Cartier, 1874: *Choerodon anchorago*  
*Cheilolabrus magnilabris* Alleyne & Macleay, 1877: *Hemigymnus melapterus*  
*Labrus malacopterus* Forster 1795: *nomen dubium*  
*Labrus malapteronotus* Lacepède, 1801: *Hemigymnus fasciatus*  
*Labrus malapterus* Bloch 1792: *Hemigymnus melapterus*  
*Cossyphus maldat* Val., 1839: *Bodianus macrourus*  
*Halichoeres malpelo* Allen & Robertson, 1992: *H. malpelo*  
*Labropsis manabei* Schmidt, 1931: *Labropsis manabei*  
*Lutianus manis* Nardo, 1827: *nomen dubium*  
*Pseudocheilinus margaretae* Smith, 1956: *P. octotaenia*  
*Julis margaritaceus* Val., 1839: *Halichoeres margaritaceus*  
*PlatyGLOSSUS margaritaceus* Macleay, 1883: *Xenojulis margaritaceus*  
\* *Xyrichtys margaritatus* Fourmanoir, 1967: *Xyrichtys dea*  
*Choerodon margaritiferus* Fowler & Bean, 1928: *Choerodon margaritiferus*  
\* *Labrus margaritiferus*, Cuvier, 1829: *Macropharyngodon geoffroy*  
*Julis margaritiphorus* Bleeker, 1853: *Halichoeres bicolor*  
*Ctenolabrus marginatus* Val., 1839: *Ctenolabrus rupestris*  
*Halichoeres marginatus* Rüppell, 1835: *H. marginatus*  
*Labrus marmoratus* Rafinesque 1810?: *Symphodus tinca*  
*Thalassoma marnae* Schultz, 1943: *T. amblycephalum*  
*Coris marquesensis* Randall, 1999: *Coris marquesensis*  
*Stethojulis marquesensis* Randall, 2000: *S. marquesensis*  
*Xyrichtys martinicensis* Val., 1840: *Xyrichtys martinicensis*  
\* *Thalassoma mascarenum* Fricke, 1999: *T. genivittatum*  
*Lutjanus massa* Risso, 1810: *Symphodus cinereus*  
*Lutjanus massiliensis* Lacepède, 1802: *Symphodus mediterraneus*  
*Bodianus masudai* Araga & Yoshino, 1975: *B. masudai*  
*Julis matthoei* Val., 1839: *Thalassoma genivittatum*  
*Cossyphus maxillosus* Guichenot, 1865: *Choerodon robustus*  
*Labrus maximus* Walbaum, 1792: *Lachnolaimus maximus*  
*Paracheilinus mccoskeri* Randall & Harmelin-Vivien, 1977: *Paracheilinus mccoskeri*  
*Sparus meaco* Lacepède, 1802: *Hemigymnus fasciatus*  
*Julis mediterranea* Risso, 1827: *Coris julis*  
*Perca mediterranea* Linnaeus, 1758: *Symphodus mediterraneus*  
*Labrus mediterraneus* Bloch & Schneider, 1801: *Symphodus mediterraneus*  
*Doratonotus megalepis* Günther, 1862: *D. megalepis*  
*Labrus melampterus* Bloch & Schneider, 1801: *Hemigymnus melapterus*  
*Lutjanus melanocercus* Risso, 1810: *Symphodus melanocercus*  
*Halichoeres melanochir* Fowler & Bean, 1928: *Halichoeres melanochir*  
*Julis melanochir* Bleeker, 1857: *Thalassoma amblycephalum*  
*Thalassoma melanochir* Fowler, 1904: *T. amblycephalum*  
*Cirrhilabrus melanomarginatus* Randall & Shen, 1978: *Cirrhilabrus melanomarginatus*

*Cheilinus melanopleura* Bleeker, 1866: *Oxycheilinus bimaculatus*  
\* *Julis melanoptera* Günther, 1862: *Thalassoma lutescens*  
*Labrus melanopterus* Forster 1795?: *Hemigymnus melapterus*  
*Novacula melanopus* Bleeker, 1857: *Xyrichtys melanopus*  
*Choerodon melanostigma* Fowler & Bean, 1928: *Choerodon melanostigma*  
*Pseudojulis melanotis* Gilbert, 1890: *Halichoeres melanotis*  
*Labrus melanotus* Rafinesque 1810: *nomen dubium*  
*Gomphosus melanotus* Bleeker, 1855: *Gomphosus caeruleus*  
*Crenilabrus melanoxanthurus* Cocco, 1840: *Symphodus melanocercus*  
*Julis melanura* Lowe, 1839: *Coris julis*  
*Labrichthys melanura* Macleay, 1881: *Pseudolabrus guentheri*  
*Anampses melanurus* Bleeker, 1857: *Anampses melanurus*  
*Anampses melanurus lineatus* Randall, 1972: *A. lineatus*  
*Julis melanurus* Bleeker, 1851: *Halichoeres melanurus*  
*Labrus melapterus* Bloch, 1791: *Hemigymnus melapterus*  
*Halichoeres melas* Randall & Earle, 1994: *H. melas*  
*Decodon melasma* Gomon, 1974: *Decodon melasma*  
*Halichoeres melasmapomus* Randall, 1981: *H. melasmapomus*  
*Anampses meleagrides* Val., 1840: *Anampses meleagrides*  
*Anampses meleagris* Günther, 1862: *Anampses meleagrides*  
*Choerops meleagris* Rüppell, 1852: *Choerodon anchorago*  
*Julis meleagris* Val., 1839: *Macropharyngodon meleagris*  
*Labrus melops* Linnaeus, 1758: *Symphodus melops*  
*Labrus mendovella* Rafinesque 1810: *Symphodus ocellatus*  
*Julis meniscus* Val., 1839: *Thalassoma lunare*  
*Cheilinus mentalis* Rüppell, 1828: *Oxycheilinus mentalis*  
*Cheilinus mertensii* Val., 1840: *Cheilinus undulatus*  
*Julis mertensii* Val., 1839?: *Thalassoma lunare*  
*Tautoga mertensii* Val., 1839: *Hemigymnus fasciatus*  
*Labrus merula* Linnaeus, 1758: *Labrus merula*  
*Pseudojuloides mesostigma* Randall & Randall, 1981: *Pseudojuloides mesostigma*  
*Labrus mesothorax* Bloch & Schneider, 1801: *Bodianus mesothorax*  
\* *PlatyGLOSSUS metager* Day, 1888: *Halichoeres marginatus*  
*Iridio meyeri* Bean, 1906: *Halichoeres maculipinna*  
*Labrus microlepidotus* Bloch, 1792?: *Labrus mixtus*  
*Xyrichtys microlepidotus* Val., 1840: *Cymolutes lecluse*  
*Novacula microlepis* Vaillant & Sauvage, 1875: *Cymolutes lecluse*  
*Labropsis micronesica* Randall, 1981: *L. micronesica*  
*Cheilio microstoma* Val., 1839: *Cheilio inermis*  
*Crenilabrus microstoma* Thompson, 1837: *Centrolabrus exoletus*  
*Iridio microstomus* Bean, 1906: *Halichoeres maculipinna*  
