

The University of the South Pacific

*Division of Marine Studies Technical Report*

No. 1/2010



# A Checklist of the Fishes of Fiji and a Bibliography of Fijian Fish

Johnson Seeto & Wayne J. Baldwin



© Johnson Seeto 2010

All rights reserved

No part to this publication may be reproduced or transmitted in any form or by any means without permission of the authors.

Design and Layout: Posa A. Skelton, BioNET-PACINET

ISBN: xxx

USP Library Cataloguing in Publication Data

Seeto, J., Baldwin, W.J.

A Checklist of the Fishes of Fiji and a Bibliography of Fijian Fishes. Division of Marine Studies  
Technical Report 1/2010. The University of the South Pacific. Suva, Fiji. 2010

102 p.: col. ill.; 27.9 cm

# A Checklist of the Fishes of Fiji and a Bibliography of Fijian Fish

Johnson Seeto & Wayne J. Baldwin



Division of Marine Studies  
School of Islands and Oceans  
Faculty of Science, Technology & Environment  
The University of the South Pacific  
Suva Campus  
Fiji

Technical Report  
1/2010  
February, 2010

## I. INTRODUCTION

The first book that described the Fijian fish fauna was written by Henry W. Fowler in 1959 and it covered 560 species. Carlson (1975) wrote a checklist of 575 Fijian fish species (107 families) based on collections he made with Mike Gawel, while setting up the University of the South Pacific Marine Reference collection.

This present checklist began in 1983 following Wayne Baldwin's attachment to study the tuna baitfish at the then Institute of Marine Resources in Suva, with funding from the University of Hawaii's Sea Grant Program. It was left alone for about 10 years and re-started in 1996 by the senior author to include numerous new records from surveys carried out by the Marine Studies Programme, the Institute of Marine Resources staff, overseas museum collecting trips and from other publications listing fishes from Fiji.

Myers (1991) lists 915 inshore fish species for Samoa, about 1000 species for New Caledonia and approximately 2000 species for Papua New Guinea. To date, this Fiji list covers 2304 fish species (2031 confirmed including 275 doubtful records) from 200 families (192 confirmed including 8 doubtful families). There are records to genus level only; these being not identifiable or possible new species so were put as unconfirmed unless its genus was unique. More new records are expected to be found in future surveys including new species. We are unable to authenticate all records of all the various authors but express our reservations that the fish may be wrongly identified or is not from this geographical area.

We also feel that our list of Fiji fishes is an optimistic count because of the inclusion of possibly wrongly identified fishes, fishes of uncertain status, and fish identified to genus level only. To balance this optimism, we know we have not listed all the Fiji fish. When we compare our fish list against detailed studies of a fish family (e.g. Pomacentridae by Allen 1991), our list is fairly complete. Allen (1991) lists 60 pomacentrids from Fiji (new species have been added since 1991) and we list 115 species of which 22 are doubtful. The various changes in fish names from the numerous reviews can make old records unreliable.

Previous scientific expeditions have collected fish in Fiji and they included the Challenger Expedition (Günther, 1889), which conducted a deep sea survey in Fiji; the Fiji-New Zealand Expedition (Nutting, 1924); the Templeton-Crocker Expedition to western Polynesia and Melanesia (Seale, 1935); the fish collected by the yacht "Alva" (Borodin, 1932); the Wilkes Expedition (Fowler, 1940a); the Crane Expedition (Herre, 1935); and the scientific expedition to the tropical Pacific on the steamer "Albatross" (Kendall and Goldsborough, 1911). Schmeltz (1867-1884) listed numerous new records of fish from Fiji in the Godeffroy Museum Catalogues. Günther (1857-1910) also listed many Fijian fishes. Other fish collections were reported by Boulenger (1897) on a collection of fish in Rotuma by J. Stanley Gardener; Jordan and Dickerson (1908) on a collection of fish from Fiji; Whitley (1927) reported on a checklist of the fishes of Fiji; Fowler (1932) listed fish obtained at Fiji; and Fowler (1955a) wrote about fish collected by Dr. and Mrs. Laird from Fiji. Fowler (1928) wrote about the fishes of Oceania with three additional supplements in 1931, 1934, and 1949. This major 1928 publication listed all Fijian fish records up until then.

Present day fish collections have included those of R. Winterbottom and A. Emery (1983) from the Royal Ontario Museum, Canada and V.G. Springer's team (1982) from the Smithsonian Institute, Washington. Their collection data are included here. Zug *et al.*, (1989) listed the vertebrates of Rotuma (including fish) after a visit in 1988; and Blaber *et al.*, (1993b) listed 355 species of fishes from their baitfish research in Fiji from 1991 to 1993. David Greenfield and his team from the University of Hawaii collected fish in Fiji in

May, 1999. IRD collected deepsea fauna from Fiji 5 years ago.

Fish identification has also been made from fish bones and archaeological evidence (Gifford, 1951; Best, 1984). Ladd (1945) also listed some fossil fish from Fiji.

Fiji lies approximately between 15°S and 22°S and from 175°E to 177°W. Geographically, Rotuma is included in Fiji, although Rotumans are Polynesians, whereas Fijians are predominantly Melanesians, except for the Lau Group to the south-east. This is an anomaly as Zug *et al.*, 1988 pointed out; Rotuma and Samoan fish have a similar affinity. There are species that are endemic to Rotuma and Fiji.

Minerva Reef to the South of Fiji is presently claimed by Tonga and Fiji. Ceva-i-ra to the South-west, marks the other south-western outpost. Cikobia marks the north-east boundary. Ono-i-lau and Vatoa mark the south-east end of Fiji. Collections in the Minerva Reef and Ceva-i-ra may show new affinities and possibly new species because of their isolation and cooler climate. Fishers are now longlining outside our EEZ e.g the deep water bluenose warehou (Centrolophidae: *Hyperoglyphe antarctica*) from between Fiji and NZ.

Many of these fish records were obtained from literature search by the authors. The University of Hawaii Sea Grant Program Advisory service staff member Peter Rappa and his assistants found Fiji fish publications in the beginning of this study and the PIMRIS staff of USP also contributed to the literature search.

The Fiji Times and its column Hook Line and Sinker by Rob Wright contributed to this checklist. Tony Lewis identified many new records during his term as Principal Fisheries Officer, Fiji Government and he also worked on numerous resource surveys of Lau, Rabi and Rotuma. He took photos of various Fijian fishes and pasted them on a wall in Fisheries Division, which included new records. Paddy Ryan (1980) worked on the freshwater and brackish fishes of Fiji.

The deep sea surveys of Raj and Seeto (1983) during their EEC project uncovered a few new species and many new records of deep sea fish and invertebrates. Mead's (1980) SPC deep sea fish survey also contributed to this list.

Other people have shared their fish records including Annet Ballou (Fulbright student) who looked at the Fijian parrotfish. Dr Suda of the vessel *Koyo Maru* in 1997 found a *Euprotomicrus bispinatus* shark near Solo Reef. The Sea Fire, a NZ trawler doing an exploratory fishing in Fiji in December 1997 found some new records of fish. ORSTOM staff from Noumea trawled the deep water of the Bligh Waters in August, 1998-1999 and found some deep sea fish. Dave Greenfield and colleagues from the University of Hawaii collected cryptic fish in Fiji with Jack Randall from early 1999 until 2003. The team collected in deepwater and they discovered many new species. David Boseto, a Solomon Islander, worked on the freshwater fishes of Fiji for his MSc thesis at USP under the guidance of Aaron Jenkins of Wetlands International and Patricia Kailola. They found seven possible new species of freshwater fishes and 15 new records for Fiji (Jenkins, 2003). Aaron Jenkins continues to survey Fiji rivers and freshwater systems in order to document our freshwater fish biodiversity. A UVC (Underwater Visual Census) project in 1995 carried out by the Fiji Fisheries Division, contributed information to this list. Randy Thaman has been obtaining deepsea fish specimens from the Fiji Fish Deep sea fishing trips since 2006. He obtained several new records and has donated up to 30 specimens to the Marine Collection at USP. He is documenting these fish with photos and biological/collection data.

Rick Winterbottom sent the senior author 591 Fiji fish names from the Royal Ontario Museum holdings in 1995. A list of 815 Fiji fish names were sent by Jeff Williams from the Smithsonian Museum holdings and Mark McGrouther did the same (495 names) from the Australian Museum in 1997. John Randall and Arnold Suzimoto sent the 395 Fiji fish names from the Bishop Museum holdings in 1998. The Bishop Museum list was unconfirmed and not intended for publication. It listed 12 new records which are not included in this publication. The British Museum had not put their fish list on the database so possible new records may be obtained once this takes place. Nick Dulvy from the United Kingdom gave me a list of the fishes he saw in southern Lau in 1999. John Pogonowski from the Australian Museum did a survey of freshwater fishes from Fiji in 2004 (data is included with Jenkins, 2003). David Boseto, USP student completed his Masters thesis in 2006 on the freshwater fish of selected Fiji streams and rivers.

There are about 41 endemic fish species from Fiji (approximately 2 % of the Fiji fish fauna) made up of 8 freshwater and 33 marine species. A webisted based on the World Fish Centre FishBase 2009 and Catalog of Fish 2009, listed 28 marine endemic fish from Fiji (<http://intreasures.com/fijimf.html>)

Fish species included in publications with a Western Pacific distribution, are not included here but fish with a circumtropical distribution are (with a rider to check) if the fish seemed out of place.

## II. METHOD AND MATERIALS

Only the first literature record of each fish was noted but all publications mentioning Fiji fish records have been included in the bibliography. One of the authors, Wayne Baldwin, began this checklist with the first record system and the publication had to be continued that way. While a single bibliographic record had shortened the report considerably, it would have been more desirable to include all references. Sighting by various divers are also noted. The index lists all the fish families and the number of confirmed species from Fiji. Unconfirmed records and erroneous records are also listed and are marked with an asterik in the text. Some fish fossils are also included this study.

Literature culls, newspaper reports, the USP Marine Reference collection and local fish markets, visiting ichthyologists, local fishers and researchers, and personal sampling has contributed to this Fijian fish list. World Fish Centre (ICLARM) Fishbase was also consulted in this study. This checklist may be incorporated into the World Fish Centre (ICLARM) Fishbase after it has been published. All fish names were checked against the Catalog of Fishes (Eschmeyer, 1998), or its continually updated website.

The senior author welcomes contributins from others in the quest to update and document the fish biodiversity of the Fiji Islands.

## III. FISH LIST (listing follows Nelson, 1976)

### AMPHIOXIUS

#### Branchiostomidae

*Amphioxides pelagicus* (Günther, 1888)

Schmeltz, 1869 (p. 29) (as *?Amphioxides lanceolatus* non Pallas)

*?Amphioxus* sp.

Caught by Remi Odense (University of Victoria, Canada) at Astrolabe Lagoon in 1993. Presently undescribed.

### SHARKS

#### Alopiidae (Thesher sharks)

*Alopias supercilliosus* (Lowe, 1841)

Johnson, 1978, p. 92; Raj and Seeto, 1984 (no page number) (as *A. vulpinus*); Nair, 2003, p. 62

*Alopias pelagicus* Nakamura, 1935

Last and Stevens, 1994, p. 155; Fishbase (2003); Nair, 2003, p. 62

*Alopias vulpinus* (Bonnaterre, 1788)

Johnson, 1978, p. 92; Last and Stevens, 1994, p. 158; Nair, 2003, p. 62

#### Carcharhinidae (Requiem sharks)

*Carcharhinus albimarginatus* (Rüppell, 1837)

Mead, 1980, pp. 9, 15; Earle, 2004, p.1

*Carcharhinus altimus* (Springer, 1950)

Lewis (n.d.). Fisheries photo.

*Carcharhinus amblyrhynchos* (Bleeker, 1856)

Mead, 1980, pp. 9, 15; Earle, 2004, p.1

*Carcharhinus cautus* (Whitley, 1945)

Blaber *et al.*, 1993b, p. 105

*Carcharhinus falciformis* (Bibron in Müller and Henle, 1839)

Emery and Winterbottom, 1983, p. 33 (as *C. menisorrah* Müller and Henle, 1839)

\**Carcharhinus galapagensis* (Snoggrass and Heller, 1905)

Lewis (n.d.). Fisheries photos. This species has not been reported from Fiji.

\**Carcharhinus gangeticus* Müller & Henle, 1839

Günther, 1870, p. 367 (as *Carcharias gangeticus*). It has not been confirmed.

*Carcharhinus leucas* (Valenciennes in Müller and Henle, 1839)

Günther, 1859 - 1870, 8, p. 367 (as *C. gangetica* non Müller and Henle.); Earle, 2004, p.1; Randall, 2005, p. 12

*Carcharhinus limbatus* (Valenciennes Müller and Henle, 1839)

Blaber *et al.*, 1993b, p. 105

*Carcharhinus longimanus* (Poey, 1861)

Jordan and Dickerson 1908 p. 603 (between Mary Island and Fiji) (as *Eulamia insularum*). Mary Island is in the Solomon Islands. Last and Stevens, 1994 p. 248; J Seeto (personally observed one being caught at FAD, off Suva 1988); Carpenter and Niem, 1998, Vol. 2, p. 1341

*Carcharhinus melanopterus* (Quoy and Gaimard, 1824)

Schmeltz, 1869 (p. 28) (as *Eulamia melanopterus*); Carpenter and Niem, 1998, Vol. 2, p. 1343; Earle, 2004, p.1

*Carcharhinus obscurus* (LeSueur, 1818)

Johnson, 1978, p. 92; Fishbase (2002), p. 1

*Carcharhinus plumbeus* (Nardo, 1827)

Chapman, Taumaia and Preston, 1984, p.15 (*Carcharhinus* sp. possibly *plumbeus*); Burgess *et al.*, 1988, p.39. Circumtropical. Lewis (n.d.) Fisheries photo; Fishbase (2002), p.1

*Carcharhinus sorrah* (Valenciennes Müller and Henle, 1839)

Fowler, 1959, p.15 (as *C. Spallanzani*)

*Galeocerdo cuvier* (Peron and LeSueur, 1822)

Fowler, 1928, 19 (as *Galeocerdo articus* Faber, 1829); Carpenter and Niem, 1998, vol. 2, p.1349

*Hemipristis serra* Agassiz, 1835

Ladd and Hoffmeister, 1945, p.384 (fossil)

*Negaprion acutidens* (Rüppell, 1837)

Richards *et al.*, 1994, p.57, referring to Lewis 1985a; Earle, 2004, p.1.

*Prionace glauca* (Linnaeus, 1758)

Johnson, 1978, p. 92 (?); Compagno, 1984, p. 522; Carpenter and Niem, 1998, Vol. 2, p. 1353; Nair, 2003. p. 61

**Echinorhinidae (Bramble sharks)**

\**Echinorhinus brucus* (Bonnaterre, 1788)

Johnson, 1978, p. 92; Nair, 2003, p. 62 (?). Doubtful species from Fiji.

*Echinorhinus cookei* (Pietschmann, 1928)

Caught from 350 m east side of Tonga passage (Vanuabalavu). Photo with George Lee of PWD. Caught by FFF or IKA Corp boat; Nair, 2003, p.62.

**Ginglymostomatidae (Nurse sharks)**

*Nebrius ferrugineus* (Lesson, 1831)

Carlson, 1975, p.1; Nair, 2003 p.62 (as *Nebrius concolor*); Earle, 2004, p.1

**Hemigaleidae (Weasel sharks)**

*Triaenodon obesus* (Rüppell, 1837)

Johnson, 1978, p.92; Mead, 1980, pp.9, 15; Carpenter and Niem, 1998, vol. 2, p.1358; Earle, 2004, p.1. Sometimes included under the requiem sharks (Carcharhinidae)

**Hexanchidae (Six and Seven-Gilled sharks)**

*Heptranchias perlo* (Bonnaterre, 1788)

Johnson, 1978, p.92; Anon., 1982a, p.71 (as *Heptranchus* sp.); JICA, 187, p.111 (Volume 2). Fiji or Tuvalu; Fishbase 2009, p.10

*Hexanchus griseus* (Bonnaterre, 1788)

Johnson, 1978, p.92; Mead, 1980, pp.9, 15; Nair, 2003, p.51

*Hexanchus vitulus* Springer and Waller, 1969

Raj and Seeto, 1984; Nair, 2003, p.62.

**Lamnidae (Mackerel or Mako sharks)**

*Carcharodon carcharias* Linnaeus, 1758

Johnson, 1993, p.92; Thompson, 1994, p.123 (picture 121); JICA,

1987, p.111 (Volume 2). Fiji or Tuvalu; Fishbase 2009, p.4

*Isurus hastalis* (Agassiz, 1835)

Ladd and Hoffmeister, 1945, p. 384 (fossil); Nair, 2003., p.62

*Isurus oxyrinchus* Rafinesque, 1810

Gifford, 1951, p. 206; Carpenter and Niem, 1998, Vol. 2, p. 1277

*Isurus paucus* Guitart-Manday, 1966

Brown, 1993, p. 92 Wide distribution; Nair, 2003, p. 62.

**Odontaspidae (Grey Nurse sharks)**

*Eugomphodus ferox* (Risso, 1810)

Burgess *et al.*, 1988, p.37. (as *Odontaspis ferox*) Circumtropical.

*Eugomphodus taurus* (Rafinesque, 1810)

Burgess *et al.*, 1988, p.37. (as *Odontaspis taurus*) Circumtropical.

**\*Orectolobidae (Wobbegongs)**

\**Hemiscyllium ocellatum* (Bonnaterre, 1788)

Turbett, 1940, p. 36. A questionable record for Fiji. The reported range is North Australia and New Guinea. Sometimes included under the family Hemiscyllidae.

**Pseudocarchariidae (Crocodile sharks)**

*Pseudocarcharias kamoharai* (Matsubara, 1936)

Last and Stevens, 1994 p. 151 (with a ?); Nair, 2003, p. 62

**Rhinodontidae (Whale sharks)**

*Rhincodon typus* Smith, 1828

Hornell, 1940, p. 28 (as *R. typicus*); Carpenter and Niem, 1998, Vol. 2, p. 1263

**Scyliorhinidae (Catsharks)**

*Cephaloscyllium* sp.

Raj, 1981 p. 10 (as *C. ventriosum* non Garman). Clinton Duffy of the Department of Conservation, NZ, Carl Struthers of Te Papa Museum, and Johnson Seeto strongly think this is a new species from Fiji.

\**Cephaloscyllium isabella* Whitley, 1932

Nair, 2003, p. 62 (this is a NZ species).

\**Cephaloscyllium umbratile* Jordan and Fowler, 1903

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

\**Galeus eastmani* (Jordan and Synder, 1904)

Chapman, Taumaia and Preston, 1984, p. 15. Reported only from the Western North Pacific by Compagno, 1984.

\**Parmaturus pilosus* Garman, 1906

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

**Sphyrnidae (Hammer sharks)**

*Sphyrna lewini* (Griffith and Smith, 1834)

Carlson, 1975, p. 1

\**Sphyrna mokarran* (Rüppell, 1837)

Raj *et al.*, 1982b, p. 20. One 2.7kg specimen was collected in Saweni Bay, Fiji. May be confused with *S. lewini* since the juveniles of these species closely resemble each other. Johnson, 1978, p. 92; Nair, 2003, p. 62. This species is probably not found from Fiji.

*Sphyrna zygaena* (Linnaeus, 1758)

Günther, 1859 - 1870, 8, p. 381 (as *Zygaena malleus* Val., 1822); Nair, 2003, p. 62

### Squalidae (Spiny dogfish).

Members are sometimes spilt into the families Centrophoridae and Dalatiidae.

*Centroscyllium granulatum* (Bloch and Schneider in Günther, 1881)

Johnson, 1978, p. 92; Nair, 2003, p. 62. JICA, 1987, p. 111 (Volume 1). Fiji or Tuvalu. (as *Centrophorus atromarginatus* Garman, 1913)

\**Centroscyllium* sp.

Richards *et al.*, 1994, p. 57; Nair, 2003, p. 62.

*Centrophorus moluccensis* Bleeker, 1860

Raj and Seeto, 1984, (as *C. scalpratus* non McCulloch, 1915); Nair, 2003, p. 62.

*Cirrhigaleus barbifer* Tanaka, 1912

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Fishbase (2002), p. 1; Nair, 2003, p. 64.

*Dalatias licha* (Bonnaterre, 1788)

Randy Thaman picture. Shark from Fiji Fish. Dated 11/11/2008.

*Etmopterus brachyurus* Smith and Radcliffe, 1912

Raj, 1981, p. 10 (as *Etmopterus lucifer* non Jordan and Synder, 1902); Nair, 2003, p. 62.

*Etmopterus lucifer* Jordan and Synder, 1902

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Fishbase (2002), p. 1.

\**Etmopterus pusillus* (Lowe, 1839)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

*Euprotomicrus bispinatus* (Quoy and Gaimard, 1824)

Johnson, 1978, p. 92; Last and Stevens, 1994, p. 86; Suda *et al.*, 1997, USP4582; Nair, 2003, p. 62.

*Isistius brasiliensis* (Quoy and Gaimard, 1824)

Jordan and Seale, 1906, p. 183; Carpenter and Niem, 1998, Vol. 2, p. 1228.

\**Squalus blainville* Risso, 1827

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly wrong identification. Fishbase (2002), p. 1.

*Squalus japonicus* Ishikawa, 1908

Raj and Seeto, 1984 (as *S. blainville*, non Risso, 1827); Nair, 2003, p. 62.

*Squalus megalops* Macleay, 1881

Raj and Seeto, 1984; Chapman, Taumaia and Preston, 1984, p. 15; Nair, 2003, p. 62.

*Squalus mitsukurii* Jordan and Synder, 1903

Burgess *et al.*, 1988, p.41. All Oceans; JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Fishbase (2002), p. 1.

*Squalus rancureli* (Fourmanoir and Rivaton, 1979)

Caught Kadavu Seamount-Kyo Maru trip (October 28 - Nov 1, 2006). Tim Pickering reference.

### Stegostomatidae (Zebra sharks)

*Stegostoma fasciatum* (Hermann, 1783)

Carlson, 1975, p. 1; Anon., ND, p. 16.

### Triakidae (Hound sharks)

*Hemitriakis japonica* (Müller and Henle, 1839)

Raj and Seeto, 1984; Nair, 2003, p. 62.

*Mustelus manazo* Bleeker, 1854

Raj and Seeto, 1984.

### RAYS

#### Dasyatidae (Stingrays)

*Dasyatis akajei* (Müller and Henle, 1841)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly an incorrect identification. Fishbase (2002), p. 1.

\**Dasyatis fluviorum* Ogilby, 1908

Lewis (n.d.) Fisheries photo. Doubtful.

*Dasyatis kuhli* (Müller and Henle, 1841)

Carlson, 1975, p. 2; Nimmerfroh, 2006, p. 43. Often known as *Amphotistius kuhli*.

\**Dasyatis pastinaca* (Linnaeus, 1758)

Thurston, 1881, p. 22. An Atlantic, Mediterranean, and Indian Ocean species erroneously listed for Fiji.

*Dasyatis violacea* (Bonaparte, 1832)

Last and Stevens, 1994, p. 397; Carpenter, K. E. and Niem, V. H. 1999a, p. 1505 (as *Pteroplatytryon violacea*)

*Pastinachus sephens* (Forsskål, 1775)

Rawlinson *et al.*, (n.d. ca 1995), p. 52. Last and Stevenson, 1994 say this species is not found in Fiji.

*Taeniura lymma* (Forsskål, 1775)

Schmeltz, 1869, p. 29 (as *Trygon halganii* Lesson, 1831); Nimmerfroh, 2006, p. 43.

*Taeniura meyeni* Muller and Henle, 1841

Nair, 2003, p. 62; Nimmerfroh, 2006, p. 243.

*Urogymnus asperrimus* (Bloch & Schneider, 1801)

Last and Stevens, 1994, p. 414; Allen *et al.*, 2003, p. 457; Randall, 2005, p. 20; Carpenter, K. E. and Niem, V. H. 1999a, p. 1497

*Urogymnus africanus?* (Bloch and Schneider, 1801)

J. Seeto, *pers. comm.* (photograph).

#### **Mobulidae (Manta or Devil rays)**

*Manta alfredi* Krefft, 1868

Inia, E. K *et al.*, 1998, p. 53.

*Manta birostris* (Donndorff, 1798) Walbaum, 1792

Anon., 1983b, p. 17; Carpenter, K. E. and Niem, V. H. 1999a, p. 1527.

*Mobula japonica* Müller & Henle 1841

Fishbase (2002), p. 1.

*Mobula tarapacana* (Philippi, 1893)

Reported by fishers at Nabukalou Creek, 2007, Suva.

#### **Myliobatidae (Eagle rays)**

*Aetobatus narinari* (Euphrasen, 1790)

Gifford, 1951, p. 207; Carpenter, K. E. and Niem, V. H. 1999a, p. 1516; Nimmerfroh, 2006, p. 243.

#### **Pristidae**

*Pristis zijsron* Bleeker, 1851 (sawfish)

McGrouter, 1997, p. 8. Carpenter, K. E. and Niem, V. H. 1999a, p. 1417 say this is found from Asia to PNG, and Northern Australia.

*Pristis* sp.

<http://collections.museumvictoria.com.au/object.php?irn=101322&QueryPage=>

#### **Rhionobatidae (Guitarfishes)**

*Rhinobatus batillum* Whitley, 1939

Blaber *et al.*, 1993b, p. 109.

*Rhynchobatus djiddensis* (Forsskål, 1775)

Carlson, 1975, p. 3; Allen *et al.*, 2003, p. 455

#### **Urolophidae (Stingarees)**

*Plesiobatis daviesi* (Wallace, 1967)

JICA, 1987, p. 111 (Volume 2) (as *Urotryon daviesi*). Fiji or Tuvalu. Fishbase (2002), p. 1; Nair, 2003, p. 64. Sometimes included in Plesiobatidae.

#### **GHOST SHARKS**

##### **Chimaeridae (Ghost shark)**

*Chimaera phantasma* Jordan and Snyder, 1900

Raj and Seeto, 1984; [www.mbari.org/.../fijilau/images/A\\_rat\\_fish.jpg](http://www.mbari.org/.../fijilau/images/A_rat_fish.jpg); Nair, 2003. p. 63 (as *Chimaera* sp)

#### **BONY FISHES**

##### **Albulidae (Bonefish)**

*Albula forsteri* Valenciennes in Cuvier and Valenciennes, 1847  
Fishbase 2009, p. 1

*Albula glossodonta* (Forsskål, 1775)

Boseto, 2005, p. 198

*Albula vulpines* Linnaeus, 1758

Fowler, 1959, p. 570 *Albula neoguinaica* Val. 1847, *Albula glossodonta* (Forsskål, 1775) and *Albula argentea* (Forster in Bloch and Schneider, 1801) are synonyms of *Albula vulpines*.

##### **Ammodytidae**

*Ammodytes* sp.

Zug *et al.*, 1988, p. 5

##### **Elopidae (Ten Pounders)**

*Elops hawaiiensis* (Forsskål, 1775)

Whitley, 1927a. p.3; Carpenter, K.E. and Niem, V.H. 1999a, p. 1620

\**Elops saurus* Linnaeus, 1766

Lewis (n.d.) Fisheries photo. (not found in Fiji says Randall, 2005)

##### **Chirocentridae (Wolf herring)**

*Chirocentrus dorab* (Forsskål, 1775)

Fowler, 1928, p. 28; Boseto, 2005, p. 198

##### **Clupeidae (Sardines) including Dussumieridae**

*Amblygaster clupeoides* (Bleeker, 1849)

Anon., 1980, p. 41

\**Amblygaster leiogaster* (Valenciennes, 1847)

Kearney, 1982, p. 6. This is a doubtful record because Whitehead, 1985 shows this species to be distributed from Africa to NW Australia and Southern Japan.

*Amblygaster sirm* (Walbaum, 1792)

Lee, 1973, pp. 28, 29; Randall, 2005, p. 55

\**Dussumiera acuta* Valenciennes, 1847

Lee, 1973, p. 28. Not found in Fiji according to Whitehead, 1985. The species likely to be found in Fiji is *Dussumiera elopsoides* Bleeker, 1849.

*Dussumiera elopsoides* Bleeker, 1849

Whitehead, 1985 says this species is likely to be found in Fiji and not *Dussumiera acuta* as often reported.

\**Dussumiera* species 'A'

Lewis *et al.*, 1983c. p. 23

\**Dussumiera* species "B"

Lewis *et al.*, 1983c. p. 23

*Dussumiera* sp (new)



Randall, 2005, p. 56

\**Dayella* sp

Williams, 1997, p. 6

\**Etrumeus teres* (De Kay, 1842)

Burgess *et al.*, 1988, p.66. Circumtropical. Needs confirmation. Found in New York.

*Herklotsichthys quadrimaculatus* (Rüppell, 1837)

Kendall and Goldsborough, 1911 p. 243 (as *Herangula kunzei* Bleeker, 1856). Richards *et al.*, 1994, p. 3 (as *Clupea venenosa* Valenciennes, 1847) (referring to 'daniva' which is *Herklotsichthys quadrimaculatus*) and citing Banner and Helfrich (1964); Randall, 2005, p. 55.

*Herklotsichthys* sp.

Blaber *et al.*, 1993b, p. 106 (different from immediately above).

\**Hilsa kelee* (Cuvier, 1829)

Fischer and Whitehead, 1974, Vol. I. Doubtful record for Fiji.

\**Pellona* sp.

Hornell, 1950, p. 142. An unsubstantiated record for Fiji.

*Potamalosa richmondi* (Macleay, 1879)

Fowler, 1949, p. 640 (introduced). According to Andrews (1985, p. 76) this introduction apparently failed to survive.

\**Sardina pilchardus* (Walbaum, 1792)

Thurston, 1881, p. 21. (as *Clupea sardina* Risso, 1827). This is an old name for the European pilchard. *Sardina pilchardus*, according to P.J.P. Whitehead (*pers. comm.*) - an erroneous listing for Fiji that probably refers to *Sardinella* sp.

*Sardinella fijiense* (Fowler and Bean, 1923)

Fowler and Bean, 1923, p. 2. (as *Harengula fijiense*) (type locality); Randall, 2005, p. 55.

\**Sardinella fimbriata* (Valenciennes, 1847)

Whitley, 1927, p. 4. May be a doubtful species. Whitehead, 1985 show this species is found from India to PNG.

\**Sardinella jussieu* (Valenciennes, 1847)

Günther, 1880, p. 36 (as *Clupea tembang* Bleeker, 1851). A doubtful record as this species is only found off Mauritius, India, Sri Lanka and Madagascar (Whitehead, 1985).

*Sardinella melanura* (Cuvier, 1829)

Kendall and Goldsborough, 1911, p. 244 (as *Harengula commersonii* Val., 1847); Randall, 2005, p. 56

*Spratelloides delicatulus* (Bennett, 1832)

Herre, 1936, p. 32 (as *Stolephorus delicatulus*)

*Spratelloides gracilis* (Temminck and Schlegel, 1846)

Schmeltz, 1874, p. 59 (as *Stolephorus japonicus* Regan, 1917). Pöhl,

1884, p. 39.

### Engraulidae (Anchovies)

\**Amentum* sp

McGrouter, 1997, p. 1

*Encrasicholina devisi* (Whitley, 1940)

Carlson, 1975, p. 3 (as *Stolephorus devisi*); Randall, 2005, p. 58

*Encrasicholina heteroloba* (Rüppell, 1837)

Herre, 1936, p. 34 (as *Engraulis heterolobus*)

*Encrasicholina punctifer* (Fowler, 1938)

Herre, 1936, p. 35 (as *Engraulis zollingeri*). Fischer and Whitehead, 1974, Vol II. (as *Stolephorus buccaneeri* Strasburg, 1960)

*Stolephorus apiensis* (Jordan and Seale, 1906)

Herre, 1936, p. 34 (as *Engraulis apiensis*); Randall, 2005, p. 58

*Stolephorus indicus* (Van Hasselt, 1823)

Lee, 1973, pp. 28, 29; Boseto, 2005, p. 198

*Stolephorus oligobranchus* Wongratana, 1983

Lewis *et al.*, 1983c, p. 14

*Stolephorus waitei* Jordan and Seale, 1926

Kearney, 1978, p. 7 (as *S. bataviensis* Hardenberg, 1933)

*Thryssa baelama* (Forsskål, 1775)

Seale, 1935, p. 340, (as *Anchovia evermanni* Jordan and Seale, 1906); Randall, 2005, p. 59

\**Thryssa setirostris* (Broussonet, 1782)

Fischer and Whitehead, 1974, Vol. II. A doubtful record for Fiji.

### Chanidae (Milkfish)

*Chanos chanos* (Forsskål, 1775)

Schmeltz, 1869, p. 25 (as *Chanos orientalis*)

### Salmonidae (Salmon and Trout)

*Salmo gairdneri* Richardson, 1836

Anon., 1924, p. 1. There is some confusion as to whether Rainbow trout or Brown trout was introduced to Fiji. Andrews (1985) says it is the brown trout *Salmo trutta* but older reports say it was the rainbow trout *S. gairdneri*. Lewis and Pring (1986) agreed with Andrews (1985); a record that is included in Fishbase 2009, p. 16. We may never know because it never became established here.

### Gonostomatidae (Lightfish)

*Cyclothone alba* Brauer, 1906

Mukhacheva, 1966, p. 101

*Cyclothone pallida* Brauer, 1902

Mukhacheva, 1966, p. 113

*Gonostoma elongatum* Günther, 1878  
Burgess *et al.*, 1988, p.70. Circumtropical.

#### **Astronesthidae (Snaggletooths)**

\**Astronestides* sp.

JICA, 1987, p. 111 (Volume 1). Fiji or Tuvalu.

#### **Plotosidae (Marine catfish)**

*Plotosus lineatus* (Thunberg, 1787)

Günther, 1859 - 1870, 5, p. 24 (as *P. anguillaris* Bloch, 1794);  
Nimmerfroh, 2006, p. 26

*Plotosus canius* Buchanan-Hamilton, 1882

Schmeltz, 1879, p. 56

#### **Belonidae (Long Toms)**

*Ablennes hians* (Valenciennes, 1846)

Seale, 1935, p. 345 (as *Athlennes hians*)

*Platybelone argalus platyura* (Bennett, 1832)

Whitley, 1927a, p. 4. (as *Platybelone argalus platyura*)

*Strongylura auloceps* Fowler and Bean, 1923

Fowler and Bean, 1923, p. 12

*Strongylura fijiensis* Fowler and Bean, 1923

Fowler and Bean, 1923, p. 13

*Strongylura incisa* (Valenciennes, 1846)

Fowler, 1929, p. 4

*Strongylura leiura* (Bleeker, 1850)

Randall, Allen and Steene, 1990, p. 58; Myers, 1991, p. 72 (as  
*Strongylura leiura leiura*)

*Tylosurus acus* (Lacépède, 1803)

Blaber *et al.*, 1993a, p. 53; Blaber *et al.*, 1993b, p. 105

*Tylosurus indicus* (Peron and Lesueur, 1821)

Günther, 1880, p. 36 (as *Belone annulata* Val., 1846)

*Tylosurus crocodilus crocodilus* (Peron and Lesueur, 1821)

Thurston, 1881, p. 21 (as *Esox belone*)

#### **Exocoetidae (Flying fish)**

*Cheilopogon atrisignis* (Jenkins, 1904)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2169

*Cheilopogon dorsomacula* (Fowler, 1944)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2170

*Cheilopogon rapanouiensis* Parin 1961

Fishbase, 2002, p. 2

*Cheilopogon spilonopterus* (Bleeker, 1866)

Whitley, 1927a, p. 4 (as *Cypselurus spilonopterus*). Fowler, 1931  
calls this species *Cypselurus bahiensis* Ranzani, 1842.

*Cheilopogon spilopterus* (Valenciennes, 1846)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2172

*Cheilopogon suttoni* (Whitley and Colefax, 1938)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2173

*Cheilopogon unicolor* (Valenciennes, 1846)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2173

*Cypselurus angusticeps* Nichols and Breder, 1935

Carpenter, K. E. and Niem, V. H. 1999b, p. 2173

*Cypselurus bilobatus* Weber and de Beaufort, 1922

Seale, 1935, p. 347

*Cypselurus furcatus* (Mitchill, 1815)

Fowler, 1949, p. 58 An Atlantic species erroneously listed from Fiji.  
However, Carpenter, K. E. and Niem, V. H. 1999b, p. 2170 list it.

*Cypselurus naresii* (Günther, 1889)

Günther, 1889, p. 36

*Cypselurus poecilopterus* Cuvier and Valenciennes, 1847

N.V. Parin 1985 *pers. comm.*; Carpenter, K. E. and Niem, V. H.  
1999b, p. 2175

\**Cypselurus simus* (Cuvier and Valenciennes, 1847)

Jordan and Synder, 1908, p. 604 (as *C. ogilbyi* Jordan and Synder,  
1908). This was included in Fiji by Whitley, 1927a, p. 4 but the  
collection locality given by the former authors was 'west of  
Wapole Island'; which is located approximately 1,000 kilometers  
south-west of Fiji.

*Cypselurus zaca* Seale, 1935

Seale, 1935, p. 349

*Danaichthys rondeletii* (Valenciennes, 1847)

Herre, 1936, p. 55 (as *Cypselurus rondeletti*)

*Exocoetus monocirrhus* (Richardson, 1846)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2176

*Exocoetus obtusirostris* Günther, 1866

N.V. Parin, 1985, *pers. comm.*; Carpenter, K. E. and Niem, V. H.  
1999b, p. 2176

*Exocoetus volitans* Linnaeus, 1758

Thurston, 1881, p. 21; Carpenter, K. E. and Niem, V. H. 1999b, p.  
2176

*Hirundichthys oxycephalus* (Bleeker, 1852)

Fowler, 1934, p. 393 (as *Cypselurus oxycephalus*)

*Hirundichthys speculiger* (Cuvier and Valenciennes, 1847)

Fowler, 1949, p. 59

*Oxyporhamphus argenteus* (Bennett, 1840)

Fowler, 1949, p. 57

*Oxyporhamphus micropterus micropterus* (Valenciennes, 1847)

Seale, 1935, p. 347 (as *Evolantia microptera*)

*Parexocoetus brachypterus* (Richardson, 1846)

Seale, 1935, p. 347

*Parexocoetus mento mento* (Cuvier and Valenciennes, 1847)

Fishbase. 10-June-1996; Nair, 2003, p. 61 (as *P. mento*).

*Prognichthys brevipinnis* (Valenciennes, 1847)

Fishbase. 10-June-1996.

*Prognichthys sealei* Abe, 1955

Parin, 1968, p. 86

#### **Balistidae (Trigger fish)**

*Abalistes stellaris* (Bloch and Schneider, 1801)

Fishbase 2009, p. 1

*Abalistes stellatus* (Anonymous, 1798)

Günther, 1860, p. 36 (as *Balistes stellatus*); Carpenter and Niem, 2001 (Volume 6), p. 3918; Allen *et al.*, 2003, p. 404; www.fishbase.org (21/5/03) as (*A stellaris* Bloch and Schneider, 1801); Randall, 2005, p. 619

*Balistapus undulatus* (Mungo Park, 1797)

Schmeltz, 1869, p. 28 (as *Balistes lineatus* Bloch and Schneider, 1801); Boulenger, 1897, p. 374 (as *Balistes undulatus*); Carpenter and Niem, 2001 (Volume 6), p. 3919; Earle, 2004, p. 7

*Balistooides conspicillum* (Bloch and Schneider, 1801)

Günther, 1910, 9, p. 441 (as *Balistes conspicillum*); Carpenter and Niem, 2001 (Volume 6), p. 3920; Earle, 2004, p. 7

*Balistooides viridescens* (Bloch and Schneider, 1801)

Herre, 1936, p. 421; Carpenter and Niem, 2001 (Volume 6), p. 3921; Earle, 2004, p. 7

*Canthidermis maculatus* (Bloch, 1786)

Johnson Seeto. Photo of fish from the FAD off Suva 1983; Carpenter and Niem, 2001 (Volume 6), p. 3924.

\**Canthidermis* sp.

Carlson, 1975, p. 74

*Melichthys niger* (Bloch, 1768)

Carpenter and Niem, 2001 (Volume 6), p. 3924

*Melichthys vidua* (Solander, 1844) Richardson, 1845

Zug *et al.*, 1988, p. 6; Carpenter and Niem, 2001 (Volume 6), p. 3924; Earle, 2004, p. 7

*Odonus niger* (Rüppell, 1836)

Richards *et al.*, 1994, p. 33; Carpenter and Niem, 2001 (Volume 6), p. 3925; Earle, 2004, p. 7

*Pseudobalistes flavimarginatus* (Rüppell, 1829)

Fowler, 1928, p. 452 (as *Balistes flavimarginatus*); Carpenter and Niem, 2001 (Volume 6), p. 3922

*Pseudobalistes fuscus* (Bloch and Schneider, 1801)

Günther, 1880, p. 36 (as *Balistes fuscus*); Carpenter and Niem, 2001 (Volume 6), p. 3923

*Rhinecanthus aculeatus* (Linnaeus, 1758)

Schmeltz, 1869, p. 28 (as *Balistes aculeatus*); Carpenter and Niem, 2001 (Volume 6), p. 3925; Boseto, 2005, p. 198

*Rhinecanthus lunula* Randall and Steene, 1983

Carlson, 1985, *pers. comm.*

*Rhinecanthus rectangulus* (Bloch and Schneider, 1801)

Schmeltz, 1869, p. 28; Carpenter and Niem, 2001 (Volume 6), p. 3925; Earle, 2004, p. 7

*Rhinecanthus verrucosa* (Linnaeus, 1758)

Emery and Winterbottom, 1983, p. 27 (as *Balistapus viridus*)

*Sufflamen albicaudatus* (Ruppell, 1829 )

Brown, 2006, p. 48

*Sufflamen bursa* (Bloch and Schneider, 1801)

Schmeltz, 1869, p. 28 (as *Balistes bursa*); Carpenter and Niem, 2001 (Volume 6), p. 3925; Earle, 2004, p. 7

*Sufflamen chrysoptera* (Bloch and Schneider, 1801)

Fowler, 1940, p. 797; Carpenter and Niem, 2001 (Volume 6), p. 3925 (as *S. chrysoptera*); Nair, 2003, p. 49 (as *S. chrysoptera*)

*Sufflamen fraenatus* (Latreille, 1804)

Fowler, 1940, p. 797; Carpenter and Niem, 2001 (Volume 6), p. 3925

*Xanthichthys auromarginatus* (Bennett, 1831)

Carpenter and Niem, 2001 (Volume 6), p. 3925

*Xanthichthys caeruleolineatus* (Randall, Matsuura, and Zama, 1978)

Carpenter and Niem, 2001 (Volume 6), p. 3927

*Xanthichthys mento* (Jordan and Gilbert, 1882)

Fowler, 1928, p. 451 (as *Balistes ringens*, non Linnaeus). See *Bull Mar Sci* 28(4): 688-706.

#### **Cichlidae (Mouth brooders and Freshwater angelfishes)**

*Oreochromis aureus* (Steindachner, 1864)

Anon., 1976, p. 31 (introduced)

*Oreochromis mossambicus* (Peters, 1852)  
Payne *et al.*, 1954, p. 71 - 76 (introduced)

*Oreochromis nilotica* (Linnaeus, 1758)  
Popper, 1977, p. 8 (introduced); Nair, 2003, p. 47 and 64 (as  
*Oreochromis niloticus niloticus*)

*Oreochromis hornorum* (Trewavas, 1966)  
Richards *et al.*, 1994, p. 64 (introduced)

*Oreochromis urolepis urolepis* (Norman, 1922)  
Fishbase-10-June-1996 (introduced)

*Oreochromis urolepis hornorum* (Norman, 1922)  
Nair, 2003, p. 47; Fishbase 2009, p. 13

*Pterophyllum scalare* (Cuvier in Cuvier and Valenciennes, 1831)  
J. Seeto's aquarium (introduced);

*Tilapia zilli* (Gervias, 1848)  
Philippart and Ruwet, 1982 p. 30 (introduced)

#### **Chlorophthalmidae**

*Chlorophthalmus agassizi* Bonaparte, 1840  
Günther, 1887, p. 193 (as *Chlorophthalmus productus* Günther, 1887)

#### **Hemirhamphidae (Garfish)**

*Hemirhamphus far* (Forsskål, 1775)  
Günther, 1880, p. 36 (as *H. commersonii* Cuvier, 1829)

*Hyporhamphus affinis* (Günther, 1866)  
Williams, 1997, p. 10

*Hyporhamphus dussumieri* (Cuvier and Valenciennes, 1847)  
Günther, 1873 - 1910, 8, p. 354; Gunther, 1866 (as *H laticeps*  
Gunther, 1866); Randall, 2005, p. 84; Boseto, 2005, p. 198

\**Hyporhamphus* sp  
Williams, 1997, p. 10

*Oxyrhamphus micropterus micropterus* (Valenciennes, 1846)  
Carpenter, K. E. and Niem, V. H. 1999b, p. 2196

*Zenarchopterus buffonis* (Valenciennes, 1847)  
Garman, 1903, p. 239 (as *Z. maculosus* Garman, 1903)

*Zenarchopterus dispar* (Valenciennes, 1847)  
Günther, 1873 - 1910, 8, p. 358

*Zenarchopterus gilli* Smith, 1945  
Ryan, 1980, p. 61

#### **Myctophidae (Lantern fish)**

*Benthoosema fibulatum* (Gilbert and Cramer, 1897)

Fishbase, 10-June-1996.

*Benthoosema suborbitale* (Gilbert, 1913)  
Carpenter, K. E. and Niem, V. H. 1999a, p. 1965

*Centrobranchus choerocephalus* Fowler, 1904  
Bekker, 1966, p. 64

*Centrobranchus nigroocellatus* Günther, 1873  
Williams, 1997, p. 4

*Diaphus agassizi* Gilbert, 1908  
Günther, 1887, p. 198 (as *Myctophum dumerilii* non Bleeker)

*Diaphus anderseni* Taaning, 1932  
Taaning, 1932, p. 134 (SW of Fiji at Lat: 20°S, Long: 174° 29'W)

*Gonichthys* sp.  
Williams, 1997, p. 9

*Lampanyctus tenuiformis* Braeur, 1906  
N.V. Parin, 1985, *pers. comm.*

*Myctophum brachygnathum* (Bleeker, 1856)  
N.V. Parin, 1985, *pers. comm.*

*Myctophum nitidulum* Garman, 1899  
N.V. Parin, 1985, *pers. comm.*

*Myctophum punctatum* Rafinesque, 1810  
Fowler, 1928, p. 70

*Myctophum spinosum* (Steindachner, 1867)  
Carlson, 1975, p. 85

*Symbolophorus evermanni* (Gilbert, 1905)  
Seale, 1935, p. 344 (as *Myctophum evermanni*)

\**Symbolophorus* sp  
Williams, 1997, p. 17

*Trichoturus nigrescens* Brauer, 1904  
N.V. Parin, 1985, *pers. comm.*

#### **Paralepididae (Barracudinas)**

*Stemonosudis elongate* (Ege, 1933)  
Fishbase 2009, p. 18

#### **Omosudidae**

*Omosudis lowei* Günther, 1887  
Ege, 1958, p. 4

#### **Cyprinidae (Carps)**

*Aristichthys nobilis* (Richardson, 1845)

Adams and Titoka, 1970, p. 43 (introduced); Fishbase 2009, p. 10 (as *Hypophthalmichthys nobilis*)

*Carassius auratus* (Linnaeus, 1758)

J. Seeto aquarium (introduced)

*Ctenopharyngodon idella* (Valenciennes, 1844)

Mitchell, 1978, p. 1 (introduced)

*Cyprinus carpio* Linnaeus, 1758

Bass-Becking, 1950, (introduced) Common carp. J. Seeto, *pers comm* (koi was first introduced into the Sheraton Hotel foyer). Nair, 2003, p. 47; Nair, 2003, p. 64 (as *Cyprinus carpio carpio*); Fishbase 2009, p. 6 (as *Cyprinus carpio carpio*)

*Hypophthalmichthys molitrix* (Valenciennes, 1844)

Adams and Titoka, 1970, p. 43 (introduced); Fishbase 2009, p. 10

*Pseudorasbora parva* Temminck and Schlegel, 1846

Wellcome, 1988, (introduced) (cited in ICLARM Fish Base); Nair, 2003, p. 47

*Puntius gonionotus* (Bleeker, 1850)

Pillay, 1971, p. 14 (introduced); Anon, 1971, p. 29 (introduced); Nair, 2003, p. 47 and 65 (as *Barbonymus gonionotus*); Also known as *Barbodes gonionotus*.

\**Rasborella dubia* Fowler and Bean, 1923

Fowler and Bean, 1923, p. 17. Incorrectly listed from Fiji.

*Rhodeus ocellatus* (Kner, 1866)

Wellcome, 1988, (introduced) (cited in ICLARM Fish Base); Nair, 2003, p. 47 (as *Rhodeus ocellatus ocellatus*); Fishbase 2009, p. 16 (as *R. ocellatus ocellatus*).

#### **Ictaluridae (Channel Catfish)**

*Ictalurus punctatus* (Rafinesque, 1818)

Jansen et al., 1990, p. 403 (introduced as aquaria fish)

#### **Poeciliidae (Mollies and Guppies)**

*Gambusia affinis affinis* Lindberg, 1934

Ryan, 1980, p. 68 (introduced)

*Gambusia holbrooki* (Girard, 1859)

Jenkins, 2003

*Poecilia latipinna* LeSueur, 1821

Introduced as aquarium fish (Black mollies)

*Poecilia mexicana* Steindachner, 1863

Carlson, 1975, p. 11 (introduced)

*Poecilia reticulata* (Peters, 1860)

Cavuilati, 1980, p. 19 (introduced); Ryan, 1980, p. 67 (introduced)

*Xiphophorus helleri* Heckel, 1848

Ryan, 1980, p. 67 (introduced)

*Xiphophorus maculatus* Günther, 1866

Introduced as aquarium fish (platys)

#### **Characidae (Neon Tetras)**

*Paracheirodon innesi* Myers, 1936

J. Seeto. Introduced as aquarium fish.

#### **Bregmacerotidae**

*Bregmaceros atripinnis* Tickell, 1865

Herre, 1936 (p. 56)

*Bregmaceros japonicus* Tanaka, 1908

D'Ancona and Cavinato, 1965, p. 65

*Bregmaceros mccllellandi* Thompson, 1840

Herre, 1936, p. 56

*Bregmaceros nectabanus* Whitley, 1941

D'Ancona and Cavinato, 1965, p. 47

#### **Macrouridae**

*Abyssicola macrochir* (Günther, 1877)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

*Coryphaenoides murrayi* Günther 1878

Fishbase (2002), p. 2

*Hymenocephalus longibarbis* (Günther, 1887)

Günther, 1887, p. 139

*Lionurus microlepis* (Günther, 1878)

Günther, 1878, p. 26 (as *Macrurus microlepis*); Fishbase (2002), p. 2 (as *Lucigadus microlepis*).

#### **Moridae**

*Physiculus* sp.

Hayasaska *et al.*, 1984, p. 81; Raj and Seeto, 1984.

*Physiculus jordani* (Böhlke and Mead, 1951)

Raj and Seeto, 1984.

*Physiculus natalensis* (Gilchrist, 1922)

Raj and Seeto, 1984.

#### **Lampridae (Opahs)**

*Lampris guttatus* (Brünnich, 1788)

Carlson, 1975, p. 86 (as *L. regius*)

#### **Regalecidae (Oar fish)**

*Regalecus glesne* Ascanius, 1772

Burgess *et al.*, 1988, p.103. Circumtropical.

**Berycidae (Alfonsids)**

*Beryx splendens* Lowe, 1834

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Graham Southwick Deep sea fish catch; Fishbase, 2002, p. 2

*Beryx decadactylus* Cuvier in Cuvier and Valenciennes, 1829

Deep sea fish catch; JICA, 1987, p. 111 (Vol 2). Fiji or Tuvalu; Burgess *et al.*, 1988, p.249 (Cosmopolitan); Fishbase, 2002, p. 2

*Centroberyx druzhinini* (Busakhin, 1981)

Exploratory fishing Sea Fire (NZ) (Lau Basin, December, 1997). MSP photo. Was identified as *Centroberyx* sp (Masuda *et al.*, 1975, p. 29C. cf *C. lineatus*.)

**Holocentridae (Soldierfishes and Squirrelfishes)**

*Myripristis adjusta* Bleeker, 1853

Blaber *et al.*, 1993b, p. 106; Milton, Rawlinson, and Sesewa, 1993, p. 95; Carpenter and Niem, 1999, Vol. 4, p. 2236

*Myripristis amaena* (Castelnau, 1873)

Lewis (n.d.) Fisheries Photo.; McGrouter, 1997, p. 7 (as *M. amaneus*)

*Myripristis berndti* (Jordan and Evermann, 1903)

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Chapman, Taumaia and Preston, 1984, p. 15; Carpenter and Niem, 1999, Vol. 4, p. 2238; Earle, 2004, p.1

*Myripristis hexagona* (Lacépède, 1802)

Whitley, 1927a, p. 4 (as *M. hexagonus*); Carpenter and Niem, 1999, Vol. 4, p. 2254; Earle, 2004, p.1; Randall, 2005, p. 89

*Mypristis kuntee* (Valenciennes in Cuvier and Valenciennes, 1831)

Zug *et al.*, 1988, p. 10; Royal Ontario Museum Records (Great Astrolabe Reef Collection); McGrouter, 1997, p. 7 (as *M. borbonicus* Val., 1831); Carpenter and Niem, 1999, Vol. 4, p. 2241; Earle, 2004, p.1

*Myripristis murdjan* (Forsskål, 1775)

Günther, 1880, p. 34; Carpenter and Niem, 1999, Vol. 4, p. 2242; Earle, 2004, p.1

*Myripristis pralinia* Cuvier, 1829

Carlson, 1975, p. 13 (as *M. pralinus*); Carpenter and Niem, 1999, Vol. 4, p. 2254; Earle, 2004, p.1

*Myripristis violacea* Bleeker, 1851

Greenfield, 1974, p. 13 (as *M. violaceus*); Carpenter and Niem, 1999, Vol. 4, p. 2243; Earle, 2004, p.1

*Myripristis vittata* Valenciennes in Cuvier and Valenciennes, 1831

Randall, 1986, p. 183 (as *M. vittatus*); Carpenter and Niem, 1999, Vol. 4, p. 2255; Earle, 2004, p.1

*Neoniphon argenteus* (Valenciennes, 1831)

Blaber *et al.*, 1993a, p. 53; Blaber *et al.*, 1993b, p. 106; Milton, Rawlinson, and Sesewa, 1993, p. 95

*Neoniphon aurolineatus* (Liènard, 1839)

Blaber *et al.*, 1993b, p. 106; Milton, Rawlinson, and Sesewa, 1993, p. 95

*Neoniphon opercularis* (Valenciennes, 1831)

Carlson, 1975, p. 13 (?); Carpenter and Niem, 1999, Vol. 4, p. 2244

*Neoniphon sammara* (Forsskål, 1775)

Kner, 1868, p. 29 (as *Holocentrus tahiticum*); Carpenter and Niem, 1999, Vol. 4, p. 2245; Earle, 2004, p.1

*Ostichthys archiepiscopus* (Valenciennes, 1862)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Fishbase, 2002, p. 2

*Ostichthys japonicus* (Cuvier 1829),

Fishbase, 2002, p. 3

*Ostichthys kaianus* (Günther, 1880)

Raj and Seeto, 1984.

*Plectrypops lima* (Valenciennes, 1831)

Carlson, 1975, p. 13

\**Sargocentron brachyrhynchus* (Bleeker, 1853)

Boulenger, 1897, p. 372. An unassigned name? also known as *Rhynchichthys brachyrhynchus* Bleeker, 1853

*Sargocentron caudomaculatum* (Rüppell, 1838)

Emery and Winterbottom, 1983, pp. 18, 30; Lewis (n.d.) Fisheries photo (as *Sargocentron andamensis* Day, 1870); Carpenter and Niem, 1999, Vol. 4, p. 2249

*Sargocentron cornutum* (Bleeker, 1853)

Carlson, 1975, see addendum to 1975 checklist #74

*Sargocentron diadema* (Lacépède, 1802)

Günther, 1859 - 1870, 1, p. 42; Earle, 2004, p.1

*Sargocentron iota* Randall, 1998

Randall, 1998, pp. 36, 38; Randall, 2005, p. 95

*Sargocentron lepros* (Allen and Cross, 1983)

Zug *et al.*, 1988, p. 10; Randall, 2005, p. 95 (Rotuma)

*Sargocentron melanospilos* (Bleeker, 1858)

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Sargocentron microstoma* (Günther, 1859)

Boulenger, 1897, p. 372 (as *S. microstomun*); Earle, 2004, p.1

*Sargocentron praslin* (Lacépède, 1802)

Randall, 1998, pp. 60, 63; Carpenter and Niem, 1999, Vol. 4, p. 2250

*Sargocentron punctatissimum* (Cuvier, 1829)

Boulenger, 1897, p. 372 (as *Holocentrum diploxiphus*) and later called *S. lacteoguttatum* (Cuvier, 1829)

*Sargocentron rubrum* (Forsskål, 1775)

Kner, 1868, p. 296

*Sargocentron spiniferum* (Forsskål, 1775)

Whitley, 1927a, p. 4; Carpenter and Niem, 1999, Vol. 4, p. 2252; Earle, 2004, p.1

*Sargocentron tiere* (Cuvier, 1829)

Boulenger, 1897, p. 372 (as *Holocentrum erythraeum*); Carpenter and Niem, 1999, Vol. 4, p. 2253

*Sargocentron tiereoides* (Bleeker, 1853)

Carlson, 1975, p. 13.

*Sargocentron violaceum* (Bleeker, 1853)

Kner, 1868, p. 296; Earle, 2004, p.1

### Centropomidae (Barramundi)

\**Lates calcarifer* (Bloch, 1790)

Fischer and Whitehead, 1974, Vol. I.; Fishbase 2009, p. 10. Guinea and Jaensch, 1999, p. 46; www.ntu.edu.au/ctwm/courses/course14/materials/Aaron%20jenkins%20freshwater%20fishes%20of%20Fiji%20table.doc; <http://fish.mongabay.com/data/Fiji.htm>. J Seeto believes this is a wrong record for Fiji.

### Ostracoberycidae

*Ostracoberyx dorygenys* (Fowler, 1934)

Raj and Seeto, 1984

*Ostracoberyx tricornis* Matsubaba, 1939

J. Seeto, *pers. comm.* (deep sea collections)

### Polymixiidae

*Polymixia* sp.

Raj and Seeto, 1984 (photograph); JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

### Anomalopidae (Flashlight fishes)

*Parmops echinites* Johnson, Seeto and Rosenblatt, 2001: 497

*Anomalops katoptron* (Bleeker, 1856)

Kner, 1868, pp. 26, 294 (as *A. graeffei*)

*Parmops coruscans* Rosenblatt and Johnson, 1991: 497

### Zeidae (Dories)

*Cyttopsis rosea* (?) Lowe, 1843

Burgess *et al.*, 1988, p.118. Circumtropical.

### Grammicolepididae

*Xenolepidichthys dalgleishi* Gilchrist, 1922

Fishbase. 10-June-1996.

### Caproidae (Boarfish)

*Antigonia capros* Fowler and Bean, 1929

Raj, 1981, p. 9

### Bothidae (Lefteye Flounder)

\**Arnoglossus* sp.

Carlson, 1975 p. 73; McGrouter, 1997, p. 2

*Asterorhombus fijiensis* (Norman, 1931)

Günther, 1880, p. 36 (as *Rhomboidichthys* sp.); Norman, 1931, p. 508 (as *Engyprosopon fijiensis*); Carpenter and Niem, 2001 (Volume 6), p. 3815; Randall, 2005, p. 612

*Asterorhombus intermedius* (Bleeker, 1866)

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Bothus mancus* (Broussonet, 1782)

Carlson, 1975, p.73; Carpenter and Niem, 2001 (Vol. 6), p. 3817

*Bothus pantherinus* (Rüppell, 1830)

Günther, 1859 - 1870, 4, p. 436; McGrouter, 1997, p. 7 (as *Platophrys pantherinus*); Carpenter and Niem, 2001 (Volume 6), p. 3819

*Asterorhombus fijiensis* (Norman, 1931)

Günther, 1880, p. 36 (as *Rhomboidichthys* sp.); Norman, 1931, p. 508 (as *Engyprosopon fijiensis*); Randall, 2005, p. 612

### Paralichthyidae

*Pseudorhombus arsius* (Hamilton-Buchanan, 1822)

Fischer and Whitehead, 1974, Vol. I; Carpenter and Niem, 2001 (Volume 6), p. 3847; Randall, 2005, p. 616

### \*Pleuronectidae (Righteye Flounder)

\**Platichthys flesus* (Linnaeus, 1758)

Thurston, 1881, p.21. A European species erroneously listed from Fiji.

### Samaridae (Crested flounders)

*Samariscus triocellatus* Woods, 1966

Carlson, 1975, p. 13; Randall, 2005, p. 616

### Cynoglossidae (Tongue sole)

*Symphurus orientalis* (Bleeker, 1879)

Raj and Seeto, 1984

### Soleidae (Soles)

*Aseraggodes cyclurus* Randall, 2005

Randall, 2005c, p.199; Randall and Desoutter-Meniger, 2007, p. 320.

*Aseraggodes whitakeri* Woods, 1966

Randall, 2005c, pp. 191, 210; Fishbase 2009, p. 2

\**Aseraggodes* sp.

Carlson, 1975, p. 74

*Dexillichthys muelleri* (Steindachner, 1879)  
Carpenter and Niem, 2001 (Volume 6), p. 3885

*Pardachirus pavoninus* (Lacépède, 1802)  
Carlson, 1975, p. 73

*Soleichthys heterorhinos* (Bleeker, 1856)  
Steindachner and Kner, 1870, p. 427 (as *Solea nigrostriolata*).  
Whitley, 1927, p. 4 (as *Microbuglossus nigrostriolatus*); Randall,  
2005, p. 617; Randall and Munroe, 2008, p. 76 (as *Soleichthys*  
*nigrostriolatus*)

\**Soleichthys* sp.  
Williams, 1997, p. 16

#### **Ambassidae (Glass perch)**

*Ambassis ambassis* Lacépède, 1802  
Fowler, 1928, p. 166 (same as *A. commersonii* Cuvier, 1828?)

\**Ambassis batjanensis* Bleeker, 1855  
Fowler, 1940, p. 769 (?Fiji)

*Ambassis commersoni* Cuvier and Valenciennes, 1828  
Fowler, 1928, p. 163 166? (same as *A. ambassis*?)

*Ambassis interruptus* (Bleeker, 1852)  
Ram, *et al.*, 1983, p. 78

*Ambassis miops* Gunter, 1872  
Boseto, 2005, p. 198

\**Ambassis nalua* Buchanan-Hamilton, 1822  
Fowler, 1928, p. 166. Incorrect locality, not Fiji.