*Labrus miles* Forster in Bl. & Schn., 1801: *Pseudolabrus miles*  
*Julis miniatus* Val., 1839: *Halichoeres miniatus*  
*Lepidaplois mirabilis* Snyder, 1908: *Choerodon fasciatus*  
*Labrus mixtus* Linnaeus, 1758: *Labrus mixtus*  
*Crenilabrus modestus* Garrett, 1864: *Bodianus bilunulatus*

*Julis modestus* Bleeker, 1847: *Halichoeres chloropterus*  
*Julis modestus* Girard, 1854: *Oxyjulis californica*  
*Xyrichtys modestus* Poey, 1867: *Xyrichtys martinicensis*  
\* *Labrus mola* Cuvier 1829: *Halichoeres nigrescens*  
*Odax moluccanus* Val., 1840: *Pseudodax moluccanus*  
*Pseudodax moluccensis* Günther, 1862: *P. moluccanus*  
\* *Anampses moniliger* Cuvier, 1829: *Halichoeres leucurus*  
*Choerodon monostigma* Ogilby, 1910: *C. monostigma*  
*Xenojulis montillai* de Beaufort, 1939: *X. margaritaceus*  
*Scarus mordax* Gronow in Gray, 1854: *Bodianus mesothorax*  
*Crenilabrus morelli* Nordmann, 1840: *Symphodus ocellatus*  
*Cirrhilabrus morrisoni* Allen, 1999: *Cirrhilabrus morrisoni*  
*Labrichthys mortonii* Johnston, 1885: *Pseudolabrus rubicundus*  
*Cheilinus mossambicus* Günther, 1862: *Oxycheilinus bimaculatus*  
*Macropharyngodon moyeri* Shepard & Meyer, 1978: *M. moyeri*  
*Platychoerops muelleri* Klunzinger, 1880: *Achoerodus gouldii*  
*Halichoeres multicolor* Rüppell, 1835: *Coris caudimacula*  
*Labrus multcostatus* Gronow in Gray, 1854: *Halichoeres bivittatus*  
*Crenilabrus multidentatus* Thompson, 1837: *Labrus bergylta*  
*Xyrichtys mundiceps* Gill, 1862: *Xyrichtys mundiceps*  
*Iniistius mundicorpus* Gill, 1862: *Xyrichtys pavo*  
*Psudojulis murrayensis* De Vis, 1885: *Halichoeres miniatus*  
*Julis musume* Jordan & Snyder, 1904: *Coris picta*  
*Harpe naevius* Eigenmann, 1894: *Bodianus pulchellus*  
*Halichoeres nafa* Tanaka, 1908: *H. margaritaceus*  
*Anampses nagayoi* Tanaka 1908: *Anampses meleagrides*  
*Labrus nardii* Perugia 1866: *Labrus viridis*  
*Gomphoses nasutus* Parkinson in Cuv. & Val., 1840: *Gomphosus varius*  
*Labrus nasutus* Günther, 1862: *nomen nudum*  
*Choerops natalensis* Gilchrist & Thompson, 1909: *Anchichoerops natalensis*  
*Thalassoma neanis* Jordan & Evermann, 1907: *T. lutescens*  
*Cheilinus nebulosus* Richardson, 1846: *Cheilinus trilobatus*  
*Julis nebulosus* Val., 1839: *Halichoeres nebulosus*  
*Macropharyngodon negrosensis* Herre, 1932: *M. negrosensis*  
*Cossyphus neilli* Day, 1867: *Bodianus neilli*  
*Crenilabrus nematopterus* Bleeker, 1851: *Pteragogus flagellifer*  
*Anampses neoguinaicus* Bleeker, 1878: *A. neoguinaicus*  
*Labrus nereus* Risso, 1810: *Labrus merula*  
*Labrus neustriae* Lacepède, 1801: *Labrus bergylta*  
*Julis newtoni* Osorio, 1891?: *Thalassoma ascensionis*  
*PlatyGLOSSUS nicholsi* Jordan & Gilbert, 1882: *Halichoeres nicholsi*  
\* *Labrus niger* Nardo 1824: *Symphodus tinca*  
*Sparus niger* Lacepède, 1802: *Hemigymnus melapterus*  
*Tautoga niger* Mitchill, 1814: *Tautoga onitis*  
*Tautoga niger* var *alius* Mitchill, 1814: *Tautoga onitis*  
*Tautoga niger* var *fuscus* Mitchill, 1814: *Tautoga onitis*



*Tautoga niger* var *rubens* Mitchill, 1814: *Tautoga onitis*  
*Novacula nigra* Steindachner, 1900: *Xyrichtys niger*  
*Crenilabrus nigrescens* Risso, 1827: *Symphodus mediterraneus*  
*Labrus nigrescens* Bloch & Schneider, 1801: *Halichoeres nigrescens*  
*Cossyphus nigromaculatus* Gilchrist & Thompson, 1908: *Bodianus perditio*  
*Hemipteronotus nigromaculatus* Herre, 1933: *Xyrichtys twistii*  
*PlatyGLOSSUS nigromaculatus* Günther, 1872: *Macropharyngodon meleagris*  
*Labrichthys nigromarginatus* Macleay, 1878: *Notolabrus gymnogenis*  
*Cheilinus nigropinnatus* Seale, 1901: *Wetmorella nigropinnata*  
*Halichoeres nigropunctatus* Seale, 1901: *Macropharyngodon meleagris*  
*Coris nigrotaenia* Mee & Hare, 1995: *Coris nigrotaenia*  
*Julis nitida* Günther, 1862: *Thalassoma bifasciatum*  
*Julis nitidissima* Goode, 1877: *Thalassoma bifasciatum*  
*Xyrichtys niveilatus* Jordan & Evermann, 1903: *X. aneitensis*  
*Julis noronhana* Boulenger, 1890: *Thalassoma noronhanum*  
*Lutjanus norwegicus* Bloch, 1791: *Symphodus melops*  
*Chaerops notatus* Alleyne & Macleay, 1877: *Choerodon schoenleinii*  
*Julis notatus* Richardson & Solander in Richardson, 1843: *Notolabrus celidotus*  
*Lutjanus notatus* Bloch, 1790: *nomen dubium*  
*Pseudolabrus notatus* Kamohara, 1958: *Suezichthys notatus*  
*Stethojulis notialis* Randall, 2000: *Stethojulis notialis*  
\* *Cheilinus notophthalmus* Bleeker, 1853: *Oxycheilinus arenatus*  
*Julis notophthalmus* Bleeker, 1847: *Halichoeres hortulanus*  
*Tautoga notophthalmus* Bleeker, 1856: *Halichoeres hortulanus*  
*Julis notopsis* Val., 1839: *Halichoeres marginatus*  
*Pseudojulis notospilus* Günther, 1864: *Halichoeres notospilus*  
*Gomphosus notostigma* Bleeker, 1862: *Gomphosus varius*  
*Coryphaena novacula* Linnaeus, 1758: *Xyrichtys novacula*  
*Xyrichtys novaculoides* Bleeker, 1853: *Cymolutes torquatus*  
*Labrus nubilus* Val., 1843: *Labrus bergylta*  
*Labrichthys nudigena* De Vis, 1885: *Halichoeres hartzfeldii*  