*Ambassis safgha* (Forsskål, 1775)  
Fowler, 1928 p. 166 (as *A. vaivasensis* Jordan and Seale, 1906)  
(Oahu or Fiji). Found in Fiji.

\**Ambassis urotaenia* Bleeker, 1852  
Kendall and Goldsborough, 1911, p. 279

*Ambassis vaivasensis* Jordan and Seale, 1906  
Ryan, 2000, p. 151 (as *A. vaivensis*)

#### **Acanthoclinidae (Spiny Basslets)**

Sometimes included under Plesiopidae.  
*Acanthoplesiops hiatti* Schultz, 1953  
Springer, 1982, pp. 10, 149

#### **Apogonidae (Cardinalfishes)**

*Apogon amboinensis* Bleeker, 1853  
Schmeltz, 1879, p. 38; Fowler, 1931, p. 328

*Apogon angustatus* (Smith and Radcliffe, 1911)  
Carlson, 1975, p. 18; Earle, 2004, p.2

*Apogon aroubiensis* (Hombron and Jacquinot, 1853)  
McCulloch, 1915, p. 118 (as *Amia fasciatus aroubiensis*)

*Apogon auritus* (Valenciennes, 1831)  
Fowler, 1928, p. 163 (Samoa or Fiji). Herre, 1936 (p. 136) (as  
*Apoginichthys auritus*)

*Apogon caudicinctus* Randall and Smith, 1988  
Williams, 1997, p. 2; Randall, 2005, p. 193

*Apogon ceramensis* Bleeker, 1852  
Boseto, 2005

*Apogon coccineus* Rüppell, 1838  
Carlson, 1975, p. 18

*Apogon crassiceps* (Garman, 1903)  
Garman, 1903, p. 230 (type locality Fiji); Randall, 2005, p. 193.  
Lieske and Myers, 1994, p. 37 say this is a Hawaiian species. Randall  
*et al.*, 1997 say it is found in the Western Pacific.

*Apogon dammermani* Weber and de Beaufort, 1929  
Williams, 1997, p. 3

*Apogon darnleyensis* (Alleyne & Macleay, 1877)  
Blaber *et al.*, 1993 (b) p. 104

*Apogon dispar* Fraser and Randall, 1976  
Nair, 2003, p. 48

*Apogon doryssa* (Jordan and Seale, 1906)  
Randall, 1986, p. 195

*Apogon endekataenia* Bleeker, 1852  
Günther, 1859 - 1870, 1, p. 241 (as *A. fasciatus*, non Shaw)

*Apogon fasciatus* (White, 1790)  
Boulenger, 1897, p. 372; McGrouter, 1997, p. 6 (as *Lovamia*  
*fasciata*)

*Apogon fleurieu* (Lacépède, 1802)  
Carlson, 1975, p. 21 (as *A. aureus*); Brown, 1993, p. 50 show *A.*  
*aureus*; <http://fins.actwin.com/species/index.php?9&i=3>

*Apogon hyalosoma* Bleeker, 1852  
Schmeltz, 1869, p.13

*Apogon hypselonotus* Bleeker, 1855  
Boulenger, 1897, p. 372

*Apogon indicus* Greenfield, 2001  
Fishbase 2009, p. 2

*Apogon lateralis* Valenciennes, 1832  
Boseto, 2005, p. 198



- \**Apogon maculiferus* Garrett, 1864  
Fowler, 1928, p. 161. A Hawaii endemic species incorrectly listed from Fiji.
- Apogon moluccensis* Valenciennes, 1832  
Weber and de Beaufort, 1929, 5, p. 322
- Apogon monochrous* Bleeker, 1856  
Günther, 1859 - 1870, 1, p. 236
- Apogon ocellicaudus* Allen, Kuitert and Randall, 1994  
Williams, 1997, p. 3
- Apogon posterofasciatus* Allen and Randall, 2002  
Randall, 2005, p. 195
- Apogon quadrifasciatus* (Cuvier in Cuvier and Valenciennes, 1828)  
Günther, 1859 - 1870, 1, p. 239
- Apogon rubrimacula* Randall and Kulbicki, 1998  
Fishbase 2009, p. 2
- Apogon rufus* Randall and Fraser, 1999  
Randall and Fraser, 1999, p. 617
- Apogon sangiensis* Bleeker, 1857  
Jordan and Seale, 1906, p. 244
- Apogon seminigracaudus* Greenfield, 2007  
Fishbase 2009, p. 2
- Apogon semilineatus* Temminck and Schlegel, 1842  
Raj and Seeto, 1984 (as *Apogon* n. sp.)
- Apogon semiornatus* Peters, 1876  
Williams, 1997, p. 3
- \**Apogon* sp.  
Zug *et al.*, 1988, p. 6
- Apogon talboti* Smith, 1961  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)
- Apogon unicolor* Döderlein in Steindachner and Döderlein, 1883  
Zug *et al.*, 1988, p. 6
- Apogon variegata* (Valenciennes, 1832)  
Fowler, 1932, p. 6 (as *Apogonichthys polystigma* (Bleeker, 1859)  
*Apogon viria* Fraser, 2008  
Greenfield, 2003, list; Fishbase 2009, p. 12 (as *Nectamia viria*)
- Apogonichthys ocellatus* (Weber, 1913)  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)
- Apogonichthys perdix* Bleeker, 1854  
Kendall and Goldsborough, 1911, p. 278 (as *A. vaiulae*)
- Archamia biguttata* Lachner, 1951  
Carlson, 1975, p. 20
- Archamia buruensis* Bleeker, 1856  
Williams, 1997, p. 3 (as *Archamia buroensis*)
- Archamia fucata* (Cantor, 1849)  
Carlson, 1975, p. 21
- Archamia lineolata* (Cuvier (ex-Ehrenberg) in Cuvier and Valenciennes, 1828)  
Kearney, 1982, p. 5
- \**Archamia* sp  
McGrouter, 1997, p. 2
- Archamia zosterophora* (Bleeker, 1856)  
Blaber *et al.*, 1993b, p.104; Milton, Rawlinson, and Sesewa, 1993, p. 94. Gon and Randall (2003) did not include this fish from Fiji.
- Cheilodipterus artus* Smith, 1961  
Gon, 1993, pp. 16, 19
- \* *Cheilodipterus arabicus* (Gmelin, 1789)  
Royal Ontario Museum Records (Great Astrolabe Reef Collection) (as *Cheilodipterus lachneri* Klausewitz, 1959. This is a Red Sea species according to Gon (1993, p. 24).
- Cheilodipterus lineatus* (Forsskål, 1775)  
Williams, 1997, p. 5
- Cheilodipterus macrodon* (Lacépède, 1802)  
Carlson, 1975, p. 21
- Cheilodipterus quinquelineatus* Cuvier in Cuvier and Valenciennes, 1828  
Carlson, 1975, p. 21
- Cheilodipterus zonatus* Smith and Radcliffe, 1912  
Blaber *et al.*, 1993b, p. 104; Milton, Rawlinson, and Sesewa, 1993, p. 94; Rawlinson and Sesewa, 1993b, p. 74
- Foa brachygramma* (Jenkins, 1903)  
Zug *et al.*, 1988, p. 6
- Foa fo* Jordan and Seale, 1906  
Seale, 1935, p. 358
- \**Foa* sp.  
Williams, 1997, p. 8
- Fowleria aurita* (Valenciennes, 1831)

Fowler, 1928, p. 163

*Fowleria marmorata* (Alleyne and MacLeay, 1876)

Carlson, 1975, p. 21

*Fowleria isostigma* Jordan and Seale, 1906);

Carlson, 1975, p. 21; Nair, 2003, p. 48

*Fowleria punctulata* (Ruppell, 1838)

Fishbase 2009, p. 8

\**Fowleria* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection); McGrouter, 1997, p. 4

*Fowleria variegata* (Valenciennes, 1832)

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Gymnapogon urospilos* Lachner, 1953

Zug *et al.*, 1988, p. 6; Nair, 2003, p. 48 (as *Gymnapogon urospilotus*)

\**Gymapogon* sp.

Carlson, 1975, p. 21; Royal Ontario Museum Records (Great Astrolabe Reef Collection) ; Williams, 1997, p. 9; McGrouter, 1997, p. 5. Probably refer to different species of *Gymapogon*.

*Gymnapogon* spp. (at least two species)

Zug *et al.*, 1988, p. 6

*Lachneratus phasmaticus* Fraser and Strhsaker, 1991

Williams, 1997, p. 11

*Neamia articycla* Fraser and Allen, 2006

Fraser and Allen, 2006, p. 1

*Neamia octospina* Smith and Radcliffe, 1912

Williams, 1997, p. 12; Williams, 1997, p. 8 (as *Fowleria abocellata* Goren and Karplus, 1980); Royal Ontario Museum Records (Great Astrolabe Reef Collection) (as *Fowleria c.f. abocellata*); Randall, 2005, p. 201.

*Ostorhinchus aureus* (Lacepede, 1802)

Ryan, 2000, p. 141 (as *Apogon aureus*)

*Ostorhinchus bandanensis* (Bleeker, 1854)

J Seeto (deep sea collection) (as *Apogon bandanensis*); Randall, 2005, p. 203 (Fiji-Rotuma); Fishbase 2009, p. 12 (as *Nectamia bandensis*)

*Ostorhinchus cookii* (Macleay, 1881)

Williams, 1997, p. 3 (as *Apogon cookii*); McGrouter, 1997, p. 1 (as *Apogon cookii*); McGrouter, 1997, p. 2 (as *Apogon robustus*)

*Ostorhinchus cyanosoma* (Bleeker, 1853)

Carlson, 1975, p. 21 (as *Apogon cyanosoma*); Carlson, 1975, p.

19 (as *Apogon novae-guineae* Val., 1832); Carpenter and Niem, 1999, p. 2608 (as *A. cyanosoma*); Earle, 2004, p.2 (as *Apogon cyanosoma*).

*Ostorhinchus fuscus* (Quoy and Gaimard, 1825)

Günther, 1873 - 1910, 1, p. 22 (as *Apogon fusca*); Fishbase 2009, p. 12 (as *Nectamia fusca*)

*Ostorhinchus guamensis* (Valenciennes, 1832)

Garman, 1903, p. 229 (as *Apogon nubilus* Garman, 1903); Nair, 2003, p. 48 (as *Apogon guamensis*); Randall, 2005, p. 206

*Ostorhinchus lateralis* (Valenciennes, 1832)

Kendall and Goldsborough, 1911, p. 278 (as *A. ceramensis* Bleeker, 1852) which is also valid.

*Ostorhinchus nigrofasciatus* Lachner, 1953

Carlson, 1975, p. 19 (as *Apogon nigrofasciatus*); Earle, 2004, p.2 (as *Apogon nigrofasciatus*)

*Ostorhinchus novemfasciatus* (Cuvier in Cuvier and Valenciennes, 1828)

Boulenger, 1897 p. 372 (Rotuma) (as *Apogon novemfasciatus*); McCulloch, 1915, p. 118 (as *Amia fasciatus stevensoni*)

*Ostorhinchus savayensis* Günther, 1872

Boulenger, 1897, p. 372 (as *Apogon savayensis*); Günther, 1880, p. 34 (as *Apogon savayensis*); Fishbase 2009, p. 12 (as *Nectamia savayensis*)

Sometimes made a synonym of *Apogon fuscus* Q & G, 1825

*Ostorhinchus taeniophorus* (Regan, 1908)

Rawlinson *et al.*, (n.d. ca 1995), p. 58 (as *Apogon taeniophorus*)

*Pristiapogon exostigma* (Jordan and Starks, 1906)

Herre, 1936, p. 128 (as *Apogon exostigma*)

*Pristiapogon fraenatus* (Valenciennes, 1832)

Günther, 1859 - 1870, 1, p. 241 (as *Apogon fraenatus*); Nair, 2003, p. 48 (as *Apogon fraenatus*)

*Pristiapogon kallopterus* (Bleeker, 1856)

Carlson, 1975, p. 20 (as *Apogon kallopterus*); Earle, 2004, p.2 (as *P. kallopterus*)

*Pristiapogon taeniopterus* (Bennett, 1836)

Carlson, 1975, p. 19 (as *A. menesemops*); Williams, 1997, p. 3 (as *A. menesemus*); Royal Ontario Museum Records (Great Astrolabe Reef Collection) (as *Apogon robustus* Lachner, 1953)

*Pristiapogon trimaculatus* (Cuvier in Cuvier and Valenciennes, 1828)

Carlson, 1975, p. 20 (as *Apogon trimaculatus*)

*Pseudamia gelatinosa* Smith, 1955

Randall, Lachner, and Fraser, 1985, pp. 8, 11

*Pseudamia zonata* Randall, Lachner and Fraser, 1985  
Randall, 2005, p. 212

*Pseudamiops gracilicauda* (Lachner, 1953)  
Royal Ontario Museum Collection Records (Great Astrolabe Reef)  
(as *Pseudamia gracilicauda*)

*Pseudamiops* sp; sp. 1; sp. 2.  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Rhabdamia cypselurus* Weber, 1909  
Kearney, 1978, p. 7

*Rhabdamia gracilis* (Bleeker, 1856)  
Herre, 1953, p. 324; Randall, 2005, p. 213

*Rhabdamia* sp. c.f. *cypselurus* Weber, 1909  
Blaber *et al.*, 1993b, p. 104

\**Rhabdamia* sp. 6  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)

\**Siphamia* sp.  
Carlson, 1975, p. 21

*Siphamia tubulata* (Weber, 1909)  
Blaber *et al.*, 1993b, p. 104; Milton, Rawlinson, and Sesewa, 1993,  
p. 94; Rawlinson and Sesewa, 1993b, p. 75

*Siphamia versicolor* (Smith and Radcliffe in Radcliffe, 1911)  
Ram *et al.*, 1983, p. 78

*Sphaeramia nematoptera* (Bleeker, 1856)  
Carlson, 1975, p. 22 (as *S. nematopterus*); Randall, 2005, p. 214

*Sphaeramia orbicularis* (Cuvier, 1828)  
Carlson, 1975, p. 22; McGrouter, 1997, p. 9; Boseto, 2005, p. 198

*Zoramia leptacanthus* (Bleeker, 1856)  
Fowler, 1928, p. 163 (as *Mionorus graeffei* Gunther, 1873).

*Zoramia flebila* Greenfield, Langston & Randall, 2005.  
Fishbase 2009, p.19; <http://intreasures.com/com/fijimf.html>

#### Epigonidae

*Epigonus robustus* (Barnard, 1927)  
Carlson, 1975, p. 20

#### Kuhliidae (Flagtails)

\**Kuhlia malo* (Cuvier and Valenciennes, 1831)  
Schmeltz, 1865, p.6 (as *Dules malo*); Jordan and Seale, 1906, p. 55.  
Randall and Randall, 2001 state that this species is only found in  
the freshwater of the Society Islands.

*Kuhlia marginata* (Cuvier, 1829)

Günther, 1859, p. 268 (as *Dules marginatus*); Carpenter and Niem,  
2001, p. 3319; Randall, 2005, p. 182

*Kuhlia mugil* (Forster in Bloch and Schneider, 1801)  
Boulenger, 1897, p. 372 (as *K. taeniura*); Seale, 1935, p. 395 (as *K.*  
*caudovittata*); Carpenter and Niem, 2001, p. 3319

*Kuhlia munda* (De Vis, 1885)  
Boulenger, 1895, p. 40 (as *K. malo*, in part); Fowler, 1928, p. 170  
(type of *Kuhlia proxima*); Herre, 1936, p. 145 (as *Kuhlia bilunulata*  
Herre, 1935); Carpenter and Niem, 2001, p. 3320; Randall, 2005, p.  
182, Boseto, 2005, p. 198

*Kuhlia rupestris* (Lacépède, 1801)  
Schmeltz, 1874, p. 22 (as *Dules rupestris*), Carpenter and Niem,  
2001, p. 3320; Boseto, 2005, p. 198

\**Kuhlia sandvicensis* (Steindachner, 1877)  
Fowler, 1928, p. 170. Randall and Randall, 2001 were of the opinion  
that this is *Kuhlia marginata*.

#### Lobotidae (Triple Tails)

*Lobotes surinamensis* (Bloch, 1790)  
Carlson, 1975, p. 88; Carpenter and Niem, 2001, p. 2944

#### Priacanthidae (Bulls Eye)

*Cookeolus japonicus* (Cuvier, 1829)  
Carpenter and Niem, 1999, p. 2599

*Priacanthus blochii* Bleeker, 1853  
Raj and Seeto, 1984; Carpenter and Niem, 1999, p. 2599

*Heteropriacanthus cruentatus* (Lacépède, 1801)  
Fowler, 1928, p. 190 (as *Priacanthus cruentatus*). JICA, 1987, p. 111  
(Volume 2) (as *Cookeolus boops*). Fiji or Tuvalu (as *P. boops*) Forster  
in Bloch and Schneider, 1801; Carpenter and Niem, 1999, p. 2595.  
Exploratory Fishing - NZ Company. Lau Basin, Dec 1997. Photo  
MSP. (as *Priacanthus boops*) Forster in Bloch and Schneider, 1801.  
J Seeto is of the opinion that they are separate species.

*Priacanthus hamrur* (Forsskål, 1775)  
Lal *et al.*, 1983, p. 29; Carpenter and Niem, 1999, p. 2596

*Priacanthus sagittarius* Starnes, 1988  
Carpenter and Niem, 1999, p. 2600

*Priacanthus tayeus* Richardson, 1846  
Blaber *et al.*, 1993b, p. 109; Milton, Rawlinson and Sesewa, 1993, p. 96

*Pristigenys meyeri* (Gunther, 1871)  
Carpenter and Niem, 1999, p. 2601

#### Pomatidae

*Neoscombrops pacificus* Mochizuki  
JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly erroneously  
identified. Randy Thaman, specimen (Fiji Fish) near Kadavu, deep sea  
12/2/08; Fishbase 2009, p. 13

### **Plesiopidae (Longfins)**

*Calloplesiops altivelis* (Steindachner, 1903)

Carlson, 1975, p. 88

*Lubbochichthys multisquamatus* (Allen, 1987)

Zug *et al.*, 1988, p. 13 (as *Pseudoplesiops multisquamatus*)

*Plesiops coeruleolineatus* Rüppell, 1835

Jordan and Seale, 1906, p. 261 (as *Pharopteryx melas*); Randall, 2005, p. 190

*Plesiops corallicola* Bleeker, 1853

Günther, 1859-1870, 1, p. 364

\**Plesiops nigricans* Rüppell, 1828

Boulenger, 1895, p. 340 and others erroneously list this Red Sea species from Fiji. Pacific Ocean records of *P. nigricans* are referable to *P. corallicola*.

*Plesiops polydactylus* Mooi, 1995

Mooi, 1995, Royal Ontario Museum. Holotype Fiji (Naviti Island)- (may be aberrant population of *P. coeruleolineatus*-Mooi); Williams, 1997, p. 14; <http://intreasures.com/fijimf.html> (as endemic)

*Plesiops verecundus* Mooi, 1995

Mooi, 1995, p. 57; Royal Ontario Museum-Holotype Fiji; Williams, 1997, p. 14; McGrouter, 1997, p. 8; Randall, 2005, p. 191. This may be confused with *Osopsaron verecundus* (Jordan and Snyder).

*Steeneichthys plesiopsus* Allen and Randall, 1985

Williams, 1997, p. 16; Randall, 2005, p. 191

### **Channidae**

*Channa striatus* (Bloch, 1793)

Van Pel, 1959, p. 27 (introduced). According to Andrews (1985, p. 76) this introduced species 'apparently failed to survive.'

### **Pseudochromidae**

*Cypho purpurascens* (De Vis, 1884)

Carlson, 1975, p. 23 (as *Pseudochromis mccullochi* Myers, 1932). Royal Ontario Museum Records (Great Astrolabe Reef Collection); Debelius and Baensch, 1994, p. 961; Carpenter and Niem, 1999, p. 2570

*Pseudochromis cyanotaenia* Bleeker, 1857

Myers, 1991, p. 113

*Pseudochromis fuscus* Müller and Troschel, 1849

FishBase (ICLARM) p. 7 (citing Randall *et al.*, 1990 - Melanesia); Nair, 2003, p. 57; Fishbase 2009, p. 15

*Pseudochromis jamesi* Schultz, 1943

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Randall, 2005, p. 187

*Pseudochromis melanurus* Gill, 2004

Greenfield, 2000, (at Marine Reference collection at USP).

*Pseudochromis porphyreus* Lubbock and Goldman, 1974

Carlson, 1975, p. 23; Carpenter and Niem, 1999, p. 2576. = *Protopseudochromis porphyreus*

*Pseudochromis* n. sp. ms 1994

McGrouter, 1997, p. 8

*Pseudochromis tapeinosoma* Bleeker, 1853

Herre, 1936, p. 167

*Pseudoplesiops multisquamatus* Allen, 1987

Debelius and Baensch, 1994, p. 985

*Pseudoplesiops rosae* Schultz, 1943

Carlson, 1975, p. 23

\**Pseudoplesiops* sp.

Zug *et al.*, 1988, p. 13

*Pseudoplesiops wassi* Gill and Edwards, 2003

Randall, 2005, p. 189 (Fiji and Rotuma)

### **Percichthyidae (Temperate Bass)**

*Macquaria colonorum* (Günther, 1863) (introduced)

Fowler, 1959, p. 209 (as *Percalates colonorum*). Axelrod, Burgess, Pronek and Walls, 1986, p. 710

*Macquaria novemaculeata* (Steindachner, 1866)

Stead, 1914, p. 279 (as *Percalates fluviatilis* Stead, 1906-introduced). See Fowler, 1959, p. 209 - same as above.

### **Serranidae (Groupers, rock cods, basslets, and coral trouts)**

*Aethaloperca rogae* (Forsskål, 1775)

Zug *et al.*, 1989 (Rotuma), p.; Randall, 2005, p. 147

\**Anthias* n. sp.

Carlson, 1985, *pers. comm.*

*Anyperodon leucogrammicus* (Valenciennes, 1828)

Anon., 1985 (poster); Carpenter and Niem, 1999, p. 2475; Earle, 2004, p.2; Brown, 2006, p. 47

*Aporops bilinearis* Schultz, 1943

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Zug *et al.*, 1988, p.; 14 (as *Pseudogramma bilinearis*)

*Belonoperca chabanaudi* Fowler and Bean, 1930

Carlson, 1975, p. 23; Earle, 2004, p. 2

*Cephalopholis argus* Bloch and Schneider, 1801

Fowler, 1929, p. 6; Carpenter and Niem, 1999, p. 2476; Nimmerfroh, 2006, p. 30

*Cephalopholis aurantia* (Valenciennes, 1828)

Randall and Heemstra, 1991, p. 38; Carpenter and Niem, 1999, p. 2540. Was known as *C. analis*.

*Cephalopholis boenak* (Bloch, 1790)

Fischer and Whitehead, 1974, Vol. IV (as *Cephalopholis pachycentron*)

*Cephalopholis igarashiensis* Katayama, 1957

Anon., 1982a, p. 69; Carpenter and Niem, 1999, p. 2479

*Cephalopholis leopardus* (Lacépède, 1801)

Carlson, 1975, p. 24; Carpenter and Niem, 1999, p. 2541; Earle, 2004, p.2

*Cephalopholis microprion* (Bleeker, 1852)

Allen *et al.*, 2003, p. 157

*Cephalopholis miniata* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol. IV; Carpenter and Niem, 1999, p. 2480; Nimmerfroh, 2006, p. 30.

*Cephalopholis sexmaculata* (Rüppell, 1830)

Randall and Heemstra, 1991, pp. 60, 62; Carpenter and Niem, 1999, p. 2481

*Cephalopholis sonnerati* (Valenciennes, 1828)

Fischer and Whitehead, 1974, Vol. IV.

*Cephalopholis spiloparaea* (Valenciennes, 1828)

Randall, 1986, p. 190 (misidentified as *Cephalopholis analis* (Valenciennes, 1828); Randall and Heemstra, 1991, p. 67; Carpenter and Niem, 1999, p. 2542; Earle, 2004, p.2

*Cephalopholis urodeta* (Forster in Bloch and Schneider, 1801)

Carlson, 1975, p. 24 (as *C. urodelus*); Carpenter and Niem, 1999, p. 2483; Earle, 2004, p.2

*Cromileptes altivelis* (Valenciennes, 1828)

Fischer and Whitehead, 1974, Vol. IV; Lewis (n.d.) Fisheries photo; Greenberg, 1985, p. 1. Very rare or stragglers found in Fiji.

*Dactylanthias mcmichaeli* Whitley, 1962

Carlson, 1975, p. 23 (as *Anthias memichaeli*)

*Epinephelus amblycephalus* (Bleeker, 1857)

Randall and Heemstra, 1991, pp. 93, 96; Carpenter and Niem, 1999, p. 2486

*Epinephelus areolatus* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol. IV; Carpenter and Niem, 1999, p. 2483; Allen *et al.*, 2003, p. 159. Randall and Heemstra, 1991 did not list this species from Fiji.

\**Epinephelus bleekeri* (Vaillant and Bocourt, 1877)

Fischer and Whitehead, 1974, Vol. IV. Doubtful record for Fiji because this is an Asian to N.W. Australian species.

*Epinephelus chlorostigma* (Valenciennes, 1828)

Mead, 1980, p. 10; Carpenter and Niem, 1999, p. 2492; Nair, 2003, p. 58; Nimmerfroh, 2006, p. 31

Randall and Heemstra, 1991 do not list this species from Fiji.

*Epinephelus coeruleopunctatus* (Bloch, 1790)

Kner, 1868, p. 297 (as *Serranus hoevenii*); Carpenter and Niem, 1999, p. 2491; Allen *et al.*, 2003, p. 161 (as *E. caeruleopunctatus*); Randall, 2005, p. 154

*Epinephelus coiodes* (Hamilton, 1822)

Randall and Heemstra, 1991, pp. 121, 125; Carpenter and Niem, 1999, p. 2493; Randall, 2005, p. 155

Was known as *Epinephelus suillus*.

*Epinephelus corallicola* (Valenciennes (ex Kuhl and van Hasselt) in Cuvier and Valenciennes, 1828); Kuitert and Debelius, 1997, p. 95

Randall and Heemstra, 1991 do not list this species from Fiji.

*Epinephelus cyanopodus* (Richardson, 1846)

Mead, 1980, pp. 10, 13 (as *Epinephelus hoedti*); JICA, 1987, p. 111 (Volume 2) (as *E. cynopodus*). Fiji or Tuvalu; Carpenter and Niem, 1999, p. 2494; Allen *et al.*, 2003, p. 158; Randall, 2005, p. 155

\**Epinephelus damelii* Günther, 1876

Lal *et al.*, 1983, p. 26. A subtropical species according to Randall and Heemstra, 1991, p. 132. Not found in Fiji.

\**Epinephelus diacanthus* (Valenciennes, 1828)

Carlson, 1975, p. 24. Randall and Heemstra, 1991, p. 137 say this is a Red Sea, Indian Ocean species. A doubtful record from Fiji.

*Epinephelus fario* (Thunberg, 1792) = *nomen dubium*

Peters, 1876 (1877), p. 831

*Epinephelus fasciatus* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol. IV; Carpenter and Niem, 1999, p. 2499

\**Epinephelus flavocaeruleus* (Lacépède, 1802)

Carlson, 1975, p. 25. Randall and Heemstra, 1991 say this is an Indian Ocean species.

*Epinephelus fuscoguttatus* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol. IV; Carpenter and Niem, 1999, p. 2501; Earle, 2004, p.2

*Epinephelus hexagonatus* (Bloch and Schneider, 1801)

Günther, 1859 - 1870, 1, p. 141 (as *Serranus hexagonatus*); Carpenter and Niem, 1999, p. 2503

*Epinephelus howlandi* (Günther, 1873)

Mead, 1980, p.11, 14 (as *Epinephelus spilotus*); Carpenter and Niem, 1999, p. 2544

*Epinephelus lanceolatus* (Bloch, 1790)

Whitley, 1927a, p. 5 (as *Promicrops lanceolatus*); Carpenter and Niem, 1999, p. 2505; Earle, 2004, p.2; Boseto, 2005, p. 199

*Epinephelus macrospilos* (Bleeker, 1855)

Randall and Heemstra, 1991, pp. 185, 189; Carpenter and Niem, 1999, p. 2508; Earle, 2004, p.2; Randall, 2005, p. 158

*Epinephelus maculatus* (Bloch, 1790)

Peters, 1876, p. 831 (as *Serranus maculatus*); Carpenter and Niem, 1999, p. 2509; Earle, 2004, p.2

*Epinephelus magniscuttis* Postel, Fourmanoir, and Guézé, 1963

Mead, 1980, pp. 11, 14; Carpenter and Niem, 1999, p. 2510

*Epinephelus malabaricus* (Bloch and Schneider, 1801)

Whitley, 1927, p. 5 (as *Epinephelus pantherinus*); Fowler, 1931; Mead, 1980, p. 10 (as *Epinephelus cylindricus*); Carpenter and Niem, 1999, p. 2511; Randall, 2005, p. 159; Boseto, 2005, p. 199. According to Randall and Ben Tuvia (1983, p. 403) this is not a Pacific Ocean species. Heemstra and Randall (1993) say this is found in Fiji. Serranid taxonomy can be very confusing!

*Epinephelus merra* Bloch, 1793

Boulenger, 1895, p. 241; Carpenter and Niem, 1999, p. 2512

*Epinephelus miliaris* (Valenciennes, 1830)

Mead, 1980, p. 10 (as *Epinephelus dictyophorus*). Chapman, Taumaia and Preston, 1984, p. 14 (as *Epinephelus fuscus* Fourmanior); Carpenter and Niem, 1999, p. 2544; Randall, 2005, p. 160

*Epinephelus morrhua* Valenciennes, 1833

Mead, 1980, pp. 11, 14; Carpenter and Niem, 1999, p. 2513. *Epinephelus cometae* is this species too.

*Epinephelus octofasciatus* (Griffin, 1926)

Anon., Nda, p. 16 (as *Epinephelus compressus*); Carpenter and Niem, 1999, p. 2545

*Epinephelus ongus* (Bloch, 1790)

Kner, 1868, p. 297 (as *Epinephelus summana* non Forsskål); Carpenter and Niem, 1999, p. 2514; Allen *et al.*, 2003, p. 161; Randall, 2005, p. 161

*Epinephelus poecilonotus* (Temminck and Schlegel, 1842)

Raj, 1981, p. 9 (as ?); Carpenter and Niem, 1999, p. 2515

*Epinephelus polyphkadion* Bleeker, 1849

Raj, 1981, p. 9 (as *Epinephelus microdon*); Carpenter and Niem, 1999, p. 2516; Earle, 2004, p.2

\**Epinephelus quoyanus* (Valenciennes, 1830)

Fischer and Whitehead, 1974, Vol. IV (as *Epinephelus megachir*). Doubtful record as it is not found from the islands of Micronesia, Melanesia and Polynesia (Heemstra and Randall, 1993).

*Epinephelus retouti* Bleeker, 1868

Heemstra and Randall, 1993, p. 225

\**Epinephelus septemfasciatus* (Thunberg, 1793)

Raj and Seeto, 1984. Randall and Heemstra (1991) say this is found in south-east Asia and Australia. Heemstra and Randall (1993) say it is found in Japan, China and Korea only. Raj and Seeto

(1984) confused this with *Epinephelus malabaricus* and *Epinephelus cylindricus*. Zug *et al.*, 1988, p. 14 (Rotuma)

\**Epinephelus sexfasciatus* Kuhl and Van Hasselt in Cuvier and Valenciennes, 1828

Williams, 1997, p. 14 (as *Plectropoma sexfasciatus*). Probably not found in Fiji.

*Epinephelus spilotoceps* Schultz, 1953

Zug *et al.*, 1988, p. 14

\**Epinephelus summana* (Forsskål, 1775)

Kner, 1869, p. 297 (as *Serranus summana*); Schmeltz, 1869, p. 12 (as *Serranus summana*); Pöhl, 1879, p. 37 (as *Serranus summana*). This is a Red Sea species and not found in Fiji.

*Epinephelus tauvina* (Forsskål, 1775)

Schmeltz, 1869, p. 12 (as ? *Serranus crapaol*); Carpenter and Niem, 1999, p. 2526; Nimmerfroh, 2006, p. 30

*Epinephelus timorensis* Randall and Allen, 1987

Raj and Seeto, 1984, (no page number) (as *Epinephelus* sp.); Carpenter and Niem, 1999, p. 2546

\**Epinephelus trimaculatus* (Valenciennes, 1828)

Schmeltz, 1869, p. 12 (as *Serranus ura*). According to Randall and Heemstra (1991), this is a Chinese, Taiwanese and Japanese species. A doubtful record for Fiji.

\**Epinephelus undulosus* (Quoy and Gaimard, 1824)

Gifford, 1951, p. 206 Randall and Heemstra 1991 p. 285 say this species is found only in S. E Asia to the Solomons. A doubtful record for Fiji.

*Gracilia albomarginata* (Fowler and Bean, 1930)

Randall and Heemstra, 1991 p. 289; Carpenter and Niem, 1999, p. 2530

*Grammistes sexlineatus* (Thunberg, 1792)

Schmeltz, 1869, p. 13 (as *Grammistes orientalis*)

*Grammistops ocellatus* Schultz, 1958

Carlson, 1975, p. 22 (as *Grammistes ocellatus*)

*Holanthias* sp.

Raj and Seeto, 1984

*Liopropoma multilineatum* Randall and Taylor, 1988

Randall and Taylor, 1988, p. 41; Randall, 2005, p. 172

*Liopropoma susumi* (Jordan and Seale, 1906)

Carlson, 1975, p. 24. Williams, 1997, p. 11 (as *Liopropoma lineata* Schultz, 1953)

*Liopropoma tonstrinum* Randall and Taylor, 1988

Randall and Taylor, 1988, p. 10; Randall, 2005, p. 172

- Luzonichthys waitei* (Fowler, 1931)  
Allen *et al.*, 2003, p. 142
- Mirolabrichthys imeldae* Burgess 1977  
www.amdareef.com/el\_anthias.htm (11.6.02)
- \**Mirolabrichthys* sp.  
McGrouter, 1997, p. 6
- Plectranthias fijiensis* Raj and Seeto, 1983  
Raj and Seeto, 1983, p. 15 (endemic )
- Plectranthias inermis* Randall, 1980  
Williams, 1997, p. 14
- Plectranthias longimanus* (Weber, 1913)  
Randall, 1980, p. 148; Randall, 2005, p. 138
- Plectranthias nanus* Randall, 1980  
Williams, 1997, p. 14
- Plectranthias winniensis* (Tyler, 1966)  
Williams, 1997, p. 14
- Plectropomus areolatus* (Rüppell, 1830)  
Fischer and Whitehead, 1974, Vol. IV (as *P. truncatus*)
- \**Plectropomus calcarifer* (Bloch, 1790)  
Villaluz, 1972, p. 5. Not a valid name and not seen in Randall and Heemstra, 1991 or Heemstra and Randall, 1993. Probably is *Lates calcarifer* (barramundi) from the family Centropomidae which is also not found in Fiji.
- Plectropomus laevis* (Lacépède, 1801)  
Lewis *et al.*, 1983a, pp. 7, 54 (as *P. melanoleucus*); Carpenter and Niem, 1999, p. 2532; Nimmerfroh, 2006, p. 30
- Plectropomus leopardus* (Lacépède, 1802)  
Boulenger, 1895, p. 161; Carpenter and Niem, 1999, p. 2533; Earle, 2004, p.2; Randall, 2005, p. 166.
- \**Plectropomus maculatus* (Bloch, 1790)  
Schmeltz, 1869, p. 12 (as *Plectropoma maculatum*); Greenberg, 1985, p. 1; UVC 1995 show this species to be in Fiji, which Veitayaki *et al.*, (1996, p. 44) concurred. However, Randall and Hoese (1986) and Heemstra and Randall, (1993) show that this species does not reach Fiji. A doubtful record from Fiji.
- Plectropomus pessuliferus pessuliferus* (Fowler, 1904)  
Lewis *et al.*, 1983a, p. 51 ( as *Plectropomus* n. sp.). Randall and Hoese, 1986, p. 18; Carpenter and Niem, 1999, p. 2536; Allen *et al.*, 2003, p. 165; Randall, 2005, p. 166
- \**Pseudanthias* sp.  
Carlson, 1975, p. 26; McGrouter, 1997, p. 8
- Pseudanthias carlsoni* Randall and Pyle, 2001  
Randall and Pyle, 2001, pp. 19, 20; Randall, 2005, p. 140 (type locality Fiji)
- Pseudanthias cooperi* (Regan, 1902)  
Carlson, 1975, *pers. comm.* (as *Anthias kashiwae* (Tanaka, 1918)
- Pseudanthias dispar* (Herre, 1955)  
Carlson, 1975, p. 25 (as *Anthias dispar*); Randall, 2005, p. 141
- Pseudanthias flavicauda* Randall and Pyle, 2001  
Randall and Pyle, 2001, p. 23; Randall, 2005, p. 141; <http://intreasures.com/fijimf.html> (as endemic).
- Pseudanthias huchtii* (Bleeker, 1857)  
Greenberg, 1985, p. 1; Rosseler, 1993, p. 67
- Pseudanthias hypselosoma* Bleeker, 1878  
Carlson, 1985, *pers. comm.* (as *Anthias truncata* (Katayama, 1957)
- Pseudanthias lori* (Lubbock and Randall, 1976)  
Randall and Lubbock, 1981, p. 13 (as *Anthias lori*)
- Pseudanthias pascalus* (Jordan and Tanaka, 1927)  
Randall and Lubbock, 1981, p. 8 (as *Anthias pascalus*); Earle, 2004, p.2; Randall, 2005, p. 144
- Pseudanthias pictilis* (Randall and Allen, 1978)  
Carlson, 1985, *pers. comm.* (as *Anthias pictilis*); www.amdareef.com/el\_anthias.htm
- Pseudanthias pleurotaenia* (Bleeker, 1857)  
Richards *et al.*, 1994, p. 33 (not listed from Fiji by Randall and Lubbock); Brown, 1993, p. 66 (as *Anthias pleurotaenia*- female) and p. 68 (male); www.amdareef.com/el\_anthias.htm
- Pseudanthias rubrizonatus* (Randall, 1983)  
Randall, Allen and Steene, 1990, p. 97
- \**Pseudanthias* sp  
McGrouter, 1997, p. 1 (as *Anthias* sp)
- Pseudanthias squamipinnis* (Peters, 1855)  
Carlson, 1975, p. 25 (as *Anthias squamipinnis*); Earle, 2004, p. 2; Randall, 2005, p. 146
- Pseudanthias tuka* (Herre and Montalban, 1927)  
Carlson, 1975, p. 25 (as *Anthias tuka*)
- Pseudanthias ventralis* (Randall, 1979)  
Williams, 1997, p. 2
- Pseudogramma astigmum* Randall and Baldwin, 1997  
Randall and Baldwin, 1997, p. 15
- Pseudogramma polyacantha* (Bleeker, 1856)

Kner, 1869, p. 717; Nair, 2003, p. 59 (as *Pseudogramma polyacanthum*)

*Saloptia powelli* Smith, 1964

Raj, 1981, p. 9; Carpenter and Niem, 1999, p. 2537

*Serranocirrhitis latus* (Watanabe, 1949)

Randall, Allen and Steene, 1990, p. 99; Earle, 2004, p.2; Randall, 2005, p. 147

*Sphyraenops bairdianus* (Poey, 1856-61)

Raj and Seeto, 1984, (no page number)

*Suttonia lineata* Gosline, 1960

Randall and Baldwin, 1997, p. 51

\**Suttonia suttoni* Smith, 1953

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

Not found in Fiji (East Africa).

*Variola albimarginatus* Baissac, 1952

Anon., 1983b, p.11; Carpenter and Niem, 1999, p. 2538; Earle, 2004, p.2

*Variola louti* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol. IV.; Carpenter and Niem, 1999, p. 2538; Earle, 2004, p.2

*Xenanthias* sp

McGroutter, 1997, p. 10

### **Teraponidae (Grunters)**

*Leiopotherapon unicolor* (Günther, 1859)

Jordan and Seale, 1906, p. 266; Whitley, 1927, p. 5 (as *Terapon unicolor*). According to Vari (1978, p. 233), the distribution of *L. unicolor* in Fiji, either naturally or as an introduction, appears unsubstantiated. Kner (1868) also lists *Terapon unicolor* from Kadavu but Fowler, 1928, p. 211 says it refers to *Kuhlia rupestris*.

\**Mesopristes argenteus* (Cuvier, 1829)

Jordan and Seale, 1906, p. 266; Whitley, 1927, p. 5 (as *Terapon argenteus*). Vari (1978, p. 272) states: 'the inclusion of *M. argenteus* in the Fijian fauna appears to be erroneous'.

*Mesopristes kneri* (Bleeker, 1873)

Kner, 1868, p. 299 (as *T. argenteus* non Cuvier); An endemic species that was thought to be found in Yaeyama Island by Sakai and Sato (1982), but it was a mis-identification.

\**Pelates quadrilineatus* (Bloch, 1790)

Whitley, 1927a, p. 5; Fischer and Whitehead, 1974, Vol. IV; McGroutter, 1997, p. 7. According to Vari (1978, p. 251), it is likely that the original record was either an error in identification or locality.

\**Pelates sexlineatus* (Quoy and Gaimard, 1824)

Schmeltz, 1869, p. 13 (as *Pelates cuvierii*); Fischer and Whitehead,

1974, Vol. IV (as *Helotes sexlineatus*). Vari (1978, p. 251) notes that records of *P. sexlineatus* around Fiji are 'unsubstantiated'.

\**Rhyncopelates oxyrhynchus* (Temminck and Schlegel, 1842)

Günther, 1880, p. 34 (as *Therapon oxyrhynchus*). Vari (1978, p. 269) notes that the original record of *R. oxyrhynchus* from Ovalau, Fiji, appears to be 'in error'.

*Terapon jarbua* (Forsskål, 1775)

Günther, 1874, 2-3, p. 26 (as *Therapon servus*); Carpenter and Niem, 2001, p. 3314

*Terapon theraps* (Cuvier, 1829)

Fischer and Whitehead, 1974, Vol. IV (*Therapon theraps*). A doubtful record for Fiji but Zug *et al.*, (1988, p. 15) noted it from Rotuma.

### **Centrarchidae (Bass)**

*Micropterus dolomieu* Lacépède, 1802

Devambe, 1964, p. 28 (introduced)

*Micropterus salmoides* (Lacépède, 1802)

Anon., 1962, p. 56 (introduced)

### **Mullidae (Goatfishes)**

\**Mulloidichthys auriflamma* Forsskål, 1775) which is the junior synonym of *Pseudupeneus forsskali* Fourmanoir and Guézé, 1976; may be found here.

*Mulloidichthys flavolineatus* (Lacépède, 1801)

Schmeltz, 1869, p. 14 (as *M. japonicus*); Carpenter and Niem, 2001, p. 3181. *Mulloidichthys samoensis* (Günther, 1874) is a junior synonym.

*Mulloidichthys pflugeri* (Steindachner, 1900)

Raj and Seeto, 1984

*Mulloidichthys vanicolensis* (Cuvier and Valenciennes, 1831)

Whitley, 1927a, p. 6; Carpenter and Niem, 2001, p. 3183

*Parupeneus atrocingulatus* (Kner in Steindachner and Kner, 1870)

Williams, 1997, p. 13

\**Parupeneus barberinoides* (Bleeker, 1852)

Carlson, 1975, p. 34; Carpenter and Niem, 2001, p. 3184; Brown, 2006, p. 47. Randall (2004) is of the opinion that this species is not found in Fiji.

*Parupeneus barberinus* (Lacépède, 1801)

Schmeltz, 1869, p. 14 (as *Upeneus barberinus*); Carpenter and Niem, 2001, p. 3185; Earle, 2004, p.3

\**Parupeneus bifasciatus* (Lacépède, 1801)

Williams, 1997, p. 13 (as *Parupeneus moana*); Lewis (n. d.) Fisheries photo; Carpenter and Niem, 2001, p. 3186. *Parupeneus trifasciatus* is the senior synonym but is now only found in East Africa (Randall and Myers, 2002). The species found here and called this name



previously, is probably *Parupeneus crassilabris*.

*Parupeneus ciliatus* (Lacépède, 1801)

Kner, 1868, p. 305 (*Parupeneus taeniatus* (Kner, 1868); Fowler, 1928, p. 229 (as *P. spilurus*); Royal Ontario Museum Records (Great Astrolabe Reef Collection); Carpenter and Niem, 2001, p. 3187; Randall, 2004, p. 19. *Parupeneus fraterculus* and *P. pleurotaenia* are synonyms. Randall, 2004 says *P. taeniatus* is also a synonym.

*Parupeneus crassilabris* Valenciennes in Cuvier and Valenciennes, 1831

Randall and Myers, 2002, p. 437; Earle, 2004, p.3; Randall, 2004, p. 19; Randall, 2005, p. 295

*Parupeneus cyclostomus* (Lacépède, 1801)

Weber and de Beaufort, 1931, 6, p. 404 (as *Parupeneus chryserydros* (Lacépède, 1801); Zug *et al.*, 1988, p. 12 (Rotuma); Carpenter and Niem, 2001, p. 3188; Randall, 2004, p. 24; Earle, 2004, p.3

*Parupeneus heptacanthus* (Lacépède, 1801)

Raj, 1981, p. 9 (as *P. pleurospilos*); Carpenter and Niem, 2001, p. 3189; Randall, 2004, p. 29; Randall and Heemstra, 2009, p. 39

*Parupeneus indicus* (Shaw, 1803)

Kner, 1868, p. 27 (as *Upeneus griseofrenatus*); Günther, 1873 -1910, 1, p. 58 (as *Parupeneus malabaricus* (Cuvier and Valenciennes, 1829); Carpenter and Niem, 2001, p. 3190; Randall, 2004, p. 33

\**Parupeneus janseni* (Bleeker, 1856)

Carlson, 1975, p. 91. Its presence in Fiji is questionable according to Randall (2004).

\**Parupeneus macronemus* (Lacépède, 1802)

Emery and Winterbottom, 1983, p. 8. This should be corrected to *P. barberinus* (R. Winterbottom, *pers. comm.*). *Parupeneus macronemus* is an Indian Ocean species (Randall, 2004)

*Parupeneus multifasciatus* (Quoy and Gaimard, 1824)

Boulenger, 1897, p. 372 (as *Upeneus trifasciatus* non Lacépède); Carpenter and Niem, 2001, p. 3192; Randall, 2004, p. 40; Earle, 2004, p.3

*Parupeneus pleurostigma* (Bennett, 1830)

Carlson, 1975, p. 34; Carpenter and Niem, 2001, p. 3193; Randall, 2004, p. 46; Earle, 2004, p.3

\**Parupeneus porphyreus* Jenkins, 1902

Carcasson, 1977, p. 142. However, Randall, 2004 says this is a Hawaiian species.

\**Parupeneus spilurus* (Bleeker, 1854)

Schmeltz, 1869, p. 14 (as *Upeneus spilurus*). Its presence in Fiji is questionable, according to Randall (2004).

*Upeneus arge* Jordan & Evermann 1903

Fishbase (2003); Carpenter and Niem, 2001, p. 3195. See *Upeneus taeniopterus* below.

*Upeneus moluccensis* Bleeker, 1855

Fischer and Whitehead, 1974, Vol. III

*Upeneus subvittatus* (Temminck and Schelegel, 1843)

J. Seeto, *pers. comm.* Specimen at the Marine Reference collection at USP.

*Upeneus sundaicus* Bleeker, 1855

Blaber *et al.*, 1993b, p. 108

*Upeneus sulphureus* Cuvier, 1829

Kendall and Goldsborough, 1911, p. 293; Carpenter and Niem, 2001, p. 3197; Randall, 2005, p. 300; Randall and Kulbicki, 2006, p. 305

*Upeneus taeniopterus* Cuvier, 1829

Anon., 1983b, p. 12 (as *U. arge*)

*Upeneus tragula* Richardson, 1846

Fischer and Whitehead, 1974, Vol. III;

*Upeneus vittatus* (Forsskål, 1775)

Schmeltz, 1869, p. 14 (as *Upeneoides vittatus*); Carpenter and Niem, 2001, p. 3200; Boseto, 2005, p. 199; Randall and Kulbicki, 2006, p. 306

**Atherinidae (Silversides)**

*Atherion elymus* Jordan and Starcks, 1901

Williams, 1997, p. 3

*Atherinomorus endrachtensis* (Quoy and Gaimard, 1824)

Whitley, 1927a, p. 4. (as *Atherina endrachtensis*) According to Walter Ivantsoff from Macquarie University, NSW, Australia, there are no reliable records to confirm the presence of this species in Fiji. Blaber *et al.*, 1993b, p. 104. This species probably refers to *H. temminckii*.

*Atherinomorus lacunosus* (Bloch and Schneider, 1801)

Günther, 1880, p. 36. The common junior synonyms are *Praneus pinguis* and *Atherina forskalii*.

*Hypoatherina barnesi* Schultz, 1953

Lewis *et al.*, 1983c, p. 42

*Hypoatherina ovalaua* (Herre, 1935)

Herre, 1935, p. 401 (as *Atherina ovalaua*); Randall, 2005, p. 79

*Hypoatherina temminckii* (Bleeker, 1853)

Schmeltz, 1869, p. 20 (as *Atherina brachyptera*)

*Stenatherina panatela* (Jordan and Richardson, 1908)

Whitley, 1927a, p. 4 (as *Atherina brachyptera*); Fishbase 2009, p. 18

**Dentatherinidae**

*Dentatherina merceri* Patten and Ivantsoff, 1983

Williams, 1997, p. 6

**Sphyraenidae (Barracudas)**

*Sphyraena acutipinnis* Day, 1876

Blaber *et al.*, 1993a, p. 53; Blaber *et al.*, 1993b, p. 110; Carpenter and Niem, 2001 (Volume 6), p. 3689

*Sphyraena barracuda* (Walbaum, 1792)

Schmeltz, 1869, p. 17 (as *S. commersonii* Cuvier in Cuvier and Valenciennes, 1829); Chapman, Taumaia and Preston, 1984, p. 15 (as *Sphyraena picuda* Bloch, 1801); Carpenter and Niem, 2001 (Volume 6), p. 3690

*Sphyraena chrysotaenia* Klunzinger, 1889

McGrouter, 1997, p. 9

*Sphyraena flavicauda* Rüppell, 1838

Fowler, 1928, p. 131 (as *S langsar*).

*Sphyraena forsteri* Cuvier, 1829

Kendall and Goldsborough, 1911, p. 262; Carpenter and Niem, 2001 (Volume 6), p. 3692

*Sphyraena helleri* Jenkins, 1901

Carpenter and Niem, 2001 (Volume 6), p. 3693; Nimmerfroh, 2006, p. 247. Confusion within *S. acutipinnis* Day, 1876 (valid).

*Sphyraena japonica* Cuvier, 1829

Chapman, Taumaia and Preston, 1984, p. 15

*Sphyraena jello* Cuvier, 1829

Brown, 1993, p. 36; Randall, 2005, p. 608

*Sphyraena novaehollandiae* Günther, 1860

Whitley, 1927a, p. 4

*Sphyraena obtusata* Cuvier, 1829

Günther, 1873 - 1910, 6, p. 212; Boseto, 2005, p. 199. This may be the same as *S. flavicauda*.

*Sphyraena putnamiae* Jordan and Seale, 1905

Anon., 1982b, p. 86; JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Lewis, 1988, p. 10 (as *Sphyraena bleekeri* Williams, 1959); Fishbase 2009, p. 17

*Sphyraena qenie* Klunzinger, 1870

Mead, 1980, pp. 11, 14; Carpenter and Niem, 2001 (Volume 6), p. 3697; Nimmerfroh, 2006, p. 240

**Mugilidae (Mulletts)**

*Cestraeus oxyrhynchus* Valenciennes, 1836

Fishbase-10-June-1996

*Cestraeus plicatilis* Cuvier and Valenciennes, 1836

Macdonald, 1869, p. 38 (as *Gonostomyx loa-loa*); Schmeltz, 1881, p. 6 (as *Agonostoma plikatile*)

*Chaenomugil leuciscus* (Günther, 1871)

Carlson, 1975, p. 52; Williams, 1997, p. 12 (as *Neomyxus chaptalii*)

*Crenimugil crenilabis* (Forsskål, 1775)

Carlson, 1975, p. 51

*Crenimugil labiosus* (Valenciennes, 1836)

Blaber *et al.*, 1993b, p. 108

\**Liza argentea* (Quoy and Gaimard, 1842)

Carcasson, 1977, p. 84. A questionable record for Fiji, as this is a South Australian species.

*Liza macrolepis* (Smith, 1849)

Günther, 1873 - 1910, 6, p. 217 (as *Mugil compressus*); Schmeltz, 1879, p. 50 (as *M. troscheli*); Boseto, 2005, p. 198 (as *Chelon macrolepis*)

*Liza melinoptera* (Valenciennes, 1836)

Jordan and Dickerson, 1908, p. 607, Boseto, 2005, p. 198

*Liza oligolepis* (Bleeker, 1859)

Herre, 1936, p. 95

*Liza subviridis* (Valenciennes, 1836)

Herre, 1936, p. 92 (as *Mugil dussumieri*), Boseto, 2005, p. 198

*Liza tade* (Forsskål, 1775)

Günther, 1873 - 1910, 6, p. 215 (as *Mugil kandavensis*); Schmeltz, 1879, p. 51 (as *M. kandavensis*)

*Ellochelon vaigensis* (Quoy and Gaimard, 1824)

Kendall and Goldsborough, 1911, p. 257 (as *Lisa vaigensis*); Boseto, 2005, p. 199 (as *Liza vaigensis*)

*Mugil broussonneti* Valenciennes, 1836

Carpenter, K. E. and Niem, V. H. 1999b, p. 2095

*Mugil cephalus* Linnaeus, 1758

Thurston, 1881, p. 21; Boseto, 2005, p. 199

*Mugil trichilus* Vaillant and Sauvage, 1875

Fowler, 1928, p. 123

\**Oedolechilus* sp.

Blaber *et al.*, 1993b, p. 108. This record could belong to *Oedolechilus labiosus* (Val., 1836).

*Oedalechilus labiosus* (Valenciennes, 1836)

Williams, 1997, p. 12

*Valamugil buchanani* (Bleeker, 1853)

Anon., 1981, p. 91

*Valamugil cunnesius* (Valenciennes, 1836)

Carpenter, K. E. and Niem, V. H. 1999b, p. 2103; Boseto, 2005, p. 199

*Valamugil engeli* (Bleeker, 1858)

Zug *et al.*, 1988, p. 12; Boseto, 2005, p. 199

*Valamugil seheli* (Forsskål, 1775)

Günther, 1873 -1910, 6, p. 216 (as *Mugil parsia* non Buchanan-Hamilton); Boseto, 2005, p. 199

### Polynemidae (Threadfin Breams)

*Polynemus microstomus* (Bleeker, 1851)

Lal, *et al.*, 1983, p. 29; Boseto, 2005, p. 199; Fishbase 2009, p. 14 (as *Polydactylus microstomus*)

*Polynemus plebeius* Broussonet, 1782

Jordan and Dickerson, 1908, p. 607 (as *Polydactylus plebeius*); Carpenter and Niem, 2001, p. 3110; Boseto, 2005, p. 199

*Polydactylus sexfilis* (Valenciennes, 1831)

Carpenter and Niem, 2001, p. 3111

*Polynemus sextarius* Schneider, 1801

J. Seeto, *pers. comm.*; specimen at Marine Reference collection at USP.

### Gerreidae (Mojarras)

*Gerres abbreviatus* Bleeker, 1850

Fischer and Whitehead, 1974, Vol. II.

*Gerres argyreus* (Bloch and Schneider, 1801)

McGrouter, 1997, p. 5; Carpenter and Niem, 2001, p. 2950; Fischer and Whitehead, 1974 say *G. argyreus* may be the same as *Gerres oyena*.

*Gerres filamentosus* Cuvier, 1829

Herre, 1936, p. 207 (as *G. macracanthus*)

*Gerres kapas* Bleeker, 1851

Jordan and Dickerson, 1908, p. 610 (as *Xystaema kapas*)

*Gerres longirostris* (Lacepede, 1801)

Boseto, 2005, p. 198

*Gerres macrosoma* Bleeker, 1854

Fowler, 1929, p. 7

*Gerres oblongus* Cuvier, 1830

Günther, 1874, 1, p. 30 (as *G. gigas*); Carpenter and Niem, 2001, p. 2955

*Gerres oyena* (Forsskål, 1775)

Günther, 1880, pp. 34, 58; Carpenter and Niem, 2001, p. 2956

*Gerres poiети* (Cuvier, 1830)

Blaber *et al.*, 1993b, p. 106;

\**Gerres* sp

Williams, 1997, p. 8

### Leiognathidae (Ponyfishes)

*Gazza minuata* (Bloch, 1797)

Whitley, 1927a, p. 4

*Leiognathus bindus* (Valenciennes, 1835)

Fischer and Whitehead, 1974, Vol. II

*Leiognathus dussumieri* (Valenciennes, 1835)

Herre, 1936, p. 118

\**Leiognathus elongatus* (Günther, 1874)

Specimens at the Marine Reference collection at USP.

*Leiognathus equulus* (Forsskål, 1775)

Jordan and Dickerson, 1908, p. 610 (as *L. edentula*); Carpenter and Niem, 2001, pp. 2808

*Leiognathus fasciatus* (Lacépède, 1803)

Günther, 1880, p. 35 (as *Equula fasciata*); Carpenter and Niem, 2001, pp. 2809; Randall, 2005, p. 240

*Leiognathus longispinis* (Valenciennes, 1835)

Carpenter and Niem, 2001, pp. 2811

*Leiognathus smithursti* (Ramsey and Ogilby, 1886) ... this may belong to *L. fasciatus*.

Jordan and Dickerson, 1908, p. 610

*Leiognathus splendens* (Cuvier, 1829)

Kendall and Goldsborough, 1911, p. 274; Carpenter and Niem, 2001, pp. 2815; Randall, 2005, p. 240; Fishbase 2009, p. 8 (as *Eubleekeria splendens*)

*Leiognathus* sp (of Jones, 1985)

Jones, G. 1985, p. 295; Blaber *et al.*, 1993b, p. 107

\**Secutor ruconius* (Hamilton-Buchanan, 1822)

Fischer and Whitehead, 1974, Vol. II. A doubtful record for Fiji.

### Bramidae (Pomfrets)

*Brama dussumieri* Cuvier in Cuvier and Valenciennes, 1831

Williams, 1997, p. 4; Carpenter and Niem, 2001, pp. 2831

*Brama japonica* (Hilgendorf, 1878)

Carlson, 1975, p. 89

*Brama myersi* Mead, 1972

Carpenter and Niem, 2001, pp. 2833

*Brama orcini* Cuvier, 1831

Mead, 1972, pp. 73, 148; Carpenter and Niem, 2001, pp. 2812

*Eumegistus illustris* Jordan and Jordan, 1922

Raj and Seeto, 1984; Fishbase 2009, p. 8

*Pteraclis aesticola* (Jordan and Snyder, 1901)

Carpenter and Niem, 2001, pp. 2834

*Pterycombus petersii* (Hilgendorf, 1878)

Carpenter and Niem, 2001, pp. 2835

*Taractes rubescens* (Jordan and Jordan, 1887)

Carpenter and Niem, 2001, pp. 2836

*Taractichthys steindachneri* (Doderlein, 1883)

Carpenter and Niem, 2001, pp. 2836

### Girellidae

*Girellops* sp.

Gifford, 1951, p. 210. This family is not currently known from Fiji. The record by Gifford (*lit. cit.*), followed by Fowler (1955b), is based upon bone fragments collected during excavations in Fiji.

### Carangidae (Jacks and Trevallies)

*Alectis ciliaris* (Bloch, 1787)

Carlson, 1975, p. 88; Nimmerfroeh, 2006, p. 39

*Alectis indicus* (Rüppell, 1830)

Schmeltz, 1869, p. 17 (as *Caranx gallus* non Linnaeus)

*Alepes djedaba* (Forsskål, 1775)

Whitley, 1927a, p. 5 (as *Caranx parisitus*)

*Alepes kleinii* (Bloch, 1793)

Whitley, 1927, p. 5 (as *Caranx parasitus*)

*Alepes melanoptera* Swainson, 1839

Fisher and Whitehead, 1974, Vol I.

*Atropus atropus* (Bloch and Schneider, 1801)

Fischer and Whitehead, 1974, Vol. I.

*Atule mate* (Cuvier, 1833)

Fowler, 1928, p. 145; Carpenter and Niem, 1999, p. 2692

*Carangichthys dinema* (Bleeker, 1851)

Carlson, 1975, p. 27

*Carangoides chrysophrys* (Cuvier and Valenciennes, 1833)

Carlson, 1975, p. 89

*Carangoides ciliaris* (Rüppell, 1830)

Fischer and Whitehead, 1974, Vol I.

*Carangoides coeruleopinnatus* (Rüppell, 1830)

Mead, 1980, pp. 9, 12 (as *Carangoides caeruleopinnatus*); Carpenter and Niem, 1999, p. 2695; Randall, 2005, p. 223

*Carangoides diversa* (Whitley, 1940)

Carlson, 1975, p. 89

\**Carangoides ferdau* (Forsskål, 1775)

Schmeltz, 1879, p. 45 (as *Caranx ferdau*); Pöhl, 1884, p. 10 (as *Caranx ferdau*); Fowler, 1928, p. 150; Fishbase-10-June-1996; Carpenter and Niem, 1999, p. 2699; Nair, 2003, p. 50. An unreliable record for this species in Fiji. It is probably replaced by *Carangoides orthogrammus* (= *C. jordani*) in the Western Pacific Ocean.

*Carangoides hedlandensis* (Whitley, 1934)

Anon., 1983c, (poster)

*Carangoides malabaricus* (Bloch and Schneider, 1801)

Fischer and Whitehead, 1974, Vol I.

*Carangoides oblongus* (Cuvier, 1833)

Lal *et al.*, 1983, p. 25; Carpenter and Niem, 1999, p. 2705; Randall, 2005, p. 226

*Carangoides orthogrammus* (Jordan and Gilbert, 1882)

Whitley, 1927a, p. 4 (as *Caranx jordani*); Carpenter and Niem, 1999, p. 2706

*Carangoides plagiotænia* Bleeker, 1857

Anon., 1981, p. 54; Chapman, Taumaia and Preston, 1984, p. 14 (*Carangoides compressus* Day, 1878); Carpenter and Niem, 1999, p. 2707

*Caranx caballus* Günther, 1868

Burgess *et al.*, 1988, p. 249. Circumtropical.

*Caranx heberi* (Bennett, 1830)

Fishbase-10-June-1996. This is probably the same as *C. sem* (below).

*Caranx hippos* Linnaeus, 1758

Burgess *et al.*, 1988, p.251. Circumtropical.

*Caranx ignobilis* (Forsskål, 1775)

Fischer and Whitehead, 1974, Vol I.; Boseto, 2005, p. 198; Carpenter and Niem, 1999, p. 2712; Earle, 2004, p.2

*Caranx lugubris* Poey, 1860

Mead, 1980, pp. 9, 12; Carpenter and Niem, 1999, p. 2713

*Caranx melampygus* Cuvier, 1833

Kendall and Goldsborough, 1911, p. 268; Carpenter and Niem, 1999, p. 2714; Earle, 2004, p.2

*Caranx papuensis* Alleyne and Macleay, 1877

Anon., 1981, pp. 54, 91; Carpenter and Niem, 1999, p. 2715; Boseto, 2005, p. 198

*Caranx sansum* (Forsskål, 1775)

Carlson, 1975, p. 88. Some authors think this species is the same as *C. papuensis*.

*Caranx sem* (Valenciennes, 1833)

Smith and Heemstra, 1986, p. 648

*Caranx sexfasciatus* Quoy and Gaimard, 1824

Jordan and Dickerson, 1908, p. 610 (as *C. fosteri*); Carpenter and Niem, 1999, p. 2716; Earle, 2004, p.2; Boseto, 2005, p. 198

*Caranx tille* Cuvier, 1833

Fischer and Whitehead, 1974, Vol. I; Carpenter and Niem, 1999, p. 2717; Randall, 2005, p. 231; Boseto, 2005, p. 198

*Decapturus* sp.

J. Seeto, *pers. comm.*, specimen at the Marine Reference collect at USP (un-catalogued)

*Decapterus kurroides* Bleeker, 1855

Carpenter and Niem, 1999, p. 2718

*Decapterus macarellus* (Cuvier, 1833)

Anon., 1984, p. 2; Carpenter and Niem, 1999, p. 2719

*Decapterus macrosoma* Bleeker, 1851

Fischer and Whitehead, 1974, Vol I.

*Decapterus muroadsi* (Temminck & Schlegel, 1842)

Fischer and Whitehead, 1974, Vol I. (as *Decapterus maruadsi*)

*Decapterus pinnulatus* (Eydous and Souleyet, 1841)

Uchida, 1978, p. 13. An unsubstantiated record for Fiji.

*Decapterus russelli* (Rüppell, 1830)

Blaber *et al.*, 1993b, p. 105

*Decapterus tabl* Berry, 1968

Burgess *et al.*, 1988, p.249 (Circumtropical); Nair, 2003 p. 50.

*Elagatus bipinnulatus* (Quoy and Gaimard, 1824)

Herre, 1953, p. 272; Carpenter and Niem, 1999, p. 2724; Earle, 2004, p.2

*Gnathanodon speciosus* (Forsskål, 1775)

Günther, 1880, p. 35 (as *Caranx speciosus*); Carpenter and Niem, 1999, p. 2725; Earle, 2004, p.2

*Megalaspis cordyla* (Linnaeus, 1758)

UNDP/FAO, 1974, p. 26; Fischer and Whitehead, 1974, Vol. I.; Randall, 2005, p. 234; Carpenter and Niem, 1999, p. 2726

*Naucrates ductor* (Linnaeus, 1758)

Fischer, 1978, Vol. I.

*Scomberoides lysan* (Forsskål, 1775)

Kendall and Goldsborough, 1911, p. 267 (as *S. tolooparah*); Schmeltz, 1869, p. 17 (as *Chorinemus sancti-petri*); Carpenter and Niem, 1999, p. 2732

*Scomberoides tol* (Cuvier, 1832)

Lee, 1973, p. 28; Fischer and Whitehead, 1974, Vol 1; Randall, Allen and Steene, 1990.(197) p. 165; Lewis (n.d.) Fisheries photo;

.Lieske and Myers, 1994, p. 42; ICLARM Fish Base; Carpenter and Niem, 1999, p. 2734; Randall, 2005, p. 235; Boseto, 2005, p. 198. According to Gushiken (1983, p. 161), *S. tol* is not found east of the New Guinea - Solomon region. Other reports suggested that this is not found in Fiji.

*Selar boops* (Cuvier and Valenciennes, 1833)

Fischer and Whitehead, 1974, Vol. I

*Selar* sp. (maybe *Selar boops*)

J. Seeto, *pers. comm.*; specimen at the Marine Reference collect at USP

*Selar crumenophthalmus* (Bloch, 1793)

Herre, 1936, p. 112 (as *Trachurops macrophthalmus*); Carpenter and Niem, 1999, p. 2736

*Selaroides leptolepis* Kuhl and Van Hasselt in Valenciennes, 1833

Fischer and Whitehead, 1974, Vol I.

*Seriola dumerili* (Risso, 1810)

Carlson, 1975, p. 89 (as *S. purpurescens*); JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

*Seriola rivoliana* Valenciennes, 1833

Cavuilati, 1980, p. 14; Mead, 1980, pp. 9, 12

*Seriolina nigrofasciata* (Rüppell, 1829)

Fisher and Whitehead, 1974, Vol. I.; Lewis (n.d.) Fisheries photo.

*Trachinotus bailloni* (Lacépède, 1801)

Carlson, 1975, p. 27; Carpenter and Niem, 1999, p. 2745

*Trachinotus blochii* (Lacépède, 1801)

Fischer and Whitehead, 1974, Vol. I.

\**Ulua mentalis* Ehrenberg in Valenciennes, 1833

Fischer and Whitehead, 1974, Vol. I. A doubtful record for Fiji.

*Uraspis helvola* (Forster, 1801)

Fischer and Whitehead, 1974, Vol. I; .Fishbase-10-June-1996. A doubtful record from Fiji; Randy Thaman photographed a specimen at the Raiwaqa market in January 2007.

### **Coryphaenidae (Dolphinfish)**

*Coryphaena equiselis* Linnaeus, 1758

Fischer and Whitehead, 1974, Vol. II.; Carpenter and Niem, 1999, p. 2657

*Coryphaena hippurus* Linnaeus, 1758

Hornell, 1940, p. 21, 86; Carpenter and Niem, 1999, p. 2658

### **Menidae (Moonfish)**

*Mene maculata* (Bloch and Schneider, 1801)

Carlson, 1975, p. 29

### **Lactariidae (False trevallies)**

*Lactarius lactarius* (Bloch and Schneider, 1801)  
Carlson, 1975, p. 22; Carpenter and Niem, 1999, p. 2649

#### **Centrolophidae (Medusafishes)**

*Hyperoglyphe antarctica* (Carmichael, 1819)  
JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. This fish is now regularly caught by longline fishing south of Fiji's Exclusive Economic Zone.

#### **Nomeidae (Driftfishes)**

*Cubiceps baxteri* McCulloch, 1923  
Carpenter and Niem, 2001 (Volume 6), p. 3777

*Cubiceps caeruleus* Regan, 1914.  
Nair, 2003, p. 61 (as *Cubiceps caeruleus*)

*Cubiceps capensis* (Smith, 1849)  
Carpenter and Niem, 2001 (Volume 6), p. 3777

*Cubiceps pauciradiatus* Gunther, 1872  
Carpenter and Niem, 2001 (Volume 6), p. 3778

*Nomeus gronovii* (Gmelin, 1789)  
Burgess *et al.*, 1988, p. 606 (Circumtropical); Carpenter and Niem, 2001 (Volume 6), p. 3778

*Psenes arafurensis* Gunther, 1889  
Carpenter and Niem, 2001 (Volume 6), p. 3778

*Psenes cyanophrys* Cuvier and Valenciennes, 1833  
Carpenter and Niem, 2001 (Volume 6), p. 3779

*Psenes pellucidus* Lütken, 1880  
Burgess *et al.*, 1988, p. 606 (Circumtropical); Carpenter and Niem, 2001 (Volume 6), p. 3779

#### **Ariommidae**

*Ariomma evermanni* Jordan and Snyder, 1907  
Raj and Seeto, 1984

*Ariomma indicum* (Day, 1870)  
Blaber *et al.*, 1993b, p. 104; Milton, Rawlinson, and Sesewa, 1993, p. 94 (as *A. indica*)

#### **Echeneidae (Suckerfish)**

*Echeneis naucrates* Linnaeus, 1758  
Günther, 1888, p. 18; Carpenter and Niem, 1999, p. 2654; Earle, 2004, p.2

*Echeneis naucratoides* Duméril, 1858  
Burgess *et al.*, 1988, p. 244. Circumtropical.

*Remora remora* (Linnaeus, 1758)  
Jordan and Dickerson, 1908, p. 617; Earle, 2004, p.2

#### **Scombridae (Mackerels and Tunas)**

*Acanthocybium solandri* (Cuvier, 1831)

Wright, 1969, p. 221; Carpenter and Niem, 2001 (Volume 6), p. 3727

\**Auxis rochei* (Risso, 1810)  
Fischer and Whitehead, 1974, Vol. IV. A doubtful record for Fiji.

*Auxis thazard* (Lacépède, 1800-1801)  
UNDP/FAO, 1974, p. 26; Fischer and Whitehead, 1974, Vol. IV; Nair, 2003, p. 60 (as *Auxis thazard thazard*)

*Euthynnus affinis* (Cantor, 1849)  
Lee, 1973, p. 30 (as *E. yaito*)

*Grammatorcynus bilineatus* (Rüppell, 1836)  
UNDP/FAO, 1974, p. 26 (as *G. bicarinatus* non Quoy and Gaimard); Carpenter and Niem, 2001 (Volume 6), p. 3734; Randall, 2005, p. 610

*Gymnosarda unicolor* (Rüppell, 1838)  
UNDP/FAO, 1974, p. 26 (as *G. nuda*)

*Katsuwonus pelamis* (Linnaeus, 1758)  
Hornell, 1940, pp. 21, 86; Carpenter and Niem, 2001 (Volume 6), p. 3736

*Rastrelliger brachysoma* (Bleeker, 1851)  
Jordan and Dickerson, 1908, p. 609; Carpenter and Niem, 2001 (Volume 6), p. 3737

*Rastrelliger faughni* Matsui, 1967  
Lewis *et al.*, 1983a, p. 4; Carpenter and Niem, 2001 (Volume 6), p. 3738

*Rastrelliger kanagurta* (Cuvier, 1829-1816)  
Günther, 1873 - 1910, 5, p. 149; Carpenter and Niem, 2001 (Volume 6), p. 3739

\**Scomber australasicus* Cuvier, 1831  
Fischer and Whitehead, 1974, Vol. IV. A doubtful record for Fiji.

*Scomberomorus commerson* (Lacépède, 1800)  
Jordan and Dickerson, 1908, p. 610; Carpenter and Niem, 2001 (Volume 6), p. 3743; Randall, 2005, p. 611

*Scomberomorus queenslandicus* Munro, 1943  
Colette and Russo, 1978, p. 13

*Thunnus alalunga* (Bonnaterre, 1788)  
Fischer and Whitehead, 1974, Vol. IV; Carpenter and Niem, 2001 (Volume 6), p. 3752

*Thunnus albacares* (Bonnaterre, 1788)  
Hornell, 1940, pp. 2, 87 (as *Neothunnus macropterus*); Carpenter and Niem, 2001 (Volume 6), p. 3753

*Thunnus maccoyi* (Castelnau, 1872)  
Fiji Post, 1995, December 5th p. 5

*Thunnus obesus* (Lowe, 1839)

Anon., 1980, p. 90; Carpenter and Niem, 2001 (Volume 6), p. 3755

*Thunnus thunnus* (Linnaeus, 1758)

Burgess *et al.*, 1988, p. 601. Circumglobal. A doubtful record for Fiji.

#### **Gempylidae (Snake Mackerels or Castor Oil fish)**

*Diplospinus multistriatus* Maul, 1948

Nakamura and Parin, 1993, p. 25; Carpenter and Niem, 2001 (Volume 6), p. 3705

*Gempylus serpens* Cuvier, 1829

Burgess *et al.*, 1988, p. 601 (Circumtropical); Nakamura and Parin, 1993, p. 28; Carpenter and Niem, 2001 (Volume 6), p. 3705

*Lepidocybium flavobrunneum* (Smith, 1843-49)

Lewis (n.d.) Fisheries Photo; Nakamura and Parin, 1993, p. 29; Carpenter and Niem, 2001 (Volume 6), p. 3703

*Nealotus tripes* Johnson, 1865

Nakamura and Parin, 1993, 31; Carpenter and Niem, 2001 (Volume 6), p. 3705

*Neopinnula orientalis* (Gilchrist et von Bonde)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Nair, 2003, p. 64; Fishbase 2009, p. 13.

*Promethichthys prometheus* (Cuvier in Cuvier and Valenciennes, 1832)

Carlson, 1975, p. 72

*Rexea antefurcata* Parin, 1989

Nakamura and Parin, 1993, 44; Carpenter and Niem, 2001 (Volume 6), p. 3707

*Rexea prometheoides* (Bleeker, 1856)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Fishbase 2009, p. 16

*Ruvettus pretiosus* Cocco, 1829

Anon., 1980, p. 90; Carpenter and Niem, 2001 (Volume 6), p. 3708

*Thyrstoides marleyi* Fowler, 1929

Anon., 1982a, p. 70

*Tongaichthys robustus* Nakamura and Fuji, 1983

JICA, 1987, p. 111. Fiji or Tuvalu; Nakamura and Parin, 1993, p. 60; Carpenter and Niem, 2001 (Volume 6), p. 3708; Fishbase 2009, p. 18

#### **Chauliodontidae (Viperfish)**

Unidentified (?*Argyropelicus* sp.)

ORSTOM trip to Bligh waters (August, 1998). Specimen uncatalogued at the Marine Reference collection, USP.

#### **Melanostomidae (scaleless black dragonfish)**

?*Melanostomias* sp

ORSTOM trip to Bligh waters (August, 1998). Specimen with Peter Newell. Same data as above; from 780 m.

#### **Istiophoridae (Marlins and Billfishes)**

*Istiophorus orientalis* (Temminck and Schlegel, 1844)

Fowler, 1959, p. 583 (as *I. gladius*)

*Istiophorus platypterus* (Shaw and Nodder, 1791-92)

Anon., 1980, p. 90; Jones and Kumaran, (1962?), 1980, p. 590; Carpenter and Niem, 2001 (Volume 6), p. 3764

*Makaira ampla* (Poey, 1860)

Fiji Times, 21 August, 1971, p. 10

*Makaira indica* (Cuvier, 1831-32)

Anon., 1980, p. 90; Carpenter and Niem, 2001 (Volume 6), p. 3764

*Makaira mazara* (Jordan and Snyder, 1901)

Jones and Kumaran, (1962?)1980, p. 489; Carpenter and Niem, 2001 (Volume 6), p. 3762

*Makaira nigricans* Lacépède, 1803

Anon., 1980, p. 90

*Tetrapterus albidus* Poey, 1860

Anon., 1980, p. 90

*Tetrapterus angustirostris* Tanaka, 1915

Anon., 1980, p. 90; Carpenter and Niem, 2001 (Volume 6), p. 3764

*Tetrapterus audax* (Philippi, 1887)

Jones and Kumaran, 1962 (or 1980), p. 489 (as *Makaira mitsukurii*); Ueyanagi, 1962, p. 518 (as *Makaira mitsukurii*); Carpenter and Niem, 2001 (Volume 6), p. 3763; Nair, 2003, p. 61 (as *Tetrapturus audax*)

#### **Xiphiidae (Sailfish)**

*Xiphias gladius* Linnaeus, 1758

Thurston, 1881, p. 22; Carpenter and Niem, 2001 (Volume 6), p. 3757

#### **Trichiuridae (Cutlass fish or Belt fish)**

\**Lepuracanthus savala* (Cuvier, 1829)

Fischer and Whitehead, 1974, Vol. IV. A doubtful record for Fiji.

*Trichiurus lepturus* Linnaeus 1758

Hornell, 1940, p. 87 (as *Trichiurus haumela* (Forsskål, 1775); Nakamura and Parin, 1993, p. 106; Blaber *et al.*, 1993a, p. 60; Blaber *et al.*, 1993, p. 110; Boseto, 2005, p. 199

#### **Emmelichthyidae (Bonnetmouth)**

*Erythrocles schlegeli* Richardson, 1846

Specimen seen in Cakaudrove Fisheries 1999; Randy Thaman took a photo Feb 2006 at the same place

**Caesionidae (Fusiliers)**

*Caesio caerulea* Lacépède, 1801

Fischer and Whitehead, 1974, Vol. II. (as *C. caerulea*); Carpenter and Niem, 2001, p. 2926; Earle, 2004, p.2

*Caesio cuning* (Bloch, 1791)

Schmeltz, 1869, p. 13 (as *Odontonectes erythrogaster*)

*Caesio lunaris* Cuvier, 1830

Emery and Winterbottom, 1983, p. 13

*Caesio teres* Seale, 1906

Carpenter, 1987, p. 20; Carpenter and Niem, 2001, p. 2929; Earle, 2004, p.2

*Dipterygonotus balteatus* (Valenciennes, 1830)

Kearney, 1978, p. 7 (as *D. gymnopterus* Bleeker, 1856)

*Gymnocaesio gymnoptera* (Bleeker, 1856)

Carpenter, 1987, p. 51; Carpenter and Niem, 2001, p. 2932; Randall, 2005, p. 260

*Pterocaesio chrysozona* Cuvier, 1830

Fischer and Whitehead, 1974, Vol. II (as *Caesio chrysozona*);

*Pterocaesio diagramma* (Bleeker, 1865)

Kearney, 1982, p. 6

*Pterocaesio marri* Schultz, 1953

Zug *et al.*, 1988, p. 7; Earle, 2004, p.3

*Pterocaesio pisang* (Bleeker, 1853)

Kearney, 1982, p. 5; Carpenter and Niem, 2001, p. 2937; Earle, 2004, p.3; Randall, 2005, p. 261

*Pterocaesio tile* (Cuvier, 1830)

Lewis *et al.*, 1983c, p. 63; Carpenter and Niem, 2001, p. 2940

*Pterocaesio trilineata* Carpenter, 1987

Lewis *et al.*, 1983c, p. 63 (as *Pterocaesio* n. sp.); Carpenter, 1987, p. 43; Carpenter and Niem, 2001, p. 2941; Earle, 2004, p.3; Randall, 2005, p. 262 (type specimen-Fiji)

**Lutjanidae (Snappers)**

*Aphareus furca* (Lacépède, 1801-02)

Anon., 1983b, p. 24 (as *A. furcatus*); Lewis *et al.*, 1983a, pp. 7, 56 (as *A. furcatus*); Carpenter and Niem, 2001, p. 2854; Earle, 2004, p.2

*Aphareus rutilans* Cuvier and Valenciennes, 1831

Carlson, 1975, p. 30; Carpenter and Niem, 2001, p. 2855

*Aprion virescens* Valenciennes, 1830

Kner, 1868, (as *Sparopsis latifrons*, p. 27, and *S. elongatus*, p. 303); Carpenter and Niem, 2001, p. 2856

*Etelis carbunculus* Cuvier, 1828

Anon., 1979, p. 64 (as *E. marshi*); Carpenter and Niem, 2001, p. 2857

*Etelis coruscans* Valenciennes, 1862

Anon., 1982a, p. 76; Fourmanoir, 1982, p. 92; Carpenter and Niem, 2001, p. 2858

\**Etelis oculatus* (Cuvier and Valenciennes, 1828)

Mead, 1980, p. 10; Anon., 1980, p. 60. This species is similar to, and is often mistaken in the Pacific for *Etelis coruscans* and *Etelis oculatus*, which have a West Indian distribution.

*Etelis radiosus* Anderson, 1981

Anon., 1982a, p. 76; Fourmanoir, 1982, p. 92; Carpenter and Niem, 2001, p. 2859

*Lutjanus argentimaculatus* (Forsskål, 1775)

Herre, 1936, p. 180 (as *Lutianus argentimaculatus*); Carpenter and Niem, 2001, p. 2862

\**Lutjanus aureovittatus* (Macleay, 1879)

Jordan and Dickerson, 1908, p. 611 (as *Lutianus aurovittatus*). The identity of this fish remains to be sorted. *Mesoprion aurovittatus* Agassiz, 1829 is now *Ocyurus chrysurus* (Bloch, 1790) and is a tropical east coast America species

*Lutjanus biguttatus* (Valenciennes, 1830)

Carlson, 1975, p. 30; Randall, 2005, p. 244

*Lutjanus bohar* (Forsskål, 1775)

Gifford, 1951, p. 210; Carpenter and Niem, 2001, p. 2866; Earle, 2004, p.2

*Lutjanus boutton* (Lacépède, 1802)

Hombron and Jacquinot, 1853, p. 37 (as *Diacope vitianus*); Williams, 1997, p. 11 (as *Lutjanus rufolineatus*). See *L. rufolineata* below.

\**Lutjanus carponotatus* (Richardson, 1842)

Schmeltz, 1869, p. 13 (as *Mesoprion carponotus*); Greenberg, 1985, p. 1. Allen and Talbot (1985) show this species to be from Australian, Papua New Guinea and south-east Asia. A doubtful species from Fiji.

*Lutjanus ehrenbergi* Peters, 1869

Lewis, 1983, p. 28; Singleton, 1997, pp. ii, 98; Randall, 2005, p. 246; Randall *et al.*, 2005, p. 122. According to Allen (1985), the distribution for this species is from the Red Sea to far east as the Solomon and Mariana islands.

*Lutjanus fulviflamma* (Forsskål, 1775)

Schmeltz, 1869, p. 13 (as *Mesoprion fulviflamma*); Carpenter and Niem, 2001, p. 2873; Earle, 2004, p.2

*Lutjanus fulvus* (Bloch and Schneider, 1801)

Günther, 1880, Vol. 1, p. 34 (as *Mesoprion marginatus*); Fowler, 1940, p. 772 (as *Lutjanus vaigensis*); Carpenter and Niem, 2001, p. 2874; Earle, 2004, p.2



*\*Lutjanus fuscescens* (Valenciennes, 1830)

Singleton, 1997, p. ii. It is found in Asia and as far to the Solomon Islands. Its presence in Fiji is doubtful.

*Lutjanus gibbus* (Forsskål, 1775)

Kendall and Goldsborough, 1911, p. 286 (as *Lutjanus gibbus*); Carpenter and Niem, 2001, p. 2876; Earle, 2004, p.2

*Lutjanus johnii* (Bloch, 1792)

Kendall and Goldsborough, 1911, p. 287 (as *Lutjanus johnii*); Carpenter and Niem, 2001, p. 2878; Randall, 2005, p. 248

*Lutjanus kasmira* (Forsskål, 1775)

Günther, 1859 - 1870, 1, p. 178 (as *Mesoprion bengalensis*); Carpenter and Niem, 2001, p. 2879; Earle, 2004, p.2

*\*Lutjanus lemniscatus* (Valenciennes, 1828)

Fischer and Whitehead, 1974, Vol. II. (as *Lutjanus janthinuropterus*) doubtful Allen and Talbot (1985) record this from Australia / S. E. Asia.

*Lutjanus lunulatus* (Mungo Park, 1797)

Lal *et al.*, 1983, p. 28; Boseto, 2005, p. 198

*Lutjanus lutjanus* Bloch, 1790

Fischer and Whitehead, 1974, Vol. II. (as *Lutjanus lineolatus*); J. Seeto, *pers. comm.*, USP specimen (as *Lutjanus lineolatus*); UVC, 1995, Appendix 5.3

*Lutjanus malabaricus* (Bloch and Schneider, 1801)

Fischer and Whitehead, 1974, Vol. II.; Carpenter and Niem, 2001, p. 2884

*Lutjanus monostigma* (Cuvier, 1828)

Fowler, 1929, p. 6; Carpenter and Niem, 2001, p. 2887; Earle, 2004, p.2

*\*Lutjanus notatus* (Cuvier, 1828)

Raj, 1981, p.10 (as *Lutjanus caeruleovittatus*). A doubtful record for Fiji, as this is an Indian Ocean species (Allen and Talbot, 1985).

*Lutjanus quinquelineatus* (Bloch, 1790)

Allen and Talbot, 1985, pp. 64, 65. (as *Lutjanus spilurus* (Bennett, 1832); Fowler, 1928, p. 195 (as *L. kasmira* non Forsskål); Carpenter and Niem, 2001, p. 2888; Randall, 2005, p. 250

*Lutjanus rivulatus* (Cuvier, 1828)

Cavuilati, 1980, p. 11; JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Carpenter and Niem, 2001, p. 2889; Earle, 2004, p.2

*Lutjanus rufolineata* Valenciennes in Cuvier and Valenciennes, 1830

Raj, 1981 (as *Lutjanus rufolineatus*); Carpenter and Niem, 2001, p. 2890. This species was named as a junior synonym of *Lutjanus bouton* for a period.

*Lutjanus russelli* (Bleeker, 1849)

Carlson, 1975, p. 31; Carpenter and Niem, 2001, p. 2891; Randall, 2005, p. 251

*\*Lutjanus sanguineus* (Cuvier, 1828)

Fischer and Whitehead, 1974, Vol. II.

*\*Lutjanus sebae* (Cuvier, 1828)

Fischer and Whitehead, 1974, Vol. II. A doubtful record as this species does not reach Fiji.

*Lutjanus semicinctus* (Quoy and Gaimard, 1824)

Günther, 1880, Vol. 1, p. 34; Carpenter and Niem, 2001, p. 2893; Earle, 2004, p.2; Randall, 2005, p. 253

*Lutjanus timorensis* (Quoy and Gaimard, 1824)

Anon., 1983b, p. 25; Carpenter and Niem, 2001, p. 2895

*Lutjanus vitta* (Quoy and Gaimard, 1824)

Fischer and Whitehead, 1974, Vol. II

*Macolor macularis* Fowler, 1931

Jennings and Polunin, 1996, p. 402; Randall, 2005, p. 254

*Macolor niger* (Forsskål, 1775)

Schmeltz, 1869, p. 13 (as *Genyoroge macolor*); Carpenter and Niem, 2001, p. 2898; Earle, 2004, p.2

*Paracaesio caeruleus* (Katayama, 1934)

Anon., 1982a, p. 68

*Paracaesio gonzalesi* Fourmanoir and Rivaton, 1979

Raj and Seeto, 1983b, p. 453; Carpenter and Niem, 2001, p. 2899

*Paracaesio kusakarii* Abe, 1960

Cavuilati, 1980, p. 14; Mead, 1980, pp. 10, 13; Carpenter and Niem, 2001, p. 2900

*Paracaesio sordidus* Abe and Shinohara, 1962

Fishbase (ICLARM) p. 6 (citing FAO 1990, SPECIESDAB); Carpenter and Niem, 2001, p. 2902; Fishbase 2009, p. 13 (as *Paracaesio sordida*)

*Paracaesio stonei* Raj and Seeto, 1983

Raj and Seeto, 1983b, p. 450; Carpenter and Niem, 2001, p. 2903

*Paracaesio xanthurus* (Bleeker)

JICA, 1987, p. 111 (volume 2). Fiji or Tuvalu. Possibly mis-identified.; Carpenter and Niem, 2001, p. 2904; Nair, 2003, p. 55; Specimern seen in Cakaudrove Fish (2003); Randy Thaman picture 2006; Fishbase 2009, p. 13 (as *Paracaesio xanthura*)

*Parapristipomoides squamimaxillaris* (Kami, 1973)

Specimen seen in Cakaudrove Fish Co, Suva by author.

*Pinjalo pinjalo* (Bleeker, 1850)

Anon., Nda, p. 16;

*Pinjalo lewisi* Randall, Allen and Anderson, 1987

Randall, Allen, and Anderson, 1987, pp. 12, 14, 15; Carpenter and

Niem, 2001, p. 2906; Randall, 2005, p. 255

*Pristipomoides argyrogrammicus* (Valenciennes, 1830-1831)

Mead, 1980, p. 10 ; Raj, 1981, p. 10 (as *Pristipomoides amoneus* Snyder, 1911); Carpenter and Niem, 2001, p. 2908

*Pristipomoides auricilla* (Jordan, Evermann, and Tanaka, 1927)

Raj and Seeto, 1984, (no page number); Chapman, Taumaia and Preston, 1984, p. 134; Carpenter and Niem, 2001, p. 2909

*Pristipomoides filamentosus* (Valenciennes, 1830)

Carlson, 1975, p. 32; Carpenter and Niem, 2001, p. 2910

*Pristipomoides flavipinnis* Shinohara, 1963

Carlson, 1975, p. 32; Carpenter and Niem, 2001, p. 2911

*Pristipomoides multidens* (Day, 1870)

Anon., 1980, p. 59; Carpenter and Niem, 2001, p. 2912

*Pristipomoides sieboldii* (Bleeker, 1857)

ICLARM Fishbase, p. 6 (citing FAO, 1990); Carpenter and Niem, 2001, p. 2913; Nair, 2003, pp. 55 and 64.

\**Pristipomoides typus* Bleeker, 1852

Fischer and Whitehead, 1974, Vol. II.

*Pristipomoides zonatus* (Valenciennes, 1830)

Cavuilati, 1980, p. 14; Mead, 1980, pp. 10, 13; Carpenter and Niem, 2001, p. 2914

*Randallichthys filamentosus* (Fourmanoir, 1970)

Lewis (n. d.) Fisheries photo; JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

*Symphorus nematophorus* (Bleeker, 1860)

Fowler, 1940, p. 775 (fig 55) (as *S. fosteri*)

#### Nemipteridae (Threadfin)

*Nemipterus aurifilum* (Ogilby, 1910)

Raj, 1981, p. 10

*Nemipterus bathybius* (Snyder, 1911)

Raj and Seeto, 1984

*Nemipterus vitiensis* Russell, 1990

Russell, 1990a, p. 35; Russell, 1990b, p. 61; Carpenter and Niem, 2001, p. 3081

*Nemipterus zysron* (Bleeker, 1856-57)

J. Seeto, *pers. comm.* (as *Nemipterus metopias* (Bleeker, 1857); Russell, 1990b, p. 63; Carpenter and Niem, 2001, p. 3081; Randall, 2005, p. 282

*Parascalopsis eriomma* (Jordan and Richardson, 1909)

Raj and Seeto, 1984, (no page number) (as *Scolopsis eriomma*)

*Parascalopsis inermis* (Temminck and Schlegel, 1842)

Raj, 1981, p. 9 (as *Scolopsis inermis*)

\**Pentapodus* sp.

Carlson, 1975, p. 29 (as unidentified)

*Pentapodus* sp. (yellow striped whiptail)

Randall, Allen and Steene, 1990, p. 205; Russell, 1990b, p. 92; Lieske and Myers, 1994, p. 51; Carpenter and Niem, 2001, p. 3085

*Scolopsis bilineatus* (Bloch, 1793)

Kner, 1868, p. 302; Carpenter and Niem, 2001, p. 3087; Earle, 2004, p.3; Randall, 2005, p. 284; Randall, 2005b, p. 307; Fishbase 2009, p. 17 (as *S. bilineata*)

*Scolopsis monogramma* (Cuvier and Valenciennes, 1830)

Fowler, 1928, p. 209

*Scolopsis temporalis* (Cuvier and Valenciennes, 1830)

Schmeltz, 1869, p. 14 (as *Scolopsides temporalis*); Carpenter and Niem, 2001, p. 3088; Randall, 2005, p. 285

*Scolopsis trilineatus* Kner, 1868

Günther, 1874, 1, p. 31; Carpenter and Niem, 2001, p. 3089; Nair, 2003, p. 56 (as *S. trilineata*)

#### Drepanidae

\**Drepane punctata* (Linnaeus, 1758)

Fischer and Whitehead, 1974. Vol. II; Nair, 2003, p. 51; Fishbase 2009, p. 7. A doubtful record for Fiji.

#### Haemulidae (Sweetlips)

*Plectorhinchus albobittatus* (Rüppell, 1835)

Günther, 1871, p. 657 (as *Diagramma obscurum* Günther, 1872); Randall, 2005, p. 266; Gunther, 1872, p. 657 (as *Plectorhinchus obscurum* Gunther, 1872) – Holotype; Nair, 2003, p. 51 (as *Plectorhinchus obscurus*); Carpenter and Niem, 2001, p. 2970 – see *Plectorhinchus obscurus* below.

*Plectorhinchus chaetodonoides* (Lacépède, 1800)

Günther, 1880, p. 34 (as *Diagramma pardale*); Carpenter and Niem, 2001, p. 2971; Earle, 2004, p.3; Nimmerfroh, 2006, p. 38

*Plectorhinchus cuvieri* (Bennett, 1830)

Carlson, 1975, p. 33 (as *Plectorhynchus cuvieri*)

*Plectorhinchus diagrammus* Linnaeus, 1758 – see *Plectorhinchus lessoni* below. This may be a valid species.

*Plectorhinchus gibbosus* (Lacépède, 1802)

Carlson, 1975, p. 90 (as *Plectorhynchus nigrus*); Carpenter and Niem, 2001, p. 2974; Boseto, 2005, p. 198

*Plectorhinchus lessoni* (Cuvier, 1830)

Lewis (n.d.) Fisheries photo (as *Plectorhinchus diagrammus* (Linnaeus, 1758); Rawlinson *et al.*, (n.d. ca 1995), p. 59. (as *Plectorhynchus diagramma*); Nair, 2003, p. 53 (as *P. diagrammus*); Fishbase 2009, p. 14 (as *P. diagrammus*)

*Plectorhinchus lineatus* (Linnaeus, 1758)

Specimen seen in Nabukalou Creek fish market, Suva by J Seeto (August 2007). Was called *P. goldmanni*.

*Plectorhinchus occidentalis* (not a valid name)

Emery and Winterbottom, 1983, p. 22 (as *Plectorhynchus occidentalis*)

*Plectorhinchus obscurus* Gunther, 1872 – see *Plectorhinchus albovittatus* above.

Fishbase 2009, p. 14. Valid?

*Plectorhinchus picus* (Cuvier, 1830)

Günther, 1874, p. 27 (as *Diagramma pica*); JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Carpenter and Niem, 2001, p. 2978; Earle, 2004, p.3; Brown, 2006, p. 48

*Plectorhinchus pictus* (Thunberg, 1787-92)

Günther, 1880, p. 34 (as *Plectorhynchus pictus*); Whitley, 1928, p. 12 (as *P. punctatus*); Carpenter and Niem, 2001, p. 2967 (as *Diagramma pictum*)

*Plectorhinchus schotaf* (Forsskål, 1775)

Lewis (n.d.) Fisheries photo

*Plectorhinchus vittatus* Linnaeus, 1758

Lewis (n.d.) Fisheries photo (as *Plectorhinchus orientalis* (Bloch, 1793); Earle, 2004, p.3.

\**Pomadasys hasta* (Bloch, 1790)

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

\**Pomadasys maculatus* (Bloch, 1797)

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

## Lethrinidae (Emperors)

*Gnathodentex aurolineatus* (Lacepède, 1802)

Fischer and Whitehead, 1974, Vol. III; Carpenter and Niem, 2001, p. 3017

*Gymnocranius euanus* Günther, 1879

Carpenter and Allen, 1989, p. 25; Carpenter and Niem, 2001, p. 3020

*Gymnocranius grandoculis* (Valenciennes, 1830)

Fischer and Whitehead, 1974, Vol. III (as *G. robinsoni*); Anon., 1985 (poster) (as *Gymnocranius lethrinoides* (Bleeker, 1849); Carpenter and Niem, 2001, p. 3023; See *G. sp.* (three below); Calamia et al., 2008, p. 15 (as *G. grandoculus*)

*Gymnocranius griseus* (Temminck and Schlegel, 1843)

Fischer and Whitehead, 1974, Vol. III. Its presence in Fiji is questioned by Carpenter and Allen (1989).

*Gymnocranius microdon* (Bleeker, 1851)

Allen et al., 2003, p. 117

*Gymnocranius sp.*

Myers, 1991, p. 144. This fish was called *G. lethrinoides* Masuda et al., (1984). Jennings and Polunin, 1996, p. 402

*Lethrinella microdon* (Valenciennes, 1830)

Carlson, 1975, p. 29. Same as *Lethrinus microdon* below.

\**Lethrinus amboinensis* Bleeker, 1854-55

Anon., 1983b, p. 15. Carpenter and Allen (1989) say this is not found in Fiji.

*Lethrinus atkinsoni* Seale, 1909

Schmeltz, 1869, p. 14 (as *Lethrinus mahsena*); Carpenter and Niem, 2001, p. 3027; Earle, 2004, p.3. *Lethrinus mahsena* is found in East Africa, Red Sea and Southern India (Carpenter and Allen (1989). This species was known as *L. mahsena* in the Pacific.

*Lethrinus erythracanthus* Cuvier, 1830.

Fischer and Whitehead, 1974, Vol. II. (as *Lethrinus kallopterus* Bleeker, 1856); Nair, 2003, p. 54; Earle, 2004, p.3; Fishbase 2009, p. 11. This is found in Fiji but Carpenter and Allen (1989) say it is not.

\**Lethrinus haemotopterus* Temminck and Schlegel, 1842

Günther, 1880, p. 34. This species is found only in Japan, according to Carpenter and Allen (1989).

*Lethrinus harak* (Forsskål, 1775)

Schmeltz, 1869, p. 14; Carpenter and Niem, 2001, p. 3032

*Lethrinus laticaudis* Alleyne and Macleay, 1877

McGrouter, 1997, p. 6. Carpenter and Allen (1989) say this is not found in Fiji.

*Lethrinus lentjan* (Lacépède, 1802)

Herre, 1936, p. 200; Schmeltz, 1864, p. 8 (as *Lethrinus mahsenoides* Valenciennes 1830); Anon., 1980, p. 95 (as *Lethrinus glyphodon* (Günther, 1859); Carpenter and Niem, 2001, p. 3034

*Lethrinus microdon* Valenciennes in Cuvier and Valenciennes, 1830

Sighted by Nick Dulvy, 1999, in Southern Lau. See *Lethrinella microdon* above.

\**Lethrinus miniatus* (Bloch and Schneider, 1801)

Anon., 1982a, p. 76 (as *Lethrinus chrysostomus* Richardson, 1848) This is not found in Fiji (Carpenter and Allen, 1989).

*Lethrinus nebulosus* (Forsskål, 1775)

Günther, 1880, p. 34; Carpenter and Niem, 2001, p. 3037

*Lethrinus obsoletus* (Forsskål, 1775)

Günther, 1880, p. 34 (as *Lethrinus ramak* (Forsskål, 1775); Carpenter and Niem, 2001, p. 3038

*Lethrinus olivaceus* Valenciennes, 1830

Carlson, 1975, p. 90 (as *Lethrinus miniatus*); Carpenter and Niem, 2001, p. 3039; Earle, 2004, p.3. Was called *Lethrinus elongatus*

(Valenciennes, 1830) at one stage.

*Lethrinus ornatus* Valenciennes, 1830

Anon., nd, p. 12. Carpenter and Allen (1989) say this is not found in Fiji.

*Lethrinus reticulatus* Valenciennes, 1830

Kendall and Goldsborough, 1911, p. 290 (as *L. moensi*)

*Lethrinus rubrioperculatus* Sato, 1978

Günther, 1880, p. 34 (as *L. moensi*); JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Carpenter and Niem, 2001, p. 3042; Fishbase 2009, p. 11

*Lethrinus semicinctus* Valenciennes, 1830

Chapman. Taumaia and Preston. 1984, p. 13; Royal Ontario Museum Records (Great Astrolabe Reef Collection). Carpenter and Allen (1989) say this is not found in Fiji.

*Lethrinus variegatus* Valenciennes, 1830

Mead, 1980, pp. 9, 12; McGrouter, 1997, p. 6. Carpenter and Allen (1989) say this is not found in Fiji.

*Lethrinus xanthochilus* (Klunzinger, 1870)

Mead, 1980, pp. 9, 12; Carpenter and Niem, 2001, p. 3045; Earle, 2004, p.3

*Monotaxis grandoculis* (Forsskål, 1775)

Carpenter and Allen, 1989, p. 92; Carpenter and Niem, 2001, p. 3049; Earle, 2004, p.3

*Monotaxis heterodon* (Bleeker, 1854)

Schmeltz, 1869, p. 14 (as *Sphaerodon heterodon*)

*Wattsia mossambica* (Smith, 1957)

Carlson, 1975, p. 90 (as *Gnathodentex mossambica*). Carpenter and Allen (1989) say this is not found in Fiji.

#### Branchiostegidae (Tilefish)

*Branchiostegus japonicus* (Houttuyn, 1782)

Raj, 1981, p. 9 (as *B. japonicus auratus* non Kishinouye)

#### Malacanthidae (Sand Tilefish)

*Hoplotalilus starcki* Randall and Dooley, 1974

Carlson, 1975, p. 21

*Malacanthus brevirostris* Guichenot, 1848

Carlson, 1975, p. 21 (as *M. hoedtii*); Carpenter and Niem, 1999, p. 2647

*Malacanthus latovittatus* (Lacépède, 1801)

Carlson, 1975, p. 21; Carpenter and Niem, 1999, p. 2647

#### Pomacentridae (Damsel-fishes)

*Abudefduf bengalensis* (Bloch, 1787)

Brown, 2006, p. 46

\**Abudefduf saxatilis* (Linnaeus, 1758)

Herre, 1936, p. 291. Allen, 1991, p. 188 says this is not found in Fiji. An East Pacific species.

*Abudefduf septemfasciatus* (Cuvier, 1830)

Fowler, 1928, p. 318 (Fiji?); Allen, 1991, p. 188

*Abudefduf sexfasciatus* (Lacépède, 1802)

Schmeltz, 1869, p. 21 (as *Glyphidodon coelestinus*); Earle, 2004, p.4

*Abudefduf sordidus* (Forsskål, 1775)

Fowler, 1928, p. 317 (Fiji?); Allen, 1991, p. 188

\**Abudefduf* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

\**Abudefduf sparoides* (Quoy and Gaimard, 1825)

Smith, 1953, p. 283. A questionable record. A South African species that the author noted is 'Recorded from Fiji, Mauritius and Mozambique'.

*Abudefduf vaigensis* (Quoy and Gaimard, 1825)

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Allen, 1991, p. 188; Earle, 2004, p.4

*Acanthochromis polyacanthus* (Bleeker, 1855)

Kner, 1867, p. 717 (as *Pseudochromis polyacanthus*); Fishbase.org (2003). Allen, 1991, p. 188 says this is not found in Fiji.

*Amblyglyphidodon aureus* (Cuvier, 1830)

Allen, 1975a, p. 119; Carlson, 1975, p. 42; Earle, 2004, p.4; Randall, 2005, p. 349

*Amblyglyphidodon curacao* (Bloch, 1787)

Herre, 1936, p. 294 (as *Abudefduf curacao*)

*Amblyglyphidodon leucogaster* (Bleeker, 1847)

Borodin, 1932, p. 93

*Amblyglyphidodon orbicularis* (Hombron and Jacquinot, 1853)

Earle, 2004, p.4; Randall, 2005, p. 350

\**Amblyglyphidodon* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

\**Amblyglyphidodon ternatensis* (Bleeker, 1856)

Allen, 1975a, p. 90; Carlson, 1975, p. 44. Allen, 1991, p. 188 says this is not found in Fiji.

\**Amphiprion akindynos* Allen, 1972

McGrouter, 1997, p. 1; Allen, 1991, p., 188 says this is not found in Fiji. Fautin and Allen, 1992, p. 62 say this is found in eastern Australia and New Caledonia.

*Amphiprion barberi* Allen, G.R., Drew, J. & Kaufman, L. 2008

Fishbase 2009, p. 1

*\*Amphiprion bicinctus* Rüppell, 1828

Whitley, 1927, p. 6. Allen, 1991 p. 188 as well as Fautin and Allen 1992 p. 67 say this is found in the Red Sea and Chagos Archipelago.

*Amphiprion chrysopterus* Cuvier, 1830

Schmeltz, 1869, p. 21 (as *A. chrysapterus*); Carpenter and Niem, 2001, p. 3347; Allen *et al.*, 2003, p. 64; Earle, 2004, p.4; Nimmerfroh, 2006, p. 27

*Amphiprion clarkii* (Bennett, 1830)

Schmeltz, 1879, p. 51 (as *A. clarkii* var. *chrysargurus*); Allen *et al.*, 2003, p. 65; Earle, 2004, p.4; Randall, 2005, p. 351

*\*Amphiprion ephippium* Bloch, 1790

Schmeltz, 1869, p. 21. According to Allen (1972), this species is known only from the Adaman Sea and the coasts of Java and Sumatra. Allen, 1991, p. 236 says this is not found in Fiji. It is found in Asia. Fautin and Allen, 1997, p. 76 say it is found in Asia only.

*Amphiprion melanopus* Bleeker, 1852

Herre, 1936, p. 267 (as *A. frenatus*). Myers, 1991 p. 164-165 says that *A. frenatus*, *A. melanopus*, *A. rubrocinctus* and possibly *A. ephippium* are probably stable polymorphs of the same species! If that is true, *A. melanopus* is the name to use. Allen, 1991, pp. 46, 188; Fautin and Allen, 1997, p. 90; Carpenter and Niem, 2001, p. 3349; Allen *et al.*, 2003, p. 65; Earle, 2004, p.4; www.larryulrich.com/uwlocationlist.html (as *A. frenatus*). Randall, 2005, p. 351; Brown, 2006, p. 46.

*\*Amphiprion percula* (Lacépède, 1802)

Pöhl, 1884, p. 35. Allen, 1991, p. 190 says this is not found in Fiji.

*Amphiprion perideraion* Bleeker, 1855

Allen, 1975a, p. 230; Carlson, 1975, p. 4; www.amdareef.com/el\_clown.htm; www.larryulrich.com/uwlocationlist.html; Earle, 2004, p.4; Nimmerfroh, 2006, p. 28; Brown, 2006, p. 46; Fishbase 2009, p. 2. Allen (1991, p. 190) and Fautin and Allen (1997) were of the opinion that this species is not found in Fiji.

*\*Amphiprion rubrocinctus* Richardson, 1842

Whitley, 1927a, p. 6 (as *A. tricolor*). Allen, 1991, p. 190 says this is found in Western Australia only. Previous records from Fiji refers to *A. melanopus*.

*\*Chromis* sp.

Burgess and Axelrod, 1975, p. 1559

*Chromis acares* Randall and Swerdloff, 1973

Zug *et al.*, 1988, p. 12; Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Chromis agilis* Smith, 1960

Randall and Swerdloff, 1973, p. 336

*\*Chromis alleni* Randall, Ida, and Moyer, 1981

Carlson, 1975, p. 43 (as *C. alleni* MS). Allen, 1991, p. 190 says this is not found in Fiji.

*Chromis alpha* Randall, 1987

Allen, 1975a, p. 94 (as *Chromis* species A); Earle, 2004, p.4

*Chromis amboinensis* (Bleeker, 1873)

Allen, 1975a, p. 230; Carlson, 1975, p. 43; Earle, 2004, p.4

*Chromis analis* (Cuvier, 1830)

Allen, 1975a, p. 78; Carlson, 1975, p. 43; Randall, 2005, p. 354

*Chromis atripectoralis* Welander and Schultz, 1951

Carlson, 1975, p. 43

*Chromis atripes* Fowler and Bean, 1928

Royal Ontario Museum (Great Astrolabe Reef Collection); Greenfield found this species in Fiji; Earle, 2004, p.4; Randall, 2005, p. 355. Allen, 1991 p. 190 says this is not found in Fiji.

*Chromis bicolor* (Rochebrune, 1880))

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Chromis brevirostris* Pyle, Earle & Greene, 2008

Fishbase 2009, p. 5

*Chromis chrysur* (Bliss, 1883)

Whitley, 1964, p. 180 (as *Lepicephalochromis westalli*); McGrouter, 1997, p. 3 (as *Chromis isharae* Schmidt, 1930); Allen *et al.*, 2003, p. 83; Earle, 2004, p.4; Randall, 2005, p. 355

*\*Chromis crusma* Valenciennes, 1833

Fowler and Bean, 1923, p. 22. (as *Chromis cupreus* Fowler and Bean, 1923). A questionable species. The authors list the locality as 'Fiji or Samoa'. A Peru-Chile species.

*Chromis delta* Randall, 1987

Randall, Allen and Steene, 1990, p. 258; Earle, 2004, p.4; Randall, 2005, p. 356

*\*Chromis dimidiatus* (Klunzinger, 1871)

Raj and Seeto, 1982, p. 24. Erroneously placed in Fiji. Allen (1975) notes it is confined to the Red Sea and West Indian Ocean.

*Chromis earina* Pyle, Earle & Greene, 2007

Fishbase 2009, p. 5

*Chromis elerae* Fowler and Bean, 1928 or 1929

Allen, 1975a, p. 82; Carlson, 1975, p. 43; Allen *et al.*, 2003, p. 84; Randall, 2005, p. 356

*Chromis iomelas* Jordan and Seale, 1906

Allen, 1975a, p. 82; Carlson, 1975, p. 44; Earle, 2004, p.4

*Chromis lepidolepis* Bleeker, 1877

Allen, 1975a, p. 83; Carlson, 1975, p. 44; Earle, 2004, p.4; Randall, 2005, p. 359

*\*Chromis leucurus* Gilbert, 1905

B. Carlson, *pers comm.* Allen, 1991, p, 192 says this is not found here.

*Chromis margaritifer* Fowler, 1946

Allen, 1975a, p. 230; Carlson, 1975, p. 44; Earle, 2004, p.4

*Chromis opercularis* (Gunther, 1867)

McGrouter, 1997, p. 3; Rupeni, 2004, p. 3. A West Indian Ocean species but range is extended to Fiji by Rupeni, 2004. May be the same as *Chromis xanthura* (Bleeker, 1854) according to Myers, 1991, p. 167. Allen, 1991, p. 192 says this is found in East Africa to Thailand.

*Chromis retrofasciata* Weber, 1913

Allen, 1975a, p. 230; Carlson, 1975, p. 44; Randall, 2005, p. 360

*Chromis roglyphy* (not valid name?)

Sighted by Nick Dulvy, 1999, in Southern Lau.

*Chromis ternatensis* (Bleeker, 1856)

Randall, Allen and Steene, 1990, p. 260

*Chromis vanderbilti* (Fowler, 1941)

Allen, 1975a, p. 230; Carlson, 1975, p. 44

*Chromis viridis* (Cuvier, 1830)

Boulenger, 1897, p. 373 (as *Heliastes lepidurus*); Carpenter and Niem, 2001, p. 3352; Earle, 2004, p.4 This species was, until very recently, known as *Chromis caerulea*.

*Chromis weberi* Fowler and Bean, 1928

Allen, 1975a, p. 230; Earle, 2004, p.4; Randall, 2005, p. 361. Emery and Winterbottom, 1983, p. 14. (as *Chromis simularis*). This is a typographical error for *C. simulans* Smith, 1960 but probably should read *C. weberi* (R. Winterbottom, *pers. comm.*)

*Chromis xanthura* (Bleeker, 1854)

Allen, 1975a, p. 94; Carlson, 1975, p. 44; Earle, 2004, p.4

*Chrysiptera biocellata* (Quoy and Gaimard, 1824)

Kner, 1868, pp. 30, 351 (as *Glyphisodon hemimelas* and *G. albocinctus*); Schmeltz, 1879, p. 52 (as *Glyphidodon leucozona* non Bleeker). *Glyphisodon antjerius* is a junior synonym too.

*Chrysiptera brownriggi* (Bennett, 1828)

Allen *et al.*, 2003, p. 72; Earle, 2004, p.4

*Chrysiptera caeruleolineata* (Allen, 1973)

Allen, 1975a, p. 151; Carlson, 1975, p. 47

*Chrysiptera cyanea* (Quoy and Gaimard, 1824)

Günther, 1862, p. 52 (as *Glyphidodon uniozellatus*); Brown, 2006, p. 46. *Glyphisodon assimilis* is a junior synonym. Myers, 1991, p. 170 says *C. cyanea* is replaced by *C. taupou* Fowler and Bean 1928 in Fiji. Brown (1993) show a picture of this fish from Fiji. Allen, 1991, p. 92 says this is not found in Fiji.

*Chrysiptera glauca* (Cuvier, 1830)

Herre, 1936, p. 302 (as *Abudefduf glauca*)

*Chrysiptera leucopoma* (Lesson, 1830)

Schmeltz, 1869, p. 99 (as *Pomacentrus albofasciatus*); Schmeltz, 1874 (p. 32) (as *Glyphisodon albofasciatus*); Sauvage, 1878, p. 207 (as *Glyphisodon filholi*); Günther, 1880 (p. 36) (as *Glyphisodon xanthozona* Bleeker, 1853; Whitley, 1927, p. 6 (as *Abudefduf amabilis*); Fowler, 1940 (p. 786) (as *Chrysiptera amabilis* (De Vis, 1883)

*Chrysiptera rollandi* (Whitley, 1931)

Earle, 2004, p.4

*Chrysiptera starcki* (Allen, 1973)

B. Carlson, 1985, *pers. comm.*; Allen, 1991, p. 194; Allen *et al.*, 2003, p. 74; Randall, 2005, p. 365

*Chrysiptera talboti* (Allen, 1975)

Allen, 1975a, p. 159; Carlson, 1975, p. 48; Allen *et al.*, 2003, p. 73; Randall, 2005, p. 366

*Chrysiptera taupou* (Jordan and Seale, 1906)

Randall, Allen and Steene, 1990, p. 266; Allen *et al.*, 2003, p. 74; Earle, 2004, p.4; Randall, 2005, p. 366; Kuitert and Debelius, 2006, p. 534

*Chrysiptera tricincta* (Allen and Randall, 1974)

Allen, 1975a, p. 162; Carlson, 1975, p. 48; Randall, 2005, p. 366

*Chrysiptera unimaculata* (Cuvier, 1830)

Allen, 1975a, p. 162; Randall, 2005, p. 367

*Dascyllus aruanus* (Linnaeus, 1758)

Günther, 1862, p. 12; Carpenter and Niem, 2001, p. 3354

*Dascyllus flavicaudus* Randall and Allen, 1977

Williams, 1997, p. 6. Allen, 1991 p. 196 says it is not found in Fiji but only in Tahiti and Pitcairn.

*Dascyllus reticulatus* (Richardson, 1846)

Kner, 1868, p. 348 (as *Pomacentrus unifasciatus*); Earle, 2004, p.4

*Dascyllus trimaculatus* (Rüppell, 1828)

Kendall and Goldsborough, 1911, p. 298; Carpenter and Niem, 2001, p. 3354; Earle, 2004, p.4; Randall, 2005, p. 370

*Dischistodus prosopotaenia* (Bleeker, 1852)

Fishbase (ICLARM)p. 6 (citing Randall *et al.*, 1990 - Melanesia); Fishbase 2009, p. 7. Allen, 1991, says this species is not found in Fiji.

*Lepidozygus tapeinosoma* (Bleeker, 1856)

Allen, 1991, p. 196

*Neoglyphidodon carlsoni* (Allen, 1975)

Allen, 1975a, p. 179 (as *Paraglyphidodon carlsoni*); Carlson, 1975, p. 48 (as *Paraglyphidodon carlsoni*); Allen *et al.*, 2003, p. 68 (ENDEMIC); Randall, 2005, p. 371 (Fiji & Tonga)

*Neoglyphidodon melas* (Cuvier, 1830)

Herre, 1936, p. 296 (as *Abudefduf melas*). Allen, 1991, p. 196 says this species is not found in Fiji.

*Neoglyphidodon nigroris* Cuvier, 1830

Fowler, 1928, p. 320 (as *Chromis behnii*)

*Neopomacentrus metallicus* (Jordan and Seale, 1906)

Allen, 1975a, p. 171; Carlson, 1975, p. 48; Allen, 1991, p. 125; Earle, 2004, p.4; Randall, 2005, p. 373

*Neopomacentrus violascens* (Bleeker, 1848)

Carlson, 1975, p. 91; Carcasson, 1977, p. 171 (as *Pomacentrus violascens*); Randall, 2005, p. 373. Allen, 1991 p. 198 says this species is not found in Fiji.

*Plectroglyphidodon dickii* (Liénard, 1839)

Boulenger, 1897, p. 373 (*Glyphidodon dickii*); Earle, 2004, p.4

*Plectroglyphidodon imparipennis* (Vaillant and Sauvage, 1875)

Allen, 1975a, p. 230; Carlson, 1975, p. 48

*Plectroglyphidodon johnstonianus* Fowler and Ball, 1924

Allen, 1975a, p. 230; Carlson, 1975, p. 48; Earle, 2004, p.4

*Plectroglyphidodon lacrymatus* (Quoy and Gaimard, 1824)

Carlson, 1975, p. 49; Earle, 2004, p.4

*Plectroglyphidodon leucozona* (Bleeker, 1859)

Jordan and Dickerson, 1908, p. 613 (as *Abudefduf corneyi*); Fowler, 1955a, p. 375. (as *Chrysiptera yamashinai* (Okada and Ikeda, 1937))

*Plectroglyphidodon phoenixensis* (Schultz, 1943)

Allen, 1975a, p. 198; Carlson, 1975, p. 49

\**Pomacentrus alexanderae* Allen, 1975 is junior synonym of *P. nigromanus* Weber, 1913 (see Myers, 1991, p. 174) but *P. alexanderae* (Evermann and Seale, 1907) is found in Philippines and Ryukyus. Royal Ontario Museum Records (Great Astrolabe Reef Collection). Allen, 1991, p. 198 says *P. alexanderae* and *P. nigromanus* are not found in Fiji.

*Pomacentrus alleni* Burgess, 1981

[www.amdareef.com/el\\_clown.htm](http://www.amdareef.com/el_clown.htm)

*Pomacentrus amboinensis* Bleeker, 1868

Carcasson, 1977, p. 172; Allen *et al.*, 2003, p. 89. Allen, 1991, p. 198 says this species is not found in Fiji.

*Pomacentrus bankanensis* Bleeker, 1853

Allen, 1975a, p. 210; Randall, 2005, p. 378

*Pomacentrus brachialis* Cuvier, 1830

Allen, 1975a, p. 214 (as *P. melanopterus*); Lieske and Myers, 1994, p. 87; Allen *et al.*, 2003, p. 97; Earle, 2004, p.4; Randall, 2005, p. 378. Allen 1991 says this is not found in Fiji. Sometimes spelt wrongly as *P. branchialis*.

*Pomacentrus callainus* Randall, 2002

Earle, 2004, p.4; Randall, 2005, p. 378

*Pomacentrus coelestis* Jordan and Starks, 1901

Allen, 1975a, p. 231; Carlson, 1975, p. 49; Carpenter and Niem, 2001, p. 3355; Earle, 2004, p.4

*Pomacentrus imitator* (Whitley, 1964)

Randall, Allen and Steene, 1990, p. 278; Allen *et al.*, 2003, p. 96 (found in Rotuma only); Earle, 2004, p.4; Randall, 2005, p. 379 (found in Fiji, Rotuma & other places)

*Pomacentrus lepidogenys* Fowler and Bean, 1928

Allen, 1975a, p. 214

\**Pomacentrus littoralis* Cuvier, 1830

Emery and Winterbottom, 1983, p. 10. Allen, 1991, p. 200 says it is not found here.

\**Pomacentrus melanochir* Bleeker, 1877

Carlson, 1975, p. 49. Allen, 1991, p. 200 say not found here.

*Pomacentrus microspilus* Allen and Randall, 2005

Allen and Radall, 200 p. 95; <http://intreasures.com/fijimf.html> (as endemic)

*Pomacentrus moluccensis* Bleeker, 1853

Lieske and Myers, 1994, p. 86; McGrouter, 1997, p. 8; Allen, 1975a, p. 231 (as *Pomacentrus popei* Jordan and Seale, 1907) = *P. simsiang* (Myers, 1991, p. 174); Carpenter and Niem, 2001, p. 3355; Randall, 2005, p. 3

*Pomacentrus nigromarginatus* Allen, 1973

Allen, 1975a, p. 231; Carlson, 1975, p. 50; Allen *et al.*, 2003, p. 96; Earle, 2004, p.4; Randall, 2005, p. 380; Brown, 2006, p. 46. Allen, 1991 says this is not found here.

*Pomacentrus pavo* (Bloch, 1787)

Boulenger, 1897, p. 373

*Pomacentrus philippinus* Evermann and Seale, 1907

Allen, 1975a, p. 231; Carlson, 1975, p. 50; Lieske and Myers, 1994, p. 85; Fishbase 2009, p. 15. Allen, 1991, p. 200 says this is not found here.

\**Pomacentrus simsiang* Bleeker, 1856

McGrouter, 1997, p. 8. Allen, 1991, p. 200 says this is not found here. See comment after *Pomacentrus moluccensis*.

*Pomacentrus smithi* Fowler & Bean, 1928

Fishbase 2009, p. 15

\**Pomacentrus* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Pomacentrus* n sp

Rupeni, 2004, p. 3

*Pomacentrus spilotoceps* Randall, 2002

Allen *et al.*, 2003, p. 89; Earle, 2004, p.4; Randall, 2005, p. 382 (Fiji and Tonga only)

\**Pomacentrus taeniometopon* Bleeker, 1852

Kner, 1868, p. 348

Allen, 1991, p. 202 say not found here.

*Pomacentrus vaiuli* Jordan and Seale, 1906

Fowler, 1932, p. 10; Earle, 2004, p.4

\**Pomacentrus wardi* Whitley, 1927

Williams 1997, p. 14. Allen, 1991, p. 202 says it is not found in Fiji.

*Pomachromis richardsoni* (Snyder, 1909).

Allen and Randall, 1974, p. 48; Allen *et al.*, 2003, p. 87; Randall, 2005, p. 383

*Premnas biaculeatus* (Bloch, 1790)

Fishbase (ICLARM), p. 7 (citing Randall *et al.*, 1990 - Melanesia). Probable record. Allen, 1991, p. 202 says this is not found in Fiji. Nair, 2003, p. 57; J Seeto has seen this in Fiji.

*Stegastes albifasciatus* (Schlegel and Müller, 1839-44)

Allen, 1991, p. 202

*Stegastes fasciolatus* (Ogilby, 1889)

Carlson, 1975, p. 45 (as *S. jenkinsi*); Earle, 2004, p.4

*Stegastes lividus* (Bloch and Schneider, 1801)

Schmeltz, 1869, (as *P. cyanospilus*); Sauvage, 1879, p. 206 (as *Pomacentrus vitianus*); Fishbase 2009, p. 18

*Stegastes nigricans* (Lacépède, 1802)

Günther, 1862, 4, p.28 (as *Pomacentrus scolopsis*); Fishbase 2009, p.18

*Stegastes* sp. and sp. 1 (2 FISH)

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

**Molidae (Oceanic Sunfishes)**

*Masturus lanceolatus* (Lienard, 1840)

Carpenter and Niem, 2001, (vol. 6), p. 3964

*Mola mola* Linnaeus, 1758

Wright, 1969, p. 121; Carpenter and Niem, 2001, (vol. 6), p. 3967

*Mola ramsayi* (Giglioli, 1883)

Carpenter and Niem, 2001, (vol. 6), p. 3967

*Ranzania laevis* (Pennant, 1776)

Wright, 1969, pp. 105 - 106 (photograph); Fiji Post, 11/9/00. Page 1; Carpenter and Niem, 2001, (vol. 6), p. 3967.