*Choerops nyctemblema* Jordan & Evermann, 1902?: *Choerodon schoenleinii*  
*Julis obscura* Günther, 1880: *Thalassoma ballieui*  
*Labrus ocellaris* Linnaeus 1758?: *Symphodus ocellatus*  
*Wetmorella ocellata* Schultz & Marshall, 1954: *W. nigropinnata*  
*Labrus ocellatus* Forsskål, 1775: *Symphodus ocellatus*  
*PlatyGLOSSUS ocellatus* Kner & Steindachner, 1867: *Labrichthys unilineatus*  
*Pseudocheilinus ocellatus* Randall, 1999: *P. ocellatus*  
*Pseudocoris ocellatus* Chen & Shao, 1995: *P. ocellata*  
*Cossyphus octomaculatus* Liénard in Sauvage, 1891: *Bodianus axillaris*  
*Paracheilinus octotaenia* Fourmanoir, 1955: *P. octotaenia*  
*Pseudocheilinus octotaenia* Jenkins, 1901: *P. octotaenia*  
*Labrus oculusperdix* Rafinesque 1810: *Symphodus roissali*  
*Crenilabrus oligacanthus* Bleeker, 1851: *Choerodon oligacanthus*  
\* *Choerops olivaceus* De Vis, 1885: *Choerodon cyanodus*  
*Labrus olivaceus* Bonnaterre, 1788: *Symphodus ocellatus*

- \* *Labrus olivaceus* Walbaum, 1792: *Symphodus ocellatus*  
*Cossyphus ommopterus* Richardson, 1846: *Choerodon schoenleinii*  
*Labrus onitis* Linnaeus, 1758: *Tautoga onitis*  
*Julis opalina* Val., 1839: *Halichoeres radiatus*  
*Cossyphus opercularis* Guichenot, 1847: *Bodianus opercularis*  
*Cossyphus opercularis* Peters, 1855: *Pteragogus pelycus*  
*PlatyGLOSSUS opercularis* Günther, 1862: *Halichoeres margaritaceus*  
*Trochocopus opercularis* Günther, 1862: *Bodianus opercularis*  
*Cheilinus orientalis* Günther, 1862: *Oxycheilinus orientalis*  
*Julis ornatissimus* Garrett, 1863: *Halichoeres ornatissimus*  
*Gomphosus ornatus* Bennett, 1830: *Gomphosus caeruleus*  
*Labrus ornatus* Carmichael, 1819: *Nelabrichthys ornatus*  
*Labrus ornatus* Gronow in Gray, 1854: *Thalassoma bifasciatum*  
*Macropharyngodon ornatus* Randall, 1978: *M. ornatus*  
*Thysanocheilus ornatus* Kner, 1865: *Labrichthys unilineatus*  
*Labrus ossifagus* Linnaeus, 1758: *Labrus mixtus*  
*Cheilinus oxycephalus* Bleeker, 1853: *C. oxycephalus*  
*Cossyphus oxycephalus* Bleeker, 1862: *Bodianus oxycephalus*  
*Julis oxyrhynchus* Bleeker, 1857: *Hologymnosus doliatus*  
*Cheilinus oxyrhynchus* Bleeker, 1862: *Oxycheilinus celebicus*  
*Gomphosus pacificus* Seale, 1901: *Gomphosus varius*  
*Verreo pacificus* Kamohara, 1952: *Decodon pacificus*  
*PlatyGLOSSUS pagenstecheri* Kossmann & Räuber, 1877: *Halichoeres scapularis*  
*Choerops palawanensis* Seale, 1910: *Choerodon oligacanthus*  
*Coris pallida* MacLeay, 1881: *Coris batuensis*  
*Halichoeres pallidus* Kuitert & Randall, 1995: *H. pallidus*  
\* *Labrus pallidus* Nardo, 1824: *Acantholabrus palloni*  
*Lutjanus palloni* Risso, 1810: *Acantholabrus palloni*  
*Xyrichtys panamensis* Fowler, 1944: *Xyrichtys pavo*  
*Julis papilionaceus* Val., 1839: *Halichoeres papilionaceus*  
*Coris papuensis* Macleay, 1883: *Coris batuensis*  
*Labroides paradiseus* Bleeker, 1851: *Labroides dimidiatus*  
*Julis pardaleocephalus* Bleeker, 1849: *Halichoeres pardaleocephalus*  
*LeptoJulis pardalis* Kner, 1867: *Macropharyngodon meleagris*  
*Tautoga parila* Richardson, 1850: *Notolabrus parilus*  
*Labrus paroticus* Linnaeus, 1758: *Coris julis*  
*Brama parrae* Bloch & Schneider 1801: *Clepticus parrae*  
*Julis patatus* Val., 1839: *Halichoeres radiatus*  
*Labrus pavo* Linnaeus, 1758: *Thalassoma pavo*  
*Xyrichtys pavo* Val., 1840: *Xyrichtys pavo*  
*Julis pavoninus* Val., 1839: *nomen dubium*  
*Xyrichtys pavoninus* Val., 1840: *Xyrichtys pavo*  
*Choerodon paynei* Whitley, 1945: *Choerodon paynei*  
*Gomphosus pectoralis* Quoy & Gaimard, 1824: *G. varius*  
*Labroides pectoralis* Randall & Springer, 1975: *L. pectoralis*  
*Harpe pectorallis* Gill, 1862: *Bodianus diplotaenia*

*Halichoeres pelicier* Randall & Smith, 1982: *H. pelicier*  
*Pteragogus pelycus* Randall, 1981: *Pteragogus pelycus*  
*Crenilabrus pennantii* Val., 1839: *Symphodus melops*  
*Halichoeres penrosei* Starks, 1913: *H. maculipinna*  
*Labrus pentacanthus* Lacepède, 1801: *Centrolabrus exoletus*  
*Coryphaena pentadactyla* Linnaeus, 1758: *Xyrichtys pentadactylus*  
*Labrus perdica* Forsskål 1775: *Coris julis*  
*Labrus perditio* Quoy & Gaimard, 1834: *Bodianus perditio*  
*Labrus perioides* Walbaum 1792: *nomen dubium*  
*Xyrichtys perlas* Wellington, Allen & Robertson, 1994: *Novaculichthys perlas*  
*Choerops perpulcher* De Vis, 1885: *Choerodon cephalotes*  
*Labrus perspicillatus* Pallas, 1814: *Symphodus ocellatus*  
*Choerodon pescadorensis* Yu, 1968: *Choerodon robustus*  
*Pseudolepidaplois pfaffi* Bauchot & Blanc, 1961: *Bodianus scrofa*  
*Julis phaiopus* Bleeker, 1853: *Halichoeres marginatus*  
*Julis phaiotaenia* Bleeker, 1855: *Halichoeres scapularis*  
*Stethojulis phecadopleura* Martens, 1876: *Stethojulis trilineata*  
*Julis phekadopleura* Bleeker, 1849: *Stethojulis trilineata*  
*Coris philippina* Fowler & Bean, 1928: *Pseudocoris bleekeri*  
*Wetmorella philippina bifasciata* Schultz & Marshall, 1954: *Wetmorella nigropinnata*  
*Wetmorella philippina* Fowler & Bean, 1928: *W. albofasciata* (in part)  