**Scaridae (Parrotfishes)**

*Bolbometopon muricatum* (Valenciennes, 1839-40)

Cavuilati, 1980, p. 114; Carpenter and Niem, 2001, p. 3473

*Calostomus carolinus* (Valenciennes, 1839-40)

Günther, 1873 - 1910, 8, p. 300 (as *C. genistratus*); Carpenter and Niem, 2001, p. 3473

*Calotomus spinidens* (Quoy and Gaimard, 1824)

Schmeltz, 1881, p. 7 (as *Callyodon spinidens*); Carpenter and Niem, 2001, p. 3474; Randall, 2005, p. 446

*Cetoscarus bicolor* Ruppell; 1829

Carpenter and Niem, 2001, p. 3474; Earle, 2004, p.5; Brown, 2006, p. 47 (see *Cetoscarus ocellatus* below)

\**Cetoscarus ocellatus* Valenciennes in Cuvier & Valenciennes, 1840)

Carlson, 1975, p. 60 (as *C bicolor* Ruppell, 1829)

Randall, 2005, p. 447 says *C bicolor* is a Red Sea species.

*Chlororus japonensis* Bloch, 1789

Earle, 2004, p.5

*Hipposcarus longiceps* (Valenciennes, 1839-40)

Underwater Visual Census, 1995, Appendices 5.1 and 5.3; Jennings and Polunin, 1996, p. 403; Carpenter and Niem, 2001, p. 3480; Earle, 2004, p. 6; Brown, 2006, p. 47

*Leptoscarus vaigensis* (Quoy and Gaimard, 1824)

Schmeltz, 1869, p. 23 (as *Scarichthys auritus*); Carpenter and Niem, 2001, p. 3480

*Scarus altipinnis* (Steindachner, 1879)

UVC, 1995, Appendix 5.1; Carpenter and Niem, 2001, p. 3481; Earle, 2004, p. 6

*Scarus bleekeri* (de Beaufort, 1940)

Carlson, 1975, p. 60; Carpenter and Niem, 2001, p. 3475 (as *Chlorurus bleekeri*); Allen *et al.*, 2003, p. 175 (as *Chlorurus bleekeri*); Earle, 2004, p.5 (as *Chlororus bleekeri*); Randall, 2005, p. 448; Brown, 2006, p. 47 (as *Chlorurus bleekeri*)

*Scarus bowersi* Snyder, 1909

Carlson, 1985, *pers. comm.*

*Scarus brunneus* Jenkins, 1899 (1900)

Kendall and Goldsborough, 1911

*Scarus chameleon* Choat and Randall, 1986

Randall, Allen and Steene, 1990, p. 346; Carpenter and Niem, 2001, p. 3481; Earle, 2004, p. 6; Randall, 2005, p. 453

*Scarus chlorodon* Jenyns, 1842 (Fulaga, Lau)

James Teri (*pers comm.* 2004)

*Scarus dimidiatus* Bleeker, 1859

Randall and Choat, 1980, p. 403; Carpenter and Niem, 2001, p. 3482



\**Scarus dubius* Bennett, 1828

Günther, 1862, 4, p. 229. An endemic Hawaiian species erroneously listed from Fiji.

*Scarus erythrodon* Valenciennes, 1839

Herre, 1936, p. 331

*Scarus falcipinnis* (Playfair, 1867)

Royal Ontario Museum Records (Great Astrolabe Reef Collection). Myers, 1991, p. 196 says this is a West Indian Ocean species and replaces *S. prasiognathus* there.

*Scarus festivus* Valenciennes, 1840

Raj and Seeto, 1982, p. 24 (as *Scarus lunula*)

*Scarus flavipectoralis* Schultz, 1958

James Teri (pers comm. 2004)

*Scarus fosteni* (Bleeker, 1861)

Jennings and Polunin, 1996, p. 403; Carpenter and Niem, 2001, p. 3483

*Scarus frenatus* Lacépède, 1802

Jordan and Dickerson, 1980, p. 614 (as *Callyodon upolensis*); Carpenter and Niem, 2001, p. 3484; Earle, 2004, p. 6

*Scarus frontinalis* Valenciennes, 1840

UVC, 1995, Appendix 5.3; Carpenter and Niem, 2001, p. 3476 (as *Chlorurus frontalis*)

\**Scarus fuscopurpureus* (Klunzinger, 1871)

Royal Ontario Museum Records (Great Astrolabe Reef). A Red Sea to Arabian Gulf species.

*Scarus ghobban* Forsskål, 1775

Randall and Choat, 1980, p. 403; Carpenter and Niem, 2001, p. 3484; Earle, 2004, p. 6

*Scarus globiceps* Valenciennes, 1839-40

Kner, 1867, p. 352 (as *Pseudoscarus spilonotus*); Carpenter and Niem, 2001, p. 3485; Randall, 2005, p. 456

*Scarus microrhinos* Bleeker, 1854

Günther, 1880, p. 36 (as *Pseudoscarus microrhinos*); Carpenter and Niem, 2001, p. 3477 (as *Chlorurus microrhinos*); Nair, 2003, p. 57 (as *Chlorurus microrhinos*); Earle, 2004, p. 5; Brown, 2006, p. 47 (as *Chlorurus microrhinos*). This species was popularly known as *Scarus gibbus*.

*Scarus niger* Forsskål, 1775

Schmeltz, 1869 (p. 23) (as *Pseudoscarus nuchipunctatus*); Carpenter and Niem, 2001, p. 3487; Earle, 2004, p. 6

*Scarus oviceps* Valenciennes, 1839-40

Fowler, 1940, p. 790 (as *S. pectoralis*); Carpenter and Niem, 2001, p. 3487

*Scarus prasiognathos* Valenciennes, 1839

Carlson, 1975, p. 60 (as *S. chlorodon*). The name *Scarus janthochir* has been used for this species too.

*Scarus psittacus* (Forsskål, 1775)

Sauvage, 1879, p. 225 (as *Pseudoscarus Filholi*); Carpenter and Niem, 2001, p. 3488; Earle, 2004, p. 6. *Scarus fosteri* (Bleeker, 1861) was a popular name. *Scarus galena* was used by Whitley, 1927, p. 7

*Scarus pyrrhurus* (Jordan & Seale, 1906)

Ballou, 1995, pers. comm.; UVC, 1995, Appendix 5.3

*Scarus rivulatus* Valenciennes, 1839.

Raj and Seeto, 1982, p. 24 (as *Scarus fasciatus*); Earle, 2004, p. 6

*Scarus rubroviolaceus* Bleeker, 1847-49

Jordan and Dickerson, 1908 (p. 6140 (as *Callyodon upolensis*); Carpenter and Niem, 2001, p. 3490; Earle, 2004, p. 6

*Scarus schlegei* (Bleeker, 1861)

Ballou, 1995, pers. comm.; UVC, 1995, Appendix 5.3; Carpenter and Niem, 2001, p. 3490; Earle, 2004, p. 6

*Scarus singaporensis* Bleeker, 1851

Williams, 1997, p. 16

*Scarus sordidus* Forsskål, 1775

Schmeltz, 1879, p. 55 (as *Pseudoscarus gymnognathus*); Carpenter and Niem, 2001, p. 3478 (as *Chlorurus sordidus*); Earle, 2004, p. 5 (as *Chlorurus sordidus*)

*Scarus spinus* (Kner, 1868)

Kner, 1868, pp. 31, 354 (as *Pseudoscarus spinus*) (type Kadavu); Carpenter and Niem, 2001, p. 3491; Earle, 2004, p. 6; Randall, 2005, p. 461

\**Scarus* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Scarus taeniurus* Cuvier & Valenciennes, 1839

Schultz, ca.1969, p. 17

*Scarus xanthopleura* Bleker, 1853

Spearfishers, Nabuakalou Creek, 5<sup>th</sup> May 2007 (bright red parrotfish) Reported by Randy Thaman

#### Labridae (Wrasses)

*Anampses caeruleopunctatus* Rüppell, 1828-29

Randall, 1972, p. 160; Carpenter and Niem, 2001, p. 3404; Earle, 2004, p.5

*Anampses geographicus* Valenciennes, 1839

Schmeltz, 1869, p. 22; Schmeltz, 1869, p. 22 (as *A. pterophthalmus*); Carpenter and Niem, 2001, p. 3405; Allen *et al.*, 2003, p. 207; Earle, 2004, p.5; Randall, 2005, p. 389

- Anampses neoguinaicus* Bleeker, 1878  
Sauvage, 1880, p. 224 (as *A. fidjensis*); Carpenter and Niem, 2001, p. 3406; Earle, 2004, p.5; Randall, 2005, p. 391
- Anampses twistii* Bleeker, 1856  
Sauvage, 1880, p. 224; Carpenter and Niem, 2001, p. 3407; Earle, 2004, p.5
- Biochoeres cf cosmetes* Randall and Smith, 1982  
Kuitert and Debelius, 2006, p. 592
- Bodianus anthioides* (Bennett, 1831)  
Carlson, 1975, p. 53; Carpenter and Niem, 2001, p. 3408; Earle, 2004, p.5
- Bodianus axillaris* (Bennett, 1831)  
Carlson, 1975, p. 53; Earle, 2004, p.5
- Bodianus bilunulatus bilunulatus* (Lacépède, 1802)  
Carlson, 1975, p. 53
- Bodianus diana* (Lacépède, 1801)  
Carlson, 1975, p. 53; Carpenter and Niem, 2001, p. 3410; Earle, 2004, p.5
- Bodianus hirsutus* (Lacépède, 1802)  
Carcasson, 1977, p. 186
- Bodianus loxozonus* (Synder, 1908)  
Lewis (n.d.) Fisheries photo; Jennings and Polunin, 1996, p. 402; Carpenter and Niem, 2001, p. 3411; Earle, 2004, p.5
- Bodianus mesothorax* (Bloch and Schneider, 1801)  
Schmeltz, 1869 (p. 22) (as *Cossyphus mesothorax*); Randall, 2005, p. 394
- Bodianus perditio* (Quoy and Gaimard, 1834)  
Sighted by Nick Dulvy, 1999, in Southern Lau.; Carpenter and Niem, 2001, p. 3412
- Bodianus sepiacaudus* Gomon, 2006  
Fishbase 2009, p. 3
- Cheilinus bimaculatus* Valenciennes, 1840  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)
- Cheilinus chlorourus* (Bloch, 1791)  
Günther, 1880, p. 36 (as *Chilinus chlorurus*); Carpenter and Niem, 2001, p. 3413; Earle, 2004, p.5
- Cheilinus diagrammus* (Lacépède, 1801)  
Schmeltz, 1869, p. 22 (as *C. radiatus*)
- Cheilinus fasciatus* (Bloch, 1791)  
Borodin, 1932, p. 94; Carpenter and Niem, 2001, p. 3414; Earle, 2004, p.5
- Cheilinus orientalis* Günther, 1862  
Williams, 1997, p. 5
- Cheilinus oxycephalus* Bleeker, 1853  
Carlson, 1975, p. 54; Emery and Winterbottom, 1983, pp. 10, 11, 14 (as *Cheilinus pterogogas*). According to R. Winterbottom *pers. comm.* *Cheilinus pterogogas* is a *lapsus* and should be changed to *C. oxycephalus*. *Lapsus* is a involuntary error.
- \**Cheilinus* sp.  
Royal Ontario Museum Records (Great Astrolabe Reef Collection); Raj *et al.*, 1981, p. 7. (as *Thalliurus* sp.)
- Cheilinus trilobatus* Lacépède, 1801  
Sauvage, 1879, p. 224 (as *C. pulchellus*); Carpenter and Niem, 2001, p. 3415; Earle, 2004, p.5
- Cheilinus undulatus* Rüppell, 1835  
Kendall and Goldsborough, 1905 (06), p. 309; Carpenter and Niem, 2001, p. 3416
- Cheilinus unifasciatus* Streets, 1877  
Zug *et al.*, 1988, p. 10
- Cheilio inermis* (Forsskål, 1775)  
Schmeltz, 1869, p. 23; Carpenter and Niem, 2001, p. 3417
- Choerodon anchorago* (Bloch, 1791)  
Carpenter and Niem, 2001, p. 3418
- \**Choerodon fasciatus* (Günther, 1867)  
Greenberg, 1985, p. 1. A doubtful record from Fiji.
- Choerodon jordani* (Snyder, 1908)  
Randall, Allen and Steene, 1990, p. 307; Randall, 2005, p. 401
- Choerodon zamboangae* (Seale and Bean, 1907)  
Raj and Seeto, 1984
- \**Choerodon venustus* (De Vis, 1884)  
Turbett, 1940, p. 37. A Western Australian species not known from Fiji.
- Cirrhilabrus exquisitus* Smith, 1957  
Mahaney and Mahaney, 2000, p. 90, Carpenter and Niem, 2001, p. 3424; Earle, 2004, p.5; Kuitert and Debelius, 2006, p. 579 (as *Cirrhilabrus cf exquisitus*)
- Cirrhilabrus majorie* Allen, Randall & Carlson, 2003  
Randall, 2005, p. 402 (endemic), Kuitert and Debelius, 2006, p. 575
- Cirrhilabrus punctatus* Randall and Kuitert, 1989  
Royal Ontario Museum Records (Great Astrolabe Reef Collection); Lieske and Myers, 1994, p. 139; Earle, 2004, p.5; Randall, 2005, p. 403
- Cirrhilabrus rhomboidalis* Randall, 1988

Williams, 1997, p. 6

*Cirrhilabrus rosefasciata* Randall & Lubbock, 1982  
Randall, 2005, p. 403

*Cirrhilabrus rubrimarginatus* Randall, 1992  
Randall, 1992; Allen *et al.*, 2003, p. 198; Randall, 2005, p. 403

*Cirrhilabrus scottorum* Randall and Pyle, 1989  
Lieske and Myers, 1994, p. 94

\**Cirrhilabrus* sp. #1 - 4  
Carlson, 1975, pp. 54, 55 (check these specimens)

\**Cirrhilabrus* sp.  
Zug *et al.*, 1988, p. 10

*Cirrhilabrus temmincki* Bleeker, 1852  
Williams, 1997, p. 6

*Coris aygula* Lacépède, 1801  
Carlson, 1975, p. 55; Carpenter and Niem, 2001, p. 3427

*Coris batuensis* (Bleeker, 1856)  
Sighted by Nick Dulvy, 1999, in Southern Lau (as *Coris schroederi* Bleeker, 1858); Randall, 1999b, p. 19

*Coris dorsomacula* Fowler, 1908  
Fishbase; Sighted by Nick Dulvy, 1999, in Southern Lau; Earle, 2004, p.5

*Coris gaimard* (Quoy and Gaimard, 1824)  
Schmeltz, 1869, p. 22 (as *Julis pulcherrima*); Carpenter and Niem, 2001, p. 3428; Earle, 2004, p.5

\**Coris variegata* (Rüppell, 1835)  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)  
Randall, 1999b says this species is from the Red Sea only.

*Cymolutes lecluse* (Quoy and Gaimard, 1824)  
Herre, 1936, p. 330

*Cymolutes praetextatus* (Quoy and Gaimard, 1834)  
Royal Ontario Museum Records (Great Astrolabe Reef Collection);  
Carpenter and Niem, 2001, p. 3429

*Diproctacanthus xanthurus* (Bleeker, 1856)  
Carlson, 1975, p. 55

*Epibulus insidiator* (Pallas, 1770)  
Schmeltz, 1869, p. 22; Carpenter and Niem, 2001, p. 3431; Earle, 2004, p.5

*Gomphosus varius* Lacépède, 1801  
Schmeltz, 1869, p. 23; Carpenter and Niem, 2001, p. 3432; Earle, 2004, p.5

*Halichoeres argus* (Bloch and Schneider, 1801)  
Schmeltz, 1869, p. 23 (as *PlatyGLOSSUS guttatus*); Allen *et al.*, 2003, p. 216; Randall, 2005, p. 410

*Halichoeres binotopsis* (Bleeker, 1849)  
Schmeltz, 1869, p. 23 (as *PlatyGLOSSUS binotopsis*)

*Halichoeres biocellatus* Schultz, 1960  
Carlson, 1975, p. 55; Earle, 2004, p.5

*Halichoeres chrysus* Randall, 1981  
Blaber *et al.*, 1993b, p. 107

*Halichoeres fijiensis* Herre, 1935  
Herre, 1935, p. 140

*Halichoeres hortulanus* (Lacépède, 1801)  
Schmeltz, 1869, p. 22 (as *PlatyGLOSSUS hortulanus*); Carpenter and Niem, 2001, p. 3434; Earle, 2004, p.5

*Halichoeres margaritaceus* (Cuvier and Valenciennes, 1839)  
Günther, 1862, 4, p. 148 (as *PlatyGLOSSUS opercularis*)

*Halichoeres marginatus* Rüppell, 1835  
Schmeltz, 1879, p. 54; Boulenger, 1897, p. 374 (as *PlatyGLOSSUS notopsis*); Carpenter and Niem, 2001, p. 3435; Earle, 2004, p.5

*Halichoeres melanurus* (Bleeker, 1851)  
Herre, 1936, p. 301 (as *H. hoevenii* - the female phase); Herre, 1936, p. 308 (as *Halichoeres kallochroma* (Bleeker, 1853) for male; Carpenter and Niem, 2001, p. 3436

*Halichoeres miniatus* (Kuhl and Van Hasselt, 1839)  
Schmeltz, 1869, p. 22 (as *PlatyGLOSSUS miniatus*)

*Halichoeres nebulosus* (Valenciennes, 1839)  
Schmeltz, 1869, p. 22 (as *PlatyGLOSSUS poecilus*); Jordan and Dickerson, 1908, p. 614 (as *H. daedalma*); Nair, 2003, p. 53. Myers 1991 p. 186 say this is a West Indian Ocean species.

*Halichoeres ornatissimus* (Garrett, 1863)  
FishBase (ICLARM) p. 5 (citing Randall *et al.*, 1990 but that text only mentions Islands of Oceania and Western Pacific). Possible record. Sighted by Nick Dulvy, 1999, in Southern Lau; Earle, 2004, p.5.

*Halichoeres prosopion* (Bleeker, 1853)  
Carlson, 1975, p. 56; Carpenter and Niem, 2001, p. 3437; Earle, 2004, p.5

*Halichoeres scapularis* (Bennett, 1831)  
Emery and Winterbottom, 1983, pp. 10, 11

\**Halichoeres* sp  
McGrouter, 1997, p. 5

*Halichoeres timorensis* (Bleeker, 1852)

- Schmeltz, 1869, p. 23 (as *PlatyGLOSSUS timorensis*)
- Halichoeres trimaculatus* (Quoy and Gaimard, 1834)  
Günther, 1880, p. 36 (as *PlatyGLOSSUS trimaculatus*)
- Halichoeres vrolikii* (Bleeker, 1855)  
Herre, 1936, p. 307
- Hemigymnus fasciatus* (Bloch, 1792)  
Boulenger, 1897, p. 373; Carpenter and Niem, 2001, p. 3438; Earle, 2004, p.5
- Hemigymnus melapterus* (Bloch, 1791)  
Fowler, 1928, p. 337; Carpenter and Niem, 2001, p. 3439; Earle, 2004, p.5
- Hologymnosus annulatus* (Lacépède, 1801)  
Schmeltz, 1869, p. 23 (as *Coris annulatus*); Carpenter and Niem, 2001, p. 3440; Earle, 2004, p.5. This was also once known as *Hologymnosus semidiscus*.
- Hologymnus doliatus* (Lacépède, 1801)  
Royal Ontario Museum Records (Great Astrolabe Reef Collection);  
Carpenter and Niem, 2001, p. 3441; Earle, 2004, p.5
- \**Hologymnosus* sp.  
McGroutter, 1997, p. 5
- Labrichthys unilineatus* (Guichenot, 1847)  
Carlson, 1975, p. 57; Carpenter and Niem, 2001, p. 3442
- Labroides bicolor* Fowler and Bean, 1928  
Carlson, 1975, p. 57; Earle, 2004, p.5
- Labroides dimidiatus* (Valenciennes, 1839)  
Schmeltz, 1869, p. 22; Carpenter and Niem, 2001, p. 3443; Earle, 2004, p. 5; Kuitert and Debelius, 2006, p. 606
- Labroides pectoralis* Randall and Springer, 1975  
Carlson, 1975, p. 58 (as *Labroides* sp.);
- Labroides rubrolabiatus* Randall, 1958  
Bandy, 1991, p. 7; Lieske and Myers, 1994, p. 104
- \**Labropsis* sp. Check USP specimen #2134  
Carlson, 1975, p. 92
- Labropsis australis* Randall, 1981  
Randall, 1981, p. 149; Carpenter and Niem, 2001, p. 3444; Allen et al., 2003, p. 236; Randall, 2005, p. 422
- \**Labropsis* sp.  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)
- Labropsis xanthonota* Randall, 1981
- Sighted by Nick Dulvy, 1999, in Southern Lau; Earle, 2004, p.5
- Lepidaplois perditio* Quoy and Gaimard, 1834  
Günther, 1862, p. 105 (as *Cossyphorus atrolumbus*). See above!
- \**Macropharyngodon geoffrey* (Quoy and Gaimard, 1824)  
Whitley, 1927a, p. 7. According to Randall, (1978) this is a Hawaiian endemic species.
- Macropharyngodon meleagris* (Valenciennes, 1839)  
Schmeltz, 1869, p. 22 (as *PlatyGLOSSUS geoffroyi*); Kner, 1867, p. 728 (as *LeptoJulis pardalis*); Boulenger, 1897, p. 374 (as *PlatyGLOSSUS nigromaculatus*); Carpenter and Niem, 2001, p. 3446; Earle, 2004, p.5
- Macropharyngodon negrosensis* Herre, 1932  
Randall, 1978, p. 763
- Novaculichthys macrolepidotus* (Bloch, 1791)  
McGroutter, 1997, p. 7; Randall, 2004, p. 38 (as *Novaculoides macrolepichthys*)
- Novaculichthys taeniourus* (Lacépède, 1801)  
Jordan and Dickerson, 1908, p. 614 (as *N. taeniurus*); Carpenter and Niem, 2001, p. 3447; Nimmerfroth, 2006, p. 39
- Oxycheilinus arenatus* (Valenciennes, 1840)  
Carpenter and Niem, 2001, p. 3448
- Oxycheilinus bimaculatus* (Valenciennes, 1840)  
= *Cheilinus bimaculata*. Greenfield, 2003, list
- Oxycheilinus diagrammus* (Lacépède, 1801)  
Carpenter and Niem, 2001, p. 3449; Earle, 2004, p.5; Brown 2006, p. 49
- Oxycheilinus orientalis* (Günther, 1862)  
Earle, 2004, p. 5.
- Paracheilinus mccoskeri* Randall and Harmelin-Vivien, 1977  
Lieske and Myers, 1994, p. 95
- Paracheilinus rubricaudalis* Randall and Allen, 2003  
Randall, 2005, p. 429 (type from Fiji), Kuitert and Debelius, 2006, p. 574 (as *P. rubricauda*). <http://Intreasures.com/fijimf.html> (as endemic). See next entry.
- \**Paracheilinus* n. sp. Randall MS  
Carlson, 1985, pers. comm. (probably is the one just above)
- Pseudocheilinus evanidus* Jordan and Evermann, 1903  
Carlson, 1975, p. 58; Earle, 2004, p.5
- Pseudocheilinus hexataenia* (Bleeker, 1857)  
Schmeltz, 1869, p. 22 (as *P. psittacula*); Earle, 2004, p.5

- Pseudocheilinus ocellatus* Randall, 1999  
Carlson, 1985, *pers. comm.* (Randall MS); Randall, 1999a, pp. 21-22; Randall, 2005, p. 430
- Pseudocheilinus octotaenia* Jenkins, 1900  
Royal Ontario Museum Record (Great Astrolabe Reef Collection); Carpenter and Niem, 2001, p. 3454; Earle, 2004, p.5
- Pseudocheilinus tetrataenia* Schultz, 1960  
Royal Ontario Museum Record (Great Astrolabe Reef Collection)
- Pseudocoris yamoshiroi* (Schmidt, 1930)  
Williams, 1997, p. 15; Carpenter and Niem, 2001, p. 3455; Randall and Walsh, 2008, p. 49
- Pseudodax moluccanus* (Valenciennes, 1839)  
Zug *et al.*, 1988, p. 10; Carpenter and Niem, 2001, p. 3456; Earle, 2004, p.5
- Pseudojuloides cerasinus* (Snyder, 1904)  
Randall and Randall, 1981, pp. 64, 66
- Pteragogus cryptus* Randall, 1981  
Royal Ontario Museum Records (Great Astrolabe Reef Collection); Carpenter and Niem, 2001, p. 3458; Earle, 2004, p.5
- \**Pterarogus* sp  
McGrouter, 1997, p. 8
- \**Stethojulis albobittata* (Bonnaterre, 1788)  
Schmeltz, 1869, p. 22; Whitley, 1927a, p. 7. An Indian Ocean species erroneously listed from Fiji. Myers, 1991 (p. 189) says this is a West Indian Ocean species. Williams 1997, p. 16 say it is in Fiji. A doubtful species from Fiji.
- \**Stethojulis balteata* (Quoy and Gaimard, 1824)  
Günther, 1873, 7, p. 410 (as *S. axillaris*). According to Myers, 1991, p. 188 and Randall, 2000, p. 12, *S. balteata* is a Hawaiian species. A doubtful record for Fiji.
- Stethojulis bandanensis* (Bleeker, 1851)  
Jordan and Seale, 1906, p. 297; Carpenter and Niem, 2001, p. 3459; Earle, 2004, p.5
- \**Stethojulis interrupta* (Bleeker, 1851)  
Schmeltz, 1869, p.22 (as *S. kalosoma*). Randall, 2000, p. 16-18 says this species is not found in Fiji and no specimens were found in collections.
- \**Stethojulis maculata* Schmidt, 1931  
Winterbottom and Burrige-Smith, 1987, p. 410  
Randall, 2000, p. 20 say this is a mis-identification based on a male terminal phase of *Stethojulis notialis*.
- Stethojulis marquesensis* Randall, 2000  
Fishbase 2009, p. 18
- Stethojulis notialis* Randall, 2000
- Randall, 2000, p. 24-25 (holotype from Fiji); Allen *et al.*, 2003, p. 225; Randall, 2005, p. 436; Kuitert and Debelius, 2006, p. 605
- Stethojulis strigiventer* (Bennett, 1832)  
Schmeltz, 1869, p. 22; Schmeltz, 1869, p. 22 (as *S. renardi* -male form)
- Stethojulis trilineata* (Bloch and Schneider, 1801)  
Schmeltz, 1862, p. 22 (as *S. phekadopleura*); Boulenger, 1897, p. 373 (as *Julis casturi*); Sauvage, 1897, p. 225 (as *S. filholi*)
- Thalassoma amblycephalum* (Bleeker, 1856)  
Boulenger, 1897, p. 374 (as *Julis amblycephalus*); Carpenter and Niem, 2001, p. 3461; Earle, 2004, p.5
- Thalassoma cupido* ? Schlegel, 1842  
Raj and Seeto, 1982, p. 23
- Thalassoma hardwickii* (Bennett, 1830)  
Günther, 1862, 4, p. 190 (as *Julis dorsalis*); Earle, 2004, p.5
- Thalassoma janseni* (Bleeker, 1856)  
Günther, 1862, 4, p. 187 (as *Julis janseni*); Earle, 2004, p.5
- Thalassoma lunare* (Linnaeus, 1758)  
Carlson, 1975, p. 59; Carpenter and Niem, 2001, p. 3462; Earle, 2004, p.5
- Thalassoma lutescens* (Lay and Bennett, 1839)  
Schmeltz, 1869, p. 23 (as *T. aneitense*); Earle, 2004, p.5
- Thalassoma nigrofasciatum* Randall, 2003  
Randall, 2003, p. 1; Randall, 2005, p. 440
- Thalassoma purpureum* (Forsskål, 1775)  
Boulenger, 1897, p. 374 (as *H. umbrostigma*)
- Thalassoma quinquevittatum* (Lay and Bennett, 1839)  
Fowler, 1928, p. 350; Earle, 2004, p.5
- \**Thalassoma* sp.  
Royal Ontario Museum Records (Great Astrolabe Reef Collection)
- Thalassoma trilobatum* (Lacépède, 1801-1802)  
Boulenger, 1897, p. 373 (as *Julis umbrostigma* in part)
- Wetmorella albofasciata* Schultz and Marshall, 1954  
Randall, 1983, p. 874; Randall, 2005, p. 442
- Wetmorella nigropinnata* (Seale, 1901)  
Randall, 1983, p. 879; McGrouter, 1997, p. 10 (as *W. ocellata*); Carpenter and Niem, 2001, p. 3463
- Xyrichtys javanicus* (Bleeker, 1862)  
Whitley, 1927a, p. 7

*Xyrichthys pavo* (Valenciennes, 1839)

Peters, 1876, p. 843 (as *Novacula (Xyrichthys) carneoflava*) (Dana Peak in ?Fiji); Carpenter and Niem, 2001, p. 3466

Yellow hogfish

[www.amdareef.com/el\\_hog\\_parrot.htm](http://www.amdareef.com/el_hog_parrot.htm)

### **Chaetodontidae (Butterfly Fishes)**

*Chaetodon auriga* Forsskål, 1775

Schmeltz, 1869, p. 24 (as *C. nesogallicus*); Boulenger, 1897, p. 372 (as *C. setifior*); Carpenter and Niem, 2001, p. 3236; Earle, 2004, p.3

*Chaetodon baronessa* Cuvier, 1831

Schmeltz, 1869, p. 15; Carpenter and Niem, 2001, p. 3237; Earle, 2004, p.3; Randall, 2005, p. 310

*Chaetodon bennetti* Cuvier, 1831

Carlson, 1975, p. 35; Carpenter and Niem, 2001, p. 3237; Earle, 2004, p. 3.

*Chaetodon citrinellus* Cuvier, 1831

Günther, 1860, 2, p. 33; Carpenter and Niem, 2001, p. 3238; Earle, 2004, p. 3.

*Chaetodon ephippium* Cuvier, 1831

Günther, 1860, 2, p. 7; Carpenter and Niem, 2001, p. 3240; Earle, 2004, p. 3.

\**Chaetodon falcula* Bloch, 1793

Carcasson, 1977, p. 155; McGrouter, 1997, p. 3; Brown, 2006, p. 45. According to Burgess, (1978, p. 608) references to this Indian Ocean species in the Pacific are referable to *C. ulietensis*. Burgess, 1978, p. 610 says *C. falcula* is found in the Indian Ocean to Sumatra only.

*Chaetodon flavirostris* Günther, 1873

Carlson, 1975, p. 36; Carpenter and Niem, 2001, p. 3240

*Chaetodon kleinii* Bloch, 1790

Carlson, 1975, p. 36; Carpenter and Niem, 2001, p. 3242; Earle, 2004, p.3

*Chaetodon lineolatus* Cuvier, 1831

Carlson, 1975, p. 36; Carpenter and Niem, 2001, p. 3242

*Chaetodon lunula* (Lacépède, 1803)

Boulenger, 1897, p. 372; Carpenter and Niem, 2001, p. 3243

*Chaetodon lunulatus* Quoy and Gaimard, 1824

Allen, Steene, and Allen, 1998, p. 109; Earle, 2004, p.3

*Chaetodon melannotus* Bloch and Schneider, 1801

Günther, 1860, 2, p. 28 (as *C. dorsalis*); Carpenter and Niem, 2001, p. 3243

*Chaetodon mertensii* Cuvier, 1831

Carlson, 1975, p. 36; Carpenter and Niem, 2001, p. 3244; Earle, 2004, p. 3.

*Chaetodon meyeri* Bloch and Schneider, 1801

Carpenter and Niem, 2001, p. 3244; Randall, 2005, p. 316

*Chaetodon octofasciatus* Bloch, 1787

Steene, 1977, p. 32; Nair, 2003, p. 50; Fishbase 2009, p. 4.

*Chaetodon ornatissimus* Cuvier, 1831

Carlson, 1975, p. 36; Carpenter and Niem, 2001, p. 3246

*Chaetodon oxycephalus* Bleeker, 1853

Fishbase 2009, p. 5

*Chaetodon pelewensis* Kner, 1868

Boulenger, 1897, p. 372 (as *C. pelevensis*); Carpenter and Niem, 2001, p. 3247; Earle, 2004, p. 3.

*Chaetodon plebeius* Cuvier, 1831

Schmeltz, 1869, p. 24 (as *C. plebejus*); Carpenter and Niem, 2001, p. 3247; Allen *et al.*, 2003, p. 20; Earle, 2004, p.3; Randall, 2005, p. 319

*Chaetodon quadrimaculatus* Gray, 1831

Boulenger. 1897. p. 372; Nick Dulvy (Lau - April, 1999)

*Chaetodon rafflesii* Bennett, 1830

Schmeltz, 1869. p. 15; Carpenter and Niem, 2001, p. 3249; Earle, 2004, p. 3.

\**Chaetodon rainfordi* McCulloch, 1923

Greenberg, J. 1985, p. 1. A doubtful species from Fiji.

*Chaetodon reticulatus* Cuvier, 1831

Schmeltz, 1869, p. 15; Carpenter and Niem, 2001, p. 3250; Earle, 2004, p. 3.

*Chaetodon semeion* Bleeker, 1855

Allen, 1979, p. 324; Carpenter and Niem, 2001, p. 3251

*Chaetodon speculum* Cuvier, 1831

Allen, Steene, and Allen, 1998, p. 115; Carpenter and Niem, 2001, p. 3252; Randall, 2005, p. 320

\**Chaetodon triangulum* Cuvier, 1831

Fowler, 1959, p. 309. An Indian Ocean species closely resembling *C. baronessa* in the Pacific. McGrouter, 1997, p. 5 (as *Gonochaetodon triangulum*). A doubtful species from Fiji.

*Chaetodon trifascialis* Quoy and Gaimard, 1824

Carlson, 1975, p. 37 (as *Megaprotodon trifascialis*); Carpenter and Niem, 2001, p. 3253

*Chaetodon trifasciatus* Mungo Park, 1797

Boulenger, 1897, p. 372 (as *C. vittatus*); An Indian Ocean species?

(Allen, Steene, and Allen, 1998, p. 110); Ryan, 2000, p. 140 (photo); Carpenter and Niem, 2001, p. 3254; Brown, 2006, p. 45

*Chaetodon ulietensis* Cuvier, 1831

Carlson, 1975, p. 35; Carpenter and Niem, 2001, p. 3254; Earle, 2004, p.3

*Chaetodon unimaculatus* Bloch, 1787

Carlson, 1975, p. 38; Carpenter and Niem, 2001, p. 3255; Earle, 2004, p.3

*Chaetodon vagabundus* Linnaeus 1758

Günther, 1880, p. 34; Carpenter and Niem, 2001, p. 3255; Earle, 2004, p. 3

\**Chelmon rostratus* (Linnaeus, 1758)

Greenberg, 1985, p. 1. Possibly a doubtful species from Fiji.

*Forcipiger flavissimus* Jordan and McGregor, 1898

Carlson, 1975, p. 38; Carpenter and Niem, 2001, p. 3260; Earle, 2004, p. 3

*Forcipiger longirostris* (Broussonet, 1782)

Fowler, 1940, p. 780; Rosseler, 1993, p. 62; Carpenter and Niem, 2001, p. 3260; Earle, 2004, p.3. Allen (1980) does not list this species from Fiji but Allen, Steene, and Allen (1998, p. 184) do.

*Hemitaurichthys polylepis* (Bleeker, 1857)

Carlson, 1975, p. 38; Carpenter and Niem, 2001, p. 3261; Earle, 2004, p. 3

*Heniochus acuminatus* (Linnaeus, 1758)

Schmeltz, 1869, p. 15 (as *H. macrolepidotus*); Carpenter and Niem, 2001, p. 3262; Earle, 2004, p. 3

*Heniochus chrysostomus* Cuvier, 1831

Schmeltz, 1869, p. 25 (as *H. Chrysostoma*); Pöhl, 1884, p. 28 (as *Heniochus permutatus*); Carpenter and Niem, 2001, p. 3262; Allen et al., 2003, p. 28; Earle, 2004, p. 3

*Heniochus diphreutes* Jordan, 1903 (a deep water species)

Royal Ontario Museum Record (Great Astrolabe Reef Collection); Earle, 2004, p.3; Nimmerfroh, 2006, p. 50. Allen, Steene, and Allen, 1998, p. 190 say this species is not found in Fiji.

*Heniochus monoceros* Cuvier, 1831

Carlson, 1975, p. 39; Carpenter and Niem, 2001, p. 3263

*Heniochus singularis* Smith and Radcliffe, 1911

UVC, 1995, Appendix 5.3; Carpenter and Niem, 2001, p. 3264; Earle, 2004, p.3

*Heniochus varius* (Cuvier, 1829)

Schmeltz, 1869, p. 15 (as *Heniochus (Taurichthys) varius*); Carpenter and Niem, 2001, p. 3264; Earle, 2004, p.3

*Parachaetodon ocellatus* (Cuvier, 1831)

Schmeltz, 1869, p. 15 (as *Chaetodon ocellatus*)

## Pomacanthidae (Angelfishes)

*Apolemichthys trimaculatus* (Valenciennes, 1831)

Carlson, 1985, pers. comm. (as *Apblemichthys trimaculatus*); Allen, Steene and Allen, 1998, p. 24; Carpenter and Niem, 2001, p. 3272

\**Centropyge* n. sp.

Emery and Winterbottom, 1983, p. 21. Probably refer to the species just below.

*Centropyge aurantia* Randall & Wass, 1974

Allen, Steene and Allen, 1998, p. 35

*Centropyge bicolor* (Bloch, 1787)

Fowler, 1940, p. 781; Carpenter and Niem, 2001, p. 3273; Earle, 2004, p.4

*Centropyge bispinosus* (Günther, 1860)

Carlson, 1975, p. 39; Carpenter and Niem, 2001, p. 3273 (as *C. bispinosa*); Earle, 2004, p.4

*Centropyge colini* Smith-Vaniz & Randall, 1974

Myers, 1991, p. 160; Carpenter and Niem, 2001, p. 3274; Randall, 2005, p. 333

*Centropyge flavicauda* Fraser-Brunner, 1933

Carlson, 1975, p. 40; Carpenter and Niem, 2001, p. 3275

*Centropyge flavissima* (Cuvier, 1831)

Günther, 1874 (as *Holacanthus flavissimus*); Carpenter and Niem, 2001, p. 3274; Earle, 2004, p.4

*Centropyge heraldi* Woods and Schultz, 1953

Carlson, 1975, p. 40; Randall and Carlson, 2000, p. 1 (they also note that *C. woodlandi* is the junior synonym of this species); Carpenter and Niem, 2001, p. 3275.

*Centropyge loricula* (Günther, 1874)

Carlson, 1975, p. 40 (as *C. loriculus*); Carpenter and Niem, 2001, p. 3276

*Centropyge multicolor* Randall and Wass, 1974

Lieske and Myers, 1994, p. 68; Carpenter and Niem, 2001, p. 3276; Randall, 2005, p. 336

*Centropyge multifasciata* (Smith and Radcliffe, 1911)

Carpenter and Niem, 2001, p. 3277

*Centropyge nox* (Bleeker, 1853)

Carlson, 1985, pers. comm.; Carpenter and Niem, 2001, p. 3278; Randall, 2005, p. 337. Allen, Steene and Allen, 1998, p. 53 say this species is not found in Fiji.

*Centropyge tibicen* (Cuvier, 1831)

Carlson, 1985, pers. comm.; Randall, 2005, p. 337. Allen, Steene and Allen, 1998, p. 54 say this species is not found in Fiji.

*Centropyge vrolikii* (Bleeker, 1853)

www.wetwedmedia.com/marine/fishes/angels/fijiangels.htm; Carpenter and Niem, 2001, p. 3279

*Centropyge woodheadi* Kuitert, 1998

www.wetwedmedia.com/marine/fishes/angels/fijiangels.htm; Allen *et al.*, 2003, p. 33

*Euxhiphops sexstriatus* (Cuvier, 1831)

www.amdareef.com/el\_angel.htm

*Genicanthus melanospilos* (Bleeker, 1857)

Randall, 1975, p. 406; Carpenter and Niem, 2001, p. 3283; Allen *et al.*, 2003, p. 40; Earle, 2004, p.4; Randall, 2005, p. 339; Lesley, 2006, p. 45. Allen, Steene and Allen, 1998, p. 72 say this species is not found in Fiji.

*Genicanthus watanabei* (Yasuda & Tominaga, 1970)

Allen, Steene and Allen, 1998, p. 76

*Paracentropyge multifasciata* (Smith and Radcliffe, 1911)

Allen, 1979, p. 328 (as *Centropyge multifasciatus*); www.wetwedmedia.com/marine/fishes/angels/fijiangels.htm (as *Centropyge multifasciata*)

\**Pomacanthus arcuatus* (Linnaeus, 1758)

Capell, 1941, p. 113. A West Atlantic species erroneously listed from Fiji.

*Pomacanthus imperator* (Bloch, 1787)

Boulenger, 1897, p. 372 (as *Holacanthus nicobariensis*); Carpenter and Niem, 2001, p. 3285; Earle, 2004, p.4

*Pomacanthus semicirculatus* (Cuvier, 1831)

Schmeltz, 1869, p. 15 (as *Holacanthus semicirculatus*); Carpenter and Niem, 2001, p. 3285; Earle, 2004, p.4; Randall, 2005, p. 342

\**Pomacanthus sexstriatus* (Cuvier, 1831) = *Euxhiphops sexstriatus*?

Greenberg, 1985, p. 1. A doubtful record for Fiji.

*Pygoplites diacanthus* (Boddaert, 1772)

Carlson, 1975, p. 40; Carpenter and Niem, 2001, p. 3286; Earle, 2004, p.4

#### **Pempheridae (Sweepers)**

*Parapriacanthus guentheri* Klunzinger, 1871

Zug *et al.*, 1988, p. 12 (may be a synonym of *P. ransonneti* below)

*Parapriacanthus ransonneti* Steindachner, 1870

Carlson, 1975, p. 41 (as *Parapriacanthus beryciformes* Franz, 1910); Blaber *et al.*, 1993b, p. 109

*Pempheris dispar* Herre, 1935

Milton, Rawlinson and Sesewa, 1993, p. 96

*Pempheris oualensis* Cuvier, 1831

Carlson, 1975, p. 41

*Pempheris schwenkii* Bleeker, 1855

Randall, Allen and Steene, 1990, p. 214

*Pempheris vanicolensis* (Cuvier, 1831)

Earle, 2004, p.3

#### **Ephippidae (Spadefishes)**

*Platax batavianus* Cuvier, 1831

Blaber *et al.*, 1993b, p. 106

*Platax orbicularis* (Forsskål, 1775)

Günther, 1880, pp. 35, 56; Carpenter and Niem, 2001, p. 3617; Boseto, 2005, p. 198

*Platax teira* (Forsskål, 1775)

Carlson, 1975, p. 91; Randall, 2005, p. 570

#### **Histiopteridae**

*Histiopterus tupus* Schlegel, 1842

Raj and Seeto, 1982, p. 23

#### **Kyphosidae (Rudderfishes)**

*Kyphosus cinerascens* (Forsskål, 1775)

Blaber *et al.*, 1993b, p. 107; Carpenter and Niem, 2001, p. 3293; Earle, 2004, p.3

*Kyphosus biggibus* (Lacépède, 1802)

J. Seeto, *pers comm.*, Carpenter and Niem, 2001, p. 3292

*Kyphosus lembus* Cuvier, 1831

Lewis (n. d.) Fisheries photo.

*Kyphosus vaigensis* (Quoy and Gaimard, 1825)

Herre, 1936, p. 206 (as *K. waigensis*); Carpenter and Niem, 2001, p. 3295

#### **Monodactylidae**

*Monodactylus argenteus* (Linnaeus, 1758)

Günther, 1880, p. 35 (as *Psettus argenteus*); Carpenter and Niem, 2001, p. 3218

#### **Scatophagidae (Scats)**

*Scatophagus argus* (Bloch, 1788)

Carlson, 1975, p. 91; Carpenter and Niem, 2001, p. 3625; Randall, 2005, p. 571

*Scatophagus atromaculatus* (Bennett) is considered a synonym of the above. Professor Trond Kvernevik (Centre for Coastal Research, Norway) and J. Seeto are discussing the possibility that they are different.

#### **Cirrhitidae (Hawkfishes)**

*Amblycirrhitus bimacula* Jenkins, 1903

Carlson, 1975, p. 50

*Amblycirrhitus oxyrhynchus* (Bleeker, 1858)

Boulenger, 1897, p. 372



*Cirrhichthys aprinus* (Cuvier, 1829)

World Fish Centre (ICLARM) FishBase p. 4 (citing Randall *et al.*, 1990 as the sources but there is no reference to Fiji except Western Pacific); Fishbase 2009, p. 6

*Cirrhichthys falco* Randall, 1963

Carlson, 1975, p. 51; Royal Ontario Museum Records (Great Astrolabe Reef Collection) (as *Cirrhichthys serratus* Randall, 1963); Earle, 2004, p.4; Nimmerfroh, 2006, p. 34

*Cirrhichthys oxycephalus* (Bleeker, 1855)

Schmeltz, 1869, p. 15 (as *Cirrhites oxycephalus*)

*Cirrhites pinnulatus* (Bloch and Schneider, 1801)

Emery and Winterbottom, 1983, p. 36; Carpenter and Niem, 2001, p. 3326

*Cyprinocirrhites polyactis* (Bleeker, 1875)

Carlson, 1985, *pers. comm.*

*Neocirrhites armatus* Castelnau, 1873

Carlson, 1975, p. 51; Earle, 2004, p.4

*Oxycirrhites typus* Bleeker, 1857

Carlson, 1975, p. 51; Nimmerfroh, 2006, p. 34

*Paracirrhites amblycephalus* Bleeker, 1857

Carlson, 1975, p. 51

*Paracirrhites arcatus* (Cuvier, 1829)

Boulenger, 1897, p. 372, Earle, 2004, p.4; Nimmerfroh, 2006, p. 34

*Paracirrhites forsteri* (Schneider, 1801)

Fowler, 1928, p. 239; Carpenter and Niem, 2001, p. 3327; Earle, 2004, p. 4

*Paracirrhites hemistictus* (Gunther, 1874)

Carpenter and Niem, 2001, p. 3328; Earle, 2004, p.4

#### **Aploactinidae (Velvetfishes)**

*Paraploactis sp.*

Seale, 1935, p. 365 (as *Aploactisoma milesi* Richardson, 1850); Randall, 2005, p. 130

*Paraploactis kagoshimensis* (Ishikawa, 1904)

Poss and Eschmeyer, 1978, p. 406

*Paraploactis sp.*

Zug *et al.*, 1988, p. 6; Williams, 1997, p. 13

#### **Caracanthidae (Crouchers or Orbicular Velvetfishes)**

*Caracanthus maculatus* (Gray, 1831)

Fowler, 1928, p. 299; Earle, 2004, p.2

*Caracanthus unipinna* (Gray, 1831)

Schmeltz, 1869, p. 16 (as *Amphiprionichthys apistus*)

#### **Scorpaenidae (Scorpionfishes, Lionfishes and Stonefishes)**

*Ablabys taenianotus* (Cuvier, 1829)

Schmeltz, 1869, p. 16 (as *Tetraroge taenianotus*); Carpenter and Niem, 1999 (vol. 4) p. 2309; Allen *et al.*, 2003, p. 381; Randall, 2005, p. 129. Also known as *Amblyapistus taenianotus*. Sometimes put in Congiopodidae but now put in **Tetraroginae (subfamily)**.

*Dendrochirus bellus* (Jordan and Hubbs)

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Dendrochirus biocellatus* (Fowler, 1938)

Carlson, 1975, p. 16

*Dendrochirus brachypterus* (Cuvier, 1829)

Schmeltz, 1879, p. 48 (as *Pterois brachyptera*); Jordan and Dickerson, 1908, p. 616 (as *Pterois sausaulele*); Boseto, 2005, p. 199

*Dendrochirus zebra* (Quoy and Gaimard, 1825)

Schmeltz, 1879, p. 43 (as *Pterois zebra*); Carpenter and Niem, 1999 (vol. 4) p. 2314; Boseto, 2005, p. 199

*Eschmeyer nexus* Poss and Springer, 1983

Poss and Springer, 1983, p. 309; <http://intreasrues.com/fijimf.html> (as endemic)

*Inimicus didactylus* (Pallas, 1769)

Fishbase. 10-June-1996.

*Parascorpaena bandanensis* (Bleeker, 1851)

Günther, 1860, 2, p. 117 (as *Scorpaena haplodactylus*)

*Parascorpaena mcadamsi* (Fowler, 1938)

Carlson, 1975, p. 18 (as *Scorpaena mcadamsi*)

*Parascorpaena mossambica* (Peters, 1855)

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Carpenter and Niem, 1999 (vol. 4) p. 2327

*Parascorpaena picta* (Kuhl and Van Hasselt in Cuvier, 1829)

Carpenter and Niem, 1999 (vol. 4) p. 2327

*Pontinus macropterus*

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly wrongly identified. *Pontinus macrocephalus* (Sauvage, 1882) may be the correct spelling.

*Pontinus macrocephalus* Sauvage 1882

Fiji fish specimen (Randy Thaman specimen) 19/2/08

*Pteroidichthys amboinensis* Bleeker, 1856

Randall, 2005, p. 118

*Pterois antennata* (Bloch, 1787)

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Brown, 1993, p. 28; Nimmerfroh, 2006, p. 68; Carpenter and Niem,

1999 (vol. 4) p. 2329

\**Pterois muricata* Cuvier in Cuvier and Valenciennes, 1829

Nimmerfroh, 2006, p. 81 (doubtful record)

*Pterois radiata* Cuvier, 1829

Schmeltz, 1869, p. 16 (as *Pterois cincta*); Earle, 2004, p.2; Nimmerfroh, 2006, p. 79

\**Pterois* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Pterois* sp (longspine Lion fish)

Nimmerfroh, 2006, p. 81

*Pterois volitans* (Linnaeus, 1758)

Boulenger, 1897, p. 373; Carpenter and Niem, 1999 (vol. 4) p. 2332; Earle, 2004, p.2; Nimmerfroh, 2006, p. 70

*Scorpaena asperella* Bennett, 1829

Kendall and Goldsborough, 1811, p. 315 (as *S. galactacma*)

*Scorpaena aurita* Rüppell, 1838

Lal *et al.*, 1983, p. 30

*Scorpaena lineagula* Fowler, 1955

Fowler, 1955a, p. 380

*Scorpaena nuchalis* Günther, 1874

Boulenger, 1897, p. 373

*Scorpaena picta* (Cuvier, 1829)

Peters, 1876, p. 834 (as *S. tristis*); Nair, 2003, p. 58 (as *Parascorpaena picta*). However, *S. trista* may be a junior synonym of *S. strongia* which can make the first reference invalid.

*Scorpaenodes albaiensis* (Evermann and Seale, 1907)

Williams, 1997, p. 16; Carpenter and Niem, 1999 (vol. 4) p. 2336; Randall, 2005, p. 119

*Scorpaenodes corallinus* Smith, 1957

Williams, 1997, p. 16

*Scorpaenodes guamensis* (Quoy and Gaimard, 1824)

Schmeltz, 1869, p. 25 (as *Sebastes polylepis*); Carpenter and Niem, 1999 (vol. 4) p. 2336

*Scorpaenodes hirsutus* (Smith, 1957)

Zug *et al.*, 1988, p. 14; Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Scorpaenodes kelloggi* (Jenkins, 1903)

Zug *et al.*, 1988, p. 14; Royal Ontario Museum Records (Great Astrolabe Reef Collection)

*Scorpaenodes minor* (Smith, 1958)

Royal Ontario Museum Records (Great Astrolabe Reef Collection);

McGrouter, 1997, p. 9 (as *Hypomacrus brocki*, Schultz, 1966); Randall, 2005, p. 121

*Scorpaenodes papuensis* (Cuvier in Cuvier and Valenciennes, 1829)

Greenfield list, Nov 2001

*Scorpaenodes parvipinnis* (Garrett, 1864)

Carlson, 1975, p. 17

*Scorpaenodes quadrspinosus* Greenfield and Matsura, 2002

This is a new species from Fiji. Greenfield and Matsuura, 2002, p. 973; Randall, 2005, p. 121

*Scorpaenodes scaber* (Ramsay and Ogilby, 1885)

Fowler, 1931, p. 349; Carpenter and Niem, 1999 (vol. 4) p. 2339

*S. scabra* is another spelling.

\**Scorpaenodes* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection)

\**Scorpaenopsis brevifrons* Eschmeyer and Randall, 1975

Williams, 1997, p. 16; Carpenter and Niem, 1999 (vol. 4) p. 2340. Randall and Eschmeyer, 2001, p. 17 say this is only found in Hawaii.

\**Scorpaenopsis cirrhosa* Thunberg, 1793

Singleton, 1997, p. 98 (as *Dendroscorpaena cirrhosa*)

Randall and Eschmeyer, 2001, p. 14 say this is only found in Japan, China and Taiwan.

*Scorpaenopsis diabolus* (Cuvier, 1829)

Schmeltz, 1879, p. 43 (As *Scorpaena diabolus*); Carpenter and Niem, 1999 (vol. 4) p. 2342

*Scorpaenopsis eschmeyeri* Randall and Greenfield, 2004

Randall and Greenfield, 2004, p. 384

*Scorpaenopsis fowleri* (Pietschmann, 1934)

Zug *et al.*, 1988, p. 14; Royal Ontario Museum Records (Great Astrolabe Reef Collection); Fishbase 2009, p. 17 (as *Sebastapistes fowleri*). Now called *Sebastapistes fowleri* (J Randall, March 2002 *pers. comm.*)

*Scorpaenopsis gibbosa* (Bloch and Schneider, 1801)

Nair, 2003, p. 58

*Scorpaenopsis macrochir* Ogilby, 1910

Carpenter and Niem, 1999 (vol. 4) p. 2343; Randall and Eschmeyer, 2001, p. 35; Boseto, 2005, p. 199

*Scorpaenopsis oxycephala* (Bleeker, 1849)

Royal Ontario Museum Records (Great Astrolabe Reef Collection); [www.larryulrich.com/uwlocationlist.html](http://www.larryulrich.com/uwlocationlist.html); Nimmerfroh, 2006, p. 95. Andreas Kunzmann (ZMT) University of Bremen, March 2006 collected it here. Randall and Eschmeyer, 2001, p. 46 say it is not found in Fiji.

*Scorpaenopsis papuensis* (Cuvier, 1829)

Williams, 1997, p. 16; Nimmerfroh, 2006, p. 89

*Scorpaenopsis possi* Randall and Eschmeyer, 2001

Randall and Eschmeyer, 2001, p. 9; Randall, 2005, p. 123

\**Scorpaenopsis* sp.

Royal Ontario Museum Records (Great Astrolabe Reef Collection); Zug *et al.*, 1988, p. 14 (may not be the same as ROM record)

\**Scorpaenopsis venosa* (Cuvier, 1829)

Gray, 1859, pp. 26, 140 (as *Scorpaenopsis novae-guinea* (Cuvier, 1829); Blaber *et al.*, 1993a, p. 53; Blaber *et al.*, 1993b, p. 110; Nimmerfroh, 2006, pp. 83, 92; Randall and Eschmeyer, 2001, p. 70 say it is not found in Fiji.

*Scorpaenopsis vittapinna* Randall and Eschmeyer, 2001

Randall and Eschemeyer, 2001, p. 70; Randall, 2005, p. 125

*Sebastapistes bynoensis* (Richardson, 1845)

Peters, 1876 (1877), p. 834 (as *Scorpaena tristis* non Klunzinger)

*Sebastapistes cyanostigma* (Bleeker, 1856)

Fowler, 1928, p. 287 (as *Scorpaena albobrunnea*); Nimmerfroh, 2006, p. 91

*Sebastapistes dentatus* Günther, 1874

Boulenger, 1897, p. 373 (as *Scorpaena dentata*)

*Sebastapistes fowleri* (Pietschmann, 1934)

see *Scorpaenopsis fowleri* above.

*Sebastapistes galactacma* Jenkins, 1903

Kendall and Goldsborough, 1911, p. 315

*Sebastapistes mauritiana* (Cuvier, 1829)

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Sebastapistes* sp.

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Sebastapistes strongia* (Cuvier, 1829)

Royal Ontario Museum (Great Astrolabe Reef Collection); See *S. trista*.

*Sebastapistes tinkhami* (Fowler, 1946)

Zug *et al.*, 1988, p. 14; Royal Ontario Museum (Great Astrolabe Reef Collection); Carpenter and Niem, 1999 (vol. 4) p. 2346

*Sebastapistes zanzibarensis* Playfair, 1866

Schmeltz, 1879, p. 43 (as *Scorpaena zanzibarensis*)

*Sebastolobus macrochir* (Günther, 1877)

Williams, 1997, p. 16 (as *Scorpaenopsis macrochir*)

*Setarches guntheri longiceps* (Günther, 1880)

Günther, 1878, p. 179 (as *S. fidjiensis*); Carpenter and Niem, 1999

(vol. 4) p. 2347

*Synanceia horrida* (Linnaeus, 1766)

Lal *et al.*, 1983, p. 30 (as *S. trachynis*)

*Synanceia verrucosa* Bloch and Schneider, 1801

Schmeltz, 1869, p. 16; Carpenter and Niem, 1999 (vol. 4) p. 2349; Nimmerfroh, 2006, p. 96

*Taenianotus triacanthus* Lacépède, 1802

Pöhl, 1884, p. 29; Carpenter and Niem, 1999 (vol. 4) p. 2349; Allen *et al.*, 2003, p. 378

### Liparididae (Snailfish)

Unidentified specimen (Randy Thaman – Fiji Fish) 19/02/08

### Tetrarogidae

*Tetraroge barbata* (Cuvier, 1829)

Jenkins, 2003

*Tetraroge niger* (Cuvier, 1829)

Carpenter and Niem, 1999 (vol. 4) p. 2350; Boseto, 2005, p. 199

### Sebastidae

*Sebastiscus albofasciatus* (Lacepède, 1802)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu.

### Psychrolutidae

*Psychrolutes inermis* Vaillant, 1888

Raj and Seeto, 1984

### Platycephalidae (Flatheads)

*Onigocia bimaculata* Knapp, Imamura & Sakashita, 2000

Fishbase 2009, p. 13

*Onigocia oligolepis* (Regan, 1908)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Eurycephalus areniola* (Schultz in Schultz *et al.*, 1966)

Carlson, 1975, p. 16 (as *Thysanophrys arenicola*); Carpenter and Niem, 1999 (vol. 4) p. 2417; Allen *et al.*, 2003, p. 383; Randall, 2005, p. 132

*Thysanophrys chiltonae* Schultz, 1966

Carlson, 1975, p. 16 (as *Inegocia chiltonae*); Carpenter and Niem, 1999 (vol. 4) p. 2420; Nimmerfroh, 2006, p. 44

*Thysanophrys otaitensis* (Cuvier, 1829)

Royal Ontario Museum (Great Astrolabe Reef Collection); Carpenter and Niem, 1999 (vol. 4) p. 2421

### Dactylopteridae (Flying Gurnards)

*Dactyloptena orientalis* (Cuvier, 1829)

Carlson, 1975, p. 16; Carpenter and Niem, 1999 (vol. 4) p. 2287

### Triglidae (Gurnard)

*Pterygotrigla* sp.

J. Seeto, USP specimen (head only)

*Pterygotrigla multiocellatus* (Matsubara, 1937)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu; Nair, 2003, p. 64.

*Satyrichthys* sp.

Raj and Seeto, 1984

#### **Aulostomidae (Trumpet fish)**

*Aulostomus chinensis* (Linnaeus, 1766)

Carlson, 1975, p. 13; Carpenter and Niem, 1999 (vol. 4) p. 2277; Earle, 2004, p.1; Nimmerfroh, 2006, p. 41

#### **Syngnathidae (Pipefishes and Seahorses)**

*Bulbonaricus davaoensis* (Herald, 1953)

Dawson, 1985, p. 27

*Choeroichthys brachysoma* (Bleeker, 1855)

Fowler, 1955a, p. 373

*Choeroichthys cinctus* Dawson, 1976

Dawson, 1985, p. 36; Randall, 2005, p. 105

*Choeroichthys sculptus* (Günther, 1870)

Günther, 1859 - 1870, 8, p. 185 (type locality Fiji); Randall, 2005, p. 105

*Corythoichthys amplexus* Dawson and Randall, 1975

Dawson and Randall, 1975, p. 271; Carpenter and Niem, 1999, Vol. 4, p. 2273; Kuitert, 2000, p. 104; Randall, 2005, p. 105; Nimmerfroh, 2006, pp. 144, 146

*Corythoichthys flavofasciatus* (Rüppell, 1838)

Günther, 1859 - 1870, 8, p. 174 (as *Syngnathus conspicillatus*)

Schmeltz, 1879, p. 61 (as *Syngnathus conspicillatus*); Carpenter and Niem, 1999, Vol. 4, p. 2273; Nimmerfroh, 2006, p. 151; Kuitert, 2000 says this is only found from the Red Sea and Indian Ocean but Randall, 2005, says it is found all the way to Tuamotus.

*Corythoichthys haematopterus* (Bleeker, 1851)

Günther, 1873 - 1910, 9, p. 431; Allen *et al.*, 2003, p. 427; Nimmerfroh, 2006, p. 145. This species is not known from Fiji according to Dawson (1977). Kuitert, 2000 says this is widespread in the West Pacific.

*Corythoichthys intestinalis* (Ramsey, 1881)

Schultz, 1953, p. 276 (as *C. intestinalis waitei*); Randall, 2005, p. 106

*Corythoichthys nigripectus* Herald, 1953

Carlson, 1975, p. 14; Carpenter and Niem, 1999, Vol. 4, p. 2274; Randall, 2005, p. 106; Nimmerfroh, 2006, p. 149

*Corythoichthys ocellatus* (Herald in Schultz *et al.*, 1953)

Allen *et al.*, 2003, p. 427; Nimmerfroh, 2006, pp. 153

*Corythoichthys schultzi* Herald, 1953

Carlson, 1975, p. 14; Carpenter and Niem, 1999, Vol. 4, p. 2274; Randall, 2005, p. 106; Nimmerfroh, 2006, p. 148

*Corythoichthys* sp. (Banded Messmate Pipefish)

Nimmerfroh, 2006, p. 156

*Corythoichthys waitei* (Jordan and Seale, 1906)

Kuitert, 2000, p. 115 (says from Philippines to Samoa)

*Cosmocampus banneri* (Herald and Randall, 1972)

Dawson, 1985, p. 51; Randall, 2005, p. 106

*Doryrhamphus excisus excisus* Kaup, 1856

Boulenger, 1897, p. 374 (as *Doryichthys extisus*); Randall, 2005, p. 107. Kuitert, 2000 says this species is found from the Red Sea to the Indian Ocean only.

\**Doryrhamphus melanopleura* Bleeker, 1853

(this is synonym of *D. excisus* – Randall 2005); Günther, 1910, (as *Doryichthys pleurotaenia*)

*Doryrhamphus negrosensis* (Herre, 1934)

Nimmerfroh, 2006, p. 149 (who says not often seen on Fiji's reef)

*Dunckerocampus dactyliophorus* (Bleeker, 1853)

Carlson, 1975, p. 15 (as *Doryrhamphus dactyliophorus*); Carpenter and Niem, 1999, Vol. 4, p. 2274

*Dunckerocampus naia* Allen & Kuitert, 2004.

Fishbase 2009, p. 7; [http://www.naia.com.fj/diary/dd\\_060708.html](http://www.naia.com.fj/diary/dd_060708.html)

*Festucalex wassi* Dawson, 1977

Dawson, 1985, pp. 73, 74; Kuitert, 2000, p. 123 (probably a synonym of *Festucalex gibbsi* Dawson, 1977)

*Halicampus boothae* (Whitley, 1964)

Dawson and Randall, 1975, p. 264; Randall, 2005, p. 108

*Halicampus dunkeri* Chabanaud, 1929

Fishbase, 2002, p. 2; Nair, 2003, p. 59. However, Kuitert, 2000 says it is only found in Indonesia and Philippines.

\**Halicampus edmondsoni* (Pietschmann, 1930)

Dawson and Randall., 1975, p. 266 (as *Micrognathus edmondson*); Carlson, 1975, p. 87; Dawson 1985 and Kuitert, 2000 say this is an endemic Hawaiian species.

*Halicampus macrorhynchus* Banner, 1915

Randall, 2005, p. 108

*Halicampus marquensensis* Dawson, 1984

Dawson, 1985, pp. 88, 94; Randall, 2005, p. 108

*Halicampus matafae* (Jordan and Seale, 1906)

Carlson, 1975, p. 15, 94

- Halicampus nitidus* (Günther, 1873)  
Dawson, 1985, pp. 91, 94; Randall, 2005, p. 109
- Hippichthys cyanospilus* (Bleeker, 1854)  
Dawson, 1978, p. 150; Randall, 2005, p. 109
- Hippichthys spicifer* Rüppell, 1838  
Fowler, 1932, p. 5 (as *Syngnathus spicifer*); Herre, 1935 (p. 396 (as *M. suvensis*); Carcasson, 1977, p. 80 (as *Micrognathus suvensis* Herre, 1935); Boseto, 2005, p. 199
- Hippocampus denise* Lourie and Randall, 2003  
<http://www.tackettproductions.com/Denise's%20Pygmy%20Seahorse.htm>
- Hippocampus foliatus* Perry, 1810  
Whitley, 1927a, p. 4. Kuitert, 2000 does not acknowledge this species on page 230.
- Hippocampus hystrix* Kaup, 1856  
Carpenter and Niemi, 1999, Vol. 4, p. 2272
- \**Hippocampus kuda* Bleeker, 1852  
Schmeltz, 1869, p. 28 (as *Hippocampus novae-hollandiae* non Steindachner). Kuitert, 2000 says many species are referred to this name but *H. kuda* is only found from Japan to Maldives. Patricia Kailola says it is found in Fiji (*pers comm.*, 2006)
- Hippocampus severnsi* Lourie & Kuitert 2008  
[www.oceanrealmimages.com/gallery/main.php?g2\\_view=core.ShowItem&g2\\_itemId=223924](http://www.oceanrealmimages.com/gallery/main.php?g2_view=core.ShowItem&g2_itemId=223924); Fishbase 2009, p. 10
- Hippocampus taeniopterus* (Bleeker, 1852)  
Nimmerfroh, 2006, pp. 158, 160, 161
- Ichthyocampus diacanthus* (Schultz, 1943)  
Dawson, 1977, p. 620 (as *Phoxocampus diacanthus*)
- \**Ichthyocampus* sp.  
Garman, 1903, p. 240. Dawson, 1985 notes that this genus is monotypic = (*Ichthyocampus carce* Hamilton Buchanan, 1822 and is only found from India to Celebes). However, Kuitert, 2000 says *Ichthyocampus diacanthus* Schultz, 1943 is widespread in the West Pacific
- Micrognathus andersonii* (Bleeker, 1858)  
Dawson, 1982a, p. 672
- \**Micrognathus brevis* Rüppell, 1838  
Herre, 1936, p. 86. Kuitert 2000 says this is only found in the Red Sea and Gulf of Suez.
- Micrognathus natans* Dawson, 1982  
Dawson, 1982a, p. 682; Kuitert, 2000, p. 150
- Micrognathus pygmaeus* Fritzsche, 1981  
Nimmerfroh, 2006, pp. 152 (as *Macrognythus pygmaeus*).
- Kuitert, 2000 separates this from *M. brevis*. *Pygmaeus* was a subspecies name for *M. brevis*.
- Microphis argulus* (Peters, 1855)  
Ryan, 1980, p. 61; Boseto, 2005, p. 199. Kuitert, 2000 does not acknowledge this species.
- Microphis biocellatus* Gunther, 1870  
Kuitert, 2000, p. 173
- Microphis brachyurus* (Bleeker, 1853)  
Schmeltz, 1879, p. 61 (as *Dorichthys brachyurus*); Günther, 1880, p. 36 (as *Doryichthys brachyurus*); Boseto, 2005, p. 199 (as *M. brachyurus brachyurus*)
- Microphis brevidorsalis* (de Beaufort, 1916)  
Dawson, 1984b, p. 170; Kuitert, 2000, p. 173
- Microphis leiaspis* (Bleeker, 1853)  
Seale, 1935, p. 354; Kuitert, 2000, p. 174
- Microphis retzii* (Bleeker, 1856)  
Carlson, 1975, p. 15, Boseto, 2005, p. 198
- Microphis* sp. 1  
Boseto, 2005, p. 198;
- Minyichthys brachyrhinus* (Herald, 1953)  
Dawson, 1985, p. 143. Kuitert, 2000, p. 147 mentions this species but do not provide details.
- \**Mitotichthys semistriatus* (Kaup, 1856)  
Fowler, 1907-08, p. 426. This is an Australian endemic (see Dawson, 1985, p. 147). Fowler, 1922 p. 444 calls it *Leptonotus tristriatus* as being from Fiji but probably should read Victoria, Australia. Kuitert, 2000 says its is from Southern Victoria/Tasmania.
- Phoxocampus belcheri* (Kaup, 1856)  
Herre, 1936, p. 82 (as *Ichthyocampus kampeni*, non Weber); Randall, 2005, p. 112
- Phoxocampus diacanthus* (Schultz, 1943)  
Randall, 2005, p. 112
- \**Phoxocampus tetrophthalmus* (Bleeker, 1858)  
Carcasson, 1977, p. 79 (as *Ichthyocampus kampeni* (Weber, 1913). This is only found in Indonesia, Irian Jaya and Philippines (Dawson, 1985, p. 156; Kuitert, 2000, p. 170).
- Siokunichthys herrei* Herald, 1953  
Herald, in Schultz *et al.*, 1953 - 1966, 1, p. 254; Fishbase 2009. p. 17. Kuitert, 2000 says this is only found in Indonesia and Philippines.
- \**Stigmatopora argus* (Richardson, 1840)  
Fowler, 1907, p. 426 (as *S. nigra* non Kaup). Misidentified by Fowler (see Dawson, 1982b, p. 578). Also erroneously listed from Fiji by Carcasson (1977). This is an Australian species. Whitley, 1927, p.

4 also lists this species from Fiji. Kuitert, 2000 says this is a South Australian coast species.

*Syngnathoides biaculeatus* (Bloch, 1785)

Dawson, 1985, p. 181; Carpenter and Niem, 1999, Vol. 4, p. 2276

*Syngnathus cyanospilos* Bleeker, 1854

Kuitert, 2000, p. 181

*Trachyrhamphus longirostris* (Kaup, 1856 )

Nimmerfroeh, 2006, p. 150

#### **Pomatomidae (Tailors)\***

\**Pomatomus saltator* Linnaeus, 1758

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

#### **Solenostomidae (Ghost Pipefishes)**

*Solenostomus cyanopterus* Bleeker, 1854

Lieske and Myers, 1994, p. 15; Randall, 2005, p. 103

*Solenostomus halimeda* Orr, Fritzsche and Randall, 2002

Allen *et al.*, 2003, p. 424; Nimmerfroeh, 2006, pp. 168-172; [www.amonline.net.au/fishes/students/focus/soleno.htm](http://www.amonline.net.au/fishes/students/focus/soleno.htm) (as *Solenostomus* [new species] *halimeda*)

*Solenostomus paradoxus* (Pallas, 1770)

Ryan, 2000, p. 153; Allen *et al.*, 2003, p. 423; Randall, 2005, p. 103; Nimmerfroeh, 2006, pp. 162-167

*Solenostomus paegnius* (Jordan and Thomson, 1914)

Allen *et al.*, 2003, p. 424

\**Solenostomus* sp. #1

Carlson, 1975, p. 87

\**Solenostomus* sp. #2

Carlson, 1975, p. 181

*Solenostomus* sp (Thin Ghost Pipefish)

Allen *et al.*, 2003, p. 425

*Solenostomus* sp (Orange hairy Ghost pipefish)

<http://www.amonline.net.au/FISHES/students/focus/soleno.htm>

#### **Fistulariidae (Cornetfishes)**

*Fistularia commersonii* (Rüppell, 1838)

Günther, 1873-1910, 7, p. 221 (as *E. depressa*); Carpenter and Niem, 1999 (vol. 4) p. 2279; Earle, 2004, p.1

*Fistularia petimba* Lacépède, 1803

Fowler, 1907, p. 425

*Fistularia* sp (Large (> 1m) red deep sea species)

J. Seeto. Photo.

#### **Centriscidae (Shrimpfish)**

*Aeoliscus strigatus* (Gunther, 1861)

Randall, 2005, p. 113

#### **Macrorhamphosidae**

*Macrorhamphorus scolopax* Linnaeus, 1758

Burgess *et al.*, 1988, p.123. Circumtropical.

#### **Schindleriidae**

*Schindleria praematurus* (Schindler, 1930)

Springer, 1982, p. 149. This is the lightest of all vertebrates (Guinness Book of Records, 1998, p. 246)

#### **Eleotridae (Sleepers)**

*Bostrychus sinensis* Lacépède, 1801

Günther, 1877, 6, p. 189; Schmeltz, 1869, p. 19 (as *Eleotris sinensis*). The genus *Bostrychthys* is sometimes used.

*Belobranchus belobranchus* Valenciennes, 1837

Jenkins, 2003; Boseto, 2005, p. 198

*Bunaka gyrinoides* (Bleeker, 1853)

Anon., 1981, p. 91

*Butis amboinensis* Bleeker, 1853

Masuda *et al.*, 1984, p. 239

*Butis butis* (Hamilton-Buchanan, 1822)

Ryan, 1980, p. 64

\**Butis* sp

McGrouter, 1997, p. 2

*Calumia biocellata* Smith, 1958

Carlson, 1975, p. 66 (junior synonym of *C. godeffroyi* below)

*Calumia godeffroyi* (Günther, 1877)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Calumia profunda* Larson and Hoese, 1980

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Eleotris acanthopoma* Bleeker, 1853

McGrouter, 1997, p. 4

*Eleotris fusca* (Bloch and Schneider, 1801)

Günther, 1859 - 1870, 3, p. 125; Schmeltz, 1864, p. 9

*Eleotris melanosoma* Bleeker, 1852

Herre, 1936, p. 346

*Giurus margaritaceus* (Valenciennes, 1837)

Jenkins, 2003, p. ?

*Giurus hoedti* (Bleeker, 1854)

Jenkins, 2003, Boseto, 2005, p. 198

*Heteroleotris diadematus* (Rüppell, 1828)

Fowler, 1927, p. 27

*Heteroleotris* n sp.

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Heteroleotris* sp

Williams, 1997, p. 10

*Hypseleotris cyprinoides* (Valenciennes, 1837)

Schmeltz, 1869, p. 19 (as *Eleotris cyprinoides*).

*Hypseleotris guentheri* (Bleeker, 1875)

Günther, 1873 - 1910, 6, p. 186

*Lairdina hopletopus* Fowler, 1953. Endemic genus.

Fowler, 1953, p. 386

*Ophieleotris margaritacea* (Valenciennes, 1837)

Boseto, 2005, p. 198

*Ophiocara aporos* (Bleeker, 1854)

Günther, 1861, 3, p. 109 (as *Eleotris aporos*); Schmeltz, 1879, p. 48 (as *Eleotris aporos*); Fishbase 2009, p. 13 (as *Ophioeleotris aporos*)

*Ophiocara hoedtii* Bleeker, 1854

Schmeltz, 1865, p. 8 (as *Eleotris hoedtii*)

*Ophiocara macrolepidotus* (Bloch, 1792)

Günther, 1880, p. 35 (as *Eleotris macrolepidotus*); Schmeltz, 1879, p. 47 (as *Eleotris cantoris*) see the 2 below!

*Ophiocara ophiocephalus* Valenciennes, 1837

Schmeltz, 1869, p. 19 (as *Eleotris porocephalus*); Kner, 1968, p. 328 (as *Eleotris cantoris*); Schmeltz, 1869, p. 19 (as *Eleotris cantoris*)

*Ophiocara porocephala* (Cuvier and Valenciennes, 1837)

Jordan and Seale, 1906, p. 384 (as *Ophiocara cantoris*) see the 2 above!

*Oxyeleotris marmorata* (Bleeker, 1852)

Schmeltz, 1865, p. 8 (as *Eleotris marmorata*), Boseto, 2005, p. 198; <http://fish.mongabay.com/data/Fiji.htm> say this is a questionable record.

### Gobiidae (Gobys)

*Acentrogobius caninus* (Valenciennes, 1837)

Schmeltz, 1869, p. 18 (as *Gobius caninus*); Boseto, 2005, p. 198

*Acentrogobius cauerensis* (Bleeker, 1853)

Günther, 1873 - 1910, 6, p. 180 (as *Euctenogobius ophthalmonema*); See *Oxyurichthys ophthalmomena* below - same family.

*Acentrogobius suluensis* (Herre, 1927)

Williams, 1997, p. 1

*Amblyeleotris fasciata* (Herre, 1953)

Williams, 1997, p. 2

*Amblyeleotris guttata* (Fowler, 1938)

Royal Ontario Museum (Great Astrolabe Reef Collection); Brown, 1993, p. 52; Boseto, 2005, p. 198

*Amblyeleotris randalli* Hoese and Steene, 1978

Brown, 1993, p. 64; Allen *et al.*, 2003, p. 301; Randall, 2005, p. 516

*Amblyeleotris steinitzi* (Klausewitz, 1974)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Amblyeleotris wheeleri* Polunin and Lubbock, 1977.

Nair, 2003, p. 52; Randall, 2009, p. 49

*Amblycentrus arabicus* (Gmelin, 1789)

Zug *et al.*, 1988, p. 8 (as *Amblygobius bimaculatus* (Valenciennes in Cuvier and Valenciennes, 1837)

*Amblygobius decussatus* (Bleeker, 1855)

Randall, 2005, p. 517

*Amblygobius hectori* (Smith, 1956)

Williams, 1997, p. 2

*Amblygobius nocturnus* (Herre, 1945)

Zug *et al.*, 1988, p. 8

*Amblygobius phalaena* (Valenciennes, 1837)

Kner, 1868, p. 326 (as *Gobius semicinctus*)

*Amblygobius rainfordi* (Whitley, 1940)

Carlson, 1975, p. 67; Allen *et al.*, 2003, p. 314; Greenfield collection, 2002 (as *Koumansetta rainfordi* Whitley 1940)

\**Amblygobius* sp

McGrouter, 1997, p. 1

*Amblygobius sphynx* (Valenciennes, 1837)

Emery and Winterbottom, 1983, p. 18

*Amoya moloanus* (Herre, 1927)

McGrouter, 1997, p. 1

Also known as *Acentrogobius moloanus*.

*Amoya* sp

Williams, 1997, p. 2

*Arenigobius* sp

McGrouter, 1997, p. 2

- Asterropteryx ensiferus* (Bleeker, 1874)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Asterropteryx semipunctatus* (Rüppell, 1830)  
Whitley, 1927a, p. 7 (as *Asterropteryx semipunctatus*); Whitley, 1927b, p. 27
- \**Asterropteryx* sp.  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Asterropteryx spinosus* (Goren, 1981)  
Williams, 1997, p. 3
- Awaous guamensis* Valenciennes, 1837  
Schmeltz, 1869, p. 18 (as *Gobius crassilabris*)
- Awaous melanocephalus* (Bleeker, 1849)  
Guinea and Jaensch, 1999, p. 46, Boseto, 2005, p. 198
- Awaous ocellaris* (Broussonet, 1782)  
Schmeltz, 1865, p. 8 (as *Gobius ocellaris*)
- Bathygobius cocosensis* (Bleeker, 1854)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Bathygobius cyclopterus* (Valenciennes, 1837)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Bathygobius fuscus* (Rüppell, 1830)  
Boseto, 2005, p. 198
- Bathygobius fuscus fuscus* (Rüppell, 1828-30)  
Günther, 1877, 3, p. 25 (as *Gobius albo-punctatus*)
- Bathygobius hongkongensis* Lam, 1986  
Williams, 1997, p. 3; Boseto, 2005, p. 198
- Bathygobius laddi* (Fowler, 1931) (Type locality: Viti Levu)  
Randall, 2005, p. 521
- Bathygobius padangensis* (Bleeker, 1851)  
Royal Ontario Museum (Great Astrolabe Reef Collection); Boseto, 2005, p. 198
- Bathygobius petrophilus* (Bleeker, 1853)  
Kner, 1868, p. 321 (as *Gobius petrophilus* var. *ocellata*); See *Calliogobius ocellata* below which is a junior synonym of *Cryptocentrus koumansii*.
- Bathygobius scapulopunctatus* (de Beaufort, 1912)  
Herre, 1936, p. 369; Boseto, 2005, p. 198 (as *Palutrus scapulopunctatus*)
- \**Boleophthalmus boddaerti* (Pallas, 1853)  
Morton and Raj, 1979. Doubtful record
- Brachyamblyopus urolepis* (Bleeker, 1852)  
Kenchington, 1992, p. 21; Boseto, 2005, p. 198 (as *Caragobius urolepis*)
- Bryaninops diannaea* Larson, 1985  
Larson, 1985; Ryan, 2000, p. 149 (endemic)
- Bryaninops erythrops* (Jordan and Seale, 1906)  
Myers, 1991, p. 232.
- Bryaninops loki* Larson, 1985  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 521
- Bryaninops natans* Larson, 1985  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Bryaninops ridens* Smith, 1959  
Zug *et al.*, 1988, p. 9
- Bryaninops* sp. (all red)  
Brown, 1993, p. 41
- Bryaninops tigris* Larson, 1985  
Ryan, 2000, p. 146 (pictured but not named)
- Bryaninops yongei* (Davis & Cohen, 1969)  
Royal Ontario Museum (Great Astrolabe Reef Collection); www.larryulrich.com/uwlocationlist.html; Nimmerfroeh, 2006, p. 48
- Cabillus tongarevae* (Fowler, 1927)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Calamiana mindora* (Herre, 1945)  
Boseto, D., 2005, p. ?
- Callogobius hasseltii* (Bleeker, 1851)  
Herre, 1935, p. 415 (as *Macgregorella badia*); Randall, 2005, p. 523
- Callogobius maculipinnis* (Fowler, 1918)  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 523
- Callogobius sclateri* (Steindachner, 1880)  
McCulloch and Ogilby, 1919, p. 219
- \**Callogobius* sp.  
Royal Ontario Museum (Great Astrolabe Reef Collection); McGrouter, 1997, p. 2
- \**Callogobius* spp (3 species)  
Zug *et al.*, 1988, p. 9
- \**Callogobius* sp. 7  
Royal Ontario Museum (Great Astrolabe Reef Collection)



- Coryogalops* sp  
Williams, 1997, p. 11 (as *Monisha* sp.)
- Coryphopterus gracilis* Randall, 2001  
Randall, 2001, p. 208; Randall, 2005, p. 525
- Coryphopterus humeralis* Randall, 2001  
Randall, 2001, pp. 212-213
- Coryphopterus melacron* Randall, 2001  
Randall, 2001, pp. 218, 221; Randall, 2005, p. 525; Fishbase 2009, p. 8 (as *Fusigobius melacron*)
- Coryphopterus neophytus* (Günther, 1877)  
Boulenger, 1897. p. 373 (as *Rhinogobius neophytus*); Williams, 1997, p. 8 (as *Fusigobius neophytus*)
- Coryphopterus signipinnis* (Hoese and Obika, 1988)  
Royal Ontario Museum (Great Astrolabe Reef Collection) (as *Fusigobius signipinnis*); Earle, 2004, p. 6; Randall, 2005, p. 525
- \**Coryphopterus* sp  
Williams, 1997, p. 6
- Cristatogobius aurimaculatus* Akihito & Meguro, 2000  
Fishbase 2009, p. 6
- \**Cristatogobius* sp  
Williams, 1997, p. 6; McGrouter, 1997, p. 3
- Cryptocentrus aurocingulus* (Herre, 1935)  
Herre, 1935, p. 425 (as *Ctenogobiops aurocingulus*); Randall, 2005, p. 527; Boseto, 2005, p. 198 (as *Ctenogobiops aurocingulus*)
- Cryptocentrus koumansi* (Whitley, 1933)  
Herre, 1935, p. 422 (as *Callogobius ocellatus*); Nair, 2003, p. 52.; Nair, 2003, p. 52 (as *Ctenogobiops aurocingulus* (Herre, 1935). AKA *Aparrius aurocingulus*. See *Bathygobius petrophilus* (Bleeker, 1853) above.
- Cryptocentrus leucostictus* (Günther, 1871)  
Herre, 1936, p. 379
- Cryptocentrus russus* (Cantor, 1850)  
Herre, 1936, p. 382 (as *C. voighti*)
- \**Cryptocentrus* sp  
Williams, 1997, p. 6; McGrouter, 1997, p. 4
- Cryptocentrus strigiliceps* Jordan and Seale, 1906  
Calamia *et al.*, 2008, p. 21
- Ctenogobiops feroculus* Lubbock and Polunin, 1977  
Williams, 1997, p. 6;
- Ctenogobiops mitodes* Randall, Shao & Chen, 2007  
Randall, J. E., Kwang-Tsao Shao, K-T., and Chen, J-P., 2007. pp. 26, 29, 31; Randall, 2008, p. 286; Fishbase 2009, p. 6
- Ctenogobiops tangaroai* Lubbock and Polunin, 1977  
Randall, Shao, and Chen, 2003, p. 512; Randall, 2005, p. 529
- \**Ctenogobiops* sp.  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Discordipinna griessinger* Hoese and Fourmanoir, 1978  
Hoese and Fourmanoir, 1978, p. 23; Greenfield Collection, 2002; Randall, 2005, p. 529
- Drombus* sp  
Williams, 1997, p. 7; McGrouter, 1997, p. 4
- Euctenogobius ophthalmonemus* Bleeker, 1857  
Günther, 1877, p. 180. See *Oxyurichthys ophthalmonemus*.
- Eviota afelei* Jordan and Seale, 1906  
Herre, 1936, p. 348
- Eviota albolineata* Jewett & Lachner, 1983  
Zug *et al.*, 1988, p. 9; Royal Ontario Museum (Great Astrolabe Reef Collection)
- Eviota bimaculata* Lachner and Karnella, 1980  
Royal Ontario Museum (Great Astrolabe Reef Collection) This species may have been mistaken for *E. bifasciata* Lachner and Karnella, 1980? See *Amblygobius bimaculatus*.
- Eviota cometa* Jewett and Lachner, 1983  
Myers, 1991, p. 236; Randall, 2005, p. 530
- Eviota disrupta* Karnella and Lachner, 1981  
Zug *et al.*, 1988, p. 9
- Eviota distigma* Jordan and Seale, 1906  
Herre, 1936, p. 348
- Eviota fasciola* Karnella and Lachner, 1981  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Eviota guttata* Lachner & Karnella 1978  
Greenfield Collection, 2002; Randall, 2005, p. 531
- Eviota herrei* Jordan and Seale, 1906  
Williams, 1997, p. 7
- Eviota indica* Lachner and Karnella, 1980  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Eviota infulata* (Smith, 1956)  
Royal Ontario Museum (Great Astrolabe Reef Collection);

Greenfield Collection, 2002

*Eviota melasma* Lachner and Karnella, 1980

Lachner and Karnella, 1980, p. 27; Randall, 2005, p. 532

*Eviota nebulosa* Smith, 1958

Myers, 1991, p. 237 (Rotuma); Greenfield Collection, 2002; Randall, 2005, p. 532

*Eviota nigriventris* Giltay, 1933

Lachner and Karnella, 1980, p. 111; Randall, 2005, p. 533

*Eviota pellucida* Larson, 1976

Williams, 1997, p. 8

*Eviota prasina* (Klunzinger, 1871)

Emery and Winterbottom, 1983, p. 18

*Eviota prasites* Jordan & Seale, 1906

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Eviota pseudostigma* Lachner and Karnella, 1980

Zug *et al.*, 1988, p. 9

*Eviota punctulata* Jewett and Lachner, 1983

Myers, 1991, p. 237; Randall, 2005, p. 533

*Eviota queenslandica* Whitley, 1932

Williams, 1997, p. 8

*Eviota saipanensis* Fowler, 1945

Williams, 1997, p. 8

*Eviota sparsa* Jewett & Lachner 1983

Greenfield Collection, 2002

\**Eviota sebreei* Jordan and Seale, 1906

Probably found here. Myers (1991) say Red Sea to Samoa.

*Eviota smaragdus* Jordan and Seale, 1906

Lachner and Karnella, 1980, p. 23; Randall, 2005, p. 534

*Eviota sparsa* Jewett and Lachner, 1983

Williams, 1997, p. 8

\**Eviota* sp.

Royal Ontario Museum (Great Astrolabe Reef Collection); McGrouter, 1997, p. 4

\**Eviota* sp. B

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Eviota* sp. D

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Eviota* sp. F

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Eviota zebrina* Lachner and Karnella, 1978

Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 534

*Eviota zonura* Jordan and Seale, 1906

Herre, 1936, p. 349 (as *E. viridis*); Greenfield Collection, 2002; Randall, 2005, p. 534

*Exyrias belissimus* (Smith, 1959)

Murdy, 1985, pp. 4, 5; Randall, 2005, p. 535

*Exyrias puntang* (Bleeker, 1851 or 1852)

Fowler, 1955a, p. 397

*Favonigobius gymnauchen* (Bleeker, 1860)

Ryan, 1980, p. 66

*Favonigobius melanobranchus* (Fowler, 1934)

McGrouter, 1997, p. 4

\**Fusigobius* DFH sp. 2

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Fusigobius* DFH sp. 4

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Fusigobius* DFH sp. 8

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Fusigobius duospilus* Hoese and Reader, 1985

Hoese and Reader, 1985, p. 4

\**Fusigobius* sp.

Zug *et al.*, 1988, p. 9; McGrouter, 1997, p. 4

*Glossogobius bicirrhosus* (Weber, 1894)

Williams, 1997, p. 8, Boseto, 2005, p. 198

*Glossogobius biocellatus* (Valenciennes, 1837)

Herre, 1936, p. 360; Jenkins, 2003 (as *Psammogobius biocellatus*) see below.

*Glossogobius celebius* (Valenciennes, 1837)

Herre, 1936, p. 361

*Glossogobius giurus* (Buchanan-Hamilton, 1822)

Fowler, 1959, p. 483

\**Glossogobius* sp

Williams, 1997, p. 8

*Glossogobius* n. sp. (being described by Doug Hoese and Gerry

- Allen)  
Jenkins, 2003, Boseto, 2005, p. 198
- Gnatholepis anjerensis* (Bleeker, 1850)  
Seale, 1935, p. 371
- Gnatholepis caurensis* (Bleeker, 1853)  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall and Greenfield, 2001, pp. 6, 7 (as *G. caurensis caurensis*)
- \**Gnatholepis* sp.  
Zug *et al.*, 1988, p. 9; McGrouter, 1997, p. 5
- Gobiodon atrangulatus* Garman, 1903 Holotype from Fiji  
Masuda *et al.*, 1984, p. 265. See below. *Gobiodon erythrospilus* Bleeker, 1875.
- Gobiodon axillaris* De Vis, 1884  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 537
- Gobiodon brochus* Harold & Winterbottom, 1999 (type locality: Great Astrolabe)  
Harold & Winterbottom, 1999, p. \_; Randall, 2005, p. 537
- Gobiodon citrinus* (Rüppell, 1838)  
Boulenger, 1897, p. 373
- \**Gobiodon* DFH sp. 11  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Gobiodon erythrospilus* Bleeker, 1875  
Garman, 1903, p. 234 (as *Gobiodon atrangulatus* Garman, 1903.  
*Gobiodon histrio* (Valenciennes, 1837)  
Günther, 1873, p. 410
- Gobiodon micropus* Günther, 1861  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Gobiodon quinquestrigatus* (Valenciennes, 1837)  
Günther, 1861, 3, p. 88 (as *G. ceramensis*)
- Gobiodon rivulatus rivulatus* (Rüppell, 1830)  
Boulenger, 1897, p. 373
- \**Gobiodon* spp. A, B & C.  
Zug *et al.*, 1988, p. 9
- Gobiopsis exigua* Lachner and McKinney, 1979  
Lachner and McKinney, 1979, p. 5; Allen *et al.*, 2003, p. 323 (as *Gobiopsis exigua*) ... this name is correct; Randall, 2005, p. 538
- \**Gobiopsis* sp.  
Williams, 1997, p. 9
- Gobius atriclypeus* Garman, 1903  
Garman, 1903, p. 233
- Gobius baliuroides* Bleeker, 1849  
Schmeltz, 1869, p. 18
- Istigobius decoratus* (Herre, 1927)  
Herre, 1936, p. 365
- Istigobius goldmanni* (Bleeker, 1852)  
Murdy and Hoese, 1985, pp. 22, 23, 27; Randall, 2005, p. 539
- Istigobius nigroocellatus* Günther, 1873  
Williams, 1997, p. 10
- Istigobius ornatus* (Rüppell, 1830)  
Schmeltz, 1869, p. 18 (as *Gobius ornatus*); Allen *et al.*, 2003, p. 326; Randall, 2005, p. 539
- Istigobius rigilius* (Herre, 1953)  
Murdy and Hoese, 1985, pp. 17, 19; Randall, 2005, p. 539
- Lentipes bellameyae* n sp. (Jenkins and Boseto in prep) Endemic.  
Jenkins, 2003
- Lentipes kaaea* Watson, Keith and Marquet, 2002  
Boseto, 2005, p. 198
- Lotilia graciliosa* Klausewitz, 1960  
Randall, Allen, and Steene, 1990, p. 404; Randall, 2005, p. 539
- \**Lotilia* sp.  
Zug *et al.*, 1988, p. 9 (as *Lotelia* sp.)
- Luposicya lupus* Smith, 1959  
Royal Ontario Museum (Great Astrolabe Reef Collection); Allen *et al.*, 2003, p. 336
- Macrodontogobius wilburi* Herre, 1936  
Murdy, 1985, p. 12
- Mahidolia mystacina* (Valenciennes, 1837)  
McGrouter, 1997, p. 6
- Mugilogobius notospilus* (Gunter, 1877)  
Günther, 1877, 6, p. 173 (as *Gobius notospilus*); Boseto, 2005, p. 198
- Oligolepis* sp  
Williams, 1997, p. 12
- Oplopomus oplopomus* (Valenciennes, 1837)  
J. Seeto, *pers. comm.*; McGrouter, 1997, p. 7; Singleton, 1997, p. 34
- Oxyurichthys* sp.

J. Seeto, *pers comm.*; McGrouter, 1997, p. 7

*Oxyurichthys microlepis* (Bleeker, 1849)

J. Seeto *pers. comm.*

*Oxyurichthys ophthalmonema* Bleeker, 1856 - 57

Herre, 1927, p. 257; Boseto, 2005, p. 198

*Oxyurichthys raveni* (Nichols, 1952)

Fowler, 1959, p. 614

*Oxyurichthys tentacularis* Cuvier and Valenciennes, 1837

J Seeto, *pers. comm.*; McGrouter, 1997, p. 7; Boseto, 2005, p. 198

\**Palutrus* sp.

Lal *et al.*, 1983, p. 27 (as *Pandaka* sp.)

*Palutrus scapulopunctatus* (de Beaufort, 1912).

Fishbase 2009, p. 13

*Pandaka lidwilli* (McCulloch, 1917)

McGrouter, 1997, p. 7

\**Pandaka* sp

Williams, 1997, p. 13; McGrouter, 1997, p. 7

*Paragobiodon echinocephalus* (Rüppell, 1828)

Schmeltz, 1869, p. 18 (as *Kurtus echinocephalus*)

*Paragobiodon lacunicolus* (Kendall & Goldsborough, 1911)

Zug *et al.*, 1988, p. 9; McGrouter, 1997, p. 7

*Paragobiodon melanosomus* (Bleeker, 1852)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Paragobiodon modestus* (Regan, 1908)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Paragobiodon xanthosoma* (Bleeker, 1852)

Jordan and Dickerson, 1908, p. 617 (as *Ruppelia xanthosoma*);

Fishbase, 2009, p. 13 (as *Paragobiodon xanthosomus*)

*Periophthalmus argentilineatus* Cuvier and Valenciennes, 1837

Günther, 1861, 3, p. 98; Boseto, 2005, p. 198

*Periophthalmus barbarus* (Linnaeus, 1766)

Garman, 1903, p. 235 (as *P. schlosseri*)

*Periophthalmus chrysospilos* Bleeker, 1853

Morton and Raj, 1979. p.?

*Periophthalmus kalolo* Lesson, 1830

Williams, 1997, p. 13; Boseto, 2005, p. 198

*Periophthalmus koelreuteri* (Pallas, 1770)

Günther, 1877, 6, p. 185. This species Eggert, 1935 is the junior synonym of the one above.

*Periophthalmus vulgaris* Eggert, 1935

Lal *et al.*, 1983, p. 29

*Pleurosicya fringilla* Larson, 1990 Holotype from Fiji

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Pleurosicya micheli* Fourmanoir, 1971

Royal Ontario Museum (Great Astrolabe Reef Collection); Fishbase 2009, p. 14

*Pleurosicya mossambica* Smith, 1959

Royal Ontario Museum (Great Astrolabe Reef Collection); Allen *et al.*, 2003, p. 337

*Pleurosicya muscarum* (Jordan & Seale, 1906)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Pleurosicya* sp.

[www.larryulrich.com/uwlocationlist.html](http://www.larryulrich.com/uwlocationlist.html) (as *Pleurosigya* sp.)

*Priolepis argrena* Winterbottom & BurrIDGE 1993

Greenfield Collection, 2002

*Priolepis cincta* (Regan, 1908)

Emery and Winterbottom, 1983, p. 18; Randall, 2005, p. 548; Fishbase 2009, p. 15 (as *P. cinctus*)

*Priolepis compita* Winterbottom, 1985

Winterbottom, 1985, p.748; Randall, 2005, p.548; Greenfield Collection, 2002

*Priolepis fallacincta* Winterbottom and BurrIDGE, 1992

Williams, 1997, p. 14; Randall, 2005, p. 548

*Priolepis inhaca* (Smith, 1949)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Priolepis kappa* Winterbottom and BurrIDGE, 1993

Williams, 1997, p. 14; Randall, 2005, p. 549 (Fiji and Rotuma)

*Priolepis pallidicincta* Winterbottom and BurrIDGE, 1993

Williams, 1997, p. 14; McGrouter, 1997, p. 8; Randall, 2005, p. 549 Holotype is from Dravuni.

*Priolepis semidoliatus* (Valenciennes, 1837)

Fowler, 1931, p. 363 (as *Zonogobius semidoliatus*); Fishbase 2009, p. 15 (as *P semidoliata*)

\**Priolepis* sp. 2

Royal Ontario Museum (Great Astrolabe Reef Collection)

- \**Priolepis* sp. 4  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- \**Priolepis* sp. 7  
Royal Ontario Museum (Great Astrolabe Reef Collection); Williams, 1997, p. 15
- Priolepis triops* Winterbottom & Burrige, 1993.  
Williams, 1997, p. 15; Randall, 2005, p. 550
- Psammogobius biocellatus* (Valenciennes, 1837)  
Jenkins, 2003 (= *Glossogobius biocellatus*?); Boseto, 2005, p. 198
- Pseudogobius* j. s. u.  
McGrout, 1997, p. 8
- Ptereleotris evides* (Jordan & Hubbs, 1925)  
Carlson, 1975, p. 67 (as *Ptereleotris tricolor* Smith, 1956)
- Ptereleotris heteroptera* (Bleeker, 1855)  
Randall and Hoese, 1985, pp. 17, 18
- Ptereleotris microlepis* (Bleeker, 1856)  
Randall and Hoese, 1985, p. 26
- Quisquilius eugenius* Jordan and Evermann, 1902  
Fowler, 1934, p. 441
- Redigobius bikolanus* (Herre, 1927)  
Jenkins, 2003, Boseto, 2005, p. 198
- Redigobius leptochilus* (Bleeker, 1875)  
Jenkins, 2003
- Redigobius leverii* (Fowler, 1943) Endemic.  
Fowler, 1943, p. 2 (as *Gobius leverii*)
- Redigobius roemeri* (Weber, 1911)  
Guinea and Jaensch, 1999, p. 46, Boseto, 2005, p. 198
- \**Redigobius* sp  
Williams, 1997, p. 15
- Redigobius tambujon* (Bleeker, 1854)  
? Boseto, D. 2005, p. (Boseto *pers comm.* 2006)
- Redigobius* n. sp being described by Helen Larson. Endemic.  
Jenkins, 2003, Boseto, 2005, p. 198
- Rewa hicklingi* Whitley, 1950  
Whitley, 1950, p. 245; McGrout, 1997, p. 9 (as *Sicyopterus hicklingi* (Whitley, 1950); Boseto, 2005, p. 198 (as *Sicyopterus hicklingi*)
- Rhinogobius laddi* Fowler, 1931  
Fowler, 1931, p. 362
- Schismatogobius chrysonotus* Jenkins and Boseto, 2003. Endemic.  
Jenkins, 2003;
- \**Stigmatogobius sadanundio* (Hamilton, 1822)  
<http://fish.mongabay.com/data/Fiji.htm> (questionable)
- Schismatogobius vitiensis* Jenkins and Boseto 2005  
Jenkins and Boseto, 2005, p. 75 Endemic
- Sicydium lagocephalus* (Pallas, 1774)  
Schmeltz, 1869, p. 18 (as *S. laticeps*), Boseto, 2005, p. 198 (as *Sicyopterus lagocephalus*)
- Sicydium micrurus* (Bleeker, 1853) = *Sicyopterus micrurus*  
Fowler, 1931, p. 361
- Sicydium taeniurum* (Günther, 1877)  
Kner, 1868, p. 29 (as *Sicydium lagocephalum*, non Pallas)
- Sicyopterus* sp.  
Ryan (unpublished manuscript); Lewis and Pring, 1986, p. 4
- Sicyopterus* sp (n sp.) Boseto-author. Endemic.  
Jenkins, 2003
- Sicydiinae (new species and genus)  
<http://ias.fst.usp.ac.fj/index.php?id=4792>
- Sicyopus* (cf *Juxtastiphon*) sp  
Boseto, 2005, p. 198
- Sicyopus merielae* n. nsp Endemic.  
Jenkins, 2003
- Sicyopus zosterophorum* (Bleeker, 1856/57)  
Ryan, 1988, p. 96, Boseto, 2005, p. 198
- Signigobius biocellatus* Hoese and Allen, 1977  
Aw, 2000, p. 134
- Stenogobius genivittatus* (Valenciennes, 1837)  
Schmeltz, 1865, p. 8 (as *Gobius genivittatus*); Schmeltz, 1869, p. 18 (as *Kurtus genivittatus*)
- \**Stenogobius* sp. 1  
Boseto, 2005, p. 198
- Stigmatogobius hoevenii* (Bleeker, 1851)  
Schmeltz, 1869, p. 18 (as *Gobius petrophile* non Bleeker)
- Stigmatogobius pleurostigma* (Bleeker, 1849)  
Schmeltz, 1869, p. 18 (as *S. sadanundio*); Schmeltz, 1879, p. 46 (as *Gobius sandanundio*)

- Stigmatogobius romeri* Weber, 1908  
Weber and de Beaufort, 1953, 10, p. 113
- Stigmatogobius sadanundio* (Hamilton Buchanan, 1822)  
Singleton, 1997, p. 99 (as *Gobius sadanundio*), Boseto, 2005, p. 198
- Stiphodon elegans* (Steindachner, 1879)  
Herre, 1936, p. 387
- \**Stiphodon* sp  
Lewis and Pring, 1986, p. 4
- Stiphodon rutilaureus* Watson, 1996  
Jenkins, 2003, Boseto, 2005, p. 198
- Stiphodon semoni* Weber, 1895  
Jenkins, 2003
- Stiphodon* sp. "birdsong"  
Jenkins, 2003
- Stiphodon* sp. 1  
Boseto, 2005, p. 198
- Stiphodon* sp. 2  
Boseto, 2005, p. 198
- Stonogobiops xanthorhinica* Hoese and Randall, 1982  
Allen *et al.*, 2003, p. 310; Randall, 2005, p. 551
- Sueviota aprica* Winterbottom & Hoese 1988  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 551
- Sueviota atrinasa* Winterbottom & Hoese 1988  
Greenfield Collection, 2002
- Sueviota lachneri* Winterbottom and Hoese, 1988  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 552
- Trimma anaima* Winterbottom, 2000  
Royal Ontario Museum (Great Astrolabe Reef Collection); Allen *et al.*, 2003, p. 331
- Trimma annosum* Winterbottom, 2003  
Fishbase 2009, p. 18
- Trimma anthrena* Winterbottom, 2006  
Royal Ontario Museum (Great Astrolabe Reef Collection). Probably endemic; Fishbase 2009, p. 18 (as *T. anthrenum*)
- Trimma benjamini* Winterbottom, 1996  
Ryan, 2000, p. 148; Randall, 2005, p. 552
- Trimma caesiura* Jordan & Seale, 1906  
Zug *et al.*, 1988, p. 9
- Trimma cana* Winterbottom, 2004  
Fishbase 2009, p. 18
- \**Trimma* DFH sp. 9  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- \**Trimma* DFH sp. 17  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Trimma emeryi* Winterbottom, 1985  
Winterbottom, 1985, p. 752
- Trimma eviotops* Schultz, 1943  
Fishbase 2009, p. 18
- Trimma flavatrum* Hagiwara & Winterbottom, 2007  
Fishbase 2009, p. 18
- Trimma macrophthalma* (Tomiya, 1936)  
Emery and Winterbottom, 1983, p. 18; Allen *et al.*, 2003, p. 329; Randall, 2005, p. 553
- Trimma nasa* Winterbottom, 2005  
Fishbase 2009, p. 18
- Trimma naudie* Smith, 1956  
Emery and Winterbottom, 1983, p. 18
- Trimma okinawae* (Aoyagi, 1949)  
Royal Ontario Museum (Great Astrolabe Reef Collection); Fishbase 2009, p. 18
- Trimma preclarum* Winterbottom, 2006  
Fishbase 2009, p. 19
- \**Trimma* RW sp 18  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- \**Trimma* RW sp 25  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- \**Trimma* RW sp 27  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Trimma sostra* Winterbottom, 2004  
Fishbase 2009, p. 19
- \**Trimma* spp (two undescribed species)  
Zug *et al.* 1988, p. 9

- \**Trimma* n. sp. ms. 1994  
McGrouter, 1997, p. 10
- \**Trimma* sp. n.  
McGrouter, 1997, p. 10
- Trimma* sp. (Redheaded Dwarf goby)  
Allen *et al.*, 2003, p. 331
- Trimma taylori* Lobel, 1979  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Trimma tevegae* Cohen and Davis, 1969  
Emery and Winterbottom, 1983, p. 18
- Trimma unisquamis* (Gosline, 1959)  
Royal Ontario Museum (Great Astrolabe Reef Collection) (as *T. unisquamis*)
- Trimma xantha* (status uncertain)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Trimmatom eviotops* (Schultz, 1943)  
Zug *et al.*, 1988, p. 9 (as *Trimma eviotops* (Schultz, 1943)); Myers, 1991, p. 243
- Trimmatom nanus* Winterbottom and Emery, 1981  
Royal Ontario Museum (Great Astrolabe Reef Collection). This is the shortest fish (smallest vertebrate) in the world (Guinness Book of Record, 1998, p. 246).
- Tryssogobius nigrolineatus* Randall, 2006  
Randall 2006, p. 105; Fishbase 2009, p. 19; <http://intreasures.com/fijimf.html> (as endemic)
- Valenciennea decora* Hoese and Larson, 1994  
Hoese and Larson, 1994, pp. 18, 20, 23, plate V, B; Randall, 2005, p. 555
- Valenciennea limicola* Hoese and Larson, 1994 (type locality)  
Hoese and Larson, 1994, pp. 17, 27, 28, Plate II C; Randall, 2005, p. 556
- Valenciennea longipinnis* (Lay and Bennett, 1839)  
Kner, 1867, p. 720, pl. 3, fig 1 (as *Eleotris lineoculatus*); Randall, 2005, p. 556
- Valenciennea muralis* (Quoy and Gaimard, 1837) or Val., 1837.  
Schmeltz, 1874 p. 29 (as *Eleotris muralis*); Lieske and Myers, 1994, p. 122; Fishbase (2003). Hoese and Larson, 1994 say this species does not reach Fiji. Ryan, 1988, p. 94; Ryan, 2000, p. 149 and Myers, 1991, p. 230 list it from Fiji.
- \**Valenciennea parva* Hoese and Larson, 1994  
May be found here.
- Valenciennea puellaris* (Tomiya, 1956)  
Hoese and Larson, 1994, pp. 46, 51
- Valenciennea randalli* Hoese and Larsen, 1994  
Randall, 2005, p. 557
- Valenciennea sexguttata* (Valenciennes, 1837)  
Hoese and Larson, 1994, pp. 56, 58
- \**Valenciennea* sp.  
Zug *et al.*, 1988, p. 9
- Valenciennea strigata* (Broussonet, 1782)  
Schmeltz, 1869, p. 19 (as *Eleotris trigata*); Nimmerfroeh, 2006, p. 48
- Vanderhorstia atriclypeus* (Garman, 1903)  
Randall and Munday 2009, p. 35
- Vanderhorstia bella* Greenfield & Longenecker, 2005  
Greenfield and Longenecker, 2005, p. 619; Fishbase 2009, p. 19; <http://intreasures.com/fijimf.html> (as endemic)
- Vanderhorstia ornatissima* Smith, 1959  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Viamosa osgoodi* Herre, 1935  
Herre, 1935, p. 420
- Yongeichthys nebulosus* (Forsskål, 1775)  
Seale, 1935, p. 372 (as *Rhinogobius criniger*)
- \**Yongeichthys* sp  
McGrouter, 1997, p. 10
- Gobiidae *rubescens*  
Williams, 1997, p. 9
- Undescribed goby (new species and new genus)  
Boseto, 2005, p. 198.
- Xenisthmidae (Wrigglers)**  
*Rotuma lewisi* Springer, 1988  
Springer, 1988; Zug *et al.*, 1988, p. 9. Endemic to Rotuma.
- Tyson belos* Springer, 1983  
Springer, 1983, p. 6
- Xenisthmus clara* (Jordan and Seale, 1906)  
Zug *et al.*, 1988, p. 9; Fishbase 2009, p. 19 (as *Xenisthmus clarus*)
- Xenisthmus eiropilus* Gill & Hoese, 2004  
Fishbase 2009, p. 19
- Xenisthmus polyzonatus* (Klunzinger, 1871)

Randall, 2005, p. 561

\**Xenisthmus* sp.

Carlson, 1975, p. 68 (USP specimen #3367)

\**Xenisthmus* sp

McGrouter, 1997, p. 10

### Megalopidae (Tarpons)

*Megalops cyprinoides* (Broussonet, 1782)

Schmeltz, 1874, p. 37

### Gobioididae

*Taeniodes* sp.

Springer, 1982, p. 149

*Taenioides* sp

McGrouter, 1997, p. 9

### Rachycentridae

\**Rachycentron canadus* (Linnaeus, 1766)

Fischer and Whitehead, 1974, Vol. III; Nair, 2003 p. 57; Fishbase 2009, p. 16. A doubtful record from Fiji.

### Sciaenidae

\**Dendrophysa russelli* Cuvier, 1830

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

\**Nibeas soldado* (Lacépède, 1802)

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

\**Otolithes ruber* (Schneider, 1801)

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

\**Protonibeas diacanthus* (Lacépède, 1802)

Fischer and Whitehead, 1974, Vol. III. A doubtful record for Fiji.

### Symphysanodontidae

*Symphysanodon typus* Bleeker, 1878

Zug *et al.*, 1988, p. 15

Sometimes put in Serranidae

### Trypauchenidae

*Amblyotrypauchen arctocephalus* (Alcock, 1890)

Fowler, 1949, p. 142

*Trypauchen vagina* (Schneider, 1801)

Garman, 1903, p. 235 (as *Gobiodes tototensis*)

*Karsten tototensis* (Garman, 1903)

Murdy, 2002, p. 787 (see above)

### Callionymidae (Mandarins)

*Callionymus simplicicornis* Valenciennes, 1837

Fricke, 1983, p. 437; Nakabo, 1982, p. 81 says this should be put in a new genus *Pseudocalliurichthys*.

*Diplogrammus goramensis* (Bleeker, 1858)

Herre, 1936, p. 319 (as *Callionymus cookei*); *Diplogrammus cookei* (Günther, 1871) is valid (Nakabo, 1982, p. 80).

*Neosynchiropus ocellatus* (Pallas, 1770)

Schmeltz, 1869, p. 19 (as *Callionymus calauropomus* non Richardson); Nakabo, 1982, p. 92 (as *Neosynchiropus* sp)

*Synchiropus bartlesi* (Fricke, 1981)

Nimmerfroh, 2006, p. 47

*Synchiropus laddi* Schultz, 1960

Zug *et al.*, 1988, p. 7; Nakabo, 1982, p. 80 says this should have a new genus *Minysynchiropus*.

*Synchiropus morrisoni* Schultz, 1960

Zaiser and Fricke, 1985, p. 395; Allen *et al.*, 2003, p. 290; Randall, 2005, p. 509; Nakabo, 1982, p. 78 says this should be put in the new genus *Neosynchiropus*.

*Synchiropus ocellatus* (Pallas 1770)

Fishbase (2003)

*Synchiropus springeri* Fricke, 1983

Fricke, 1983, p. 673; Winterbottom and Emery, 1983, p. 21 (as *Synchiropus* n. sp); <http://intreasures.com/fijimf.html> (as endemic)

### Pinguipedidae (= Paraperidae; Mugiloididae)

*Paraperca australis* Randall, 2003

Randall, 2003, p. 1; Randall, 2005, p. 463

*Paraperca clathrata* Ogilby, 1910

Günther, 1876, p. 158; Carpenter and Niem, 2001, p. 3506; Earle, 2004, p. 6

*Paraperca cylindrica* (Bloch, 1792)

Schmeltz, 1869, p. 16 (as *Percis cylindrica*); Carpenter and Niem, 2001, p. 3506

*Paraperca haackei* (Steindachner, 1884)

McGrouter, 1997, p. 7

*Paraperca hexophthalma* (Ehrenberg In Cuvier and Valenciennes, 1829)

Schmeltz, 1869, p. 16; Carpenter and Niem, 2001, p. 3507. *Paraperca polyophthalma* C & V, 1829 is the female form (Randall, Allen and Steene, 1990, p. 360)

*Paraperca millepunctata* (Günther, 1860)

Schultz *et al.*, 1953 - 1966, 2, p. 267 (as *Paraperca cephalopunctata* (Seale, 1901); Carpenter and Niem, 2001, p. 3507

*Paraperca schauinslandii* (Steindachner, 1900)



Carpenter and Niem, 2001, p. 3508

*Parapercis tetracantha* (Lacépède, 1800)  
Gray, 1859, p. 21 (as *Percis cancellata*)

*Parapercis xanthozona* (Bleeker, 1849)  
Cantwell, 1964, p. 273; Carpenter and Niem, 2001, pp. 3504, 3510;  
Randall, 2005, p. 466

#### **Opistognathidae (Jawfishes, or Smilers)**

*Opistognathus* sp.  
Springer, 1982, p. 149; Allen *et al.*, 2003, p. 298

*Opistognathus* sp. (Smith-Vaniz in prep.)  
Randall, 2005, p. 345

*Opistognathus* sp. (Smith-Vaniz in prep.) (different from above)  
Randall, 2005, p. 345

#### **Owstoniidae**

*Owstonia weberi* Gilchrist, 1922  
Raj and Seeto, 1984

#### **Cepolidae**

Unidentified species  
B. Carlson, 1985, *pers. comm.*

#### **Toxotidae (Archer fishes)**

\**Toxotes jaculator* (Pallas, 1766)  
Whitley, 1927a, p. 6 A questionable record for Fiji (see: Springer,  
1982, p. 100).

#### **Trichonotidae**

\*Unidentified? Note: specimen at USP (# 3085) Marine Reference  
collection. Carlson, 1975, p. 61

*Trichonotus elegans* Shimada & Yoshino 1984  
Fishbase (2003); Randall, 2005, p. 467

*Trichonotus setiger* Bloch & Schneider, 1801  
Randall, 2005, p. 467

#### **Creediidae (Sand burrowers)**

*Chalixodytes tauensis* Schultz, 1943  
Zug *et al.*, 1988, p. 8

*Limnichthys* n. sp.  
Nelson and Randall, 1985, p. 409

*Limnichthys donaldsoni* Schultz, 1960  
Zug *et al.*, 1988, p. 8

*Limnichthys fasciatus* Waite, 1904  
Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Limnichthys* sp  
Williams, 1997, p. 11

#### **Percophidae**

*Bembrops philippinus* (Fowler, 1939)  
Raj and Seeto, 1984 (as *B. flodorsalis*, non Okada and Susuku)

**Kraemeriidae (Sand divers)** sometimes placed in the Gobiidae  
*Krameria samoensis* Steindachner, 1906  
J. Seeto, *pers. comm.*, USP specimen

*Krameria* sp.  
Zug *et al.*, 1988, p. 10

#### **Champsodontidae**

*Champsodon* sp.  
J. Seeto, *pers. comm.*, USP specimen.

#### **Uranoscopidae (Star-gazers)**

*Uranoscopus sulphureus* Valenciennes, 1831  
Steindachner, 1868, pp. 28, 319 (as *U. fuscomaculatus*); Carpenter  
and Niem, 2001, p. 3529; Randall, 2005, p. 470

*Uranoscopus* sp.  
J Seeto specimen (stargazer). Photo.

#### **Gobiesocidae (Clingfishes)**

*Conidens samoensis* (Steindachner, 1801)  
Günther, 1862, 3, p. 509 (as *Trachelochismus pinnulatus*)

*Discotrema crinophila* Briggs, 1976  
Briggs, 1976, p. 340; Allen *et al.*, 2003, p. 389; Randall, 2005, p. 506

*Discotrema* sp.  
[www.larryulrich.com/uwlocationlist.html](http://www.larryulrich.com/uwlocationlist.html)

*Discotrema zonatum* Craig & Randall, 2008  
Fishbase 2009, p. 7; <http://intreasures.com/fijimf.html> (as  
endemic)

*Lepadichthys bolini* Briggs, 1962  
Carlson, 1975, p. 10

*Lepadichthys caritus* Briggs, 1961  
Busonero, 1996, p. 46

*Lepadichthys frenatus* Waite, 1904  
Royal Ontario Museum (Great Astrolabe Reef Collection); Randall,  
2005, p. 506

*Lepadichthys lineatus* Brigg, 1966.  
Carlson, 1975, p. 10 (as *Diademichthys lineatus* (Sauvage, 1883)

\*Unidentified  
Williams, 1997, p. 8

**Tripterygiidae (Triplefins)**

*Ceratobregma helenae* Holleman, 1987

Williams, 1997, p. 4; Randall, 2005, p. 471

*Enneapterygius elegans* (Peters, 1877)

Williams, 1997, p. 7; Randall, 2005, p. 471 (Rotuma; not Fiji)

*Eneapterygius flavoccipitis* Shen, 1994

Nimmerfroh, 2006, p. 48

*Enneapterygius fuscoventer* Fricke, 1997

Nair, 2003, p. 60

*Enneapterygius hemimelas* (Kner and Steindachner, 1866)

Fowler, 1955a, p. 378

*Enneapterygius minutus* (Günther, 1877)

Fowler, 1959, p. 523

*Enneapterygius pardochir* Jordan and Seale, 1906

Herre, 1936, p. 397

*Enneapterygius philippinus* (Peters, 1869)

McGrouter, 1997, p. 4

*Enneapterygius pyramis* Fricke, 1994 Holotype Rotuma.

Williams, 1997, p. 7; Randall, 2005, p. 473

*Enneapterygius rhabdotus* Fricke, 1994

Williams, 1997, p. 7; Randall, 2005, p. 475 (Rotuma, not Fiji)

*Enneapterygius rufopileus* (Waite, 1904)

Williams, 1997, p. 7; Randall, 2005, p. 475

\**Enneapterygius* sp.

Royal Ontario Museum (Great Astrolabe Reef Collection); Zug *et al.*, 1988, p. 15 (may not be same as above); McGrouter, 1997, p. 4

*Enneapterygius triserialis* Fricke, 1994

Williams, 1997, p. 7; McGrouter, 1997, p. 4; Randall, 2005, p. 475 (Fiji, Rotuma & elsewhere)

*Enneapterygius tutuilae* Jordan and Seale, 1906

Williams, 1997, p. 7; McGrouter, 1997, p. 4

*Helcogramma capidata* Rosenblatt in Schultz, 1960

Myers, 1991, p. 204; Randall, 2005, p. 476 (as *H. capidatum*); Fishbase 2009, p. 9 (as *H. capidatum*).

*Helcogramma cerasina* Williams & Howe, 2003

Fishbase 2009, p. 9

*Helcogramma chica* Rosenblatt in Schultz, 1960

Zug *et al.*, 1988, p. 15

*Helcogramma ellioti* (Herre, 1944)

Williams, 1997, p. 10

*Helcogramma fuscopinna* Holleman, 1982

Zug *et al.*, 1988, p. 15

*Helcogramma hudsoni* (Jordan and Seale, 1906)

Zug *et al.*, 1988, p. 15; Randall, 2005, p. 476 (Fiji, Rotuma & others)

*Helcogramma rhinoceros* Hansen, 1986

Fishbase-10-June-1996

*Helcogramma striatum* Hansen, 1986

McGrouter, 1997, p. 3 (as *Ceratobregma striata*); Randall, 2005, p. 477; Fishbase 2009, p. 4 (as *Ceratobregma striata*)

\**Helcogramma* sp.

Royal Ontario Museum (Great Astrolabe Reef Collection); McGrouter, 1997, p. 5

\**Helcogramma* n. sp. ms 1994

McGrouter, 1997, p. 5.

*Norfolkia brachylepis* (Schultz, 1960)

Williams, 1997, p. 12; Randall, 2005, p. 478

*Norfolkia thomasi* Whitley, 1964

Royal Ontario Museum (Great Astrolabe Reef Collection); Randall, 2005, p. 478

*Springerichthys kulbickii* (Fricke, 1994)

McGrouter, 1997, p. 5 (as *Gracilopterygion kulbickii*); Williams, 1997, p. 9 (as *Gracilopterygion kulbickii*); Randall, 2005, p. 479

*Ucla xenogrammus* Hollermann, 1993

Nair, 2003, p. 60; Nimmerfroh, 2006, p. 48

**Blennidae (Blennies)**

*Alticus arnoldorum* (Curtiss, 1938)

Randall, 2005, p. 480 (Rotuma and elsewhere; not reported from Fiji)

*Alticus saliens* (Forster, 1788)

Boulenger, 1897, p. 373 (as *Salarias tridactylus*)

*Alticus sertatus* (Garman, 1903)

Fishbase 2009, p. 1

\**Alticus* sp.