*Wetmorella philippina* Fowler & Bean, 1928: *Wetmorella nigropinnata* (in part)  
*Labroides phthirophagus* Randall, 1958: *L. phthirophagus*  
*Coris pictoides* Randall & Kuitert, 1982: *Coris pictoides*  
*Chaeropsodes pictus* Gilchrist & Thompson, 1909: *Bodianus perditio*  
*Crenilabrus pictus* Lowe, 1838: *Symphodus mediterraneus*  
*Julis pictus* Poey, 1860: *Halichoeres pictus*  
*Labrus pictus* Bloch & Schneider 1801: *Coris picta*  
*Labrus pictus* Gronow, 1854: *nomen dubium*  
*Labrus pincus* Nardo, 1824: *Labrus viridis*  
*Labrus pirca* Walbaum 1792?: *Symphodus bailloni*  
*Cirrhilabrus piscilineatus* Cornic, 1987: *Paracheilinus piscilineatus*  
*Labrus pitimoides* Rafinesque 1810?: *Symphodus rostratus*  
*Pseudolabrus pittensis* Waite, 1910: *Notolabrus fucicola*  
*Labrus pittima* Rafinesque, 1810: *Symphodus mediterraneus*  
*Julis podostigma* Bleeker, 1854: *Halichoeres podostigma*  
*Julis poecila* Lay & Bennett, 1839: *Halichoeres margaritaceus*  
*Julis poecilepterus* Temminck & Schlegel, 1845: *Parajulis poecilepterus*  
*Labrus poecilopleura* Val., 1839: *Notolabrus celidotus*  
*Julis poeciopterus* Richardson, 1846: *Parajulis poecilepterus*  
*PlatyGLOSSUS poeyi* Steindachner, 1867: *Halichoeres poeyi*  
*Labrus polychrous* Pallas, 1814: *Symphodus tinca*  
*Cheilinus polygramma* Val., 1840: *Oxycheilinus unifasciatus*  
*LeptoJulis polylepis* Randall, 1996: *LeptoJulis polylepis*  
*Labropsis polynesica* Randall, 1981: *Labropsis polynesica*  
*Labrus polyodon* Bloch & Schneider 1801?: *Thalassoma lunare*

*Labrus polyodon* Walbaum 1792?: *Thalassoma lunare*  
*Julis polyophthalmus* Bleeker, 1852: *Halichoeres argus*  
*Labrus porcus* Rafinesque, 1810: *nomen dubium*  
*Julis porphyrocephala* Bennett, 1832: *Thalassoma lunare*  
*Julis praetextata* Quoy & Gaimard, 1834: *Cymolutes praetextatus*  
*Labrus prasostictes* Pallas, 1814: *Labrus viridis*  
*Julis principis* Val., 1839: *Halichoeres radiatus*  
*Bodianus prognathus* Lobel, 1981: *Bodianus prognathus*  
\* *Crenilabrus propinquus* Gulia, 1861: *Symphodus tinca*  
*Julis prosopeion* Bleeker, 1853: *Halichoeres prosopeion*  
*Julis prostigma* Kuhl & van Hasselt, 1839: *Thalassoma hardwicke*  
*Stethojulis psacas* Jordan & Snyder, 1902: *S. strigiventer*  
*PlatyGLOSSUS pseudogramma* Cartier, 1874: *Halichoeres bicolor*  
*Julis pseudominiatus* Bleeker, 1856: *Halichoeres nebulosus*  
*Labrus psittaculus* Lacepède, 1801: *Halichoeres bivittatus*  
*Labrus psittaculus* Richardson 1840: *Pseudolabrus rubicundus*  
*Pseudocheilinus psittaculus*, Kner & Steindachner 1867: *Pseudocheilinus hexataenia*  
*Coryphaena psittacus* Linnaeus, 1766: *Xyrichtys novacula*  
*Labrus psittacus* Lacepède, 1801: *Labrus viridis*  
*Labrus psittacus* Risso, 1827: *Labrus merula*  
*Lachnolaimus psittacus* Val., 1839: *Lachnolaimus maximus*  
*Anampses pterophthalmus* Bleeker, 1857: *A. geographicus*  
*Cossyphus puellaris* Poey, 1860: *Decodon puellaris*  
*Cheilinus pulchellus* Sauvage, 1880: *Cheilinus trilobatus*  
*Cossyphus pulchellus* Poey, 1860: *Bodianus pulchellus*  
*Anampses pulcher* Regan, 1913: *A. caeruleopunctatus*  
*Labrus pulcher* Ayres, 1854: *Semicossyphus pulcher*  
*Coris pulcherrima* Günther, 1862: *Coris gaimard*  
*Labrus pulcherrimus* Forster, 1839: *Thalassoma hardwicke*  
*Cheilinus punctatus* Bennett, 1832: *Cheilinus chlorourus*  
*Cirrhilabrus punctatus* Randall & Kuitert, 1989: *C. punctatus*  
*Julis punctatus* Seale, 1901: *Thalassoma purpureum*  
*PlatyGLOSSUS punctatus* De Vis, 1885: *Coris batuensis*  
*Labrichthys punctulata* Günther, 1862: *Notolabrus parilus*  
*Novacula punctulata* Val., 1840: *Xyrichtys bimaculatus*  
*Cheilinus punctulatus* Val., 1840: *Cheilinus chlorourus*  
*Julis punctulatus* Val., 1839: *Halichoeres argus*  
*Xyrichtys puniceus* Richardson, 1846: *Xyrichtys pavo*  
*Scarus purpuratus* Shaw, 1803: *Thalassoma purpureum*  
*Julis purpureolineatus* Val., 1839: *LeptoJulis cyanopleura*  
*Labrus purpureus* Bloch & Schneider 1801: *Halichoeres leucurus*  
*Julis purpureus* Rüppell, 1828: *Thalassoma rueppellii*  
*Scarus purpureus* Forsskål, 1775: *Thalassoma purpureum*  
*Crenilabrus pusillus* Nordmann, 1840: *Symphodus cinereus*  
*Cirrhilabrus pylei* Allen & Randall, 1996: *Cirrhilabrus pylei*  
*Pseudojuloides pyrius* Randall & Randall, 1981: *P. pyrius*

*Julis pyrrhogramma* Temminck & Schlegel, 1845: *Parajulis poecilepterus*  
*Julis pyrrhogrammatoides* Bleeker, 1853: *LeptoJulis cyanopleura*  
*Thalassoma pyrrhovinctum* Jenkins, 1901: *T. duperrey*  
*Julis quadricolor* Lesson, 1828: *Thalassoma purpureum*  
*Choerodon quadrifasciatus* Yu, 1968: *C. schoenleinii*  
*Labrus quadrilineatus* Rüppell, 1835: *Larabicus quadrilineatus*  
*Labrus quadrimaculatus* Risso, 1827: *Labrus mixtus*  
*Xiphochilus quadrimaculatus* Günther, 1880: *Xiphocheilus typus*  
*Labrus quindecimaculeatus* Lacepède, 1801: *Thalassoma hardwicke*  
*Cheilinus quinquecinctus* Rüppell, 1835: *Cheilinus fasciatus*  
*Scarus quinquefasciatus* Bennett JW, 1830: *Hemigymnus fasciatus*  