Zug *et al.*, 1988, p. 6, 22

\**Alticus* sp. A

Zug *et al.*, 1988, p. 22

- Aspidontus dussumieri* (Valenciennes, 1836)  
Carlson, 1975, p. 61
- Aspidontus taeniatus taeniatus* Quoy and Gaimard, 1834  
Günther, 1877, 6, p. 195 (as *Petroscrites taeniatus*)
- Atrosalarias fuscus holomelas* (Günther, 1866-1872)  
Fowler, 1928, p. 435 (as *Salarias fuscus*)
- Blenniella caudolineata* (Günther, 1877)  
Boulenger, 1897, p. 373 (as *Salarias caudolineatus*)
- Blenniella chrysospilus* (Bleeker, 1857)  
Carlson, 1975, p. 63 (as *Istiblennius coronatus* (Günther, 1872); Zug et al., 1988, p. 7 (as *Istiblennius chrysospilus*)
- Blenniella cyanostigma* (Bleeker, 1849)  
Williams, 1997, p. 10 (as *Istiblennius cyanostigma*)
- Blenniella paula* (Bryan and Herre, 1903)  
Williams, 1997, p. 10; Nair, 2003, p. 49
- \**Blenniella periophthalmus* (Valenciennes, 1836)  
Kner, 1868, p. 333 (as *Salarias periophthalmus*). Randall et al, 1997 say this is closely related to *B. paula* and found only from East Africa and Red Sea to Indo-Malayan region. A doubtful species from Fiji. Nair, 2003, p. 49 lists it from here.
- \**Blennius pholis* Linnaeus, 1859  
Gray, 1859, p. 43. A misidentification. Fowler (1934 p. 445) thinks it is an unlikely name for a blenny.
- Cirripectes castaneus* (Valenciennes, 1836)  
Kner, 1868, p. 333 (as *Salarias sebae*); Earle, 2004, p. 6
- Cirripectes chelomatus* Williams and Maugé 1983  
Williams, 1988, pp. 32, 33; Lieske and Myers, 1994, p. 115; Randall, 2005, p. 485
- Cirripectes fuscoguttatus* Strasburg & Schultz, 1953  
Zug et al., 1988, p. 6
- Cirripectes perustus* Smith, 1959  
Williams, 1988, p. 54; Randall, 2005, p. 486
- Cirripectes polyzona* (Bleeker, 1868)  
Garman, 1903, p. 236 (as *Blennius canescens*); Randall, 2005, p. 486
- Cirripectes quagga* (Fowler and Ball, 1924)  
Williams, 1988, p. 59, 60
- Cirripectes stigmaticus* Strasburg and Schultz, 1953  
Carlson, 1975, p. 61
- Cirripectes variolosus* (Valenciennes, 1836)
- Zug et al., 1988, p. 7; Earle, 2004, p. 6
- Cirrisalarias bunares* Springer, 1976  
Williams, 1997, p. 6; Randall, 2005, p. 487
- Crossosalarias macrospilus* Smith-Vaniz and Springer, 1971  
Carlson, 1975, p. 62; Randall, 2005, p. 488
- Ecsenius australianus* Springer, 1988  
Carlson, 1975, p. 414 (as *Ecsenius opsifrontalis* Chapman and Schultz, 1960); Lieske and Myers, 1994, p. 116 (Rotuma) (as *Ecsenius opsifrontalis* Chapman and Schultz, 1960); Williams, 1997, p. 7 (as *Ecsenius opsifrontalis* Chapman and Schultz, 1960); Nair, 2003, p. 49 (as *E. opsifrontalis*). *E. opsifrontalis* is now restricted to Samoa and islands of Micronesia (Randall, Allen and Steene, 1990).
- Ecsenius bicolor* (Day, 1888)  
Springer, 1971, p. 25; Allen et al., 2003, p. 350; Earle, 2004, p. 6
- Ecsenius fijiensis* Springer, 1988-90 (Holotype from Astrolabe Lagoon, Kadavu)  
Zug et al., 1988, p. 22; Royal Ontario Museum (Great Astrolabe Reef Collection); Lieske and Myers, 1994, p. 116; Randall, 2005, p. 488. Endemic to Fiji and not found in Rotuma.
- Ecsenius fourmanoiri* Springer, 1972  
Lieske and Myers, 1994, p. 116; Williams, 1997, p. 7; Randall, 2005, p. 489
- Ecsenius midas* Starck, 1969  
Carlson, 1975, p. 62
- Ecsenius oculus* Springer, 1971  
Springer, 1972b, p. 4
- Ecsenius opsifrontalis* Chapman & Schultz, 1952  
Fishbase 2009, p. 7
- Ecsenius pardus* Springer, 1988 Holotype from Kadavu.  
Zug et al., 1988, p. 22 (see Springer 1988 for earlier reference for *Ecsenius*). Royal Ontario Museum (Great Astrolabe Reef Collection); Lieske and Myers, 1994, p. 116; Randall, 2005, p. 490 (endemic)
- Ecsenius portenoyi* Springer, 1988. Holotype from Rotuma.  
Zug et al., 1988, p. 7 (found in Rotuma and Samoa but not in Fiji); Lieske and Myers, 1994, p. 116 (Rotuma and Samoa); Randall, 2005, p. 490 (Rotuma, not Fiji)
- Ecsenius tigris* Springer, 1988  
Identified by the author from photo taken by Federico Busonero in Fiji for his book. See Busonero (1996). However, the picture was not used in his book.
- Enchelyurus ater* (Günther, 1877)  
Herre, 1936, p. 414; Randall, 2005, p. 490
- Enchelyurus kraussi* (Klunzinger, 1871)

- Royal Ontario Museum (Great Astrolabe Reef Collection)
- Entomacrodus caudofasciatus* (Regan, 1909)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Entomacrodus decussatus* (Bleeker, 1857)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Entomacrodus sealei* (Bryan & Herre, 1903)  
Zug *et al.*, 1988, p. 7
- Entomacrodus striatus* (Quoy and Gaimard, 1836)  
Springer, 1967, p. 73
- Entomacrodus thalassinus* (Jordan & Seale, 1906)  
Zug *et al.*, 1988, p. 7; Fishbase 2009, p. 8 (as *E. thalassinus thalassinus*)
- Exallias brevis* (Kner, 1868)  
Carlson, 1975, p. 63; Allen *et al.*, 2003, p. 354
- Glyptoparus delicatulus* Smith, 1959  
Carlson, 1975, p. 63; Allen *et al.*, 2003, p. 354; Randall, 2005, p. 494 (Rotuma; not Fiji)
- Istiblennius andamensis* (Day, 1870)  
Zug *et al.*, 1988, p. 7
- Istiblennius dussumieri* (Valenciennes, 1836)  
Schmeltz, 1869, p. 19 (as *Salarias oortii*); Allen *et al.*, 2003, p. 355; Randall, 2005, p. 495
- Istiblennius edentulus* (Bloch and Schneider, 1801)  
Schmeltz, 1869, p. 19 (as *Salarias edentulus*)
- Istiblennius gibbifrons* (Quoy and Gaimard, 1824)  
Fowler, 1931, p. 364 (as *Salarias gibbifrons*)
- Istiblennius lineatus* (Valenciennes, 1836)  
Günther, 1859-1870, 3, p. 258 (as *Salarias hasseltii*)
- Istiblennius meleagris* (Valenciennes, 1836)  
Schmeltz, 1869, p. 19 (as *Salarias meleagris*)
- Istiblennius sumatranus* (Bleeker, 1851)  
Schmeltz, 1869, p. 19
- \**Meiacanthus atrodorsalis* Günther, 1877  
Williams, 1997, p. 11; McGrouter, 1997, p. 6. May not be found here.
- Meiacanthus atrodorsalis oualauensis* (Günther, 1880)  
Günther, 1880, p. 35 (as *Petroscirtes oualensis*). Zug *et al.*, 1988, p. 22 separates the above into two species.
- Meiacanthus bundoon* Smith-Vaniz, 1976  
Carlson, 1975, p. 64 (as *Meiacanthus* sp); Lieske and Myers, 1994, p. 114; Randall, 2005, p. 496 (Fiji & Tonga). It was thought to be endemic but has since been found in the Philippines (Allen *et al.*, 2003, p. 340).
- Meiacanthus ditrema* Smith-Vaniz, 1976  
Carlson, 1975, p. 64 (as *Meiacanthus* sp.)
- Meiacanthus oualenensis* (Günther, 1880)  
www.amdareef.com/el\_blenny.htm; Earle, 2004, p. 6; Randall, 2005, p. 497 (endemic); Randall, 2005b, p. 307. This species is the same as *M atrodorsalis oualauensis* and Randall puts it up as a full species.
- Meiacanthus* sp (Green Canary)  
www.amdareef.com/el\_blenny.htm
- Nannosalarias nativitatus* (Regan, 1909)  
Zug *et al.*, 1988, p. 7
- Omobranchus elongatus* (Peters, 1855)  
Schmeltz, 1869 p. 19 (as *Petroscirtes kallosoma*); Günther, 1877, 6, p. 196 (as *Petroscirtes elongatus*)
- Omobranchus lineolatus* (Kner, 1868)  
Kner, 1868, pp. 29, 331 (questionable locality) (as *Petroscirtes lineolatus*); Günther, 1877, p. 197 (as *Petroscirtes lineolatus*)
- Omobranchus obliquus* (Garman, 1903)  
Garman, 1903, p. 237 (as *Petroscirtes obliquus*); Randall, 2005, p. 498 (was called *O rotundiceps obliquus* at one stage)
- Omobranchus punctatus* (Valenciennes, 1836)  
Kner, 1868, p. 322 (as *Petroscirtes semilineatus*) - questionable locality. McGrouter, 1997, p. 7
- Parenchelyurus hepburni* (Snyder, 1908)  
Springer, 1972a, p. 12
- Petroscirtes mitratus* Ruppell, 1828  
Williams, 1997, p. 13
- Petroscirtes pylei* Smith-Vaniz, 2005  
Smith-Vaniz, 2005, p. 29; <http://intresasures.com/fijimf.html> (as endemic)
- Petroscirtes variabilis* Cantor, 1850  
Myers, 1991, p. 216
- Petroscirtes xestus* Jordan and Seale, 1906  
Williams, 1997, p. 14
- Plagiotremus laudandus flavus* Smith-Vaniz, 1976  
Seale, 1936, p. 85 (as *Petroscirtes auratus*); Randall, 2005B, p. 307; Fishbase 2009, p. 14. This subspecies was thought to be endemic but also found in Tonga (Allen *et al.*, 2003, p. 343).

- Plagiotremus flavus* Smith-Vaniz, 1976  
Zug *et al.*, 1988, p. 22 (see listing immediately above!)
- Plagiotremus laudandus laudandus* (Whitley, 1961)  
Myers, 1991, p. 215. Some authors (e.g. Nair, 2003, Earle, 2004, p. 6) list this from Fiji as *P. laudandus* only.
- Plagiotremus rhinorhynchos* (Bleeker, 1852)  
Carlson, 1975, p. 92; Earle, 2004, p. 6
- \**Plagiotremus* sp.  
Nimmerfroh, 2006, p. 33
- Plagiotremus tapeinosoma tapeinosoma* (Bleeker, 1857)  
Carlson, 1975, p. 64; Williams, 1997, p. 3 (as *Aspidontus tapeinosoma* (Bleeker, 1857); Fishbase 2009, p. 14 (as *P. tapeinosoma*)
- Praealticus caesius* (Seale, 1906)  
Williams, 1997, p. 14; Randall, 2005, p. 501
- Praealticus margaritatus* (Kendall and Radcliffe, 1912)  
Herre, 1936, p. 410; Randall, 2005, p. 501 (Rotuma, not Fiji)
- \**Praealticus* sp.  
Royal Ontario Museum (Great Astrolabe Reef Collection). Zug *et al.*, 1988, p. 7 (may be a separate species from ROM)
- Rhabdoblennius nigropunctatus* Bath, 2004  
Fishbase 2009, p. 16
- \**Rhabdoblennius* sp.  
Williams, 1997, p. 15
- Salarias alboguttatus* Kner, 1867  
Kner, 1868, p. 334; Randall, 2005, p. 503
- Salarias dussumieri* (Valenciennes, 1836)  
Fowler, 1928 (p. 440) (as *Salarias geminatus* Alleyne and Macleay, 1877)
- Salarias fasciatus* (Bloch, 1786)  
Günther, 1877, p. 201; Kner, 1868, p. 322 (as *Salarias semilineatus*); Nimmerfroh, 2006, p. 33
- Salarias guttatus* Valenciennes, 1836  
Carlson, 1975, p. 64
- Salarias cf. luctuosus* Whitney, 1929  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Salarias marmoratus* (Bennett, 1828)  
Boulenger, 1897, p. 373. A Hawaiian endemic species erroneously listed from Fiji.
- Salarias sinuosus* Snyder, 1908  
Fowler, 1955a, p. 379
- \**Salarias* sp. A  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Stanulus seychellensis* Smith, 1969  
Zug *et al.*, 1988, p. 7
- Xiphasia matsubarai* Okada and Suzuki, 1952  
Randall, 2005, p. 505
- Xiphasia setifer* Swainson, 1839  
Blaber *et al.*, 1993b, p. 105; Milton, Rawlinson, and Sesewa, 1993, p. 94
- Microdesmidae (Wormfishes)**
- Gunnellichthys curiosus* Dawson, 1968  
Carlson, 1975, p. 68
- Gunnellichthys monostigma* Smith, 1958  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Gunnellichthys pleurotaenia* Bleeker, 1858  
Dawson, 1973, p. 318
- \**Gunnellichthys* sp.  
McGrouter, 1997, p. 5
- Gunnellichthys viridescens* Dawson, 1968  
Williams, 1997, p. 9
- Ptereleotridae (Dartfishes)**
- Nemateleotris decora* Randall and Allen, 1973  
Nimmerfroh, 2006, p. 47
- Nemateleotris magnifica* Fowler, 1938  
Royal Ontario Museum (Great Astrolabe Reef Collection); [www.larryulrich.com/uwlocationlist.html](http://www.larryulrich.com/uwlocationlist.html); Nair, 2003, p. 55; Earle, 2004, p. 6; Nimmerfroh, 2006, p. 47
- Parioglossus formosus* (Smith, 1931)  
Rennis and Hoese, 1985, p. 177; Randall, 2005, p. 565
- Parioglossus nudus* Rennis and Hoese, 1985  
Rennis and Hoese, 1985, p. 185; Randall, 2005, p. 565
- Parioglossus raoi* (Herre, 1939)  
Rennis and Hoese, 1985, p. 185; Randall, 2005, p. 565
- Parioglossus taeniatus* Regan, 1912  
Rennis and Hoese, 1985, p. 187; Randall, 2005, p. 565
- Parioglossus triquetrus* Rennis and Hoese, 1985  
Rennis and Hoese, 1985, p. 188 (endemic)
- Ptereleotris evides* (Jordan and Hubbs, 1925)

Randall and Hoese, 1985, p. 12; Earle, 2004, p. 6

*Ptereleotris heteroptera* (Bleeker, 1855)

Randall and Hoese, 1985, p. 17

*Ptereleotris microlepis* (Bleeker, 1856)

Randall and Hoese, 1985, pp. 23, 24

#### **Carapidae (Pearlfishes)**

*Carapus homei* (Richardson, 1846)

Günther, 1862, 4, p. 382 (as *Fierasfer homei*)

*Carapus mourlani* (Petit, 1934)

Carlson, 1975, p. 86

*Carapus parvibrachium* Fowler, 1927

Fowler, 1927, p. 31. Also known as *Onuxodon parvibranchium*

*Carapus parvipinnis* (Kaup, 1856)

Boulenger, 1897, p. 374

*Jordanicus gracilis* (Bleeker, 1856)

Boulenger, 1897, p. 374 (as *Fierasfer gracilis*)

*Onuxodon* sp.

Carlson, 1975, p. 9

#### **Ophidiidae (Brotulas)**

*Brotula flaviviridis* Greenfield, 2005

<http://intreasures.com/fijimf.html> (endemic)

*Brotula multibarbata* Temminck and Schlegel, 1846

Fowler, 1929, p. 13 (as *B. mulleri*)

*Brotula townsendi* Fowler, 1900

Zug *et al.*, 1988, p. 12

#### **Bythitidae (Cuskeels)**

\**Brosmophycis* sp. Check USP #507, #2206, #3048

Carlson, 1975, p. 10

*Brosmophycis pautzkei* Schultz, 1960

Carlson, 1975, p. 10. *Brosmophyciops* is the other genus.

*Dermatopsis greenfieldi* Møller & Schwarzhans, 2006

Fishbase 2009, p. 7 endemic

*Dermatopsis macrodon* Ogilby, 1896

McGrouter, 1997, p. 4

*Diancistrus beateae* Schwarzhans, Møller & Nielsen, 2005

Fishbase 2009, p. 7

*Diancistrus eremitus* Schwarzhans, Møller & Nielsen, 2005

Fishbase 2009, p. 7

*Diancistrus fijiensis* Schwarzhans, Møller & Nielsen, 2005

Fishbase 2009, p. 7; <http://intreasures.com/fijimf.html> (as endemic)

*Diancistrus robustus* Schwarzhans, Møller & Nielsen, 2005

Fishbase 2009, p. 7; <http://intreasures.com/fijimf.html> (as endemic)

*Diancistrus tongaensis* Schwarzhans, Møller & Nielsen, 2005

Fishbase 2009, p. 7

*Dinematichthys iluocoeteoides* Bleeker, 1855

Carlson, 1975, p. 10

*Dinematichthys riukuensis* Aoyagi 1954

Fishbase, 2002, p. 2

\**Dinematichthys* sp.

Zug *et al.*, 1988, p. 7; McGrouter, 1997, p. 4

*Microbrotula greenfieldi* Anderson, 2007.

Fishbase 2009. p. 12; <http://intreasures.com/fijimf.html> (as endemic)

*Neobythites fijiensis* Nielsen, 2002.

Nair, 2003, p. 64; Fishbase 2009, p. 13

*Neobythites longiceps* Smith and Radcliffe, 1913

Raj and Seeto, 1984

*Neobythites macrops* Günther, 1887

Günther, 1887, p. 102

*Neobythites musorstomi* Nielsen, 2002.

Nair, 2003, p. 64; Fishbase 2009, p. 13

*Neobythites sereti* Nielsen, 2002.

Nair, 2003, p. 64; Fishbase 2009, p. 13

#### **Mastacembelidae**

*Mastacembelus armatus* (Lacépède, 1800)

Gray, 1859, p. 33 (introduced)

#### **Lophiidae (Monkfish)**

*Lophiodes naresi* (Gunther, 1880)

Carpenter, K. E. and Niem, V. H. 1999a, p. 2010

*Lophiomus setigerus* (Vahl, 1797)

Carpenter, K. E. and Niem, V. H. 1999a, p. 2011

#### **Antennariidae (Frogfishes)**

*Antennarius analis* Gosline, 1957

Pietsch and Grobecker, 1987, pp. 163, 165, 291; Randall, 2005, p. 69

*Antennarius coccineus* (Lesson, 1831)

Boulenger, 1897, p. 373 (as *Antennarius nummifer* non Cuvier);

Nimmerfroh, 2006, pp. 105, 106

*Antennarius commersoni* (Latrèille, 1804)

Pietsch and Grobecker, 1987, pp. 95, 97, 287; Randall, 2005, p. 70

*Antennarius dorehensis* Bleeker, 1859

Schultz, 1957, p. 99 (as *Antennarius altipinnis* Smith and Radcliffe, 1912)

*Antennarius hispidus* (Bloch and Schneider, 1801)

Schmeltz, 1869, p. 19; Allen *et al.*, 2003, p. 365; Randall, 2005, p. 71

*Antennarius nummifer* (Cuvier, 1817)

Schmeltz, 1869, p. 19 (as *A. coccineus*); Nimmerfroh, 2006, p. 102

\**Antennarius pictus* (Shaw and Nodder, 1794)

J. Seeto *pers. comm.*

*Antennarius randalli* Allen, 1970

Pietsch and Grobecker, 1987, pp. 178, 180, 291; Randall, 2005, p. 72

*Antennarius* sp

McGrouter, 1997, p. 1; [www.amdareef.com/el\\_angler.htm](http://www.amdareef.com/el_angler.htm)

*Antennarius striatus* (Shaw and Nodder, 1794)

Pietsch and Grobecker, 1987, pp. 65, 69, 286 (photograph supplied by J. Seeto)

*Golem cooperae* Strasburg, 1966

Strasburg, 1966, p. 475. Pietsch and Grobecker (1987) calls this a *nomen dubium* (p. 265) and say that it is a synonym of one of the *Antennarius striatus* Group.

*Histrio histrio* (Linnaeus, 1758)

Schmeltz, 1869, p. 19 (as *Antennarius marmoratus* non Shaw & Nodder)

#### Chaunacidae

*Chaunax pictus* Lowe, 1846

Günther, 1887, p. 58

#### Ogocephalidae

*Halieutopsis* sp.

J. Seeto (deepsea trap) 1986.

*Halieutaea stellata* Valenciennes, 1797

Fiji Fish (Randy Thaman specimen) – early Feb 2008)

#### Acanthuridae (Surgeonfishes and Unicornfishes)

*Acanthurus albipectoralis* Allen and Ayling, 1987

Sighted by Nick Dulvy, 1999, in Southern Lau.

*Acanthurus achilles* Shaw, 1803

Nair, 2003, p. 47; Brown, 2006, p. 48

*Acanthurus auranticavus* Randall, 1956

Specimen (Samisoni Sauni specimen; 17/9/99)

*Acanthurus bariene* Lesson, 1831

Reported by Randy Thaman with photo (May 2007).

*Acanthurus blochii* Valenciennes, 1835

Nair, 2003, p. 47; Earle, 2004, p. 6

*Acanthurus dussumieri* (Valenciennes, 1835)

UVC, 1995, Appendices 5.1 and 5.3

*Acanthurus fuliginosus* Lesson

Fowler, 1940 (p. 781) (as *Teuthis fuliginosus*)

\**Acanthurus gahhm* (Forsskål, 1775)

Günther, 1880, p. 35. This is a Red Sea species erroneously listed for tropical Pacific localities. Pacific records may refer to *Acanthurus nigricauda*.

\**Acanthurus glaucopareus* Cuvier, 1828

James Teri, *pers. comm.* 2004. *This is probably A. nigricans.*

*Acanthurus grammoptilus* Richardson, 1843

Williams, 1997, p. 1

*Acanthurus guttatus* Forster in Bloch and Schneider, 1801

Schmeltz, 1869, p. 30, Fishbase 2009, p. 1

*Acanthurus lineatus* (Linnaeus, 1758)

Boulenger, 1897, p. 372; Carpenter and Niem, 2001 (vol. 6) p. 3668; Earle, 2004, p. 6

*Acanthurus mata* (Cuvier, 1829)

Fowler, 1931, p. 345 (as *A. leucopareus*); Carpenter and Niem, 2001 (vol. 6) p. 3669; Earle, 2004, p. 6

*Acanthurus nigricans* (Linnaeus, 1758)

Schmeltz, 1869, p. 20 (as *Acanthurus glaucopareus*); Earle, 2004, p. 6

*Acanthurus nigricauda* Duncker and Mohr, 1929

Günther, 1880, p. 35 (as *A. gahhm* non Forsskål); Carpenter and Niem, 2001 (vol. 6) p. 3670; Earle, 2004, p. 6

*Acanthurus nigrofuscus* (Forsskål, 1775)

Boulenger, 1897, p. 372 (as *A. nigros*); Whitley, 1927a, p. 6 (as *Teuthis elongatus*); Carpenter and Niem, 2001 (vol. 6) p. 3671; Earle, 2004, p. 6

*Acanthurus nigroris* Valenciennes, 1835

Günther, 1861, 3, p. 331 (as *A. bipunctatus*); Earle, 2004, p. 6 (as *A. nigrorus*)

*Acanthurus olivaceus* Forster in Bloch and Schneider, 1801

Schmeltz, 1869, p. 20; Carpenter and Niem, 2001 (vol. 6) p. 3671

*Acanthurus pyroferus* Kittlitz, 1834

Burgess and Axelrod, 1975, p. 1608; Carlson, 1975, p. 69; Carpenter and Niem, 2001 (vol. 6) p. 3673; Earle, 2004, p. 6

*Acanthurus thompsoni* (Fowler, 1923)  
Carlson, 1975, p. 69; Earle, 2004, p. 6

*Acanthurus triostegus triostegus* (Linnaeus, 1758)  
Schmeltz, 1869, p. 20 (as *A. triostegus*); Carpenter and Niem, 2001 (vol. 6) p. 3674

*Acanthurus xanthopterus* Valenciennes, 1835  
Günther, 1861, 3, p. 330 (as *A. matoides*); Carpenter and Niem, 2001 (vol. 6) p. 3675; Earle, 2004, p. 6

*Ctenochaetus binotatus* Randall, 1955  
Carlson, 1975, p. 70; Earle, 2004, p. 6

*Ctenochaetus cyanocheilus* Randall and Clements, 2001  
Randall and Clements, 2001, p. 15; Earle, 2004, p. 6

*Ctenochaetus striatus* (Quoy and Gaimard, 1825)  
Carlson, 1975, p. 70; Carpenter and Niem, 2001 (vol. 6) p. 3676

\**Ctenochaetus strigosus* (Bennett, 1828)  
Emery and Winterbottom, 1983, pp. 12, 13, 14, 16  
Randall and Clements, 2001, p. 15 says this is only found in Hawaii.  
Randall, 2005, p. 584 says *C. strigosus* is divided into 4 different species now.

*Ctenochaetus tominiensis* Randall, 1955  
Lewis (n.d.) Fisheries photo; Williams, 1997, p. 6; Randall, 2005, p. 587

*Naso annulatus* (Quoy and Gaimard, 1825)  
Schmeltz, 1869, p. 20 (as *Naseus annulatus*); Günther, 1880, 1, p. 35 (as *Naseus marginatus*)

*Naso brachycentron* (Valenciennes, 1835)  
Brown, 2006, p. 48; Fishbase 2009, p. 12

*Naso brevirostris* (Cuvier, 1829)  
Carlson, 1975, p. 70; Carpenter and Niem, 2001 (vol. 6) p. 3677; Earle, 2004, p. 6

*Naso caesius* Randall and Bell, 1992  
Sighted by Nick Dulvy, 1999, in Southern Lau; Randall, 2005, p. 592

\**Naso cinereus*  
Anon., 1985 (poster) – name not valid.

*Naso hexacanthus* (Bleeker, 1855)  
Royal Ontario Museum (Great Astrolabe Reef Collection); Brown, 1993, p. 76; Carpenter and Niem, 2001 (vol. 6) p. 3678; Earle, 2004, p. 6

*Naso lituratus* (Bloch and Schneider, 1801)  
Boulenger, 1897, p. 373 (as *Naseus lituratus*); Carpenter and Niem,

2001 (vol. 6) p. 3679; Earle, 2004, p. 6

*Naso lopezi* Herre, 1927  
Sighted by Nick Dulvy, 1999, in Southern Lau.

\**Naso rigoletto* Smith, 1951  
Salvat *et al.*, 1976, p. 20. An Indian Ocean species but now put in the synonymy of *Naso brachycentron*.

*Naso tonganus* (Valenciennes, 1835)  
J Seeto *pers. comm.* (as *Naso tuberosus* Lacepede, 1801-1802); Royal Ontario Museum (Great Astrolabe Reef Collection) (as *Naso tuberosus*); Fishbase 2009, p. 12

*Naso unicornis* (Forsskål, 1775)  
Boulenger, 1897, p. 373 (as *Naseus unicornis*); Carpenter and Niem, 2001 (vol. 6) p. 3680; Earle, 2004, p. 6

*Naso vlamingii* (Valenciennes, 1835)  
Carlson, 1975, p. 70; Earle, 2004, p. 6

*Paracanthurus hepatus* (Linnaeus, 1766)  
Carlson, 1975, p. 70; Carpenter and Niem, 2001 (vol. 6) p. 3681; Nimmerfroh, 2006, p. 40

\**Zebrasoma flavescens* (Bennett, 1828)  
Günther, 1880, p. 35 (as *Acanthurus rhombeum*). This is not found in Fiji but found from Hawaii to Ryukyu.

*Zebrasoma scopas* (Cuvier, 1829)  
Günther, 1880, p. 35 (as *Acanthurus rhombeus*); Earle, 2004, p. 6

*Zebrasoma veliferum* (Bloch, 1797)  
Schmeltz, 1869, p. 30 (as *Acanthurus velifer*); Carpenter and Niem, 2001 (vol. 6) p. 3683; Earle, 2004, p. 7

#### Siganidae (Rabbitfishes)

*Siganus argenteus* (Quoy and Gaimard, 1825)  
Kner, 1868, p. 53 (as *Teuthis oligostictus*); Sauvage, 1882, p. (as *Siganus vitianus*); Carpenter and Niem, 2001 (vol. 6) p. 3632.  
*Siganus rostratus* is a commonly used name for this species.

*Siganus canaliculatus* (Mungo Park, 1797)  
Van Pel, 1961 (introduced)

*Siganus chrysopilos* (Bleeker, 1852)  
Carlson, 1975, p. 71

*Siganus corallinus* (Valenciennes, 1835)  
Williams, 1997, p. 16

*Siganus doliatus* (Cuvier, 1830)  
Schmeltz, 1869, p. 20 (as *Teuthis doliata*); Carpenter and Niem, 2001 (vol. 6) p. 3635; Earle, 2004, p. 6; Randall, 2005, p. 600

*Siganus fuscescens* (Houttuyn, 1782)  
Pöhl, 1884, p. 30 (as *Teuthis albopunctata*)



*Siganus guttatus* (Bloch, 1782)

Pöhl, 1884, p. 30 (as *S. concatenata*)

\**Siganus lineatus* (Valenciennes, 1835)

Greenberg, 1985, p. 1. Found from the Western Pacific to India but not found in Fiji.

*Siganus (Lo) niger* Woodland, 1990

Woodland, 1990, p. 117 who, thinks that 'this species may also reach Fiji occasionally'. Found so far in Tonga only (Randall, 2005, p. 601)

*Siganus punctatissimus* Fowler and Bean, 1929

Nair, 2003, p. 59; Fishbase 2009, p. 17

*Siganus punctatus* (Bloch and Schneider, 1801)

Günther, 1861, p. 320 (as *Teuthis hexagonata*); Carpenter and Niem, 2001 (vol. 6) p. 3642; Earle, 2004, p. 6

*Siganus randalli* Woodland, 1990

Blaber *et al.*, 1993b, p. 110

*Siganus rostratus* (Valenciennes in Cuvier and Valenciennes, 1835).

James Teri, 2004, pers comm.

*Siganus spinus* (Linnaeus, 1758)

Schmeltz, 1869, p. 20 (as *Teuthis striolata*); Carpenter and Niem, 2001 (vol. 6) p. 3645

*Siganus stellatus* (Forsskål, 1775)

Jones and Kumaran, 1980, p. 545

*Siganus (Lo) uspi* Gawel and Woodland, 1974

Gawel and Woodland, 1974, p. 859; Carpenter and Niem, 2001 (vol. 6) p. 3650. Possibly endemic except for a sighting in New Caledonia but Debelius and Baensch (1994) say it is found in the Central Pacific. Allen *et al.*, 2003, say known only from Fiji and New Caledonia; Earle, 2004, p. 6; Randall, 2005, p. 602

*Siganus vermiculatus* (Valenciennes, 1835)

Schmeltz, 1869, p. 300 (as *Teuthis vermiculata*); Carpenter and Niem, 2001 (vol. 6) p. 3646; Allen *et al.*, 2003, p. 58; Randall, 2005, p. 603

*Siganus virgatus* (Valenciennes, 1835)

Blaber *et al.*, 1993b, p. 110

*Siganus vulpinus* (Schlegel and Müller, 1845)

UVC, 1995, Appendix 5.3; Greenberg, 1985, p. 1

*Siganus woodlandi* Randall & Kulbicki, 2005

Randall & Kulbicki, 2005, p. 189; Fishbase 2009, p. 17

#### **Harpadontidae (Synodontidae) (Lizardfish)**

*Saurida gracilis* (Quoy and Gaimard, 1824)

Günther, 1873 - 1910, 8, p. 376; Nimmerfroh, 2006, p. 35

*Saurida nebulosus* Valenciennes in Cuvier and Valenciennes, 1849

Ryan, 2000, p. 140 (un-named but a picture of the fish is shown)

*Saurida tumbil* (Bloch, 1795)

Fischer and Whitehead, 1974, Vol. IV; Carpenter, K. E. and Niem, V. H. 1999a, p. 1940;

*Saurida undosquamis* (Richardson, 1848)

Fischer and Whitehead, 1974, Vol. IV; Randall, 2005, p. 63. Deepsea fish specimen (Randy Thaman) Fiji Fish. Early Feb 2008.

*Synodus binotatus* Schlutz, 1953

Carlson, 1975, p. 8

*Synodus dermatogenys* Fowler, 1912

Royal Ontario Museum (Great Astrolabe Reef Collection); Carpenter, K. E. and Niem, V. H. 1999a, p. 1941

*Synodus jaculum* Russell and Cressey, 1979

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Synodus pyleri* Randall, 2009

Randall, 2009, pp. 402, 403, 412, 413,

*Synodus rubromarmoratus* Russell and Cressey, 1979

Randall, 2005, p. 64

*Synodus variegatus* (Lacépède, 1803)

Günther, 1873 - 1910, 8, p. 375 (as *Saurus varius*); Schmeltz, 1879, p. 57 (as *Saurus varius*); Fowler, 1940 (p. 755) (as *Synodus japonicus* Houttuyn, 1782); Carlson, 1975, p. 9 (as *Synodus englemani* Schultz, 1953); Nimmerfroh, 2006, p. 35

*Trachinocephalus myops* (Forster in Bloch and Schneider, 1801)

Günther, 1873 - 1910, 8, p. 375

#### **Diodontidae (Porcupinefishes)**

*Chilomycterus orbicularis* (Bloch, 1785)

Thurston, 1881, p. 22. An unsubstantiated record for Fiji.; Carpenter and Niem, 2001, (vol. 6), p. 3962 (?); A Balawa and family ate one of these on 25<sup>th</sup> April, 2009 at Muanivuso Village, near Suva.

*Diodon holocanthus* Linnaeus, 1758

Fowler, 1959, p. 620

*Diodon hystrix* Linnaeus, 1758

Schmeltz, 1869, p. 27 (as *Diodon (Paradiodon) hystrix*); Carpenter and Niem, 2001, (vol. 6), p. 3964

*Diodon liturosus* Shaw, 1804

Sighted by Nick Dulvy, 1999, in Southern Lau.; Ryan, 2000, p. 151; Carpenter and Niem, 2001, (vol. 6), p. 3964; Boseto, 2005, p. 198

#### **Monacanthidae (Filefishes)**

*Acreichthys tomentosus* (Linnaeus, 1758)

Schmeltz, 1869, p. 28 (as *Monacanthus tomentosus*); Carpenter and Niem, 2001, (vol. 6), p. 3936; Allen *et al.*, 2003, p. 414; Randall, 2005, p. 632

*Aluterus monoceros* (Linnaeus, 1758)

Lewis (n.d.) Fisheries photo; Carpenter and Niem, 2001, (vol. 6), p. 3936

*Aluterus scriptus* (Osbeck, 1757-1765)

Garman, 1903, p. 240 (as *A. armata*); Carpenter and Niem, 2001, (vol. 6), p. 3936; Earle, 2004, p. 7; Nimmerfroeh, 2006, p. 241 (as *Alutera Scriptus*)

*Amanses scopas* (Cuvier, 1829)

Boulenger, 1897, p. 374 (as *Monacanthus scopas*); Carpenter and Niem, 2001, (vol. 6), p. 3937

*Cantherines dumerilii* (Hollard, 1854)

Seale, 1935, p. 376 (as *C. howensis*); Carpenter and Niem, 2001, (vol. 6), p. 3938; Earle, 2004, p. 7

*Cantherines pardalis* (Rüppell, 1835-1837)

Schmeltz, 1879, p. 62 (as *Monacanthus pardalis* var. *rüppellii*); Carpenter and Niem, 2001, (vol. 6), p. 3939

*Oxymonacanthus longirostris* (Bloch and Schneider, 1801)

Günther, 1870, 8, p. 233 (as *Monacanthus longirostris*); Carpenter and Niem, 2001, (vol. 6), p. 3941; Nimmerfroeh, 2006, p. 32

*Paraluteres prionurus* (Bleeker, 1851)

Carlson, 1975, p. 75; Randall, 2005, p. 635

*Paramonacanthus choirocephalus* (Bleeker, 1852)

Nimmerfroeh, 2006, p. 32

*Paramonacanthus curtiorhynchus* (Bleeker, 1855)

McGrouter, 1997, p. 6 (as *Monacanthus japonicus* Tilesius, 1801); Nair, 2003, p. 55 (as *Monacanthus japonicus* Tilesius, 1801); Randall, 2005, p. 636

*Paramonacanthus japonicus* (Tilesius, 1809)

Fishbase 2009, p. 13

*Pervagor janthinosoma* (Bleeker, 1854)

Hutchins, 1986, p. 22; Randall, 2005, p. 637

*Pervagor melanocephalus* (Bleeker, 1853)

Boulenger, 1897, p. 374 (as *Monacanthus melanocephalus*); Carpenter and Niem, 2001, (vol. 6), p. 3944; Allen *et al.*, 2003, p. 412; Randall, 2005, p. 637

*Pseudoaluterus nasicornis* (Temminck and Schlegel, 1850)

USP Fish Collection specimen #4371

*Thamnaconus fijiensis* Hutchins and Matsuura, 1984

Hutchins and Matsuura, 1984, p. 387

Unidentified filefish at Fisheries. Exploratory trawl fishing in Lau Basin. Dec 1997. Identification remains to be confirmed following consultation with Dr Barry Hutchins.

**Ostraciidae (Cowfishes)**

*Lactoria cornuta* (Linnaeus, 1758)

Günther, 1870, 8, p. 265 (as *Ostracion cornutus*); Carpenter and Niem, 2001, (vol. 6), p. 3950

*Lactoria diaphana* (Bloch and Schneider, 1801)

Carpenter and Niem, 2001, (vol. 6), p. 3950

*Ostracion cubicus* Linnaeus, 1758

Günther, 1880, p. 36; Lewis (n.d.). Fisheries photo (as *Ostracion tuberculatus*); McGrouter, 1997, p. 7 (as *O. lentiginosum*); Carpenter and Niem, 2001, (vol. 6), p. 3950; Earle, 2004, p. 7

*Ostracion meleagris meleagris* Shaw, 1796

Schmeltz, 1867, p. 27; Earle, 2004, p. 7

*Ostracion solorensis* Bleeker, 1853

Randall, 2005, p. 641 (rare); Nimmerfroeh, 2006, p. 66

*Rhynchostracion nasus* (Bloch, 1785)

Kendall and Goldsborough, 1911, p. 334 (as *Ostracion nasus*)

*Tetrosomus gibbosus* (Linnaeus, 1758)

UVC, 1995, Appendix 5.3.

**Tricanthodidae**

*Paratriacanthodes retrospinis* Fowler, 1934

Raj and Seeto, 1984 (as *Paratriacanthodes* n sp.). Extensive correspondence with J C Tyler has finally resolved that this is not new.

**Triodontidae (Three-toothed puffer)**

*Triodon macropterus* Lesson, 1829

Carlson, 1975, p. 93 (as *T. bursarius*)

**Tetraodontidae (Pufferfishes)**

*Amblyrhynchotes cutaneous* (Günther, 1871)

Raj and Seeto, 1984

*Arothron hispidus* (Linnaeus, 1758)

Jordan and Dickerson, 1908, p. 616 (as *Tetrodon hispidus*)

\**Arothron immaculatus* (Bloch and Schneider, 1801)

Jordan and Seale, 1906, p. 370; Williams, 1997, p. 3; Boseto, 2005, p. 199. According to Randall (1985) *A. immaculatus* is not found in Fiji. Pacific records of this species probably refer to *A. manilensis*.

*Arothron manilensis* (De Procé, 1822)

Schmeltz, 1874, p. 40 (as *Arothron immaculatus* non Schneider); Randall, 2005, p. 645

*Arothron mappa* (Lesson, 1826-27)

Lewis (n.d.) Fisheries photo; www.fiji.pictures-pacific.com; Earle, 2004, p. 7; Nimmerfroh, 2006, p. 58

*Arothron meleagris* (Lacepède, 1798)

Williams, 1997, p. 3

*Arothron nigropunctatus* (Bloch and Schneider, 1801)

Günther, 1870, p. 293 (as *Tetrodon nigropunctatus* var. *citrinella*); Earle, 2004, p. 7; Nimmerfroh, 2006, pp. 56, 60, 61

*Arothron reticularis* (Bloch and Schneider, 1785)

Fowler, 1934, p. 449; Allen *et al.*, 2003, p. 414; Boseto, 2005, p. 199

*Arothron stellatus* (Bloch and Schneider, 1801)

Günther, 1870, 8, p. 294 (as *Tetrodon stellatus*)

*Canthigaster amboinensis* (Bleeker, 1865)

Fowler, 1928, p. 465

*Canthigaster bennetti* (Bleeker, 1854)

Schmeltz, 1879, p. 63 (as *Tetraodon bennetti*)

*Canthigaster compressa* (Procé, 1822)

Fowler, 1928, p. 466. (as *S. striolatus*). May be a doubtful Fijian record (see: Allen and Randall, 1977, p. 484) but Myers, 1991, p. 267 says 'possibly to Fiji'.

*Canthigaster coronata* (Valliant and Sauvage, 1875)

Sighted by Nick Dulvy, 1999, in Southern Lau.

*Canthigaster epilampra* (Jenkins, 1903)

James Teri, pers comm, 2004

*Canthigaster janthinoptera* (Bleeker, 1855)

Carlson, 1975, p. 78

*Canthigaster leoparda* Lubbock and Allen, 1979

Williams, 1997, p. 4

\**Canthigaster margaritata* (Rüppell, 1828)

Schmeltz, 1869, p. 27 (as *Canthogaster margaritatus* var. *striolatus*); Schmeltz, 1879, p. 63 (as *Tetrodon papua* var. *striolata*); Fowler, 1928, p. 466. A Red Sea species according to Allen and Randall, (1977). Pacific records may refer to *C. solandri*. Myers, 1991 (p. 268) says this is a Red Sea species.

*Canthigaster ocellinicta* Allen and Randall, 1977

Allen and Randall, 1977, p. 485; Randall, 2005, p. 650

*Canthigaster solandri* (Richardson, 1844)

Schmeltz, 1874, p. 40 (as *Tetrodon (Anosmius) papua* var. *striolatus*); Boulenger, 1897, p. 374 (as *Tetraodon papua*)

*Canthigaster valentini* (Bleeker, 1853)

Boulenger, 1897, p. 374 (as *Tetrodon valentini*)

*Lagocephalus lagocephalus* (Linnaeus, 1758)

Borodin, 1932, p. 98 (as *Tetrodon inermis*)

*Lagocephalus lunaris* (Bloch and Schneider, 1801)

Seale, 1935, p. 377; Boseto, 2005, p. 199

*Lagocephalus sceleratus* (Forster, 1788-89)

Borodin, 1932, p. 99; Randall, 2005, p. 647

*Lagocephalus spadiceus* (Richardson, 1845)

Blaber *et al.*, 1993b, p. 110; Milton, Rawlinson and Sesewa, 1993, p.96

*Torquigener hypselogeneion* (Bleeker, 1852)

Günther, 1870, 8, p. 277 (as *Tetrodon hypselogenion*)

### Zanclidae (Moorish Idol)

*Zanclus cornutus* (Linnaeus, 1758)

Schmeltz, 1869, p. 18; Carpenter and Niem, 2001 (vol. 6) p. 3653; Earle, 2004, p. 6. *Zanclus canescens* is a synonym.

### V. EELS

#### Anguillidae (Freshwater Eels)

*Anguilla australis schmidtii* Phillips, 1925

Whitley, 1927a, p. 4; Nair, 2003, p. 64 (as *Anguilla australia australis*). Carpenter, K. E. and Niem, V. H. 1999a p. 1633 doubts they are found here.

*Anguilla australis* Richardson, 1841

Schmeltz, 1869, p. 26 (as *Muraena halmaherensis*)

*Anguilla bicolor pacifica* Schmidt, 1828

Ege, 1939, p. 151

*Anguilla dieffenbachi* Gray, 1842

Williams, 1997, p. 2

\**Anguilla manillensis* (Bleeker, 1865)

Schmeltz, 1869, p. 26 (as *Muraena manillensis*). Wrong distribution area. A doubtful record for Fiji.

*Anguilla marmorata* Quoy and Gaimard, 1824

Günther, 1870, 8, p. 26 (as *A. fidjiensis*); Carpenter, K. E. and Niem, V. H. 1999a, p. 1635

\**Anguilla mauritania* Bennett, 1831

Schmeltz, 1879, p. 59 (as *Anguilla fidjiensis*)

*Anguilla megastoma* Kaup, 1856

Anon., 1979, p. 95; Carpenter, K. E. and Niem, V. H. 1999a, p. 1636

*Anguilla obscura* Günther, 1871 (type locality) 1872?

Günther, 1871, p. 673; Carpenter, K. E. and Niem, V. H. 1999a, p. 1636

*Anguilla* sp.

Beumer, 1985, p.; McGrouter, 1997, p. 1

**Chlopsidae (False Moray Eels).** Xenocongridae is sometimes used.

*Boehlkenchelys longidentata* Tighe, 1992.

Fishbase (2002), p. 1

*Chlopsis bidentatus* Tighe & McCosker, 2003.

Nair, 2003, p. 64; Fishbase 2009, p. 5

*Chlopsis slusserorum* Tighe & McCosker, 2003

Nair, 2003, p. 64; Fishbase 2009, p. 5

*Kaupichthys atronasmus* Schultz, 1953

Carlson, 1975, p. 8

*Kaupichthys brachychirus* Schultz, 1953

Royal Ontario Museum (Great Astrolabe Reef Collection)

\**Kaupichthys hyoproroides* (Strömman, 1896)

Zug *et al.*, 1988, p. 15; Royal Ontario Museum (Great Astrolabe Reef Collection); Greenfield list, November 2001. Randall *et al.* 1997 say this is a Western Atlantic species. The species found in the Indo-Pacific is *K. diodontus* Schultz, 1943.

\**Kaupichthys* sp. A & B.

Zug *et al.*, 1988, p. 15

\**Kaupichthys* sp

McGrouter, 1997, p. 6

*Xenoconger fryeri* Regan, 1912 (sometimes in Xenocongridae)

Greenfield list, November 2001; Fishbase 2009, p. 19

### **Congridae (Conger Eels)**

*Anago anago* (Temminck and Schlegel, 1846)

Borodin, 1932, p. 71

*Ariosoma howensis* (McCulloch and Waite, 1916)

Fishbase 2009, p. 2

*Ariosoma guttulata* (Günther, 1887)

Günther, 1887, p. 252 (type locality: Matuku) (as *Conger guttulata*)

Also known as *Rhechias guttulata* or *Bathycongrus guttulatus*.

*Ariosoma scheelei* (Strömman, 1896)

Ogilby, 1898, p. 290 (as *Congrellus fijiensis* Ogilby, 1896)

\**Ariosoma* sp

Williams, 1997, p. 3

*Bathycongrus parapolyporus* Karmovskaya, 2009

Fishbase 2009, p. 3

*Bathycongrus trimaculatus* Karmovskaya & Smith, 2008

Fishbase 2009, p. 3

*Blachea longicaudalis* Karmovskaya, 2004

Fishbase 2009, p. 3

*Coloconger raniceps* Alcock, 1889

Raj and Seeto, 1984 (used to be included under Colocongridae)

*Conger cinereus* Rüppell, 1830

Schmeltz, 1869, p. 29 (as *Conger nordziekii* Bleeker, 1857); Carpenter, K. E. and Niem, V. H. 1999a, p. 1687

\**Conger conger* Linnaeus, 1758

Thurston, 1881, p. 21. (as *Anguilla vulgaris* Gistel, 1848 or Yarrell, 1832) This species is not known from Fiji.

*Conger fijiensis* Ogilby, 1898

Ogilby, 1898, p. 290 (type locality). See *Ariosoma scheelei* (above)

*Conger japonicus* Bleeker, 1879

Hayasaka *et al.*, 1984, p. 81; Raj and Seeto, 1984, (no page number)

\**Conger orbignyanus* Valenciennes, 1842

Whitley, 1927a, p. 4 (as *C. multidentis* Castelnau, 1855). An Atlantic species erroneously listed from Fiji.

*Conger verreauxi* Kaup, 1856

Raj and Seeto, 1984

*Congriscus maldivensis* (Norman, 1939).

Fishbase 2009, p. 6

*Gorgasia preclara* (Bohlke and Randall, 1981)

Fishbase (2002), p. 1; Allen *et al.*, 2003, p. 446

*Gorgasia thamani* Greenfield and Niesz, 2004

Greenfield and Niesz, 2004, p. 373; Fishbase 2009, p. 9; <http://intreasures.com/fijimf.html> (as endemic)

\**Gnathophis nystromi ginanago* (Asano, 1958)

JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly wrongly identified.

*Heteroconger hassi* Klausewitz and Eibl-Eibeseldt, 1959

Carlson, 1975, p. 8

*Heteroconger polyzona* (Bleeker, 1869)

Allen *et al.*, 2003, p. 447

*Heteroconger tomberua* Castle and Randall, 1999

Castle and Randall, 1999, p. 24; <http://intreasures.com/fijimf.html> (as endemic)

\**Heteroconger* spp.

Williams, 1997, p. 10

*Parabathymyrus fijiensis* Karmovskaya, 2004

Fishbase 2009, p. 13

*Uroconger lepturus* Richardson, 1845

Williams, 1997, p. 3; McGrouter, 1997, p. 10

### Moringuidae (Worm Eels)

*Moringua abbreviata* Bleeker, 1863

Günther, 1873-1910, 9, p. 406; Boseto, 2005, p. 199. Same as *Moringua microchir* (below).

*Moringua bicolor* (Kaup, 1856)

Schmeltz, 1879, p. 59 (as *Ophichthys bicolor*)

*Moringua ferruginea* (Bliss, 1883)

Günther, 1873 - 1910, 9, p. 407 (as *M. macrocephala*)

*Moringua fijiensis* (Seale, 1934)

Seale, 1935, p. 342 (as *Bascanichthys fijiensis* (Seale, 1935)); Carcasson, 1977, p. 54 (as *Caecula fijiensis*). Endemic?

*Moringua javanica* (Kaup, 1856)

Günther, 1859 - 1870, 8, p. 92

*Moringua linearis* Gray, 1831

Fowler, 1959, p. 67

*Moringua lumbricoides* (Richardson, 1845) or Gray, 1856 (former likely)

Whitley, 1927a, p. 4

*Moringua macrocephalus* (Bleeker, 1863)

Fowler, 1928, p. ; Boseto, 2005, p. 198

*Moringua (Caecula) macrodon* Bleeker, 1863

Carcasson, 1977, p. 53 (as *Caecula macrodon*). Also reported from Fiji as *Yirrkala macrodon* (Bleeker, 1863) by Günther, 1873 - 1910, 9, p. 402

*Moringua microchir* Bleeker, 1853

Günther, 1873-1910, 9, p. 405 (see *Moringua abbreviata* Bleeker, 1863). Schmeltz, 1879, p. 59 (as *Aphthalmichthys microchir*)

*Moringua pusillus* (Seale, 1917)

Carcasson, 1977, p. 54 (as *Caecula pusillus*)

Also reported from Fiji as *Bascanichthys pusillus* Seale, 1917 by Seale, 1917, p. 81. Endemic.

\**Moringua* sp.

McGrouter, 1997, p. 6

*Neoconger tuberculatus* (Castle, 1965)

Rewa River Floodgate, collected by J. Seeto in 1985. Previously only known from a leptocephalus from NSW. Being described by John McCosker. Another specimen caught by David Boseto. Boseto, 2005, p. 199. This is very rare because the larval stage has been described from Australia but we have specimens of adults.

### Muraenidae (Moray Eels)

*Anarchias allardicei* Jordan and Starcks, 1906

Williams, 1997, p. 2

*Anarchias cantonensis* (Schultz, 1943)

Williams, 1997, p. 2

*Anarchias leucurus* (Snyder, 1904)

Carlson, 1975, p. 4

*Anarchias seychellensis* (Smith, 1962)

Royal Ontario Museum (Great Astrolabe Reef Collection); Williams, 1997, p. 2

*Channomuraena vittata* (Richardson, 1845)

Nimmerfroth, 2006, p. 239

*Echidna delicatula* Kaup, 1856

Williams, 1997, p. 7

*Echidna leucotaenia* Schultz, 1943

Williams, 1997, p. 7

*Echidna nebulosa* (Ahl, 1789)

Günther, 1859 - 1870, 8, p. 130

*Echidna polyzona* (Richardson, 1845)

Carlson, 1975, p. 85

*Echidna* sp.

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Echidna unicolor* Schultz, 1953

Greenfield list, November 2001

*Enchelycore bayeri* (Schultz, 1953)

Carlson, 1975, p. 5

*Enchelycore pardalis* Temminck and Schlegel, 1846

McGrouter, 1997, p. 4. Also known as *Muraena pardalis*.

*Enchelycore schismatorhynchus* (Bleeker, 1853)

Carlson, 1975, p. 6

*Enchelynassa canina* Quoy and Gaimard, 1824

Boseto (21/10/03)

*Evenchelys macrurus* (Bleeker, 1854)

Fowler, 1928, p. 51

*Gymnomuraena zebra* (Shaw, 1797)

Schmeltz, 1879, p. 60 (as *Muraena zebra*)

*Gymnothorax berndti* Snyder, 1904

Lewis (n.d.) Fisheries photo. Deepsea specimens caught by IMR

- 1983 in deepwater trap (called *G. richardsoni*). Deepsea specimen (Randy Thaman early Feb 2008). Fiji Fish specimen. species from Fiji.
- Gymnothorax buroensis* (Bleeker, 1857)  
Carlson, 1975, p. 5  
*Gymnothorax phasmatodes* Smith, 1962  
Williams, 1997, p. 9
- Gymnothorax chilospilus* Bleeker, 1865  
Royal Ontario Museum (Great Astrolabe Reef Collection); Williams, 1997, p. 9  
*Gymnothorax pinidae* Smith, 1962  
Royal Ontario Museum (Great Astrolabe Reef Collection); Williams, 1997, p. 9 (as *G. moluccensis* Bleeker, 1865)
- Gymnothorax enigmaticus* McCosker and Randall, 1982  
Royal Ontario Museum (Great Astrolabe Reef Collection)  
*Gymnothorax polyuranodon* (Bleeker, 1853)  
Schmeltz, 1879, p. 60 (as *Muraena polyuranodon*); Günther, 1880, p. 36; Boseto, 2005, p. 199
- Gymnothorax eurostus* (Abbott, 1861) or *Thyrsoidea eurosta*  
Royal Ontario Museum (Great Astrolabe Reef Collection)  
*Gymnothorax pseudothyrsoides* (Bleeker, 1852)  
Amesbury and Myers, 1982, p. 23 (*Gymnothorax* sp.)  
The authors say this was mis-identified as *Gymnothorax thysoideus* (a similar but distinct species from SE Asia).
- Gymnothorax favagineus* Bloch and Schneider, 1801  
Whitley, 1927, p. 4 (as *Gymnothorax favaginea*); Boseto, 2005, p. 199  
*Gymnothorax richardsoni* (Bleeker, 1852)  
Günther, 1873 - 1910, 9, p. 414
- Gymnothorax fimbriatus* (Bennett, 1832)  
Boulenger, 1897, p. 374  
*Gymnothorax robinsi* Böhlke, 1997  
Böhlke, 1997, p. 648
- Gymnothorax flavimarginatus* (Rüppell, 1830)  
Seale, 1935, p. 343 (juvenile); Earle, 2004, p. 1  
*Gymnothorax fuscomaculatus* (Schultz, 1953)  
Carlson, 1975, p. 7  
*Gymnothorax rueppelliae* (McClelland, 1844)  
Schmeltz, 1879, p. 60 (as *Muraena reticularis*); Boulenger, 1897, p. 374 (as *Muraena Petelli*)
- Gymnothorax gracilicaudus* Jenkins, 1903  
Carlson, 1975, p. 5  
*Gymnothorax* sp. Refers to more than 1 species)  
Royal Ontario Museum (Great Astrolabe Reef Collection); McGrouther, 1997, p. 5; Nimmerfroth, 2006, p. 231
- Gymnothorax intesti* Fourmanoir and Rivaton, 1979  
Fourmanoir, 1982, p. 95 (as *Lycodontis intesti*). Deep sea specimen from Fiji that John McCosker thought was new.  
*Gymnothorax tile* (Harrison, 1922)  
<http://www.wetwebmedia.com/FWSUBWebIndex/fwmorayeels.htm>
- Gymnothorax javanicus* (Bleeker, 1859)  
Carlson, 1975, p. 5; Earle, 2004, p.1  
*Gymnothorax undulatus* (Lacepède, 1803).  
Schmeltz, 1879, p. 60 (as *Muraena undulata*); Boulenger, 1897, p. 374; Boseto, 2005, p. 199 (as *G. undulata*)
- Gymnothorax margaritophorus* Bleeker, 1865  
Carlson, 1975, p. 6  
*Gymnothorax zoniptectis* Seale, 1906  
Günther, 1873-1910, 9, p. 415
- Gymnothorax melatremus* Schultz, 1953  
Williams, 1997, p. 9  
*Monopenchelys acuta* (Parr, 1930)  
Williams, 1997, p. 12; Randall, 2005, p. 49
- Gymnothorax meleagris* (Shaw and Nodder, 1795)  
Günther, 1859 - 1870, 8, p. 100; Earle, 2004, p.1  
*Pseudechidna brummeri* (Bleeker, 1858-59)  
Seale, 1935, p. 343 (as *Strophidon brummeri*); Allen *et al.*, 2003, p. 441
- Gymnothorax monochrous* Bleeker, 1856  
Williams, 1997, p. 9  
*Rhinomuraena quaesita* Garman, 1888  
Carlson, 1975, p. 7
- Gymnothorax neglectus* Tanaka, 1911  
JICA, 1987, p. 111 (Volume 2). Fiji or Tuvalu. Possibly wrongly identified.  
*Siderea picta* (Ahl, 1789)  
Günther, 1859-1870, 8, p. 116; Greenfield list, November 2001 (as *Gymnothorax pictus*); Boseto, 2005, p. 199 (as *G. pictus*)
- Gymnothorax pardalis* Temminck and Schlegel, 1864  
Fowler, 1959, p. 79 (as *Muraena pardalis*). Mistakenly, listed this

- Siderea thyrsoides* (Richardson, 1845)  
Günther, 1873 - 1910, 9, p. 419 (as *Gymnothorax thyrsoides*)
- Strophidon sathete* (Hamilton-Buchanan, 1822)  
Myers and Shepard, 1980, p. 314 (as *Thyrsoidea macrura*); Allen *et al.*, 2003, p. 442
- Uropterygius concolor* Rüppell, 1828  
Günther, 1873-1910, 9, p. 426; Boseto, 2005, p. 199
- Uropterygius fijiensis* Fowler and Bean, 1923  
Fowler and Bean, 1923, p. 13
- Uropterygius inornatus* Gosline, 1958  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Uropterygius macrocephalus* (Bleeker, 1865)  
Zug *et al.*, 1988, p. 12
- Uropterygius marmoratus* (Lacépède, 1803)  
Boulenger, 1897, p. 374
- Uropterygius micropterus* (Bleeker, 1852)  
Boseto, D. 2006 *pers comm.*
- Uropterygius supraornatus* (Regan, 1909)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Uropterygius xanthopterus* Bleeker, 1859  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Muraenesocidae (Pike Eels)**
- Muraenesox bagio* (Hamilton-Buchanan, 1822)  
Jordan and Dickerson, 1908, p. 604 (as *M. cinereus* non Forsskål); Carpenter, K. E. and Niem, V. H. 1999a, p. 1676
- Muraenesox cinereus* Forsskål, 1775  
Fowler, 1940 (p. 752) (as *Muraenesox arabicus* Bloch and Schneider, 1801); Boseto, 2005, p. 199
- Ophichthidae (Snake Eels)**
- Apterichtus klazingai* (Weber, 1913)  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Bascanichthys filaria* (Günther, 1872)  
Schmeltz, 1881, p. 8 (as *Ophichthys filaria*); Fowler, 1931, p. 316 (as *Callechelys filaria*). Aka *Callechelys filaria* (Günther, 1872)
- Bascanichthys longipinnis* (Kner and Steindachner, 1867)  
Herre, 1936, p. 39 (as *Callechelys longipinne*)
- Brachysomophis crocodilinus* (Bennett, 1833)  
Pöhl, 1884, p. 40 (*Achirophichthys typus* Bleeker, 1864); McCosker and Randall, 2001, p. 16
- Callechelys catostomus* (Forster in Bloch and Schneider, 1801)  
Carlson, 1975, p. 7 (as *Callechelys melanotaenia* Bleeker, 1864)
- Callechelys marmorata* (Bleeker, 1853)  
Zug *et al.*, 1988, p. 12
- Lamnostoma bicolor* Kaup, 1856  
Boseto, 2005, p. 199;
- Lamnostoma kampeni* (Weber and de Beaufort, 1916)  
Jenkins, 2003; Boseto, 2005, p. 198
- Lamnostoma polyphthalmus* (Bleeker, 1853)  
Günther, 1873-1910, 9, p. 403 (as *Ophichthus punctulatus* Swainson, 1839)
- Leiuranus phoenixensis* Schultz, 1943  
Williams, 1997, p. 11
- Leiuranus semicinctus* (Lay and Bennet, 1839)  
Günther, 1859-1870, 8, p. 54
- Muraenichthys gymnopterus* (Bleeker, 1853)  
Günther, 1873-1910, 9, p. 396
- Muraenichthys gymnotus* Bleeker, 1857  
Williams, 1997, p. 12
- Muraenichthys hattae* Jordan and Snyder, 1901  
Williams, 1997, p. 12
- Muraenichthys laticaudata* (Ogilby, 1897)  
Ogilby, 1897, p. 247 (as *Myropterura laticauda*)
- Muraenichthys macropterus* Bleeker, 1857  
Seale, 1935, p. 341
- Muraenichthys macrostomus* (Bleeker, 1865)  
Seale, 1935, p. 341
- Muraenichthys schultzei* Bleeker, 1857  
Williams, 1997, p. 12
- Muraenichthys sibogae* Weber and de Beaufort, 1916  
Williams, 1997, p. 12
- \**Muraenichthys* sp.  
Royal Ontario Museum (Great Astrolabe Reef Collection)
- Muraenichthys thompsoni* Jordan and Richardson, 1908  
Williams, 1997, p. 12
- Muraenichthys vermiformis* Peters, 1866  
Williams, 1997, p. 12
- Myrichthys colubrinus* (Boddaert, 1781)  
Schmeltz, 1874, p. 37 (as *Ophichthys colubrinus*)

*Myrichthys maculosus* (Cuvier, 1816)

Fowler, 1928, p. 43

*Myrophis* sp

Williams, 1997, p. 12. Possibly a *Myrophis uropterus* (Temminck and Schlegel, 1842).

*Ophichthus brachynotopterus* Karre, 1982

J. Seeto pers. comm.

*Ophichthus cephalozona* (Bleeker, 1864)

Günther, 1873-1910, 9, p. 398. Randall, 2005, p. 33

*Ophichthus exourus* McCosker, 1999

Fishbase (2002), p. 1; Nair, 2003, p. 64

*Ophichthus kunaloo* McCosker, 1979

Raj and Seeto, 1984

*Pisodonophis boro* (Hamilton-Buchanan, 1822)

Fowler, 1929, p. 1

*Pisodonophis cancrivorus* (Richardson, 1848)

Schmeltz, 1879, p. 59 (as *Ophichthys cancrivorus*); Boseto, 2005, p. 199

*Schismorhynchus labialis* (Seale, 1917)

Williams, 1997, p. 16

*Schultzidia johnstonianus* (Schultz and Woods, 1949)

Royal Ontario Museum (Great Astrolabe Reef Collection)

*Yirrkala gjellerupi* (Weber and de Beaufort, 1916)

Jenkins, 2003, Boseto, 2005, p. 198, McCosker, Boseto and Jenkins, 2007 p. 141

\**Xirrkala* sp.

McGrouter, 1997, p. 10

*Yirrkala lumbricoides* (Bleeker, 1853)

Seale, 1935, p. 342 (as *Sphagebranchus lumbricoides*); Boseto, 2005, p. 199 .

#### **Synaphobranchidae (Cut-throat Eels)**

*Synaphobranchus affinis* Günther, 1877

Raj and Seeto, 1984

*Synaphobranchus brevidorsalis* Günther, 1887

Raj and Seeto, 1984

*Thermobiotes mytilogeiton* Gestdoerfer, 1991

Desbroyères and Segonzac, 1997, p. 229 (Lau Basin)

#### **IV. FIJI'S ENDEMIC FISHES**

There are 33 endemic marine fishes (the first 33 species listed) and eight freshwater species (the last eight species listed) from

Fiji. *Meicanthus bundoon* and *Neoglyphidodon carlsoni* (Allen, 1975) were once thought to be endemic to Fiji but have since been found in Tonga.

*Brotula flaviviridis* (Ophidiidae) - <http://intreasures.com/fijimf.html>

*Bryaninops diannaea* - a goby living on seawhips

*Cirrhilabrus majorie* Allen, Randall & Carlson, 2003 wrasse

*Dermatopsis greenfieldi* - from the Fishbase data. <http://intreasures.com/fijimf.html>

*Diancistrus fijiensis* (Bythitidae) - <http://intreasures.com/fijimf.html>

*Diancistrus robustus* (Bythitidae) - <http://intreasures.com/fijimf.html>

*Discotrema zonatum* - <http://intreasures.com/fijimf.html>

*Ecsenius fijiensis* - the Fiji blenny

*Ecsenius pardus* - a blenny

*Eschmeyer nexus* (Scorpaenidae)

*Gorgasia thamani* - a garden eel

*Heteroconger tomberua* (Congridae) - <http://Intreasures.com/fijimf.html>

*Meiacanthus oualenensis* (Günther, 1880)

*Mesopristes kneri* 'reve' (Teraponidae)

*Microbrotula greenfieldi* (Bythitidae) - <http://intreasures.com/fijimf.html>

*Moringua (Bascanichthys) fijiensis* (Seale, 1934) - an eel

*Moringua (Bascanichthys) pusillus* (Seale, 1917) - an eel

*Paracheilinus rubricaudalis* - <http://intreasures.com/fijimf.html>

*Parioglossus triquetrus* Rennis and Hoese, 1985

*Parmops echinatus* - a flashlight fish

*Petroscirtes pylei* (Blenniidae) - Twilight Fangblenny <http://intreasures.com/fijimf.html>

*Plagiotremus laudandus flavus* - an endemic blenny subspecies

*Plesiops polydactylus* - <http://intreasures.com/fijimf.html>

*Pomacentrus microspilus* - <http://intreasures.com/fijimf.html>

*Pseudanthias flavicauda* (Serranidae) - <http://intreasures.com/fijimf.html>

*Rotuma lewisi* - an endemic to Rotuma

*Siganus uspi* - USP rabbitfish

*Synchiropus springeri* (Callionymidae) - <http://intreasures.com/fijimf.html>

*Thamnaconus fijiensis* - a filefish.

*Trimma anthrena* (Winterbotton, 2005) - Royal Ontario Museum (Great Astrolabe Reef Collection). Probably endemic.

*Trysogobius nigrolineatus* - <http://intreasures.com/fijimf.html>

*Vanderhorstia bella* (Gobiidae) - <http://intreasures.com/fijimf.html>

*Zoramia flebila* - <http://intreasures.com/fijimf.html>

*Lairdina hopletupus* Fowler, 1953. - Endemic freshwater genus.

*Lentipes bellameyae* n sp - according to Jenkins & Boseto, this is a new freshwater species

*Redigobius leveri* (Fowler, 1943) - a freshwater species

*Redigobius* n. sp being described by Helen Larson. - a freshwater species

*Schismatogobius chrysonotus* - Jenkins and Boseto, 2003 - freshwater species

*Schismatogobius vitiensis* Jenkins and Boseto 2005 - freshwater species

*Sicyopus merielae* Jenkins 2003 An endemic freshwater fish

*Sicyopterus* sp (n sp.) - Boseto pers. comm. A freshwater species

#### **V. RARE FIJI FISH**



While some Fiji fishes are not endemic, they are rare because of over-exploitation (Group A) or just are naturally rare (Group B). The latter situation may arise because we have not found their true habitat. However, we do not have any real data to really prove the case of over-exploitation, so this list is small.

**Group A.**

*Cheilinus undulatus* – over-exploitation.

**Group B.**

*Neoconger tuberculatus* (Castle, 1965). Very rare in the World. See note about this species in its listing above. Some deep sea fish are included here too.

**VI. DISCUSSION**

The bibliography contains all the publications that refer to Fijian fishes and some of these are not referred to in the text because this publication initially referred to first records only. Subsequent evolution of the manuscript changed this format and many non-cited Fiji fish references were put into the publication.

**VII. ACKNOWLEDGEMENTS**

We would like to thank Peter Rappa of Sea Grant-Hawaii, Philip Helfrich, former director of the Marine Lab, Coconut Island-Kaneohe, Hawaii, John Randall and Arnold Suzimoto of the Bishop Museum, Iliavi Tuwai and Anare of Fiji Fisheries Department, G. David Johnstone, Jeff Williams and Vic Springer of the Smithsonian Institute, R. Winterbottom of the Royal Ontario Museum, World Fish Centre (ICLARM) Fishbase staff, PIMRIS staff Ana Jese, Nirmala Gounder and Ganeshan Rao, G. Robin South, Nanise Bulai and DMS staff, Randy Thaman, Nick Dulvy, Toata Molea of IMR, Solomon Islands, Margaret Patel and the Fiji Archives staff; Fiji Fish staff; Graeme Southwick; Robert Stone; USP library staff, Fiji Museum staff, Mark McGrouther of the Australian Museum, and FFA library assistant Samao Nalei. Jeff Williams and Mark McGrouther helped with some fish names. We also wish to thank Dave Greenfield and his team (University of Hawaii & Bishop Museum) for their additions to this list. We want to thank Joeli Veitayaki, Head of the Division of Marine Studies, USP for obtaining funds to publish this report. We wish to thank Professor Robin South and Mrs Maria Kanchelits for editing this report and Dr Posa Skelton for designing the cover and for design and layout of this publication. Last but not least, we thank Saran Singh, former laboratory manager of IMR who donated his copy of *Fishes of Fiji* (by HW Fowler) to the senior author, as an impetus to start this research.



Suva Fish Market - PSkelton

## VIII. BIBLIOGRAPHY

\*\* = citation either incomplete or has not been seen by the authors at this time.

Adams, A.E. and Titoko, V., 1970. A progress report on the introduction of grass carp *Ctenopharygodon idella* in Fiji. *Fiji Agricultural Journal*. 32 (2): 43-46.

Agbayani, E., 2007. List of Freshwater Fishes for Fiji Islands. [Online] Available at: <http://fish.mongabay.com/data/Fiji.htm> [Accessed 17 December 2009].

Allen, G.R., 1972. *The anemonefishes, their classification and biology*. Neptune City (NJ): T.F.H. Publications. 288 p.

Allen, G.R., 1975a. *Damselfishes of the South Seas*. Neptune City (NJ): T.F.H. Publications. 237 p.

Allen, G.R., 1975b. *Anemonefishes, their classification and biology*. Neptune City (NJ): T.F.H. Publications. 352 p.

Allen, G.R., 1977. *Butterfly and angelfishes of the world, Volume 2. Atlantic Ocean, Caribbean, Red Sea, Indo Pacific*. New York: J. Wiley and Sons, pp.149-352.

Allen, G.R., 1989. *Freshwater fishes of Australia*. Neptune City (NJ): T.F.H. Publications. 240 p.

Allen, G.R., 1991. *Damselfishes of the World. Aquarium System*. Melle: Hans A. Baensch. 271 p.

Allen, G.R., 1997. *Marine fishes of the Great Barrier Reef and South-East Asia*. Periplus Editions. Western Australian Museum. 292 p.

Allen, G.R. and Emery, A.R., 1985. A review of the pomacentrid fishes of the genus *Stegastes* from the Indo-Pacific with descriptions of two new species. *Indo-Pacific Fishes*. 3, 31 p.

Allen, G.R. and Larsen, H.K., 1975. *Pomachromis guamensis*, a new species of damselfishes (Pomacentridae) from the Mariana Islands. *Micronesica*, 11(1): 123-126.

Allen, G.R. and Randall, J.E., 1974. Five new species and a new genus of damselfishes (family Pomacentridae) from the South Pacific Ocean. *Tropical Fish Hobbyist*, 21(9): 36-46.

Allen, G.R. and Randall, J.E., 1977. Review of the sharpnose pufferfishes (subfamily Canthigasterinae) of the Indo-Pacific. *Records. Australian Museum*, 30(17): 475-517.

Allen, G.R. and Steene, R., 1979. The fishes of Christmas Island, Indian Ocean. *Australian National Parks and Wildlife Service, Special Publication*, 2, 81 p.

Allen, G.R., Steene, R. and Allen, M., 1998. *A guide to Angelfishes and Butterflyfishes*. Perth (W.A): Odyssey Publishing/Tropical Reef Research. 250 p.

Allen, G.R., Steene, R., Humann, P. and Deloach, N., 2003. *Reef fish identification. Tropical Pacific*. Jacksonville (FL): New World Publications. 457 p.

Allen, G.A. and Talbot, F.H., 1985. Review of the snappers of the genus *Lutjanus* (Pisces: Lutjanidae) from the Indo-Pacific, with the description of a new species. *Indo-Pacific Fishes*, 11, 87 p.

Allen, G.R. and Randall, J.E., 2005. A new species of damselfish (Pomacentrus: Pomacentridae) from Fiji. *Journal of Ichthyology & Aquatic Biology*, 10(3): 95-100.

American Marinelife Dealers Association, 2003. *Ecolist: Anthias* [Online] Available at: [http://www.amdareef.com/el\\_anthias.htm](http://www.amdareef.com/el_anthias.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Angel Fish* [Online] Available at: [http://www.amdareef.com/el\\_angel.htm](http://www.amdareef.com/el_angel.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Anglers, Lions & Scorpions* [Online] Available at: [http://www.amdareef.com/el\\_angler-lion.htm](http://www.amdareef.com/el_angler-lion.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Blennies, Dragonettes & Gobies* [Online] Available at: [http://www.amdareef.com/el\\_blenny.htm](http://www.amdareef.com/el_blenny.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Butterfly Fish* [Online] Available at: [http://www.amdareef.com/el\\_butterfly.htm](http://www.amdareef.com/el_butterfly.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Clowns & Damsels* [Online] Available at: [http://www.amdareef.com/el\\_clown.htm](http://www.amdareef.com/el_clown.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Hamlets & Hawks* [Online] Available at: [http://www.amdareef.com/el\\_hamlet.htm](http://www.amdareef.com/el_hamlet.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Hogs & Parrots* [Online] Available at: [http://www.amdareef.com/el\\_hog\\_parrot.htm](http://www.amdareef.com/el_hog_parrot.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Puffers & Trunkfish* [Online] Available at: [http://www.amdareef.com/el\\_puffer.htm](http://www.amdareef.com/el_puffer.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Tangs* [Online] Available at: [http://www.amdareef.com/el\\_tang.htm](http://www.amdareef.com/el_tang.htm). [Accessed 11 December 2009].

American Marinelife Dealers Association, 2003. *Ecolist: Wrasse* [Online] Available at: [http://www.amdareef.com/el\\_wrasse.htm](http://www.amdareef.com/el_wrasse.htm). [Accessed 11 December 2009].

Amesbury, S.S. and Myers, R.F., 1982. Guide to the coastal resources of Guam. Vol. 1. The fishes. *University of Guam Marine Laboratory Contribution*, 173. 141 p.

- Amin, O.M. and Nahhas, F.M., 1994. Acanthocephala of marine fishes off Fiji Islands, with descriptions of *Filosoma longcementglandatus* n.sp., *Neorhadinorhynchus macropsinosus* n.sp. (Cavisomidae), and gravid females of *Rhadinorhynchus johnstoni* (Rhadinorhynchidae); and keys to species of the genera *Filosoma* and *Neorhadinorhynchus*. *Journal of Parasitology*, 80(5): 768-774.
- Anderson, Jr., D.A., 1981. A new species of Indo-West Pacific *Etelis* (Pisces: Lutjanidae), with comments on other species of the genus. *Copeia*, 4: 820-825.
- Andrews, S., 1985. Aquatic species introduced to Fiji. *Domodomo*, 3(2): 67-82.
- Anon., 1907. *The cyclopedia of Fiji*. Suva: The Cyclopedia Company. 329 p.
- Anon., 1924. *The colony of Fiji, 1874-1924*. Suva: Government Printers. 167 p.
- Anon., 1957. Introduction of freshwater fish into Fiji. *Fiji Times*, 23 January, 1957, 1(228), p.2.
- \*\*Anon., 1962. Fiji introduces new game fish. *South Pacific Bulletin*, 4.
- \*\*Anon., 1971. Department of Agriculture report for 1970. *Parliamentary Papers*, 25, Suva, Fiji, 34 p.
- Anon., 1973. Fiji tuna project. Catch record for 1972 and 1973. *South Pacific Commission Fisheries Newsletter*, 9, p.30.
- Anon., 1974. A "devil fish" comes to greif. *Fiji Times*, 23 May 1974, 1362, p.4.
- Anon., 1976. *Annual report 1976*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 33 p.
- Anon., 1979. *Annual report 1979*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 116 p.
- Anon., 1980. *Annual report 1980*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 99 p.
- Anon., 1981. *Annual report 1981*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 95 p.
- Anon., 1982a. *The fishery resources of the Lau Group*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 82 p. (in Fijian).
- Anon., 1982b. *Annual report 1982*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 91 p.
- Anon., 1983a. Black bass introduced to Fiji. *SPC Fisheries Newsletter, Noumea, New Caledonia*, 27, p.13.
- Anon., 1983b. *The fishery resources of Rotuma*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 31 p.
- Anon., 1983c. *Food fishes of Fiji*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries, 1 p. (Poster).
- Anon., 1984. SPC activities. Deep sea fisheries development project notes - Fiji. *SPC Fisheries Newsletter, Noumea, New Caledonia*, 28, p.2.
- Anon., 1985. *Food fishes of Fiji*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries, 1p. (Poster).
- \*\*Anon., ND. *The fisheries resources of Rabi*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 30 p.
- \*\*Anon., ND. *Tuna Baitfish Research: Progress report (June-November 1980)*. Suva: Institute of Marine Research, University of the South Pacific. 3 p.
- Anon., 1995. Fishermen catch rare tuna species. *The Daily Post*, 5 December 1995, p.5.
- \*\*Anon., ND. *Guide to reef fish of Australia (including Great Barrier Reef, Coral Sea, Fiji and adjacent waters). Fish identification card with fish pictures and common names*. Natural World Press. 1 p.
- \*\*Anon., ND. *Living National Treasures: Fiji*. [Online] Available at: <http://Intreasures.com/fiji.html>. [Accessed 17 December 2009].
- Arnold, D.C., 1956. A systematic revision of the fishes of the teleost family Carapidae (Percomorphi, Blennioidea), with descriptions of two new species. *Bulletin of the British Museum (Natural History), Zoology*, 4(6): 247-307.
- Asano, H., 1962. Studies on the congrid eels of Japan. *Bulletin of the Misaki Marine Biological Institute, Kyoto University*, 1: 1-143.
- \*\*Australian Government. Department of the Environment, Water, Heritage and the Arts, 200?. *Solenostomus sp.* (AMS I. 33720-040) - Orange hairy ghost pipefish [Online] Available at: [http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\\_id=66745](http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=66745). [Accessed 17 December 2009].
- \*\*Australian Museum, 200?. *Fishes*. [Online] Available at: <http://www.amonline.net.au/fishes/students/focus/soleno.htm> [Accessed 17 December 2009].
- Aw, M., 2000. *Tropical reef fish. A 'getting to know you' and identification guide*. Australia: OceanEnvironment. 158 p.
- Axelrod, H.R., Burgess, W.E., Pronek, N. and Walls, J. E., 1986. *Dr. Axelrod's atlas of freshwater aquarium fishes*. 2nd ed. Neptune City (NJ): T.F.H. Publication. 782 p.
- Bagnis, R., 1973. *Fish poisoning in the South Pacific*. Noumea: South Pacific Commission. 112 p.
- Bagnis, R., Mazellier, P., Bennett, J. and Christian, E., 1974. *Fishes of Polynesia*. Papeete: Editions du Pacifique. 368 p.

- Baldwin, W.J., 1977. A review on the use of live baitfish to capture skipjack tuna, *Katsuwonus pelamis*, in the Tropical Pacific Ocean with emphasis on their behavior, survival, and availability. In: R.S. Shomura, ed. *Collection of tuna baitfish papers.*, NOAA Technical Reports, National Marine Fisheries Service Circular, 408: 8-35.
- Baldwin, W.J., 1983. *Stolephorus pacificus*, a new species of tropical anchovy (Engraulidae) from the Western Pacific Ocean. *Micronesica*, 19(1-2): 151-156.
- Baldwin, W.J., 1984a. The identification of commercially important baitfishes in the Fijian skipjack tuna fishery. *Sea Grant Cooperative Report, UNIHI-SG-CR-84-03*, 47 p.
- Baldwin, W.J., 1984b. A note on the occurrence of the gold spot herring *Herklotsichthys quadrimaculatus* (Rüppell) in Hawaii. *Pacific Science*, 38(2): 123-126.
- Bandy, M.K., 1991. *Cleaner wrasses of Fiji represented by four species of the genus Labroides*. Suva: School of Pure and Applied Sciences, The University of the South Pacific. 46 p. [Unpublished report]
- Banner, A.H. and Helfrich, P., 1964. The distribution of ciguatera in the tropical Pacific. *Technical Report, 3, Hawaii Marine Biological Laboratory, University of Hawaii, Final Report, NIH Contr. SA-43 ph-3741*, 48 p.
- \*\*Batibasaga, A., Sesewa, A., Vana, A. and Yabakivou, S., 1995. *Report on the fisheries resources assessment in Verata waters*. Suva: Fiji Fisheries Division.
- Bekker, V.E., 1966. *Slendertailed luminescent anchovies (genera Lowenia, Tartltonbeania, Gonichthys, and Centrobranchus) of the Pacific and Indian Oceans, Systematics and distribution*. In: T.S. Rass, ed., *Fishes of the Pacific and Indian Oceans. Biology and distribution. Transactions of the Institute of Oceanography, Academy of Sciences, USSR*. pp.10-78.
- Berry, F.H., and Baldwin, W.J. 1966. Triggerfishes (Balistidae) of the eastern Pacific. *Proceedings of the California Academy of Sciences*, 34(9): 429-474.
- \*\*Best, S.B., 1984. *Lakeba: The prehistory of the Fijian Islands*. Ph.D. Thesis, Auckland: Auckland Museum. 684 p.
- Beumer, J.P., 1985. The eels resources of Fiji. *Queensland Department of Primary Industries Study Report QS85010*, Brisbane, Australia. 33 p.
- Blaber, S.J.M. and Copeland, J.W. eds., 1989. Tuna Baitfish in the Indo-Pacific Region. Proceedings of a workshop, Honiara, Solomon islands. 11-13 December 1989. *ACIAR Proceedings*, 30, 211 p.
- Blaber, S.J.M., Milton, D.A. and Rawlinson, N.J.F. eds. 1993. Tuna Baitfish in Fiji and Solomon Islands. Proceedings of a workshop, Nadi, Fiji 17-18 August 1993. *ACIAR Proceedings*, 52, 131 p.
- Blaber, S.J.M., Milton, D.A., Rawlinson, N.J.F. and Sesewa, A., 1993a. *Predators of tuna baitfish and the effects of baitfishing on the subsistence reef fisheries of Fiji*. In: S.J.M. Blaber, D.A. Milton and N.J.F. Rawlinson, eds. *Tuna Baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings No. 52*, pp.51-61.
- Blaber, S.J.M., Milton, D.A., Rawlinson, N.J.F. and Sesewa, A., 1993b. *A checklist of fishes recorded by the Baitfish Research Project in Fiji from 1991 to 1993*. In: S.J.M. Blaber, D.A. Milton and N.J.F. Rawlinson, eds. *Tuna Baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings*, 52, pp.102-110.
- Blanc, R.R.V., 1962. *Nature study; a handbook for Pacific Island teachers*. Whitcombe and Tombs. 261 p.
- Bohlke, J. 1953. A catalog of the type specimens of recent fishes in the natural History Museum of Stanford University. *Stanford Ichthyological Bulletin*, 5, 168 p.
- Böhlke, E.B., 1997. *Gymnothorax robinsi* (Anguilliformes, Muraenidae), a new dwarf moray with sexually dimorphic dentition from the Indo-Pacific. *Bulletin of Marine Science*, 60(3): 648 -655.
- Bohlke, E. and Randall, J.E., 2000. A review of the moray eels (Anguilliformes: Muraenidae) of the Hawaiian Islands. *Proceedings of the Academy of Natural Sciences of Philadelphia.*, 150: 203-278.
- Borodin, N.A., 1932. Scientific results of the yacht 'Alva' world cruise, July, 1931 to March, 1932, in command of William K. Vanderbilt. *Bulletin of the Vanderbilt Marine Museum*, 1(3): 65-101.
- Boseto, D., 2006. *Diversity, distribution and abundance of Fijian freshwater fishes*. MSc Thesis. The University of the South Pacific. 214 p.
- Boseto, D., 2006. *Diversity distribution and abundance of Fijian freshwater fish. Thesis abstract*. [Online] Institute of Applied Science, The University of the South Pacific. Available at: <http://ias.fst.usp.ac.fj/index.php?id=4792>. [Accessed 2007].
- Boulenger, G.A., 1895. *Catalog of the perciform fishes in the British Museum, Vol. 1*. 2nd ed., British Museum (Natural History). 394 p.
- Boulenger, G.A., 1897. A list of the fishes obtained by Mr. J. Stanley Gardener at Rotuma, South Pacific Ocean. *Annals and Magazine of Natural History*, 6(20): 371 -374.
- Briggs, J.C., 1955. A monograph of the clingfishes (Order Xenopterygii). *Stanford Ichthyological Bulletin*, 6, 224 p.
- Briggs, J.C., 1976. A new genus and species of clingfishes from the Western Pacific. *Copeia*, 2: 339-341.
- Brown, L.F., 2006. *Initial assessment of the fringing reefs of Gau. Frontier Fiji Environmental Research Report 1*. Frontier-Fiji & IOI Pacific Islands. 50 p.
- Brown, W.G., 1993. *Diving and snorkelling guide to Fiji*. Houston

(TX): Pisces Books. 90 p.

Bruce, R.W. and Randall, J.E., 1985. Revision of the Indo-Pacific Parrotfish genera *Calostomus* and *Leptoscarus*. *Indo-Pacific Fishes*, 5, 32 p.

Burgess, W.E., 1978. *Butterflyfishes of the world*. Neptune City (NJ): T.F.H. Publications. 832 p.

Burgess, W.E. and Axelrod, H.R., 1975. *Pacific marine fishes. Book 6. Fishes of Melanesia*. Neptune City (NY): T.F.H. Publications. 267 p.

Busonero, F., 1996. *Fiji: the uncharted sea*. Gustavia, Ile de Saint Barthélemy: F. Busonero. 153 p.

Calamia, M.A., Geraghty, P., Bola, E. and Likuvai, S.R., 2008. Indigenous marine taxa of Kadavu Province, Fiji. *Domodomo*, 21(1&2): 7-69.

Cantwell, G.E., 1964. A revision of the genus *Parapercis*, family Mugiloididae. *Pacific Science*, 18(3): 239-280.

Capell, A., 1973. *A new Fijian dictionary*. 4th ed. Suva: Government of Fiji. 407 p.

Carcasson, R.H., 1977. *A field guide to the coral reef fishes of the Indian and Western Pacific Oceans*. London: Collins. 320 p.

Carlson, B.A., 1975. *A preliminary check-list of the fishes of Fiji (based on specimens in the Marine Reference Collection of the University of the South Pacific, Suva, Fiji)*. Suva: University of the South Pacific. 94 p. [Mimeogr.]

Carlson, B.A., 1978. A contribution to the biology of the spotted blenny, *Exallias brevis* (Pisces: Blenniidae). *Pacific Science*, 32(1): 96.

Carpenter, K.E., 1987. Revision of the Indo-Pacific fish family Caesionidae (Lutjanoidea), with descriptions of five new species. *Indo-Pacific Fishes*, 15, 56 p.

Carpenter, K.E. and Allen, G.R., 1989. FAO Species Catalogue. Volume 9. Emperor fishes and large-eye breams of the World (Family Lethrinidae). An annotated and illustrated catalogue of lethrinid species known to date. *FAO Species Synopsis*, 125, 9, 118 p.

Carpenter, K.E. and Niem, V.H., 1998. *FAO species identification guide for fishery purposes. The living resources of the Western Central Pacific. Volume 2. Cephalopods, crustaceans, holothurians and sharks*. Rome: FAO, pp.687-1396.

Carpenter, K.E. and Niem, V.H., 1999. *FAO species identification guide for fishery purposes: The living marine resources of the Western Central Pacific. Volume 3. Batoid fish, chimaera, and bony fishes. Part 1. (Elopidae to Linophrynidae)*. Rome, FAO, pp.1397-2068.

Carpenter, K.E. and Niem, V.H., 1999. *FAO species identification guide for fishery purposes: The living marine resources of the Western Central Pacific. Volume 4. Bonyfish fishes. Part 2.*

(*Mugilidae to Carangidae*). Rome: FAO, pp.2069-2790.

Carpenter, K.E. and Niem, V.H., 2001. *FAO species identification guide for fishery purposes: The living marine resources of the Western Central Pacific. Volume 5. Bonyfish fishes. Part 3. (Menidae to Pomacentridae)*. Rome: FAO, pp.2791-3380.

Carpenter, K.E. and Niem, V.H., 2001. *FAO species identification guide for fishery purposes: The living marine resources of the Western Central Pacific. Volume 6. Bonyfish fishes. Part 4. (Labridae to Latimeriidae), estuarine crocodiles, sea turtles, sea snakes and marine mammals*. Rome: FAO, pp.3381- 4218.

Castle, P.H.J., 1963. Anguillid leptocephali of the Southwest Pacific. *Zoology Publications, Victoria University, Wellington*, 33, 14 p.

Castle, P.H. J., 1964. Eels and eel-larvae of the *Tui* Oceanographic Cruise 1962 to the South Fiji Basin. *Transactions of the Royal Society of New Zealand, Zoology*, 5(7): 71-84.

Castle, P.H.J., 1968. The congrid eels of the western Indian Ocean and the Red Sea. *Ichthyological Bulletin. Rhodes University, Grahamstown*, 33: 685 -726.

Castle, P.H.J. and Randall, J.E., 1999. Revision of Indo-Pacific garden eels (Congridae: Heterocongridae), with descriptions of five new species. *Indo-Pacific Fishes*, 30, 52 p.

Cavuilati, S.T., 1980. *Fijian fisheries*. Thesis (Post-graduate Diploma). Bombay: Central Institute of Fisheries Education & Council of Agricultural Research, 136 p.

Chan, W.L., 1965. A systematic revision of the Indo-Pacific clupeid fishes of the genus *Sardinella* (family Clupeidae). *Japanese Journal of Ichthyology*, 12(3/6): 104-118; 13(1/3): 1-39.

Chapman, L.B. and Lewis, A.D., 1982. *UNDP/MAF survey of walu and other coastal pelagics in Fiji Waters, 5th September - 4th January 1982*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 36 p.

Chapman. L.B., Taumaia, P. and Preston, G.L., 1984. *Deep Sea Fisheries Development Project: Report of participation in FAO/Fiji Government Fisheries Rehabilitation Programme. Fiji, 22 March to 8 May 1983*. Noumea: South Pacific Commission. 15 p.

Chute, W.H., 1936. Note on color differences in living specimens in tropical Indo-Pacific pomacentrid fishes, *Dascyllus trimaculatus* and *Dascyllus albisella*. *Copeia*, 1, p.60.

Chute, W.H., 1941. Net results from Oceania: collecting aquarium specimens in tropical Pacific waters. *National Geographical Magazine*, 79: 347-372.

Clarke, G.T. and Fricke, R., 1985. A new species of dragonet, *Synchiropus randalli*, from Easter Island (Teleostei: Callionymidae). *Proceedings of the Biological Society of Washington*. 98(3): 539-543.

Cohen, D.M. and Nielsen, J.G., 1978. Guide to the identification of genera of the fish order Ophidiformes, with a tentative classification

- of the order, NOAA Technical Reports, National Marine Fisheries Service Circular, 417, 72 p.
- Colin, P.L., 1976. Filter feeding and predation on the eggs of *Thalassoma* sp. by scombrid fish *Rastrelliger kanagurta*. *Copeia*, 3: 596-597.
- Collette, B.B., 1983. Recognition of two species of double-lined mackerels (*Grammatorcynus*: Scombridae). *Proceedings of the Biological Society of Washington*, 96(4): 715-718.
- Collette, B.B. and Nauen, C.E., 1983. *FAO species catalogue. Volume 2. Scombrids of the world*. Rome: FAO, 137 p.
- Collette, B.B. and Russo, J.L., 1978. An introduction to the Spanish mackerels, genus *Scomberomorus*. In: E.L. Nakamura and H.R. Bullis, Jr., eds. *Proceedings of the Mackerel Colloquium*, pp.3-16.
- Cooper, H.S., 1880. *Coral Islands. Volume 1*. London: R. Bentley and Son. 351 p.
- Cressey, R.F., 1981. Revision of Indo-Pacific lizardfishes of the genus *Synodus* (Pisces : Synodontidae). *Smithsonian Contributions to Zoology*, 342, 53 p.
- Cressey, R.F., Colette, B.B. and Russo, J.L., 1982. Copepods and scombrids: A study in host-parasite relationships. *Fishery Bulletin*, 81(2): 227-265.
- Crossland, J and Grandperrin, R., 1979. *Fisheries directory of the South Pacific Commission region*. Noumea: South Pacific Commission. 47 p.
- D'Ancona, V., and Cavinato, G., 1965. The fishes of the family Bregmacerotidae. *Dana Report*, 64, 92 p.
- Dawson, C.E., 1973. Indo-Pacific distribution of microdesmid fishes (Gobioidea). *Journal of the Marine Biological Association of India*, 15(11): 318-322.
- Dawson, C.E., 1976. Review of the Indo-Pacific pipefish genus *Choeroichthys* (Pisces: Syngnathidae), with descriptions of two new species. *Proceedings of the Biological Society of Washington*, 91(1): 132-157.
- Dawson, C.E., 1977a. Synopsis of syngnathine pipefishes usually referred to the genus *Ichthyocampus* Kaup, with description of a new genera and new species. *Bulletin of Marine Science*, 27(4): 595-650.
- Dawson, C.E., 1977b. Review of the pipefish genus *Corythoichthys* with descriptions of three new species. *Copeia*, 2: 295-338.
- Dawson, C.E., 1978. Review of the pipefish genus *Hippichthys* (Syngnathidae). *Proceedings of the Biological Society of Washington*, 91(1): 132-157.
- Dawson, C.E., 1981. Review of the Indo-Pacific pipefish genus *Doryrhamphus* Kaup (Pisces, Syngnathidae), with descriptions of a new species and new subspecies. *Ichthyological Bulletin of the J.L.B. Smith Institute of Ichthyology, Grahamstown, Republic of South Africa*, 44, 27 p.
- Dawson, C.E., 1982a. Review of the Indo-Pacific pipefish genus *Micrognathus* Duncker (Pisces: Syngnathidae), with descriptions of *M. natans*, n. sp. *Proceedings of the Biological Society of Washington*, 95(4): 657-687.
- Dawson, C.E., 1982b. Review of the Indo-Pacific pipefish genus *Stigmatopora* (Syngnathidae). *Records of the Australian Museum*, 34 (12-15), pp.574-601.
- Dawson, C.E., 1983. Synopsis of the Indo-Pacific pipefish genus *Siokunichthys* (Syngnathidae), with description of *S. nigrolineatus* n. sp. *Pacific Science*, 37(1): 49-63.
- Dawson, C.E., 1984a. *Halicampus zavorensis* and *H. marquensis*, new species of pipefishes (Syngnathidae) from Mozambique and the Marquesas Islands. *Ichthyological Bulletin of the J.L.B. Smith Institute of Ichthyology, Grahamstown, Republic of South Africa*, 34, 7 p.
- Dawson, C.E., 1984b. Revision of the genus *Microphis* Kaup (Pisces: Syngnathidae). *Bulletin of Marine Science*, 35(2): 117-181.
- Dawson, C.E., 1985. *Indo-Pacific pipefishes (Red Sea to the Americas)*. Ocean Springs (MS): Gulf Coast Laboratory. 230 p.
- Dawson, C.E. and Randall, J.E., 1975. Notes on Indo-Pacific pipefishes (Pisces : Syngnathidae) with descriptions of two new species. *Proceedings of the Biological Society of Washington*, 88(25): 263-280.
- Debelius, H. and Baensch, H.A., 1994. *Marine atlas*. Melle, Germany: Mergus, Publishers of Natural History and Pet Books, Hans A. Baensch. 1215 p.
- Desbroyères, D. and Segonzac, M., 1997. *Handbook of deep-sea hydrothermal vent fauna*. Brest, France: IFEMER. 280 p.
- De Silva, D.P., 1973. Barracudas (Pisces: Sphyraenidae) of the Indian Ocean and adjacent seas - a preliminary review of their systematics and ecology. *Journal of the Marine Biological Association of India*, 15(1): 74-94.
- Devambeze, L.C., 1964. Tilapia in the South Pacific. *South Pacific Bulletin*, 14(4): 27-28, 52.
- Doherty, O., 2005. *List of fish from Astrolabe*. [Online] Available from: [http://www.pcrf.org/science/Astrolabe/astrolabe\\_fishid.xls](http://www.pcrf.org/science/Astrolabe/astrolabe_fishid.xls). [Accessed 17 December 2009].
- Dunker, G., 1913. Generalindex ay Franz Steindachner Ichthyologischen Mitteilungen, Notizen und Beitragen. *Mitteilungen aus dem Naturhistorischen Museum in Hamburg*, 31: 285-352.
- Dunker, G., 1914. Revision of Syngnathidae. *Mitteilungen aus dem Naturhistorischen Museum in Hamburg*, 32: 9-120.

- Earle, J., 2004. Shark Reef, Fiji, Fish List. [Online] Available at: [http://www.fiji-sharks.com/conservation\\_shark\\_reef\\_fish\\_list.cfm](http://www.fiji-sharks.com/conservation_shark_reef_fish_list.cfm). [Accessed 30 November 2009].
- Ege, V., 1958. *Omosudis* Günther, bathypelagic genus of fish. *Dana Report*, 47, 17 p.
- Ellway, C.P. and Kearney, R.E., 1981. *Changes in the Fijian baitfishery, 1974-1980. Technical report (Skipjack Survey and Assessment Programme)*, 5. Noumea: South Pacific Commission. 24 p.
- Emery, A.R. and Winterbottom, R., 1983. *Lagoonal fish and fisheries of Dravuni, Great Astrolabe Reef, Fiji, South Pacific. Technical Report*. Suva: Institute of Marine Resources, University of the South Pacific. 39 p.
- Eschmeyer, W.N. ed., 1998. *Catalog of fishes. Volumes 1-3*. Special publication of the Centre of Biodiversity Research and Information, 1. San Francisco: California Academy of Sciences. 2905 p.
- FAO, 1990. *SPECIESDAB. The Global Species Database for Fishery Purposes*. A database with information from FAO's species catalogues, distributed by the Food and Agriculture Organisation of the United Nations, Rome (cited in ICLARM's FishBase).
- Fautin D.G. and Allen, G.R., 1992. *Field guide to Anemonefishes and their host sea anemones*. Western Australian Museum. 160 p.
- Fautin, D.G. and Allen, G.R., 1997. *Anemonefishes and their host sea anemones*. Rev. ed. Western Australian Museum. 160 p.
- \*\*Fenner, B., 200?. *The 'freshwater' (brackish to marine) moray eels, Family Muraenidae* [Online] Available at: <http://www.wetwebmedia.com/FWSUBWebIndex/fwmorayeels.htm>. [Accessed 17 December 2009].
- Fiji Post. 1995. Fishermen catch rare tuna species. 5 December, 1995, p. 5
- Fiji Times. 1957. Introduction of freshwater fish into Fiji. 23 January, 1957, 1(228): p. 2
- Fiji Times. 1960. Hook, Line and Sinker by Rob Wright. 5 November, 1960, 6(1479): p. 11
- Fiji Times. 1964. Hook, Line and Sinker by Rob Wright. Life of a groper. 21 March, 1964, 8(2508): p. 11
- Fiji Times. 1966a. Hook, Line and Sinker by Rob Wright. Fresh water game fish not at home in Fiji rivers. 9 July, 1966, 9(3151): p. 11
- Fiji Times. 1966b. Hook, Line and Sinker by Rob Wright. History in Fiji waters as 345lb mako shark is caught. 12 November, 1966, 9(3286): p. 11
- Fiji Times. 1970a. A refreshing book for anyone interested in life outdoors. With Hook Line and Snorkel in the South Pacific, by Rob Wright. 10 January, 1970, 106: p. 10
- Fiji Times. 1970b. Hook, Line and Sinker by Rob Wright. Fishing up the facts on trout. 14 November, 1970, 369: p. 10
- Fiji Times. 1971a. Hook, Line and Sinker by Rob Wright. 470 lb 'blue' was in a real jam: Shipping idea supported. 21 August, 1971, 606: p. 10
- Fiji Times. 1971b. 2 October, 1971, Hook, Line and Sinker by Rob Wright. They are not following the rules. 642: p. 10
- Fiji Times. 1972a. Hook, Line and Sinker by Rob Wright. Identifying deepwater fish is quite a problem. 3 June, 1972, 850: p. 10
- Fiji Times. 1972b. Hook, Line and Sinker by Rob Wright. The day a tiger shark was landed at Suva wharf: Best yellowtail catch claimed. 22 July, 1972, 892: p. 10
- Fiji Times. 1972c. Hook, Line and Sinker by Rob Wright. An encounter with one of nature's little jokes. 23 December, 1972, 1024: p. 10
- Fiji Times. 1974. 23 May, 1974, 1362: p. 4. A 'devil fish' comes to grief.
- Fiji Philatelic Bureau (various years). Fish Stamps.
- Fischer, W., 1978. *FAO species identification sheets for fishery purposes. West Atlantic (Fishing area 31). Volumes 1-7*. Rome: FAO, pag. var.
- Fischer, W. and Whithead, P.J.P., 1974. *FAO species identification sheets for fishery purposes. Eastern Indian Ocean (Fishing Area 57) and Western Central Pacific (Fishing Area 71). Volumes 1-4*. Rome: FAO, pag. var.
- FishBase, 1996. *FishBase: A Global Information System on Fishes*. [Online] Available at: <http://www.fishbase.org>. [Accessed 10 June 1996].
- Fourmanoir, P., 1982. Repartition géographique de quelques poissons de la pente récifale externe des îles Indo-Pacifiques. *Cybiurn* 6(3): 91-96.
- Fowler, H.W., 1907-1908. A collection of fishes from Victoria, Australia. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 59(3): 419-444.
- Fowler, H.W., 1921. Notes on Hemibranchiate and Lophobranchiate fishes. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 73(3): 437-448.
- Fowler, H.W., 1927. Fishes of the tropical central Pacific. *B.P. Bishop Museum Bulletin*, 38: 1-32.
- Fowler, H.W., 1928. The Fishes of Oceania. *Memoirs of the B.P. Bishop Museum*, 10, 540 p.
- Fowler, H.W., 1929(30). The fresh-water fishes obtained by the Gray African Expedition 1929. With notes on other species in

- the Academy collection. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 82: 27-83.
- Fowler, H.W., 1930. *A list of the sharks and rays of the Pacific Ocean: Proceedings of the 4th Pacific Science Congress, Java, 1929*. Volume 3: 481-508.
- Fowler, H.W., 1931. The fishes of Oceania. Supplement 1. *Memoirs of the B.P. Bishop Museum*, 10(5): 313-381.
- Fowler, H.W., 1932. Fishes obtained at Fiji in 1929. *Occasional Papers of the B.P. Bishop Museum*, 9(20), 13 p.
- Fowler, H.W., 1933. Contributions to the biology of the Philippine Archipelago and adjacent regions. The fishes of the families Banjosidae, Lethrinidae, Sparidae, Girellidae, Kyphosidae, Oplegnathidae, Gerreidae, Mullidae, Emmelichthidae, Sciaenidae, Sillaganinidae, Arripidae, and Enoplosidae collected by the United States Bureau of Fisheries steamer 'Albatross' chiefly in Philippines Seas and adjacent waters. *Bulletin of the United States National Museum*, 100(12), 465 p.
- Fowler, H.W., 1934. The fishes of Oceania. Supplement 2. *Memoirs of the B.P. Bishop Museum*, 10(6): 385-466.
- Fowler, H.W., 1940a. The fishes obtained by the Wilkes Expedition. *Proceedings of the American Philosophical Society*, 82(5): 733-800.
- \*\*Fowler, H.W., 1940b. *Bulletin of the United States National Museum*, 100(13), p.537.
- Fowler, H.W., 1941. Contributions to the biology of the Philippine Archipelago and adjacent regions. the fishes of the groups Elasmobranchii, Holocephali, Isospondyli, and Ostarophsi obtained by the United States Bureau of Fisheries steamer 'Albatross' in 1907 and 1910, chiefly in the Philippine Islands and adjacent seas. *Bulletin of the United States National Museum*, 100(13), 879 p.
- Fowler, H.W., 1943. Description of a new goby from the Fiji Islands. *Notulae Notional Academy of Natural Science Philadelphia*, 115: 1-3.
- Fowler, H.W., 1949. The fishes of Oceania. Supplement 3. *Memoirs of the B.P. Bishop Museum*, 12(2): 37-186.
- Fowler, H.W., 1953. Two new gobioid fishes from Oceania. *Transactions of the Royal Society of New Zealand*, 81(3): 385-388.
- Fowler, H.W., 1955a. A collection of coral-reef fishes made by Dr. and Mrs. Laird at Fiji. *Transactions of the Royal Society of New Zealand*, 83 (2): 373-381.
- Fowler, H.W., 1955b. Archaeological fishbones collected by E. W. Gifford in Fiji. *B.P. Bishop Museum Bulletin*, 214, 25 p.
- Fowler, H.W., 1959. *Fishes of Fiji*. Suva: Government of Fiji. 670 p.
- Fowler, H.W. and Bean, B.A., 1923. Descriptions of eighteen new species of fishes from the Wilkes Exploring Expedition preserved in the United States National Museum. *Proceedings of the United States National Museum*, 63(19), 27 p.
- Fowler, H.W. and Bean, B.A., 1928. Contributions to the biology of the Philippines Archipelago and adjacent regions. The fishes of the families Pomacentridae, Labridae, and Callyodontidae, collected by the United States Bureau of Fisheries steamer 'Albatross' chiefly in Philippines seas and adjacent seas. *Bulletin of the United States National Museum*, 100(7), 525 p.
- Fowler, H.W. and Bean, B.A., 1929. Contributions to the biology of the Philippine Archipelago and adjacent regions. The fishes of the series Caprifformes, Ephippiformes, and Squamipennes, collected by the United States Bureau of Fisheries steamer 'Albatross' chiefly in Philippine seas and adjacent seas. *Bulletin of the United States National Museum*, 100(8), 352 p.
- Fraser, T.H., 1972. Comparative osteology of the shallow water cardinal fishes (Perciformes: Apogonidae) with reference to the systematics and evolution of the family. *Bulletin of the J.L.B. Smith Institute of Ichthyology, Grahamstown, Republic of South Africa*, 34, 105 p.
- Fraser, T.H. and Lachner, E.A., 1985. A revision of the cardinal fish subgenera *Pristiapogon* and *Zoramia* (genus *Apogon*) of the Indo-Pacific region (Teleostei: Apogonidae). *Smithsonian Contributions to Zoology*, 412, 47 p.
- Fraser, T.H. and Allen, G.R., 2006. A new species of *Neamia* (Perciformes: Apogonidae) from the Pacific Ocean. *Memoirs of the Museum of Victoria*, 63(1): 1-5.
- Fraser-Brunner, A., 1933. A revision of the chaetodont fishes of the subfamily Pomacanthinae. *Proceedings of the Zoological Society of London*, 3: 543-599.
- Fricke, R., 1981. Revision of the genus *Synchiropus*. *Thesis Zoologicae*, 1, 194 p.
- Fricke, R., 1983. Revision of the Indo-Pacific genera and species of the dragonet family Callionymidae (Teleostei). *Thesis Zoologicae*, 3, 774 p.
- Fricke, R., 1990. A new and a rare species of dragonet (Teleostei: Callionymidae) from New Guinea and the Solomon Islands. *Stuttgarter Beiträge zur Naturkunde serie A (Biologie)*, 446, 13 p.
- Fritzsche, R.A. 1976. A review of the cornetfish genus *Fistularia* (Fistulariidae), with a discussion of intergeneric relationships and zoogeography. *Bulletin of Marine Science*, 26(2), pp.196-204.
- Froese, R. and Paulay, D., eds., 2000. Fishbase: concepts, design and data sources. *ICLARM Contribution*, 1594, 344 p.
- Garman, S., 1903. Some fishes from Australia. *Bulletin of the Museum of Comparative Zoology, Harvard*, 39(8): 229-241.
- Garman, S., 1913. The Plagiostomia (sharks, skates, and rays). 2 vols. *Memoirs of the Museum of Comparative Zoology, Harvard*, 36, 515 p.



- Garnett, L.F., 1954. Fish in Fiji. *The Transactions and Proceedings of the Fiji Society* 1938-1954, 1(1), (1938/9), pp.34-36. Notes: Title in Content pages 'Some fishes of Fiji'. Read before the Fijian Society in 1938.
- Garrick, J.A.F., 1982. Sharks of the genus *Carcharhinus*. *NOAA Technical Reports, National Marine Fisheries Service Circular*, 445, 194 p.
- Gawel, M., 1973/4. *A provisional key to the families of Fijian fishes*. Suva: University of the South Pacific. 60p. [Mimeogr.]
- Gawel, M., and Seeto, J., 1982. *Limited marine investigations at the Fijian Hotel, Yanuca Island*. Suva: Institute of Marine Resources, The University of the South Pacific. 18 p.
- Gawel, M. and Woodland, D.J. 1974. *Siganus (Lo) uspi*, a new species from Fiji; and a comparison with nominal species *S. vulpinus* and *S. unimaculatus*. *Copeia* 4: 855-861.
- Gifford, E.W., 1951. Archaeological excavations in Fiji. *University of California Anthropological Records*. 13(3): 189-288.
- Gillett, R., 1989. *Annotated bibliography of flying fish reference relevant to the Pacific Islands*. Suva: FAO/UNDP. 9 p.
- Godsil, H.C. and Greenwood, E.C., 1951. A comparison of the populations of yellowfin tuna, *Neothunnus macropterus*, from the eastern and central Pacific. *Fish Bulletin. California Department of Fish and Game*. 82: 33p.
- Gon, O., 1993. Revision of the cardinalfish genus *Cheilodipterus* (Perciformes: Apogonidae) with description of five new species. *Indo-Pacific Fishes*. 22: 59p.
- Gon, O. and Randall, R., 2003. Revision of the Indo-Pacific cardinalfish genus *Archamia* (Perciformes: Apogonidae) with descriptions of a new species. *Indo-Pacific Fishes*. 35: 49p., 3 pls.
- Gosline, W.A., 1958. Central Pacific eels of the genus *Uropterygius*, with descriptions of two new species. *Pacific Science*. 12(3): 221-228.
- \*\*Gray, A., 1859. Descrip. Cat. Specimens. Royal College of Surgeons. p.21. [Cited in Fowler, 1959. Fishes of Fiji. p.342 & p.495, on *Percis cancellata*.]
- Greenberg, I., Greenberg, S. and Greenberg, J., 1985. *Fishwatcher's field guide. Fiji Islands*. Seahawk Press. 2 p.
- Greenfield, D.W., 1974. A revision of the squirrelfish genus *Myripristis* Cuvier (Pisces: Holocentridae). *Natural History Museum of Los Angeles County, Science Bulletin*, 19, 54 p.
- Greenfield, D.W. and Matsuura, K., 2002. *Scorpaenodes quadrispinosus*: A new Indo-Pacific scorpionfish (Teleostei: Scorpaenidae). *Copeia*, 4: 973-978.
- Greenfield, D.W. and Niesz, S., 2004. *Gorgasia thamani*, a new species of garden eel from Fiji (Teleostei: Congridae: Heterocongrinae). *Proceedings of the Californian Academy of Sciences*, 55(17): 373-376.
- Greenfield, D.W. & Longenecker, K.R., 2005. *Vanderhorstia bella*, a new goby from Fiji (Teleostei: Gobiidae). *Proceedings of the California Academy of Sciences*, 56: 619-623.
- Guinea, M. and Jaensch, R., 1999. *Freshwater fishes of Fiji*. Paper from a Workshop on Introduction to Ecology and Management of Mangroves and Freshwater Wetlands, USP, Suva, Fiji, 6-10 December, 1999.
- Gundermann, N., Popper, D.M. and Lichatowich, T., 1983. Biology and life cycle of *Siganus vermiculatus* (Siganidae, Pisces). *Pacific Science*, 37(2): 165-179.
- Günther, A., 1859-1870. *Catalog of the fishes of the British Museum, Volumes 1-8*. London, var. pag.
- Günther, A., 1871. Report on several collections of fishes recently obtained for the British Museum. *Proceedings of the Zoological Society of London*, pp.652-675.
- Günther, A., 1873-1910. Andrew Garrett's fische der Sudsee. *Journal des Museum Godeffroy*, Volumes 1-9, 515 p.
- \*\*Günther, A. 1874., *Journal des Museum Godeffroy*, 2/3(pt.5-6), p.31. [Cited in Fowler, 1959. Fishes of Fiji, p.248].
- \*\*Günther, A., 1876. Ostindischen Archipels, Fidschi and Pelew Inseln, Schiffer Inseln, Gesellschafts Inseln. [Cited in Cantwell, p.268, under *Platycephalus clathrata*].
- Günther, A., 1878. Preliminary notices of deep-sea fishes collected during the voyage of H.M.S. Challenger. *Annals and Magazine of Natural History*, 5(2), p.26.
- Günther, A., 1880. *Report on the shore fishes procured during the voyage of H.M.S. Challenger in the years 1873-1876*. In: *Report on the Scientific Results of the Voyage of H. M. S. 'Challenger' during the Years 1873-76 under the Command of Captain George S. Nares, R.N., F.R.S. and the Late Captain Frank Tourle Thomson, R.N.*, *Zoology*, 1(6), 82 p., pls. 1-32.
- Günther, A., 1887. *Report on the deep-sea fishes collected by H. M. S. Challenger during the years 1873-76*. In: *Report on the Scientific Results of the Voyage of H. M. S. 'Challenger' during the Years 1873-76 under the Command of Captain George S. Nares, R.N., F.R.S. and the Late Captain Frank Tourle Thomson, R.N.* v. 22(57), 268 p., pls. 1-73.
- Günther, A., 1889. *Report on the pelagic fishes collected by H.M.S. Challenger during the years 1873-76*. In: *Report on the Scientific Results of the Voyage of H. M. S. 'Challenger' during the Years 1873-76 under the Command of Captain George S. Nares, R.N., F.R.S. and the Late Captain Frank Tourle Thomson, R.N.*, 31(78), 47 p, pls. 1-23.
- Gushiken, S., 1983. A revision of the carangid fishes of Japan. *Galaxea*, 2(2): 135- 264.

- Hall, H.T.B., 1949. Fish culture in ponds. *Fiji Agricultural Journal*, 20(2): 58-60.
- Halstead, B.W., 1967. *Poisonous and venomous marine animals of the world. Volume 2, Vertebrates*. Washington D.C.: U.S. Government Printing Office. 1070 p.
- Hansen, P.E.H., 1986. Revision of the tripterygiid fish genus *Helcogramma*, including descriptions of four new species. *Bulletin of Marine Science*, 38(2): 313 - 354.
- Hayasaka, S., Raj, U. and Shinomiya, A., 1984. *Preliminary field study on the habitat of Nautilus pompilius in the environs of Viti Levu, Fiji. Report 3 of the first scientific survey of the South Pacific*. Published jointly by the Institute of Marine Resources, University of the South Pacific & Research Centre for the South Pacific, Kagoshima University, Japan. pp.76-83.
- Heemstra, P.C., and Randall, J.E., 1993. *FAO species catalogue. Vol. 16. Groupers of the world (Family Serranidae, Subfamily Epinephelinae): an annotated and illustrated catalogue of the grouper, rockcod, hind, coral grouper and lyretail species known to date. FAO Fisheries Synopsis*, 125(16). Rome: FAO. 1993. 382 p., 522 figs, 31 colour plates.
- Herre, A.W.C.T., 1927. Gobies of the Philippine and China Sea. *Monograph of the Bureau of Science, Manila*, 23: 15-352.
- Herre, A.W.C.T., 1935. New fishes obtained by the Crane Pacific Expedition. *Field Museum of Natural History*, 335. *Zoological Series*, 18(12): 383-438.
- Herre, A.W.C.T., 1936a. Some habits of *Amphiprion* in relation to sea anemones. *Copeia*, 3: 167-168.
- Herre, A.W.C.T., 1936b. Fishes of the Crane Pacific Expedition. *Field Museum of Natural History*, 353, *Zoological Series*, 21(353), 427 p.
- Herre, A.W.C.T., 1953. Check list of Philippine fishes. *Research Report. Fish and Wildlife Service, U.S. Department of the Interior*, 20, 977 p.
- Herre, A.W.C.T. and Montalban, H.R., 1928. The Philippine siganids. *The Philippine Journal of Science*, 35: 151-184.
- Hoese, D.F. and Fourmanoir, P., 1978. *Discordipinna griessinger*, a new genus and species of gobiid fish from the tropical Indo-West Pacific. *Japanese Journal of Ichthyology*, 25(1): 19-24.
- Hoese, D.F. and Larson, H.K., 1994. Revision of the Indo-Pacific gobiid fish genus *Valenciennea*, with descriptions of seven new species. *Indo-Pacific Fishes*, 23, 71 pp.
- Hoese, D.F. and Reader, S., 1985. A new gobiid fish, *Fusigobius duospilus*, from the tropical Indo-Pacific. *Ichthyological Bulletin of the J.L.B. Smith Institute of Ichthyology, Grahamstown, Republic of South Africa*, 36, 9 p.
- Hornell, J., 1940. *Report on the fisheries of Fiji*. Suva: Government Printers. 87 p.
- Hornell, J., 1950. *Fishing in many waters*. Cambridge University Press. 210 p.
- Active Window Productions, 1993-2009. FINS: The Fish Information Service. Fish Index. [Online] Available at: <http://fins.actwin.com/species/index.php?i=9&i=3>. [Accessed 02 December 2009].
- \*\*Museum Victoria, ND. Natural Sciences Collections. *Pristis Pristiformes: Pristidae, Fiji*. [Online] Available at <http://collectins.museumvictoria.com.au/object.php?irn=101322&QueryPage>. [Accessed 02 December 2009].
- Hutchins, J.B., 1986. Review of the monacanthid fish genus *Pervagor*, with descriptions of two new species. *Indo-Pacific Fishes*, 12, 35 p.
- Hutchins, J.B., Matsuura, K., 1984. Description of a new monacanthid fish of the genus *Thamnaconus* from Fiji. *Records of the Western Australia Museum*, 11(4): 387-391.
- Inger, R.F., 1955. A revision of the fishes of the genus *Plesiops* Cuvier. *Pacific Science*, 9(3): 259-276.
- Inia, E.K. et al., 1998. *A new Rotuman dictionary (including C. Maxwell Churchward's Rotuma-English dictionary of 1940)*. Suva: Institute of Pacific Studies, USP. 363 p.
- Iwasawa, T., 1982. *The fisheries of Fiji*. Honolulu (HI): National Marine Fisheries Service. 10 p. (Translation No. 69, translated from the Japanese by Tamio Otsu, Japan Marine Fishery Resources Research Center, 22).
- Jack, H.W., 1939. Introduction of trout into Fiji. *Fiji Agricultural Journal*, 10(4): 2-5.
- Jansen, A.A.J., Parkinson, S. and Robertson, A.F.S. eds., 1990. *Food and nutrition in Fiji: a historical review. Volume 1*. Suva: Published jointly by the Dept. of Nutrition and Dietetics, Fiji School of Medicine and the Institute of Pacific Studies of the University of the South Pacific. 479 p.
- Jenkins, A.P., 2003. *A preliminary investigation of priority ichthyofaunal area for assessing representation in Fiji's network of forest reserves*. Technical Report to the Wildlife Conservation Society. 37 p.
- \*\*Jenkins, A., 2009 *Freshwater fishes of Fiji*. [Online] Available at: <http://www.ntu.edu.au/ctwm/courses/course14/materials/Aaron%20jenkins%20freshwater%20fishes%20of%20Fiji%20table.doc>. [Accessed 2007]. No longer available
- Jenkins, A., and Boseto, D., 2005. *Schismatogobius vitiensis*, a new freshwater goby (Teleostei: Gobiidae) from the Fiji Islands. *Ichthyological Exploration of Freshwaters*, 16(1): 75-82.