*Crenilabrus quinquemaculatus* Risso, 1827: *Symphodus roissali*  
*Labrus quinquemaculatus* Bloch, 1792: *nomen dubium*  
*Scarus quinquevittatus* Lay & Bennett, 1839: *Thalassoma quinquevittatum*  
*Cheilinus radiatus* Val., 1840: *Oxycheilinus digramma*  
*Labrus radiatus* Linnaeus, 1758: *Halichoeres radiatus*  
*Sparus radiatus* Bloch & Schneider 1801: *Oxycheilinus digramma*  
*Xyrichtys rajagopalani* Venkataramanujam et al., 1987: *Xyrichtys rajagopalani*  
*Labrus ramentosus* Forsskål, 1775: *Pteragogus flagellifer*  
*Cheilio ramosus* Jenyns, 1842: *Cheilio inermis*  
*Cirrhilabrus randalli* Allen, 1995: *Cirrhilabrus randalli*  
\* *PlatyGLOSSUS ransonneti* Steindachner, 1870: *Halichoeres nigrescens*  
*Julis rapan* Montrouzier, 1857: *Thalassoma lunare*  
*Julis reichei* Bleeker, 1858: *Halichoeres nebulosus*  
*Hemicoris remedi* Jenkins, 1901: *Coris venusta*  
*Julis renardi* Bleeker, 1851: *Stethojulis strigiventer*  
*Cossyphus reticulatus* Val., 1839: *Semicossyphus reticulatus*  
*Labrus reticulatus* Bonnaterre, 1788: *Symphodus ocellatus*  
*Labrus reticulatus* Lowe, 1839: *Labrus bergylta*  
*Labrus reticulatus* Walbaum, 1792: *nomen dubium*  
*Malapterus reticulatus* Val., 1839: *Malapterus reticulatus*  
\* *PlatyGLOSSUS reticulatus* Cartier, 1874: *Halichoeres argus*  
*Coris rex* Ramsay & Ogilby, 1886: *Coris sandageri*  
*Labrichthys rex* De Vis, 1885: *Pseudolabrus guentheri*  
*Cheilinus rhodochrous* Playfair & Günther, 1867: *Oxycheilinus rhodochrous*  
*Hologymnosus rhodonotus* Randall & Yamakawa, 1988: *Hologymnosus rhodonotus*  
*Cirrhilabrus rhomboidalis* Randall, 1988: *C. rhomboidalis*  
*Labrichthys richardsoni* Castelnau, 1872: *Notolabrus tetricus*  
*Lepidaplois richardsoni* Fowler, 1908: *Bodianus bilunulatus*  
*Pseudolabrus richardsonii* Steindachner, 1867: *P. guentheri*  
*Halichoeres richmondi* Fowler & Bean, 1928: *H. richmondi*  
*Crenilabrus rissoi* Val., 1839: *Symphodus ocellatus*  
*Cheilinus rivulatus* Val., 1840: *Cheilinus trilobatus*  
*Semicossyphus robecchii* Steindachner & Bellotti, 1887: *Semicossyphus reticulatus*  
*Thalassoma robertsoni* Allen, 1995: *Thalassoma robertsoni*  
*PlatyGLOSSUS robinsoni* Gilchrist & Thompson, 1914: *Nelabrichthys ornatus*

*Xiphochilus robustus* Günther, 1862: *Choerodon robustus*  
*Lutjanus roissali* Risso, 1810: *Symphodus roissali*  
*Acantholabrus romeritus* Val., 1843: *Centrolabrus trutta*  
*Labrus rone* Ascanius, 1772: *Symphodus melops*  
*Coris rosea* Vaillant & Sauvage, 1875: *Coris ballieui*  
*Julis rosea* Quoy & Gaimard, 1834: *Hologymnosus doliatus*  
*Cirrhilabrus roseafascia* Randall & Lubbock, 1982: *Cirrhilabrus roseafascia*  
*Labrichthys roseipunctata* Hutton, 1880: *Pseudolabrus miles*  
*Coris roseoviridis* Randall, 1999: *Coris roseoviridis*  
\* *Cheilinus roseus* Val., 1840: *Oxycheilinus digramma*  
*PlatyGLOSSUS roseus* Day, 1888: *Halichoeres nigrescens*  
*Xyrichthys rosipes* Jordan & Gilbert, 1884: *X. novacula*  
\* *Cheilinus rostratus* Cartier, 1874: *Cheilinus undulatus*  
*Lutjanus rostratus* Bloch, 1791: *Symphodus rostratus*  
*Julis rubecula* Richardson, 1843?: *Pseudolabrus miles*  
*Ctenolabrus rubellio* Richardson, 1845: *Pteragogus aurigarius*  
*Labrus rubellio* Walbaum 1792: *Symphodus cinereus*  
\* *Labrus rubens* Bloch & Schneider, 1801: *Symphodus ocellatus*  
*Lutjanus ruber* Rafinesque, 1810: *Symphodus ocellatus*  
*Choerops rubescens* Günther, 1862: *Choerodon rubescens*  
*Lutjanus rubescens* Risso, 1810: *Symphodus rostratus*  
*Labrichthys rubicunda* Macleay, 1881: *Pseudolabrus rubicundus*  
*Choerodon rubidus* Scott, 1959: *Choerodon schoenleinii*  
*Julis rubiginosus* Richardson, 1843?: *Pseudolabrus miles*  
*Labrus rubiginosus* Richardson, 1846: *Pseudolabrus sieboldi*  
*Labrus rubiginosus* Risso 1827: *nomen dubium*  
*Labrus rubiginosus* Temminck & Schlegel, 1846 (in part): *Pseudolabrus eoethinus*  
*Labrus rubiginosus* Temminck & Schlegel, 1846 (in part): *Pseudolabrus sieboldi*  
*Labrichthys rubra* Castelnau, 1875: *Notolabrus parilus*  
*Halichoeres rubricephalus* Kuitert & Randall, 1995: *Halichoeres rubricephalus*  
*Cirrhilabrus rubrimarginatus* Randall, 1992: *C. rubrimarginatus*  
*Cirrhilabrus rubripinnis* Randall & Carpenter, 1980: *Cirrhilabrus rubripinnis*  
*Cirrhilabrus rubrisquamis* Randall & Emery, 1983: *Cirrhilabrus rubrisquamis*  
*Cirrhilabrus rubriventralis* Springer & Randall, 1974: *Cirrhilabrus rubriventralis*  
*Anampses rubrocaudatus* Randall, 1958: *A. chrysocephalus*  
*Labroides rubrolabiatus* Randall, 1958: *L. rubrolabiatus*  
*Labrus rubrolineatus* Lacepède, 1801: *Bodianus macrourus*  
*Stethojulis rubromacula* Scott, 1959: *S. bandanensis*  
*Anampses rubroviridis* Liénard in Sauvage, 1891: *A. viridis*  
*Terelabrus rubrovittatus* Randall & Fourmanoir, 1998: *Terelabrus rubrovittatus*  
*Julis rueppellii* Klunzinger, 1871: *Thalassoma rueppellii*  
*Novacula rufa* Day, 1873: *Xyrichthys cyanifrons*  
*Labrus rufus* Linnaeus, 1758: *Bodianus rufus*  
*Labrus rufus* Rathke, 1837: *Labrus viridis*  
*Trochocopus rufus* Macleay, 1878: *Bodianus frenchii*  
*Labrus rupestris* Linnaeus, 1758: *Ctenolabrus rupestris*

*Julis ruppelii* Bennett, 1831: *Coris aygula*  
*Julis ruptus* Poey, 1860: *Halichoeres garnoti*  
*Bodianus russelli* Gomon & Randall, 1975: *Polylepion russelli*  
*Suezichthys russelli* Randall, 1981: *Suezichthys russelli*  
*Julis sanctaehelenae* Val., 1839: *Thalassoma sanctaehelenae*  
*Novacula sanctaehelenae* Günther, 1868: *Xyrichtys sanctaehelenae*  
*Cymolutes sandeyeri* Hector, 1884: *Coris sandageri* (Hector)  
*Gomphosus sandvicensis* Günther, 1862: *Gomphosus varius*  
*Cheilinus sanguineus* Val., 1840: *Cheilinus oxycephalus*  
*Cirrhilabrus sanguineus* Cornic, 1987: *C. sanguineus*  
\* *Labrus sanguineus* Nardo 1824: *Symphodus tinca*  
*Verriculus sanguineus* Jordan & Evermann, 1903: *Bodianus sanguineus*  
*Trochocopus sanguinolentus* De Vis, 1883: *Bodianus perditio*  
*Labrus saphyrinus* Walbaum 1792: *Labrus viridis*  
*Labrus saxatilis* Risso, 18: *Labrus viridis*  
*Labrus saxorum* Val., 1839: *Labrus merula*  
*Julis scapularis* Bennett, 1832: *Halichoeres scapularis*  
*Labrus scarus* Linnaeus, 1758: *nomen dubium*  
*Coris schauinslandii* Steindachner, 1900: *Coris ballieui*  
\* *Crenilabrus schemberianus* Gulia, 1861: *Symphodus ocellatus*  
*Cossyphus schoenleinii* Val., 1839: *Choerodon schoenleinii*  
*Julis schroederii* Bleeker, 1858: *Coris batuensis*  
*Julis schwanenfeldii* Bleeker, 1853: *Thalassoma hardwicke*  
*Julis schwarzii* Bleeker, 1847: *Halichoeres papilionaceus*  
\* *Xyrichtys sciistius* Jordan & Thompson 1914: *Novaculichthys woodi*  
*Labrus scina* Forsskål, 1775?: *Symphodus rostratus*  
*Cirrhilabrus scottorum* Randall & Pyle, 1989: *C. scottorum*  
*Labrus scrofa* Val., 1839: *Bodianus scrofa*  
*Halichoeres sebae* Kner, 1860: *Stethojulis trilineata*  
*Julis sebanus* Val., 1839: *Stethojulis trilineata*  
*Halichoeres sellifer* Gilbert, 1890: *Halichoeres nicholsi*  
*Coris semicineta* Ramsay, 1883: *Coris picta*  
*Julis semicinctus* Ayres, 1859: *Halichoeres semicinctus*  
*Julis semicoeruleus* Rüppell, 1835: *Thalassoma purpureum*  
*Julis semidecorata* Lesson, 1828: *Halichoeres hortulanus*  
*Labrus semidiscus* Lacepède, 1801: *Hologymnosus annulatus*  
*Julis semifasciatus* Val., 1839: *Thalassoma hardwicke*  
*Labrichthys semifasciatus* Rendahl, 1921: *Pseudolabrus semifasciatus*  
*Labrus semilunatus* Lacepède 1804?: *Thalassoma lutescens*  
*Coris semipartita* Günther, 1862: *Hologymnosus annulatus*  
*Julis semipunctatus* Rüppell, 1835: *Coris aygula*  
*Labrus semiruber* Lacepède, 1801: *Bodianus rufus*  
*Thalassoma septemfasciata* Scott, 1959: *T. septemfasciatum*  
*Labrus serpentinus* Bonnaterre, 1788: *Symphodus mediterraneus*  
*Crenilabrus serranoides* Gulia, 1861: *nomen dubium*  
*Crenilabrus serranus* Gulia, 1861: *nomen dubium*

*Halichoeres sexfasciatus* Rüppell, 1835: *Hemigymnus fasciatus*  
*Labrichthys sexlineatus* De Vis, 1885: *Pseudolabrus guentheri*  
*Novacula sexmaculata* Val. 1840: *Xyrichtys pentadactylus* \* *Halichoeres sexmaculatus* Fowler,  
1946: *Xenojulius margaritaceus*  
*Pseudolabrus sieboldi* Mabuchi & Nakabo, 1997: *P. sieboldi*  
*Halichoeres signifer* Randall & Earle, 1994: *H. signifer*  
*Iridio similis* Nichols, 1920: *Halichoeres maculipinna*  
*Labrus simus* Pallas 1814: '*Symphodus cinereus*  
*Cheilinus sinuosus* Quoy & Gaimard, 1824: *C. trilobatus*  
*Thalassoma socorroense* Gilbert, 1890: *Thalassoma virens*  
*Suezichthys soelae* Russell, 1985: *Suezichthys soelae*  
*Cirrhilabrus solorensis* Bleeker, 1853: *C. solorensis*  
*Julis solorensis* Bleeker, 1853: *Halichoeres solorensis*  
*Julis souleyetii* Val., 1839: *Thalassoma trilobatum*  
*Julis speciosa* Risso, 1827: *Coris julis*  
*Diastodon speciosus* Bowdich, 1825: *Bodianus speciosus*  
*Crenilabrus spilogaster* Bleeker, 1854: *Pteragogus aurigarius*  
*Labrus spilonotus* Bennett, 1836: *Bodianus macrourus*  
*Novacula spilonotus* Bleeker, 1857: *Xyrichtys melanopus*  
*Cossyphus spilotes* Guichenot, 1865: *Bodianus diana*  
*Julis spilurus* Bleeker, 1851: *Halichoeres trimaculatus*  
*Xyrichtys splendens* Castelnau, 1855: *Xyrichtys splendens*  
*Julis squamismarginatus* Bowdich, 1825: *Thalassoma pavo*  
*Crenilabrus staitii* Nordmann, 1840: *Symphodus cinereus*  
*Thalassoma steindachneri* Jordan, 1890: *T. lucasanum*  
*Crenilabrus stejnegeri* Ishikawa, 1904: *Choerodon azurio*  
*Julis stellatus* Val., 1839: *Coris cuvieri*  
*Halichoeres stictus* Fowler, 1944: *Halichoeres nicholsi*  
*Halichoeres stigmasepia* Fowler, 1944: *Halichoeres nicholsi* *Halichoeres stigmaticus* Randall &  
Smith, 1982: *H. stigmaticus*  
*Novacula stockumii* Reuvens, 1895?: *Xyrichtys twistii*  
*Epibulus striatus* Day, 1871: *Epibulus insidiator*  
*Minilabrus striatus* Randall & Dor, 1980: *M. striatus*  
*Julis strigiventer* Bennett, 1832: *Stethojulis strigiventer*  
*Lepidaplois strophodes* Jordan & Evermann, 1903: *Bodianus bilunulatus*  
*Thalassoma stuckiae* Whitley, 1959: *Gomphosus varius*  
*Bermudichthys subfurcatus* Nichols, 1920: *Thalassoma bifasciatum*  
*Labrus subfuscus* Bloch & Schneider 1801: *Coris julis*  
*Labrus subfuscus* Walbaum, 1792: *Tautoga onitis*  
*Choerodon sugillatum* Gomon, 1987: *Choerodon sugillatum*  
*Labrus suillus* Linnaeus, 1758?: *Ctenolabrus rupestris*  
*Lachnolaimus suillus* Cuvier, 1829: *Lachnolaimus maximus*  
*Julis sukl* Montrouzier, 1857: *Stethojulis trilineata*  
*Labrus syriacus* Bloch & Schneider, 1801: *Thalassoma pavo*  
*Julis taenianotus* Cuvier in Quoy & Gaimard, 1824: *Novaculichthys macrolepidotus*  
*Anampses taeniatus* Liénard in Sauvage, 1891: *Anampses caeruleopunctatus*



*Coris taeniatus* Steindachner, 1863: *Coris julis*  
*Cossyphus taeniatus* Val., 1839: *Larabicus quadrilineatus*  
*Cossyphus taeniops* Peters, 1855: *Pteragogus taeniops*  
*Labrus taeniourus* Lacepède, 1801: *Novaculichthys taeniourus*  
*Labrus ?tagiselem* Montrouzier, 1857: *nomen dubium*  
*Labrus tancoides* Lacepède, 1801: *Symphodus tinca*  
*Bodianus tanyokidus* Gomon & Madden, 1981: *B. tanyokidus*  
\* *Cymolutes tateyamaensis* Sakamoto, 1930: *C. torquatus*  
*Novaculichthys tattoo* Seale, 1901: *Novaculichthys woodi*  
*Labrus tautoga* Mitchill, 1815: *Tautoga onitis*  
*Julis temmincki* Bleeker, 1853: *Halichoeres leucurus*  
*Cirrhilabrus temminckii* Bleeker, 1853: *C. temminckii*  
*Novacula temporalis* Regan, 1905: *Xyrichtys pavo*  
*PlatyGLOSSUS tenuispinis* Günther, 1862: *Halichoeres tenuispinis*  
*Stethojulis terina* Jordan & Snyder, 1902: *S. interrupta*  
*Labrus tessellatus* Bloch, 1792: *Symphodus melops*  
*Novacula tessellata* Val., 1840: *Xyrichtys pavo*  
*Labrus tetraodon* Bloch & Schneider 1801: *nomen dubium*  
*Pseudocheilinus tetrataenia* Schultz, 1960: *P. tetrataenia*  
*Cheilinus tetrazona* Bleeker, 1853: *Cheilinus trilobatus*  
*Novacula tetrazona* Bleeker, 1859: *Xyrichtys pavo*  
*Labrichthys tetrica* var *fuscipinnis* Klunzinger, 1872: *Notolabrus tetricus*  
*Labrichthys tetrica* var *ocellata* Klunzinger, 1880?: *Notolabrus tetricus*  
*Labrichthys tetrica* var *tigripinnis* Klunzinger, 1872: *Notolabrus tetricus*  
*Labrus tetricus* Richardson, 1840: *Notolabrus tetricus*  
*Doratonotus thalassinus* Jordan & Gilbert, 1884: *D. megalepis*  
*Julis thirsites* Richardson, 1846: *Parajulis poecilepterus*  
*Bodianus thoracotaeniatus* Yamamoto, 1982: *B. thoracotaeniatus*  
*Crenilabrus tigrinus* Risso, 1827: *Symphodus roissali*  
*Julis timorensis* Bleeker, 1852: *Halichoeres timorensis*  
*Crenilabrus tinca* Val., 1839: *Symphodus dodderleini*  
*Labrus tinca* Linnaeus, 1758: *Symphodus tinca*  
*Labrus tinea* Forsskål, 1775: *nomen dubium*  
*Anampses tinkhami* Fowler, 1946: *A. caeruleopunctatus*  
*Paracheilinus togeanensis* Kuitert & Allen, 1999: *Paracheilinus togeanensis*  
*Cirrhilabrus tonozukai* Allen & Kuitert, 1999: *Cirrhilabrus tonozukai*  
*Pseudolabrus torotai* Russell & Randall, 1981: *P. torotai*  
\* *Labrus torquatus* Walbaum, 1792: *Thalassoma bifasciatum*  
*Xyrichtys torquatus* Val., 1840: *Cymolutes torquatus*  
*Choerodon transversalis* Whitley, 1956: *C. graphicus*  
*Cossyphus tredecimspinosus* Günther, 1862: *Bodianus speciosus*  
\* *Halichoeres tremebundus* Jordan & Snyder, 1902: *H. bleekeri*  
*Gomphosus tricolor* Quoy & Gaimard, 1824: *G. varius*  
*Pseudojulis trifasciatus* Weber, 1913: *Thalassoma amblycephalum*  
*Labrus trilineatus* Bloch & Schneider, 1801: *Stethojulis trilineata*  
*Lepidaplois trilineatus* Fowler, 1934: *Bodianus trilineatus*

*Julis trilobata* var  $\beta$  Günther, 1862: *Thalassoma purpureum*  
*Cheilinus trilobatus* Lacepède, 1801: *Cheilinus trilobatus*  
*Labrus trilobatus* Lacepède, 1801: *Thalassoma trilobatum*  
*Cheilinus trilobus* Schinz in Cuvier, 1822: *C. trilobatus*  
*Coris trimaculata* Ogilby, 1888: *Coris sandageri*  
*Julis trimaculata* Quoy & Gaimard, 1834: *Halichoeres trimaculatus*  
*Julis trimaculata* Val., 1839: *Novaculichthys macrolepidotus*  
*Julis trimaculatus* Rüppell, 1835: *Thalassoma lunare*  
*Labrus trimaculatus* Bonnaterre, 1788: *Labrus mixtus*  
*Labrus trimaculatus* Gmelin 1789: *Labrus mixtus*  
*Wetmorella triocellata* Schultz & Marshall, 1954: *Wetmorella nigropinnata*  
*Suezichthys tripunctatus* Randall & Kotthaus, 1977: *S. notatus* (in part)  
*Suezichthys tripunctatus* Randall & Kotthaus, 1977: *S. russelli* (in part)  
*Halichoeres trispilus* Randall & Smith, 1982: *H. trispilus*  
*Xyrichtys trivittatus* Randall & Cornish, 2000: *X. trivittatus*  
*Stethojulis trossula* Jordan & Snyder, 1902: *S. interrupta*  
*Lepidaplois trotteri* Fowler & Bean, 1923: *Bodianus loxozonus*  
*Julis truncatus* Cartier, 1874: *Thalassoma lunare*  
*Crenilabrus trutta* Lowe, 1834: *Centrolabrus trutta*  
*Crenilabrus trutta* var *unicolor* Lowe, 1838: *Centrolabrus trutta*  
*Julis turcica* Risso, 1827: *Thalassoma pavo*  
*Julis turcica* var *lemniscata* Lowe, 1843: *Thalassoma pavo*  
*Julis turcica* var *torquata* Lowe, 1843: *Thalassoma pavo*  
*Labrus turdus* Linnaeus, 1758: *Labrus viridis*  
*Anampses twistii* Bleeker, 1856: *Anampses twistii*  
*Novacula twistii* Bleeker, 1856: *Xyrichtys twistii*  
*Xiphocheilos typus* Bleeker, 1856: *Xiphocheilus typus*  
*PlatyGLOSSUS ubayensis* Cartier, 1874: *Halichoeres vrolikii*  
*Cheilio udanad* Montrouzier, 1857: *Cheilio inermis*  
*Hemipteronotus umbrilatus* Jenkins, 1901: *Xyrichtys umbrilatus*  
*Julis umbrostygma* Rüppell, 1835: *Thalassoma purpureum*  
*Cheilinus undulatus* Rüppell, 1835: *Cheilinus undulatus*  
*Gomphosus undulatus* Streets, 1877: *Gomphosus varius*  
*Labrichthys unicolor* Castelnau, 1875: *Notolabrus parilus*  
*Labrus unicolor* Bloch & Schneider 1801: *nomen dubium*  
*Trochocopus unicolor* Günther, 1876: *Achoerodus gouldii*  
*Cheilinus unifasciatus* Streets, 1877: *Oxycheilinus unifasciatus*  
*Cossyphus unilineatus* Guichenot, 1847: *Labrichthys unilineatus*  
*Julis unimaculata* Lowe, 1840: *Thalassoma pavo*  
*Julis unimaculata* var *lineolata* Lowe, 1840: *Thalassoma pavo*  
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*Labrus variegatus* Nardo, 1824: *nomen dubium*  
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*Labrus violaceus* Bloch & Schneider 1801: *Symphodus tinca*  
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*Scarus cruentatus* Val., 1840: *nomen dubium*  
*Scarus cuzamilae* Bean, 1891: *Scarus vetula*  
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*Scarus emarginatus* Poey, 1868?: *Sparisoma rubripinne*  
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*Scarus frondosus* Agassiz, 1829: *Sparisoma viride*  
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*Callyodon fumifrons* Jordan & Seale, 1906: *Scarus dimidiatus*  
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*Scarus galena* Jordan [EK], 1925: *Scarus psittacus*  
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*Scarus gibbosus* Bleeker, 1862: *nomen nudum*  
*Scarus gibbus* Rüppell, 1829: *Chlorurus gibbus*  
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*Hipposcarus harid vexillus* Smith, 1959: *Hipposcarus harid*  
*Scarus haridoides* Bleeker, 1855: *Scarus ghobban*  
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*Scarus hoplomystax* Cope, 1871: *Sparisoma radians*  
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*Scarus humeralis* Poey, 1861: *nomen dubium*  
*Scarus hypselopterus* Bleeker, 1853: *Scarus hypselopterus*  
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*Pseudoscarus iensis* Steindachner, 1887: *Scarus niger*  
*Callyodon ikan* Montrouzier, 1857: *nomen nudum*  
*Callyodon improvisus* Smith, 1956: *Scarus falcipinnis*  
*Scarus insulaesanctaecrucis* Bloch & Schneider, 1801: *Scarus iseri*  
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*Callyodon iseri* Bloch, 1789: *Scarus iseri*  
*Pseudoscarus ismailius* Kossmann & Räuber, 1877: *Scarus collana*  
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*Scarus japonensis* Bloch, 1789: *Chlorurus japonensis*  
*Callyodon japonicus* Val., 1840: *Calotomus japonicus*  
*Scarus javanicus* Bleeker, 1854: *Scarus hypselopterus*  
*Scarus jenkinsi* Jordan & Evermann, 1903: *Scarus psittacus*  
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*Scarus mentalis* Val., 1840: *nomen dubium*  
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*Callyodon mutabilis* Gronow in Gray, 1854: *Scarus quoyi*  
*Scarus mutabilis* Lowe, 1838: *Sparisoma cretense*  
*Scarus naevius* Val., 1840: *Leptoscarus vaigiensis*  
*Pseudoscarus natalensis* Gilchrist & Thompson, 1909: *Scarus ghobban*  
*Scarus niger* Forsskål, 1775: *Scarus niger*  
*Pseudoscarus niger* var *viridis* Klunzinger, 1871: *Scarus niger*  
*Scarus nigrescens* Meek & Hildebrand, 1928: *Scarus vetula*  
*Scarus nigricans* Val., 1840: *Chlorurus sordidus*  
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*Scarus prasiognathos* Val., 1840: *Scarus prasiognathos*  
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*Scarus pyrrostethus* Richardson, 1846: *Scarus ghobban*  
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*Scarus quoyi* Bleeker, 1853: *Chlorurus bleekeri*  
*Scarus quoyi* Val., 1840: *Scarus quoyi*  
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*Scarus spilurus* Val., 1840: *Chlorurus sordidus*  
*Scarus spinidens* Guichenot, 1865: *Sparisoma rubripinne*  
*Scarus spinidens* Quoy & Gaimard, 1824: *Calotomus spinidens*  
*Pseudoscarus spinus* Kner, 1868: *Scarus spinus*  
*Scarus squalidus* Poey, 1860: *Sparisoma chrysopterum*  
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*Scarus strigatus* Günther, 1862: *Sparisoma strigatum*  
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*Scarus trispinosus* Val., 1840: *nomen dubium*  
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*Scarus vetula* Bloch & Schneider, 1801: *Scarus vetula*

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*Scarus viridescens* Rüppell, 1835: *Calotomus viridescens*  
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*Callyodon viridifucatus* Smith, 1956: *Scarus viridifucatus*  
*Scarus viridis* Bloch, 1790: *Chlorurus japonensis*  
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