- Jennings, S. and Polunin, N.V.C., 1996. Effects of fishing effort and catch rate upon the structure and biomass of Fijian reef communities. *Journal of Applied Ecology*, 33: 400-412.
- Jensen, J. and Harlen, L., 2007. *Marine life of Fiji and Tonga: a video identification guide*. [s.l.]: Undersea Productions, DVD.
- JICA, 1987. *The fisheries resources survey in Fiji and Tuvalu. 2 Volumes. Report and Figures and Tables*. Japan: Japan International Cooperation Agency. 110 p., 3 annexes.
- Johnson, G.D., Seeto, J. and Rosenblatt, R.H., 2001. *Parmops echinatus*, a new species of flashlight fish (Beryciformes: Anomalopidae) from Fiji. *Proceedings of the Biological Society of Washington*, 114(2): 497-500.
- Jones, G., 1985. Revision of the Australian species of the fish Leiognathidae. *Australian Journal of Marine & Freshwater Research*, 36: 559-613.
- Jones, S., and Kumaran, M., 1962. *Distribution of larval billfishes (Xiphiidae and Istiophoridae) in the Indo-Pacific with special references to the collections made by the Danish Dana Expeditions*. In: *Symposium on Scombroid fishes. Part I*. Marine Biological Association of India, pp.483-498.
- Jones, S. and Kumaran, M., 1980. *Fishes of the Laccadive Archipelago*. Kerala, India: Nature Conservation and Aquatic Science Service. 760 p.
- Jordan, D.S. and Dickerson, M.C. 1908. On a collection of fishes from Fiji, with notes on certain Hawaiian fishes. *Proceedings of the United States National Museum*, 34(1625): 603-617.
- Jordan, D.S. and Seale, A., 1906. The fishes of Samoa: descriptions of species found in the archipelago with a provisional checklist of the fishes of Oceania. *Bulletin of the United States Bureau of Fisheries*, 1905, 25, pp.175-455.
- Jordan, D.S., Tanaka, S., and Snyder, J.O., 1913. A catalog of the fishes of Japan. *The Journal of the College of Science, Imperial University of Tokyo, Japan*, 33, 497 p.
- Kailola, P.J., 1974. Additions to the fish fauna of Papua New Guinea – II. Eels and III. *Research Bulletin (Department of Agriculture, Stock and Fisheries, Papua New Guinea)*, 12, 89 p.
- Kanazawa, R.H., 1958. A revision of the eels of the genus *Conger* with descriptions of four new species. *Proceedings of the United States National Museum*, 108 (3400): 219-267.
- Katayama, M., 1960. Fauna Japonica. Serranidae (Pisces). Biogeographical Society of Japan held at the National Science Museum. 189 p.
- Kearney, R.E., 1978. *Interim Report of the Activities of the Skipjack Survey and Assessment Programme in the waters of Fiji (26 January - 18 February, 28 March - 10 April, 1978)*. Skipjack Survey and Assessment Programme, Preliminary Country Report, 5. Noumea: South Pacific Commission. 43 p.
- Kearney, R.E., 1982. *An assessment of the skipjack and baitfish resources of Fiji. Skipjack Survey and Assessment Programme. Final Country Report*, 1. Noumea: South Pacific Commission. 43 p.
- Kennington, W., 1992. Eye reduction in 3 species of burrowing gobies. *South Pacific Journal of Natural Science*, 12: 21-31.
- Kendall, W.C. and Goldsborough, E.L., 1911. *The shore fishes*. In: *Reports on the scientific results of the expedition to the tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish Commission steamer 'Albatross' from August, 1899, to March, 1900. Memoirs of the Museum of Comparative Zoology, at Harvard College*, 26(7): 241-337.
- King, M.G. and Stone, R.M., 1982. Commercial fisheries in the Western Pacific. In: P. Helfrich, ed. *Proceedings of the Seminar/Workshop on Utilizing and Management of Inshore Marine Ecosystems of the Tropical Pacific Islands*, November 24-30, 1979. Sea Grant Cooperative Report, UNIHI-SG-CR-82-02, pp.72-84.
- \*\*Kner, R., 1867. *Sitzungsberichte der Kaiserliche Akademie der Wissenschaften in Wien*, 56, p.278.
- \*\*Kner, R., 1867-1868. *Sitzungsberichte der Kaiserliche Akademie der Wissenschaften in Wien*, 27. [Cited in Jordan & Seale, 1906].
- Kner, R., 1868. IV Folge neuer Fische aus dem Museum der Herren Joh. Cäs. Godeffroy und Sohn in Hamburg. *Sitzungsberichte der Kaiserliche Akademie der Wissenschaften in Wien*, 58, 64 p., 9 pls.
- Kunatuba, P., 1982a. *Preliminary assessment of subsistence and commercial fisheries in Verata waters. Technical Report*, Suva: Institute of Marine Resources, University of the South Pacific. 14 p.
- Kunatuba, P., 1982b. *Preliminary assessment of subsistence and commercial fisheries in Nadi waters. Technical Report*, Suva: Institute of Marine Resources, University of the South Pacific. 16 p.
- Kuiter, R., 2000. *Seahorse. Pipefishes and their relatives*. Chorleywoo: TMC Publishing. 240 p.
- Kuiter, R. and Debelius, H., 2006. *World atlas of marine fishes*. Frankfurt: IKAN-Unterwasserarchiv. 720 p.
- Kuiter, R.H. and Debelius, H., 1997. *Southeast Asia tropical fish guide*. Frankfurt: IKAN-Unterwasserarchiv. 321 p.
- Lachner, E.A., 1951. Studies on certain apogonid fishes from the Indo-Pacific, with descriptions of three new species. *Proceedings of the United States National Museum*, 101(3290): 581-610.
- Lachner, E.A., 1954. A revision of the goatfish genus *Upeneus* with descriptions of two new species. *Proceedings of the United States National Museum*, 103(3330): 497-532.
- Lachner, E.A. and Karnella, S.J., 1980. Fishes of the Indo-Pacific genus *Eviota* with descriptions of eight new species (Teleostei: Gobiidae). *Smithsonian Contributions to Zoology*, 315, 127 p.
- Lachner, E.A. and McKinney, J.F., 1979. Two new gobiid fishes of

- the genus *Gobiopsis* and a redescription of *Feia nympha* Smith. *Smithsonian Contributions to Zoology*, 299, 18 p.
- Ladd, H.S., 1934. Geology of Viti Levu, Fiji. *B.P. Bishop Museum Bulletin*, 119, 263 p.
- Ladd, H.S. and Hoffmeister, J.E., 1945. Geology of Lau, Fiji. *B.P. Bishop Museum Bulletin*, 181, pp.350-385.
- Laird, M., 1956. Studies of mosquitoes and freshwater ecology in the South Pacific. *Bulletin. The Royal Society of New Zealand*, 6, 213 p.
- Lal, P.N., 1984. Coastal fisheries and the management of mangrove resources in Fiji. *SPC Fisheries Newsletter, Noumea, New Caledonia*, 31: 15-23.
- Lal, P.N., Swamy, K. and Singh, P., 1983. *Mangroves and secondary productivity: Fisheries associated with mangroves in Wairiki Creek, Fiji*. 15th. Pacific Science Congress, Dunedin, New Zealand, February 1-11, 1983, pp.13-31.
- \*\*Larry Ulrich Stock Photography, 200?. *Underwater location list: Fiji*. [Online] Available at: <http://www.larryulrich.com/uwlocationlist.html>. [Accessed 15 December 2009].
- Last, P.R. and Stevens, J.D., 1994. *Sharks and rays of Australia*, Melbourne: CSIRO. 513 p., 84 pls.
- Le Danois, Y., 1964. Étude anatomique et systématique des Antennaires, de l'Ordre des Pédiculates. *Mémoires du Muséum National d'Histoire Naturelle, Paris, nouvelle série, Série A, Zoologie*, 31 (1), 162 p.
- Lee, R., 1973. Live bait research, skipjack tuna fishery project in Fiji. *SPC Newsletter, Noumea, New Caledonia*, 9, pp.26-31.
- Leis, J.M., 1986. Larval development in four species of Indo-Pacific coral trout *Plectropomus* (Pisces: Serranidae: Pinephelinae) with an analysis of the relationships of the genus. *Bulletin of Marine Science*, 38(3): 525-552.
- Lewis, A.D., 1981. *Population genetics, ecology and systematics of Indo-Australian scombrid fishes with particular reference to skipjack tuna*. Ph.D. Canberra: Australian National University. 314 p.
- Lewis, A.D., 1983. *Mangrove as a nutrient and coastal fisheries*. In: P.N., Lal, ed. *Mangrove Resource Management: Proceedings of an Interdepartmental Workshop held on 24th, February, 1983 at MAF Headquarters Conference Room. Technical Report, 5*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries, pp.11-31.
- Lewis, A.D., 1984. *Food fishes of Fiji*. Suva: Fisheries Division, Ministry of Primary Industries. 1 poster, col., 99x69 cm.
- Lewis, A.D., 1985a. *Fishery resources profiles: information for development planning*. Suva: Fisheries Division, Ministry of Primary Industries. 90 p.
- Lewis, A.D., 1985b. *Food fishes of Fiji - II*. Suva: Fisheries Division, Ministry of Primary Industries. 1 poster, col., 99x69 cm.
- Lewis, A.D., 1988. *Fisheries for large coastal pelagics in Fiji*. In: *South Pacific Commission Workshop on Inshore Fishery Resources. Background Paper 17*. Noumea: South Pacific Commission. 13p.
- \*\*Lewis, A.D., ND. *Photographs of Fiji fishes pasted on the wall of Fiji Fisheries Division, Lami, Fiji*. Estimated to be taken in 1994 onwards.
- Lewis, A.D. and Hogan, A.E., 1987. The Enigmatic jungle perch - recent research provide some answers. *South Pacific Commission Newsletter*, 40, pp.22-31.
- Lewis, A.D. and Pring, C.K., 1986. *Freshwater and brackishwater fish and fisheries of Fiji. Country review prepared for the expert consultation on inland fisheries of the larger Indo-Pacific Islands*, Bangkok, Thailand, 4-9th August, 1986. s.l., s.n. 13 p, 7 figs, 7 tables.
- Lewis, A.D., Chapman, L.B. and Sesewa, S., 1983a. *Biological notes on coastal pelagic fishes in Fiji. Technical Report, 4*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 68 p.
- Lewis, A.D., Sharma, S., Prakash, J. and Tikomainiusiladi, B., 1983b. The Fiji baitfishery 1981-82, with notes on the biology of the gold spot herring *Herklotsichthys punctatus* (Clupeidae), and the blue sprat, *Spratelloides delicatulus* (Dussumieridae). *Technical Report, 6*. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 50 p.
- Lewis, A.D., Smith, B.R. and Ellway, C.P., 1983c. *A guide to the common tuna baitfishes of the South Pacific Commission Area. Handbook 23*. Noumea: South Pacific Commission. 83 p.
- \*\*Lindsey, C.C., 1972. *Fisheries training in the region served by the University of the South Pacific*. Suva: The University of the South Pacific, 22 p.
- Lubbock, R. and Polunin, N.V.C., 1977. Notes on the Indo-Pacific genus *Ctenogobiops* (Teleostei: Gobiidae), with descriptions of three new species. *Revue Suisse de Zoologie*, 84 (2): 505-514.
- MacDonald, J.C. 1869. On the characters of a type of a proposed new genus of Mugilidae inhabiting the freshwaters of Viti Levu, Feejee group: with a brief account of the native mode of capturing it. *Proceedings of the Zoological Society of London*, 1, pp.38-40.
- Mahaney, C. and Mahaney, A.W., 2000. *Diving and snorkelling Fiji*. Hawthorn: Lonely Planet Publications. 141 p.
- Mark Conlin photography, 2003. *Fiji's coral reefs* [Online] Available at: <http://www.markconlin.com/recentwork/fiji/fiji6.html>. [Accessed 14 December 2009].
- Masuda, S., et al. eds., 1984. *The fishes of the Japanese Archipelago*. Tokyo: Tokai University Press. 437 p.
- Masuda, S., Ozawa, T. and Tabeta, O., 1985. *Bregmaceros neonectabanus*, a new species of the family Bregmacerotidae,

- Gadiformes. *Japanese Journal of Ichthyology*, 32(4): 392-399.
- Matsui, T., 1967. Review of the mackerel genera *Scomber* and *Rastrelliger* with description of a new species of *Rastrelliger*. *Copeia*, 1, pp.71-83.
- Matsuya, N., 1990. *Explanation for Fiji fishes*. Suva: Fisheries Division. 16 p. [Unpublished report]
- McCosker, J.E., and Randall, J.E., 2001. Revision of the snake-eel genus *Brachysomophis* (Anguilliformes: Ophichthidae), with descriptions of two new species and comments on the species of *Mystriophis*. *Indo-Pacific Fishes*, 33, 32 p.
- McCosker, J.E., Boseto, D., and Jenkins, A., 2007. Redescription of *Yirrkala gjellerupi*, a poorly known freshwater Indo-Pacific snake eel (Anguilliformes: Ophichthidae). *Pacific Science*, (61): 141-144.
- McCulloch, A.R., 1915. *Report on some fishes obtained by the F.I.S. Endeavour on the coasts of Queensland, New South Wales, Victoria, Tasmania, south and southwestern Australia*. In: *Biological results of fishing experiments carried on by F.I.S. Endeavour, 1909-14. Volume 3*. Sydney: Australia Department of Trade and Customs, pp.97-170.
- McCulloch, A.R., 1923. Notes on fishes from Australia and Lord Howe Island. *Records of the Australian Museum*, 14(1): 1-17.
- McCulloch, A.R. and Ogilby, J.D., 1919. Some Australian fishes of the family Gobiidae. *Records of the Australian Museum*, 12(10): 93-291.
- \*\*McHugh, J.J., 1925. River fishing in Fiji. In: *The colony of Fiji, 1874-1924*. Suva: Government Printers.
- McKinney, J.F., 1976. Four new species of the fish genus *Ecsenius* with notes on other species of the genus (Blenniidae: Salariaiini). *Smithsonian Contributions to Botany*, 236, 27 p.
- Mead, G.W., 1972. Bramidae. *Dana Report*, 81, 166 p.
- Mead, P., 1980. *Report on the visit of the South Pacific Commission Deep Sea Fisheries Development Project to Fiji, 8 November - 13 December 1979 and 13 March - 1 September 1980*. Noumea: South Pacific Commission. 22 p.
- Milton, D.A., Rawlinson, N.J.F., and Sesewa, A., 1993. *Species composition and community structure of tuna baitfish populations in Fiji*. In: S.J.M. Blaber, D.A. Milton, and N.J.F. Rawlinson, eds. *Tuna baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings*, 52: 92-101
- Mitchell, C.P., 1978. *Report on two assignments to Fiji under the New Zealand Aid programme*. Suva: Ministry of Agriculture and Fisheries. 3 p. [Unpublished report].
- Mitchell, C.P., 1979. *Report on the status of the Fiji Grass carp project*. Suva: Ministry of Agriculture and Fisheries, Fiji. 15 p. [Unpublished report]
- Monterey Bay Aquarium Research Institute, 2007 *Fiji/Lau Expedition May 15–June 3, 2005. Ratfish photo* [Online] Available at: [http://www.mbari.org/expeditions/FijiLau/images/A\\_rat\\_fish.jpg](http://www.mbari.org/expeditions/FijiLau/images/A_rat_fish.jpg). [Accessed 14 December 2009].
- Mooi, R.D., 1995. Revision, phylogeny, and discussion of biology and biogeography of the fish genus *Plesiops* (Perciformes: Plesiopidae). *Royal Ontario Museum Life Sciences Contributions*, 159: 1-107.
- Morgans, J.F.C., 1982. Serranid fishes of Tanzania and Kenya. *Ichthyological Bulletin, Rhodes University*, 47, 44 p.
- Morrison, R.J. and Naqasima, M.R. eds., 1992. *Fiji's Great Astrolabe Reef and Lagoon: A Baseline Study. Environmental Studies Report, Institute of Natural Resources, The University of the South Pacific*, 56, 150 p. Appendix 6.2.
- Morton, J. and Raj, U. 1979. *The shore ecology of Suva and south Viti Levu*. 1st ed. Suva: Institute of Marine Resources, The University of the South Pacific. [Unpublished text]
- Mukhacheva, V. A., 1966. *The composition of species of the genus Cyclothone (Pisces: Gonostomidae) in the Pacific Ocean*. In: T.S. Rass, ed. *Fishes of the Pacific and Indian Ocean. Biology and distribution. Transactions of the Institute of Oceanology. USSR Academy of Sciences, pp.98-146*. (English translation).
- Munro, I.S.R., 1967. *The fishes of New Guinea*. Department of Agriculture, Stock and Fish, Port Moresby, New Guinea. 650 p.
- Munch-Petersen, S., 1983. *On the growth and mortality of the blue sprat, Spratelloides delicatulus in Fijian waters. Technical Report*. Suva: Institute of Marine Resources, The University of the South Pacific. 22 p.
- Murdy, E.O., 1985. A review of the gobiid fish genera *Exyrias* and *Macrodontogobius*, with description of a new species of *Exyrias*. *Indo-Pacific Fishes*, 10, 14 p.
- Murdy, E.O., 2002. *Karsten: A new genus of eel goby (Gobiidae: Amblyopinae) with a key to 'Trypauchen' group genera. Copeia*, 3: 787-791.
- Murdy, E.O. and Hoese, D.F., 1985. Revision of the gobiid fish genus *Istiogobius*. *Indo-Pacific Fishes*, 4, 41 p.
- Myers, R.F., 1991. *Micronesian reef fishes: A practical guide to the identification of the coral reef fishes of the tropical central and western Pacific*. 2nd ed. Guam: A Coral Graphics Production. 298 p.
- Myers, R.F. and Shepard, J.W., 1980. New records of fishes from Guam, with notes on the ichthyofauna of the southern Marianas. *Micronesica*, 16(2): 305-347.
- Nahhas, F.M., Rhodes, D.Y. and Seeto, J., 1997. Digenetic trematodes of marine fishes from Suva, Fiji. Family Haplosporididae Poche, 1926: Description of new species, a review and an update. *Marine Studies Technical Report. The University of the South Pacific*, 97/4, 87 p.

- Nahas, F.M. and Wetzel, J.A., 1995. Digenetic trematodes of marine fishes from Suva, Fiji: The family Gyliuchenidae Ozaki, 1933. *Journal of the Helminthological Society of Washington*, 62(2): 117-130.
- Nair, V., 2003. *Fiji Islands Marine Ecoregion: An overview of outstanding biodiversity, threats, opportunities and key stakeholders for conservation*. Suva: WWF Fiji Programme. 74 p.
- \*\*Nai'a Liveboard Diving, 200? *Scuba diving in Fiji: Divemaster diary*. [Online] Available at: [http://www.naia.com.fj/diary/dd\\_060708.html](http://www.naia.com.fj/diary/dd_060708.html). [Accessed 14 December 2009].
- Nakabo, T., 1982. Revision of genera of the dragonets (Pisces: Callionymidae). *Publications of the Seto Marine Biological Laboratory*, 27(1/3): 77-131.
- Nakamura, I. and Parin, N.V., 1993. FAO species catalogue. Snake mackerels and cutlassfishes of the world (Families Gempylidae and Trichiuridae). *FAO Fisheries Synopsis*, 15(125), 136 p.
- Nelson, J.S., 1976. *Fishes of The World*. John Wiley & Sons, New York, London, Sydney, Toronto. 416 p.
- Nelson, J.S. and Randall, J.E., 1985. *Crystallodytes pauciradiatus* (Perciformes), a new creediid fish species from Easter Island. *Proceedings of the Biological Society of Washington*, 98(2): 403-410.
- Nichols, J.T., 1952. Four new gobies from the eastern and western Pacific. *American Museum of Natural History, Novit*, 1594, 5 p.
- Nichols, J.T. and Bartsch, P., 1945. *Fishes and shells of the Pacific World*. New York: The MacMillan Co. 201 p., 16 plates.
- Nimmerfroh, A., 2006. *Fiji's wild beauty: a photographic guide to coral reefs of the South Pacific*. Nimmerfroh Dive Productions. 320 p.
- Norman, J.R., 1929. Notes on the myctophid fishes of the genera *Diaphus* and *Myctophum* in the British Museum Natural History. *Annals and Magazine of Natural History*, 10(4): 510-515.
- \*\*Norman, J.R., 1931. *Annals and Magazine of Natural History*, 10(8), p.508. [Cited in Fowler, 1959, p.118, on *Engyprosonon fijiensis*]
- Norman, J.R., 1934. *A systematic monograph of the flatfishes (Heterosomata). Vol. I. Psettodidae, Bothidae, Pleuronectidae*. Trustees of the British Museum, London. p.233.
- Nutting, C.C., 1924. The fishes in the Fiji - New Zealand Expedition. *University of Iowa Studies in Natural History*, 10(5), Fishes: pp.57-67.
- Ochiai, A., 1963. *Fauna Japonica. Soleina (Pisces)*. Tokyo: Biogeographical Society of Japan, National Science Museum, 114 p.
- Ogilby, J.D., 1897. Some new genera and species of fishes. *Proceedings of the Linnean Society of New South Wales*, 22(2): 245-251.
- Ogilby, J.D., 1898. New genera and species of fishes. *Proceedings of the Linnean Society of New South Wales*, 23(91): 32-41, 280-299.
- Ogilvie-Grant, W.R., 1884. A revision of the fishes of the genera *Sicydium* and *Lentipes*, with descriptions of five new species. *Proceedings of the Zoological Society of London*, pp.153-172.
- Parin, N.V., 1968. Ichthyofauna of the epipelagic zone. *Institute of Oceanography, Academy of Sciences, USSR*. 206 p. (1970 English translation).
- Pacific Travel Guides, 2009. Pictures of the South Pacific [Online] Available at: [www.fiji.pictures-pacific.com](http://www.fiji.pictures-pacific.com) [Accessed 11 December 2009].
- Payne, W.J.A., Naidu, R.K., Sills, V.E. and Holmes, S.E., 1954. Fish farming. *Fiji Agricultural Journal*, 25(3): 71-76.
- Pel, H. van, 1956. *Report on the fisheries industries of Fiji. Council Paper 1*. Suva: Government of Fiji. 5 p.
- Pel, H. van, 1957. *List of Fijian names for some species of fish*. Noumea, New Caledonia: South Pacific Commission. 1 p.
- Pel, H. van, 1959. Fisheries in American Samoa, Fiji, and New Caledonia. *South Pacific Bulletin, South Pacific Commission, Noumea, New Caledonia*. 9(3): 26-27.
- Pel, H. van, 1961. *A guide to South Pacific fisheries*. Noumea, New Caledonia: South Pacific Commission, 72 p.
- Peters, W.C.H., 1876. *Ubersicht der wahrend der von 1874 bis 1876 unter dem Commando des Hr. Capitan Z. S. Feriherrn von Schleinitz ausgefuhrten Reise S. M. S. 'Gazelle' gesammelten und von der Wissenschaften ubersandten Fische*. Monatsber. Berlin: Akademie der Wissenschaften, pp.831-854.
- Philippart, J.C. and Ruwet, J.Cl., 1982. *Ecology and distribution of tilapias*. In: R.S.V., Pullen and R.H., Lowe-McConnell, eds. *The biology and culture of tilapias: ICLARM Conference Proceedings*. Manila, Philippines: International Center for Living Aquatic Resources Management. pp.15-59.
- Pietsch, T.W. and Grobecker, D.B., 1987. *Frogfishes of the world. Systematics, Zoogeography, and Behavioral Ecology*. Stanford University Press. 420 p.
- Pietschmann, V., 1930. Remarks on Pacific fishes. *B.P. Bishop Museum Bulletin*, 73, 24 p.
- Pillay, T.V.R., 1971. Fish introductions. *FAO Aquaculture Bulletin*, 3(3), p.14.
- \*\*Pöhl, 1884. *Museum Godeffroy. Catalog IX*.
- Pollard, J. ed., 1980. *G.P. Whitney's handbook of Australian fishes*. Jack Pollard Pty Ltd. 628 p.
- Popper, D.M., 1977. *Fiji fish culture. A report prepared for the*

- aquaculture development project. Rome: FAO. 18 p.
- Popper, D.M. and Gundermann, N., 1976. A successful spawning and hatching of *Siganus vermiculatus* under field conditions. *Aquaculture*, 7: 291-292.
- Popper, D.M., Lichatowich, T., Pine, R.T. and Gundermann, N., 1975. Preliminary experiments in mixed culture of milkfish, tilapia, and carnivorous fish. *SPC Fisheries Newsletter. South Pacific Commission, Noumea, New Caledonia*, 13: 16-19.
- Popper, D.M. and Lichatowich, T., 1975. Preliminary success in predator control of *Tilapia mossambica*. *Aquaculture*, 5: 213-214.
- Popper, D.M., May, R.C. and Lichatowich, T., 1976. An experiment in rearing larval *Siganus vermiculatus* (Valenciennes) and some observations on its spawning cycle. *Aquaculture*, 7: 281-290.
- Poss, S.G. and Eschmeyer, W.N., 1978. Two new Australian velvetfishes genus *Paraploactis* (Scorpaeniformes: Aploactidae), with a revision of the genus and comments on the genera and species of the Aploactinidae. *Proceedings of the California Academy of Sciences*, 41(18): 401-426.
- Poss, S.G. and Springer, V.G., 1983. *Eschmeyer nexus*, a new genus and species of scorpaenid fish from Fiji. *Proceedings of the Biological Society of Washington*, 96(2): 309-316.
- Prasad, J.R., 1982. *On the abundance, distribution and biology of tuna baitfishes in Fijian waters. Technical Report. Institute of Marine Resources. Suva: University of the South Pacific. 22 p.*
- Preston, G.L., 1982a. *The Fijian experience in the utilization of fish aggregating devices. 14th Regional Technical Meeting on Fisheries, Noumea, New Caledonia, 2-6 August, 1982. Noumea: South Pacific Commission. 61 p.*
- Preston, G.L., 1982b. *UNDP/Fishery Division small scale tuna fishing projects. Technical Report. 2. Suva: Fisheries Division, Ministry of Agriculture and Fisheries. 21 p.*
- Rabanal, H.R., Cavuilati, S.T. and Mate, F., 1981. *The development of aquaculture in Fiji. Report to the Government of Fiji by the Food and Agriculture Organisation of the United Nations. Bangkok, Thailand: FAO Regional Office for Asia and the Pacific.*
- Raj, U., 1981. *Living resources of the outer reef slopes of the Fiji Islands. In: Report on the Inshore and Nearshore Resources Training Workshop, 13 - 17 July 1981, Suva, Fiji. pp.9-11.*
- Raj, U. and Seeto, J., 1982. *Report on an investigation of Saweni Bay and the coastal environment for an environmental impact study. Suva: Institute of Marine Resources, The University of the South Pacific. 24 p. [Unpublished report]*
- Raj, U. and Seeto, J., 1983a. A new species of the anthiine fish genus *Plectranthias* (Serranidae) from the Fiji Islands. *Japanese Journal of Ichthyology*, 30(1): 15-17.
- Raj, U. and Seeto, J., 1983b. A new species of *Paracaesio* (Pisces: Lutjanidae) from the Fiji Islands. *Copeia*, 2: 450-453.
- Raj, U. and Seeto, J., 1984. *Deepwater bottom fishes of Fiji Islands. Technical Report. Institute of Marine Resources. Suva: The University of the South Pacific. 214 p.*
- Raj, U., Seeto, J. and Stone, R., 1981a. *Report on a preliminary investigation on the Naselai back-reef area proposed for dredging a boat channel. Suva: Institute of Marine Resources, The University of the South Pacific. 21 p. [Unpublished report]*
- Raj, U., Seeto, J., Vodonaivalu, S., and Stone R., 1981b. *Report on a preliminary investigation of Saweni Bay and the coastal environment. Suva: Institute of Marine Resources, University of the South Pacific. 20 p. [Unpublished report]*
- Rajotte, F., and Bigay, J., 1981. *Beqa Island of firewalkers. Suva: Institute of Pacific Studies, The University of the South Pacific. 161 p.*
- Ram, N., Prasad, J. R., Bando, T. and Yonemori, T., 1983. *Observations of tuna bait fishing in Fiji using Bouke-ami net. In: The Prompt Report of the Second Scientific Survey of the South Pacific. Published jointly by Kagoshima University and Institute of Marine Resources, The University of the South Pacific. pp.74-78.*
- Ram, N. and Southwick, G. 1980. *Interim report on the design and construction of fishing gear for the tropics. Technical Report. Institute of Marine Resources. Suva: The University of the South Pacific. 26 p. [Unpublished report]*
- Randall, J.E., 1955. A revision of the surgeon fish genera *Zembrasoma* and *Paracanthurus*. *Pacific Science*, 9(4): 396-412.
- Randall, J.E., 1956. A revision of the surgeon fish genera *Acanthurus*. *Pacific Science*, 10(2): 159-235.
- Randall, J.E., 1958a. A review of the labrid fish genus *Labroides*, with descriptions of two new species and notes on ecology. *Pacific Science*, 12(4): 327-347.
- Randall, J.E., 1958b. Two new species of *Anampses* from the Hawaiian Islands, with notes on other labrid fishes. *Journal of the Washington Academy of Science*, 48(3): 100-108.
- Randall, J.E., 1963. Review of the hawkfishes (family Cirrhitidae). *Proceedings of the United States National Museum*, 114(3472): 389-451.
- Randall, J.E., 1964. A revision of the filefish genera *Amanes* and *Cantherhines*. *Copeia*, 2: 331-361.
- Randall, J.E., 1972. A revision of the labrid fish genus *Anampses*. *Micronesica*. 8(2): 151-195.
- Randall, J.E., 1975. A revision of the Indo-Pacific angelfish genus *Genicanthus*, with descriptions of three new species. *Bulletin of Marine Science*, 25(3): 393-421.
- Randall, J.E., 1976. A review of the Hawaiian labrid fishes of the genus *Coris*. *UO [Japanese Society of Ichthyology]*, 26: 1-10.

- Randall, J.E., 1978. A revision of the Indo-Pacific labrid fish genus *Macropharyngodon*, with descriptions of five new species. *Bulletin of Marine Science*, 28(4): 742-770.
- Randall, J.E., 1980. Two new Indo-Pacific fishes of the genus *Halichoeres* with notes on other species of the genus. *Pacific Science*, 34(4): 415-432.
- Randall, J.E., 1981a. Revision of the labrid fish genus *Labropsis* with descriptions of five new species. *Micronesica*, 17(1/2): 125-155.
- Randall, J.E., 1981b. Examples of antitropical and antiequatorial distribution of Indo-West Pacific fishes. *Pacific Science*, 35(3): 197-209.
- Randall, J.E., 1983. Revision of the Indo-Pacific labrid fish genus *Wetmorella*. *Copeia*, 4: 875-883.
- Randall, J.E., 1985. On the validity of the tetraodontid fish *Arothron manilensis* (Procé). *Japanese Journal of Ichthyology*, 32(3): 347-354.
- Randall, J.E. 1986. 106 new records of fishes from the Marshall Islands. *Bulletin of Marine Science*, 38(1): 170-252.
- Randall, J.E., 1992. A review of the labrid fishes of the genus *Cirrhilabrus* from Japan, Taiwan and the Mariana Islands, with descriptions of two new species. *Micronesica*, 25(1): 99-121.
- Randall, J.E., 1996. Second revision of the labrid fish *Leptojulius*, with descriptions of two new species. *Indo-Pacific Fishes*, 24, 20 p., 3 pls.
- Randall, J.E., 1998. Revision of the Indo-Pacific squirrelfishes (Beryciformes: Holocentridae) of the genus *Sargocentron*, with descriptions of four new species. *Indo-Pacific Fishes*, 27, 105 p., 11 plates, 39 figs.
- Randall, J.E., 1999a. Revision of the Indo-Pacific labrid fishes of the genus *Pseudocheilinus*, with descriptions of three new species. *Indo-Pacific Fishes*, 28, 34 p., 2 plates.
- Randall, J.E., 1999b. Revision of the Indo-Pacific labrid fishes of the genus *Coris* with the descriptions of five new species. *Indo-Pacific Fishes*, 29, 74 p.
- Randall, J.E., 2000. Revision of the Indo-Pacific labrid fishes of the genus *Stethojulis*, with descriptions of two new species. *Indo-Pacific Fishes*, 31, 42 pp.
- Randall, J.E., 2003. *Thalassoma nigrofasciatum*, a new species of labrid fish from the south-west Pacific. *Aqua: Journal of Ichthyology and Aquatic Biology*, 7(1-8).
- Randall, J.E., 2003b. Review of the Sandperches of the *Parapercis cylindrica* complex (Perciformes: Pinguipedidae), with description of two new species from the Western Pacific. *Occasional Papers of the B.P. Bishop Museum*, 72: 1-19.
- Randall, J.E., 2001. Five new Indo-Pacific gobiid fishes of the genus *Coryphopterus*. *Zoological Studies*, 40(3): 206-225.
- Randall, J.E., 2006. Three new species of the gobiid fish genus *Trysogobius* from the Western and South Pacific. *Aqua: Journal of Ichthyology and Aquatic Biology*, 11(3): 105-116.
- Randall, J.E. and Allen G.R., 1977. A revision of the damselfish genus *Dascyllus* (Pomacentridae) with the description of a new species. *Records of the Australian Museum*, 31(9): 349-385.
- Randall, J.E., Allen, G.R. and Anderson, W.D., 1987. Revision of the Indo-Pacific lutjanid genus *Pinjalo*, with description of a new species. *Indo-Pacific Fishes*, 14, 17 p.
- Randall, J.E., Allen, G.R. and Steene, R.C., 1990. *Fishes of the Great Barrier Reef and Coral Sea*. Bathurst: Crawford House Publishing.
- Randall, J.E., Allen, G.R. and Steene, R.C., 1997. *Fishes of the Great Barrier Reef and Coral Sea*. 2nd ed. Bathurst: Crawford House Publishing. 557 p.
- Randall, J.E. and Baldwin, C.C., 1997. Revision of the serranid fishes of the subtribe *Pseudogramma*, with descriptions of five new species. *Indo-Pacific Fishes*, 26, 56 p.
- Randall, J.E. and Bell, L.J., 1992. *Naso caesius*, a new acanthurid fish from the Central Pacific. *Pacific Science*, 46(3): 344-352.
- Randall, J.E. and Choat, J.H., 1980. Two new parrot fishes of the genus *Scarus* from the Central and South Pacific with further examples of sexual dichromatism. *Zoological Journal of the Linnean Society*, 70: 383-419.
- Randall, J.E. and Greenfield, D.W., 1996. Revision of the Indo-Pacific holocentrid fishes of the genus *Myripristis*, with descriptions of three new species. *Indo-Pacific Fishes*, 25, 61 p.
- Randall, J.E. and Earle, J.L., 2004. *Novaculoides*, a new genus for the Indo-Pacific labrid fish *Novaculichthys macrolepidotus*. *Aqua: Journal of Ichthyology and Aquatic Biology*, 8(1): 37-43.
- Randall, J.E. and Greenfield, D.W., 2004. Two new scorpionfishes (Scorpaenidae) from the South Pacific. *Proceedings of the California Academy of Sciences*, 55(19): 384-394.
- Randall, J.E. and Gueze, P., 1981. The holocentrid fishes of the genus *Myripristis* of the Red Sea, with clarification of the *murdjan* and *hexagonus* complex. *Contributions in Science. The Natural History Museum of Los Angeles County*, 334, 16 p.
- Randall, J.E. and Heemstra, P.C., 1991. Revision of Indo-Pacific groupers (Perciformes: Serranidae: Epinephelinae), with descriptions of five new species. *Indo-Pacific Fishes*, 20, 332 p.
- Randall, J. E. and Hoese, D. F. 1985. Revision of the Indo-Pacific dartfishes, genus *Ptereleotris* (Perciformes: Gobioidi). *Indo-Pacific Fishes*, 7, 36 p.
- Randall, J.E. and Hoese, D.F., 1986. Revision of the groupers of the Indo-Pacific genus *Plectropomus* (Perciformes: Serranidae). *Indo-*



*Pacific Fishes*, 13, 31 p.

Randall, J.E., Ida, H. and Moyer, J.T., 1981. A review of the damselfishes of the genus *Chromis* from Japan and Taiwan and description of a new species. *Japanese Journal Ichthyology*, 28(3): 203-242.

Randall, J.E. and Kay, J.C., 1974. *Stethojulis axillaris*, a junior synonym of the Hawaiian labrid fish *Stethojulis balteata*, with a key to the species of the genus. *Pacific Science*, 28(2): 101-107.

Randall, J.E. and Lachner, E.A., 1986. The status of the Indo-Pacific cardinalfishes *Apogon aroubiensis* and *A. nigrofasciatus*. *Proceedings of the Biological Society of Washington*, 99(1): 110-120.

Randall, J. E. and Lubbock, R., 1981. A revision of the serranid fishes of the subgenus *Mirolabrichthys* (Anthiinae: *Anthias*), with descriptions of five new species. *Contributions in Science. The Natural History Museum of Los Angeles County* 35(1): 51-74.

Randall, J.E. and Randall, H.A., 1981. A revision of the labrid fish genus *Pseudojuloides*, with descriptions of five new species. *Pacific Science*, 35(1): 51-74.

Randall, J.E., Smith, M.M. and Aida, K., 1980. Notes on the classification and distribution of the Indo-Pacific soapfish, *Belonoperca chabanaudi* (Perciformes: Grammistidae). Special Publication. *J.L.B. Smith Institute of Ichthyology*, 21, 8 p.

Randall, J.E. and Swerdloff, S.N., 1973. A review of the damselfish genus *Chromis* from the Hawaiian Islands, with descriptions of three new species. *Pacific Science*, 27(4), pp.327-349.

Randall, J.E. and Taylor, L., 1988. Review of the Indo-Pacific fishes of the serranid genus *Liopropoma*, with descriptions of seven new species. *Indo-Pacific Fishes*, 16, 47 p.

Randall, J.E. and Johnson, J.W., 1999. Clarification of the Western Pacific cardinalfish species *Apogon trimaculatus* and *A. rhodopterus* with description of a similar new species. *The Raffles Bulletin of Zoology*, 47(2): 617-633.

Randall, J.E. and Carlson, B.A. 2000. Pygmy angelfish *Centropyge woodlandi* Kuitert, 1998, a synonym of *C. heraldi* Woods and Schultz, 1953. *Aqua: Journal of Ichthyology and Aquatic Biology*, 4(1): 1-4.

Randall, J.E. and Johnson, J.W., 2000. *Perca lineata* and *P. vittata* established as a valid species of *Plectorhinchus* (Perciformes: Haemulidae). *Memoirs of the Queensland Museum*, 45(2): 477-482.

Randall, J.E. and Clements, K.D., 2001. Second revision of the surgeonfish genus *Ctenochaetus* (Perciformes: Acanthuridae), with descriptions of two new species. *Indo-Pacific Fishes*, 32, 33 p.

Randall, J.E. and Eschmeyer, W.N., 2001. Revision of the Indo-Pacific scorpionfish genus *Scorpaenopsis* with descriptions of eight new species. *Indo-Pacific Fishes*, 34, 79 p.

Randall, J.E. and Greenfield, D.W., 2001. A preliminary review of

the Indo-Pacific gobiid fishes of the genus *Gnatholepis*. *Occasional Papers. J.L.B. Smith Institute of Ichthyology*, 69: 1-17.

Randall, J.E. and Pyle, R.L., 2001. Four new serranid fishes from the anthiine genus *Pseudanthias* from the South Pacific. *The Raffles Bulletin of Zoology*, 49(1): 19-34.

Randall, J.E. and Randall, H.A., 2001. Review of the fishes of the genus *Kuhlia* (Perciformes: Kuhlidae) of the Central Pacific. *Pacific Science*, 55(3): 227-256.

Randall, J.E. and Myers, R.F., 2002. *Parupeneus insularis*, a new Central Pacific species of goatfish (Perciformes: Mullidae) of the *P. trifasciatus* complex. *Zoological Studies*, 41(4): 431-440.

Randall, J.E., Shao, K.-T. and Chen, J.-P., 2003. A review of the Indo-Pacific gobiid fish genus *Ctenogobiops*, with descriptions of two new species. *Zoological Studies*, 42(4): 506-515.

Randall, J.E., 2004. Revision of the goatfish genus *Parupeneus* (Perciformes: Mullidae), with descriptions of two new species. *Indo-Pacific Fishes*, 36, 64 p.

Randall, J.E., 2005. *Reef and shore fishes of the South Pacific*. Honolulu: University of Hawai'i Press. 707 p.

Randall, J.E., 2005b. A review of mimicry in marine fishes. *Zoological Studies*, 44(3): 299-328.

Randall, J.E., 2005c. A review of soles of the genus *Aseraggodes* from the South Pacific, with descriptions of seven new species and a diagnosis of *Synclidopus*. *Memoirs of Museum Victoria*, 62(2): 191-212.

Randall, J.E. et al., 2005. Ninety-one new records of fishes from the Marshall Islands. *Aqua: Journal of Ichthyology and Aquatic Biology*, 9(3): 115-132.

Randall, J.E., 2008. Two new species and three new records of gobiid fishes from the Marshall Islands. *Micronesica*, 40(1/2): 285-303.

Randall, J.E., 2009. Five new Indo-Pacific lizardfishes of the genus *Synodus* (Aulopiformes: Synodontidae). *Zoological Studies*, 48(3): 402-417.

Randall, J.E., 2009. Comparison of the Indo-Pacific shrimpgobies *Amblyeleotris fasciata* (Herre, 1953) and *Amblyeleotris wheeleri* Polunin & Lubbock, 1977. *Aqua: International Journal of Ichthyology*, 15: 1-24.

Randall, J.E. and Kulbicki, M., 2005. *Siganus woodlandi*, new species of rabbitfish (Siganidae) from New Caledonia. *Cybium*, 29(2): 185-189.

Randall, J.E. and Kulbicki, M., 2006. A review of the goatfishes of the genus *Upeneus* (Perciformes: Mullidae) from New Caledonia and the Chesterfield Bank, with a new species and four new records. *Zoological Studies*, 45(3): 298-307.

- Randall, J.E. and Desoutter-Meniger, M., 2007. Review of the soles of the genus *Aseraggodes* (Pleuronectiformes: Soleidae) from the Indo-Malayan region, with descriptions of nine new species. *Cybium*, 31(3): 301-331.
- Randall, J.E., Kwang-Tsao Shao, K.-T. and Chen, J.-P., 2007. Two new shrimp gobies of the genus *Ctenogobiops* (Perciformes: Gobiidae), from the Western Pacific. *Zoological Studies*, 46(1): 26-34.
- Randall, J.E. and Munroe, T.A., 2008. *Soleichthys dori*, a new sole (Pleuronectiformes: Soleidae) from the Red Sea. *Electronic Journal of Ichthyology*, 2: 76-84.
- Randall, J.E. and Walsh, F., 2008. A pictorial review of the Indo-Pacific labrid fish genus *Pseudocoris*, with description of a new species from the Coral Sea. *Aqua: International Journal of Ichthyology*, 14(2): 45-58.
- Randall, J.E. and Heemstra, E., 2009. Three new goatfishes of the genus *Parupeneus* from the Western Indian Ocean, with resurrection of *P. seychellensis*. *Smithiana Bulletin*, 10: 37-50.
- Randall, J.E. and Munday, P.L., 2009. *Vanderhorstia steelei*, a new shrimpgoby from the Society Islands. *Aqua: International Journal of Ichthyology*, 14(1): 1-28.
- Rawlinson, N.J.F., 1993. *A review of previous baitfish studies and reports in Fiji*. In: S.J.M. Blaber, D.A. Milton and N.J.F. Rawlinson, eds. *Tuna baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings*, 52: 8-25.
- Rawlinson, N.J.F. and Sesewa, A., 1993a. *A survey of fishing activities by coastal villagers in Fiji and the possible conflict with commercial baitfishing*. In: S.J.M. Blaber, D.A. Milton and N.J.F. Rawlinson, eds. *Tuna baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings*, 52, pp.62-69.
- Rawlinson, N.J.F. and Sesewa, A., 1993b. *Potential sites for commercial baitfishing in Fiji*. In: S.J.M. Blaber, D.A. Milton and N.J.F. Rawlinson, eds. *Tuna baitfish in Fiji and Solomon Islands: Proceedings of a workshop, Nadi, Fiji 17-18 August 1993, ACIAR Proceedings*, 52.
- Rawlinson, N.J.F. et al., ca. 1995. A survey of the subsistence and artisanal fisheries in rural areas of Viti Levu, Fiji. Canberra: Australian Centre for International Agricultural Research. 126 p.
- Regan, C.T., 1913. A revision of the fishes of the genus *Kuhlia*. *Proceedings of the Zoological Society of London*, 2: 374-381.
- Rennis, D.S. and Hoese, D.F., 1985. A review of the genus *Parioglossus*, with descriptions of six new species (Pisces: Gobiodei). *Records of the Australian Museum*, 36(3-4): 169-201.
- Richards, A., Lagibalavu, M., Sharma, S. and Swamy, S., 1994. *Fiji fisheries resources profiles*. FFA Report, 94/4. Honiara: Forum Fisheries Agency.
- Roessler, C., 1993. *Great reefs of the world*. Houston: Pisces Books. 116 p.
- Royal Ontario Museum records (Great Astrolabe Reef Collection) 28-5-91. Supplied by Rick Winterbottom [Unpublished]
- Rosenberg, E., 1976. *An economic and financial appraisal of commercial fish and prawn farming in Fiji*. Fish-Farm Development Project. Suva: Economic Planning and Statistics Division, MAFF. 28 p.
- Rupeni, E., 2004. *Fiji's Great Sea Reef. The hidden gem of the South Pacific*. Suva: WWF Pacific, 6 p.
- \*\*Russell, B.C., 1990a. A new species of *Nemipterus* (Pisces: Perciformes: Nemipteridae) from the south-western Pacific. *The Beagle Records of the Northern Territory Museum of Arts and Sciences*, 7(2): 35-38.
- Russell, B.C., 1990b. Nemipterid fishes of the world. (Threadfin breems, whiptail breems, monocle breems, dwarf monocle breems, and coral breems). Family Nemipteridae: an annotated and illustrated catalogue of nemipterid species known to date. *FAO Fisheries Synopsis*, 12(125): 149 p.
- Ryan, P.A., 1980. A checklist of the brackish and freshwater fish of Fiji. *South Pacific Journal of Natural Science*, 35(1): 58-73.
- Ryan, P.A., 1981. Records of three new freshwater fishes from the Fiji Islands. *Pacific Science*, 35(1): 93-95.
- Ryan, P.A., 1986. Fascinating fish in sex-change survival. *Fiji Times*, 8 June, p. 20.
- Ryan, P.A., 1988. *Fiji's Natural Heritage*. Auckland: Southwestern Publishing. 184 p.
- Ryan, P.A., 2000. *Fiji's Natural Heritage*. Auckland: Exisle Publishing. 288 p.
- Sakai, H. and Sato, M., 1982. First records of five teleostean fishes and three second records of gobiid fishes from Japan, collected in rivers on the Ryukyu Islands. *Bulletin of the Faculty of Fisheries Hokkaido University*, 33(2): 79-88.
- Salvat, B., Richard, M., Galzin, G. and Toffart, J.L., 1976. *The ecology of the reef-lagoon complex of some islands of the Lau group. Preliminary report. UNESCO/UNFPA Project on Populations and Environment. Project Working Paper, 2*. Canberra, Australia: Development Studies Centre, Australian National University. 23 p.
- \*\*Sauvage, M.H.E., 1878. p.207. [Cited in Jordan & Seale, 1906...on *Glyphidodontops leucopomus*]
- \*\*Sauvage, M.H. E., 187? *Bulletin de Sciences de la Société Philomatique de Paris*, 6, p.173 [Cited in Jordan & Seale, 1906, p.360].
- Sauvage, M.H.E., 1879. Descriptions de quelques poissons d'espèces nouvelles de la collection du Museum d'Histoire Naturelle. *Bulletin de Sciences de la Société Philomatique de Paris*, 7(3): 204-209.

- \*\*Sauvage, M.H.E., 1880. Fiji. *Bulletin de Sciences de la Société Philomatique de Paris*, 7, p.15, p.224. [Cited in Jordan & Seale, 1906, p.298].
- Sauvage, M.H.E., 1880. Descriptions de quelques poissons d'espèces nouvelles de la collection du Museum Histoire Naturelle. *Bulletin de Sciences de la Société Philomatique de Paris*, 7(4): 220-228.
- \*\*Schmeltz, J.D.E., 1864. *Museum Godeffroy. Catalog I der zum Verkauf stehenden Doubletten aus dem naturhistorischen Expeditionen der Herren Joh. Ces. Godeffroy & Sohn in Hamburg.* Hamburg.
- Schmeltz, J.D.E., 1865. *Museum Godeffroy. Catalog II der zum Verkauf stehenden Doubletten aus dem naturhistorischen Expeditionen der Herren Joh. Ces. Godeffroy & Sohn in Hamburg.* Hamburg. iv, 33 p.
- Schmeltz, J.D.E., 1866. *Museum Godeffroy. Catalog III der zum Verkauf stehenden Doubletten aus dem naturhistorischen Expeditionen der Herren Joh. Ces. Godeffroy & Sohn in Hamburg.* Hamburg: s.n. [iii], xii, 52 p.
- Schmeltz, J.D.E., 1869. *Museum Godeffroy. Catalog IV, nebst einer Beilage, enthaltend: topographische Notizen; Beschreibung neuer Bryozoen von Senator Dr. Kirchenpauer zu Hamburg und einer neuen Asteriden-Gattung von Dr. Chr. Lütken zu Kopenhagen.* Hamburg: Wilhelm Mauke Söhne, vormals Perthes-Besser & Mauke. xxxix, [iii], 139, [2] p.
- Schmeltz, J.D.E., 1874. *Museum Godeffroy. Catalog V. Nebst einer Beilage enthaltend topographische und zoologische Notizen.* Hamburg: L.Friedrichsen & Co. xxxvi, [ii], 215 p.
- Schmeltz, J.D.E., 1879. *Museum Godeffroy. Catalog VII. Wirbeltheire (Animalia vertebrata) und Nachträge zu Catalog 5 & 6 aus den übrigen Thierklassen.* Hamburg: L. Friedrichsen & Co. viii, 99 p.
- \*\*Schmeltz, J.D.E., 1884. *Museum Godeffroy. Catalog IX.* Hamburg.
- Schmidt, J., 1925. On the distribution of the freshwater eels (*Anguilla*) throughout the world. II. Indo-Pacific region. *Mem. Royal Danish Academy of Sciences and Letters*, pp.329-382.
- Schmidt, J., 1928. The fresh-water eels of Australia. *Records. Australian Museum*, 16(4): 179-210.
- Schultz, E.T., 1986. *Pterois volitans* and *Pterois miles*: Two valid species. *Copeia*, (3): pp.686-690.
- Schultz, L.P., 1943. Fishes of the Phoenix and Samoan Islands collected in 1939 during the expedition of the U.S.S. *Bushnell*. *Bulletin of the United States National Museum*, 180, p.56.
- Schultz, L.P., 1953. Review of the Indo-Pacific anemone fishes, genus *Amphiprion*, with descriptions of two new species. *Proceedings of the United States National Museum*, 103 (3323): 187-201.
- Schultz, L.P. et al., 1953-1966. Fishes of the Marshall and Marianas Islands. *Bulletin of the United States National Museum* 202(1-3): var. pag.
- Schultz, L.P., 1957. The frogfishes of the family Antennariidae. *Proceedings of the United States National Museum*, 107(3383): 47-105.
- Schultz, L.P., 1966. A new anemonefish, *Amphiprion calliops*, from the Indo-Pacific Ocean. *Ichthyologica*, 37(2): 71-76.
- Schultz, L.P., 1968. Four new fishes of the genus *Parapercis* with notes on other species from the Indo-Pacific area (Family Mugiloididae). *Proceedings of the United States National Museum*, 124(3636): 16 p.
- Schultz, L.P., 1969. The taxonomic status of the controversial genera and species of parrotfishes with a descriptive list (family Scaridae). *Smithsonian Contributions to Zoology*, 17: 49 p.
- Seale, A., 1917. New species of apodal fishes. *Bulletin of the Museum of Comparative Zoology*, 71(4): 79-94.
- Seale, A., 1935. The Templeton Crocker Expedition to western Polynesia and Melanesian islands, 1933. Fishes. *Proceedings of the California Academy of Sciences, 4th Ser.*, 21(27): 337-378.
- Seale, A., 1936. A new member of the blenny family. *Proceedings of the California Academy of Sciences, 4th Ser.*, 23(6), pp.85-86.
- Segar, D.A. and Segar E.S., 2007. *Coral reef creatures - Pacific and Red Sea underwater images: Angelfish, Butterflyfish, Batfish, Moorish Idol.* p.3. [Online] Available at: <http://reefimages.com/Angles/Angles.htm>. [Accessed 17 December 2009].
- Sewak, S., 1981. *Common of North: northern fishes (Fiji)*. Suva: Fisheries Division, Fiji. 18 p. [Unpublished paper]
- Sharma, S.P., 1988. *The Fijian baitfishery*. SPC/Inshore Fisheries Resources Workshop/ Background Paper. 14.
- Sharma, S.P. and Adams, T.J.H., 1989. *The Fiji tuna baitfishery*. In: S.J.M. Blaber and J.W. Copland, eds. *Tuna Baitfish in the Indo-Pacific Region: Proceedings of a Workshop held in Honiara, 11-13 December 1989*. ACIAR Proceedings, 30: 45-51.
- Singleton, N., 1997. *Mangrove fish community composition and structure in Laucala Bay, Suva, Fiji*. MSc. Thesis. Dunedin, New Zealand: University of Otago. 99 p.
- Smith, C.L., 1964. Some pearl fishes from Guam with notes on their biology. *Pacific Science*, 18(1): 34-40.
- Smith, J.L.B., 1953. *The sea fishes of Southern Africa*. Cape Town: Central News Agency. 564 p.
- Smith, J.L.B., 1959. Gobioid fishes of the family Gobiidae, Periophthalmidae, Trypauchenidae, Taenioididae, and Kraemeriidae of the Indian Ocean. *Ichthyological Bulletin of Rhodes University*, 13: 185-225.

- Smith, J.L.B. and Smith, M.M., 1963. *The fishes of the Seychelles*. Department of Ichthyology, Rhodes University. 215 p.
- Smith, M.M. and Heemstra, P.C. eds., 1986. *Smith's Sea Fishes*. Grahamstown: J.L.B. Smith Institute of Ichthyology. 1047 p.
- Smith, R., 2009. Heavily pregnant Severn's pygmy seahorse (*Hippocampus severnsi*). Fiji. [Online] Available at: [http://www.oceanrealimages.com/gallery/main.php?g2\\_view=core.ShowItem@g2\\_itemID=223924](http://www.oceanrealimages.com/gallery/main.php?g2_view=core.ShowItem@g2_itemID=223924). [Accessed 17 December 2009].
- Smith-Vaniz, W.F., 1976. The sabre-toothed blennies, tribe Nemophini (Pisces: Blenniidae). *Academy of Natural Sciences of Philadelphia. Monograph* 19: 1-196.
- Smith-Vaniz, W.F., 2005. *Petroscirtes pylei*, a new saber-toothed blenny the Fiji Islands (Teleostei: Blenniidae). *Zootaxa*, 1046: 29-36.
- Smith-Vaniz, W.F. and Staiger, J.C., 1973. Comparative revision of *Scomberoides*, *Oligoplites*, *Perona*, and *Hypacanthus* with comments on the phylogenetic position of *Campogramma* (Pisces: Carangidae). *Proceedings of the California Academy of Sciences, 4th Ser.*, 39(13): 185-256.
- Snow, P.A., 1969. A bibliography of Fiji, Tonga, and Rotuma. Canberra: Australia National University Press. 418 p.
- Spanovskaja, V.D., Grigorash, V.A., 1978. The reproductive capacity of *Cylothone braueri* Jespersen et Taning in the southern part of the Pacific Ocean. *Journal of Ichthyology*, 18(3): 504-508.
- Springer, V.G., 1967. Revision of the circumtropical shorefish genus *Entomacrodus* (Blenniidae: Salariinae). *Proceedings of the United States National Museum*, 122(3582): 150 p.
- Springer, V.G., 1971. Revision of the fish genus *Ecsenius* (Blenniidae: Blenniinae, Salariini). *Smithsonian Contributions to Zoology*, 72: 61 p.
- Springer, V.G., 1972a. Synopsis of the tribe Omobranchini with descriptions of three new genera and two new species (Pisces: Blenniidae). *Smithsonian Contributions to Zoology*, 130: 31 p.
- Springer, V.G., 1972b. Additions to revisions of blenniid fish genera *Ecsenius* and *Entomacrodus*, with descriptions of three new species of *Ecsenius*. *Smithsonian Contributions to Zoology*, 1345: 13 p.
- Springer, V. G. 1976. Four new species of the fish genus *Ecsenius* with notes on other species of the genus (Blenniidae: Salariini). *Smithsonian Contributions to Zoology*, 236: 27 p.
- Springer, V.G., 1982. Pacific plate biogeography, with special reference to shorefishes. *Smithsonian Contributions to Zoology*, 367: 182 p.
- Springer, V.G., 1983. *Tyson belos*, a new genus and species of western Pacific (Gobiidae, Xenisthminae), with discussions of gobioid osteology and classification. *Smithsonian Contributions to Zoology*, 390: 40 p.
- Springer, V.G., 1988a. The Indo-Pacific blenniid fish genus *Ecsenius*. *Smithsonian Contributions to Zoology*, 465: 1-132 .
- Springer, V.G., 1988. *Rotuma lewisi*, new genus and species of fish from the Southwest Pacific (Gobioidae, Xenisthmidae). *Proceedings of the Biological Society of Washington*, 101(3): 530-539.
- Springer, V.G. and Gomen, M.F., 1975. Revision of the blenniid fish genus *Omobranchus* with descriptions of three new species and notes on other species of the tribe Omobranchini. *Smithsonian Contributions to Zoology*, 177: 135 p.
- Springer, V.G. and Vaniz-Smith, W.F., 1972. Mimetic relationships involving fishes of the family Blenniidae. *Smithsonian Contributions to Zoology*, 112: 36 p.
- Stead, D.G., 1914. An account of some experiments in the acclimatization of two species of Australian freshwater perch. *Report of the Australian Association for the Advancement of Science*, 14(D): 279-288.
- Steene, R.C., 1977. *Butterfly and angelfishes of the world. Vol. 2, Australia*. Wiley-Interscience. 144 p.
- \*\*Steindachner, F., 1868. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien*, 58(1): p.28, 319.
- \*\*Steindachner, F. 1893. Ichthyologische Beitrage. XVI. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien*, 102: 215-243.
- Steindachner, F., and Kner, R., 1870. Über einige Pleuronectiden, Salmoniden, Gadoiden und Blenniiden aus der Decastris-Bay und von Viti-Levu. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien*, 61(1): 421-446.
- Storey, M.H., 1938. Contributions towards a revision of the ophichthyid eels 1. The genera *Callechelys* and *Bascan*, with descriptions of new species and notes on *Myrichthys*. *Stanford Ichthyological Bulletin*, 1(3): 77.
- Strasburg, D.W. 1966. *Golem cooperae*, a new antennariid fish from Fiji. *Copeia*, 3: 475-477.
- Suda, Y. et al., 1999. First record of the pygmy shark *Euporomicrus bispinatus* (Dalatiiformes: Dalatiidae) from Fiji. *Journal of National Fisheries University*, 47(4): 139-143.
- Sumeria, 1997. *Western Pacific OceanLife. Vol. 1. Fiji. Tonga. Vanuatu*. 2nd ed. CD-ROM.
- Suzimoto, A., 1998. *Holdings of fish from the Fiji Islands in the Bishop Museum, current as of 4th March, 1988*. [Unpublished list] (The data is not intended for publication and not used in this report).
- \*\*Tacklett Productions, 200? *World's smallest seahorse: Pygmy seahorse found in Fiji* [Online] Available at: <http://www.tackettproductions.com/Denise's%20Pygmy%20Seahorse.htm>. [Accessed 14 December 2009].

- Thompson, I., 1994. *Fiji in the Forties and Fifties*. Auckland: Thompson Pacific. 192 p. [Photography by Rob Wright, ed. by Peter Thomson]
- Thurston, H.C., 1881. *Brett's guide to Fiji: a handbook for residents, tourists, etc.* Auckland: H. Brett, 'Star' Office. 59 p.
- Turbett, C.R., 1940. Names of corals and reef animals, plants and fishes. *Transactions of the Fiji Society for Science and Industry*, 1940-44, 2(1): 36-38.
- Uchida, R.N., 1975. Recent developments in fisheries for skipjack tuna, *Katsuwonus pelamis*, in the Central and Western Pacific and the Indian Ocean. *FAO Fisheries Technical Papers*, 144: 57 p.
- Uchida, R.N., 1978. The fish resources of the western Central Pacific Islands. *FAO Fisheries Circular*, 712: 53 p.
- Ueyanagi, S., 1962. *Description and distribution of larvae of five istiophorid species in the Indo-Pacific*. In: *Symposium on Scombroid Fishes. Part I*. Marine Biological Association of India, pp.499-528.
- UNDP/FAO. 1974. *Local tuna fishery. Suva, Fiji. Livebait pole-and-line fishing for tuna. Technical Report 1*. Rome: FAO. 89 p.
- Uwate, K.R., Kunatuba, P., Raobati, B. and Tenakana, C., 1984. A review of aquaculture activities in the Pacific Islands region. Pacific Islands Development Program., Honolulu, Hawaii: East-West Center. var. pag.
- Vari, R.P., 1978. The terapon perches (Percoidei: Teraponidae). a cladistic analysis and taxonomic revision. *Bulletin of the American Museum of Natural History*, 159(5): 177-340.
- Veitayaki, J., Bidesi, V. R., Matthews, E. and Ballou, A., 1996. Preliminary baseline survey of marine resources of Kaba Point, Fiji. *Marine Studies Technical Report*, 96/1. 65 p.
- Villaluz, D.K., 1972. *Aquaculture possibilities in some islands of the South Pacific. Report prepared for the South Pacific Islands Development Program*. Rome: FAO, 48 p.
- \*\*Ward, N.J.R., 1976. *Small fish in Fiji mangroves*. Suva: Fisheries Division, Fiji. [Mimeogr.]
- Watson, R.E., 1992. A review of the gobiid fish genus *Awaous* from insular streams of the Pacific Plate. *Ichthyological Exploration of Freshwaters*, 3(2): 161-176.
- \*\*Web Travel Guide, 200?. *Photos of Fiji fish*. [Online] Available at: <http://webtravelguide.com/fijifishphotos.html> [Accessed 14 December 2009].
- Webb, C.J., 1986. Karyology of the Indo-Pacific *Butis butis* (Hamilton-Buchanan) (Teleostei: Gobioidi) from Fiji. *Australian Journal of Marine & Freshwater Research*, 37(3): 347-351.
- Weber, M., and de Beaufort, L.F., 1911-1962. *Fishes of the Indo-Australian Archipelago. Volumes 1-11*. Leiden. pag. var.
- Whitehead, P.J.P. 1967a. The clupeoid fishes described by Lacépède, Cuvier and Valenciennes. *Bulletin of the British Museum (Natural History). Zoology*, Suppl. 2: 180 p.
- Whitehead, P.J.P., 1967b. The clupeoid fishes of Malaya. *Journal of the Marine Biological Association of India*, 9(2): 223-280.
- Whitley, G.P., 1927a. A check-list of the fishes recorded from Fijian waters. *Journal of Pan-Pacific Research Institute*, 2: 3-8.
- Whitley, G.P., 1927b. The fishes of Michaelmas Cay, North Queensland. *Records. Australian Museum*, 16(11): 1-32.
- Whitley, G.P., 1933. Studies in ichthyology, 7. *Records. Australian Museum*, 19(1): 61-112.
- Whitley, G.P., 1950. Studies in ichthyology, 14. *Records. Australian Museum*, 22(3): 234-245.
- Whitley, G.P., 1964. Fishes of the Coral Sea and the Swain Reefs. *Records. Australian Museum*, 26(5): 145-195.
- Winterbottom, R., 1985. Two new gobiid species (in *Priolepis* and *Trimma*) from the Chagos Archipelago, Central Indian Ocean. *Canadian Journal of Zoology*, 63: 748-754.
- Winterbottom, R. and Burridge, M., 1987. The occurrence of the Japanese wrasse, *Stethojulis maculata* (Labridae) in Fiji. *Japanese Journal of Ichthyology*, 33(4): 410-413.
- Winterbottom, R. and Burridge, M., 1992. Revision of the *Egglestonichthys* and of *Priolepis* species possessing a transverse pattern of cheek papillae (Teleostei: Gobiidae), with a discussion of relationships. *Canadian Journal of Zoology*, 70: 1934-1946.
- Winterbottom, R. and Emery, A.R., 1983. Beneath the Blue Lagoon: An ichthyological expedition to Fiji. *Rotunda*, 16(3): 18-27.
- Williams, J.T., 1988. Revision and phylogenetic relationships of the Blennioid fish genus *Cirripectes*. *Indo-Pacific Fishes*, 17, 78 p.
- Wongratana, T. 1980. Systematics of clupeoid fishes of the Indo-Pacific region. 2 volumes. Ph.D. Thesis, University of London. 432 p.
- Wright, R.R., 1960. Big-game fishing would bring world anglers to Pacific. *South Pacific Bulletin, South Pacific Community, Noumea, New Caledonia*, 10(1): 27-50, 62.
- Wright, R., 1960. Hook Line and Sinkers. *Fiji Times*, 5 November 1960, 6(1479), p. 11.
- Wright, R., 1964. Hook Line and Sinkers: Life of a grouper. *Fiji Times*, 21 March, 1964, 8(2508), p.11.
- Wright, R., 1966a. Hook Line and Sinkers: Fresh water game fish not at home in Fiji rivers. *Fiji Times*, 9 July 1966, 9(3151), p.11.
- Wright, R., 1966b. Hook Line and Sinkers: History in Fiji waters

- as 345 lb mako shark is caught. *Fiji Times*, 12 November 1966, 9(3286), p.11. [www.emsps.com/photocd.corel.210000htm](http://www.emsps.com/photocd.corel.210000htm) [Accessed in 2007]. No longer available
- Wright, R., 1969. *With hook, line and snorkel in the South Pacific*. Sydney: Pacific Publications. 168 p. [www.acusd.edu/~mmorse/art.shtml](http://www.acusd.edu/~mmorse/art.shtml) [Accessed in 2007]. No longer available
- Wright, R., 1970a. A refreshing book for anyone interested in life outdoors: With hook line and snorkel in the South Pacific. *Fiji Times*, 10 January 1970, 106, p.10. [www.davidjee.com/Fiji.html](http://www.davidjee.com/Fiji.html) [Accessed in 2007]. No longer available
- Wright, R., 1970b. Hook Line Sinker: Fishing up the facts on trout. *Fiji Times*, 14 November 1970, 369, p.10. [www.pigtail.net/amy/images/fiji/nanuya/page7.html](http://www.pigtail.net/amy/images/fiji/nanuya/page7.html) [Accessed in 2007]. No longer available
- Wright, R., 1971a. Hook Line Sinker: 470 lb 'blue' was in a real jam. *Fiji Times*, 21 August 1971, 606, p.10. Wyse, E. ed., 1998. *Guinness Book of Records 1998*. Guinness Publishing. 352 p., Australian supplement 32 p.
- Wright, R., 1971b. Hook Line Sinker: They are not following the rules. *Fiji Times*, 2 October 1971, 642, p.10. Yasuda, F., and Hiyama, Y., 1971. *Pacific marine fishes. Book I*. W. Burgess and H.R. Axelrod, eds. Neptune City (NJ): T.F.H. Publications. 280 p.
- Wright, R., 1972a. Hook Line Sinker: Identifying deepwater fish is quite a problem. *Fiji Times*, 3 June 1972, 850, p.10. Yoshino, T. and Senou, H., 1953. A review of the gobiid fishes of the genus of *Ctenogobiops* from Japan. *Galaxea*, 2(1): 1-13.
- Wright, R., 1972b. Hook Line Sinker: The day a big tiger shark was landed at Suva wharf. Best yellowtail catch claimed. *Fiji Times*, 22 July 1972, 892, p.10. Zaiser, M.J. and Fricke, R., 1985. *Synchiropus moyeri*, a new species of dragonet (Callionymidae) from Miyake-jima. *Japanese Journal of Ichthyology*, 31(4): 389-397.
- Wright, R., 1972c. Hook Line Sinker: An encounter with one of nature's little jokes. *Fiji Times*, 23 December 1972, 1024, p.10. Zug, G.R., Springer, V.G., Williams, J.T. and Johnson, G.D., 1989. The vertebrates of Rotuma and surrounding waters. *Atoll Research Bulletin*, 316: 1-25.



*Belobranchus belobranchus* (Valenciennes 1837)  
image: Gerry Allan

## IX. INDEX TO FAMILIES

\* Family not found in Fiji

- A
- Acanthoclinidae 13  
 Acanthuridae 68  
 Albulidae 5  
 Alopidae 2  
 Ambassidae 13  
 Ammodytidae 5  
 Anguillidae 72  
 Anomalopidae 12  
 Antennariidae 67  
 Aploactinidae 46  
 Apogonidae 13  
 Ariommidae 27  
 Astronesthidae 7  
 Atherinidae 22  
 Aulostomidae 49
- B
- Balistidae 8  
 Belonidae 7  
 Berycidae 11  
 Blennidae 63  
 Bothidae 12  
 Bramidae 24  
 Branchiostegidae 33  
 Branchiostomidae 2  
 Bregmacerotidae 10  
 Bythitidae 67
- C
- Caesionidae 29  
 Callionymidae 61, 99  
 Caproidae 12  
 Caracanthidae 46  
 Carangidae 25  
 Carapidae 67  
 Carcharhinidae 2  
 Centrarchidae 21  
 Centriscidae 51  
 Centrolophidae 27  
 Centropomidae 12  
 Cepolidae 62  
 Chaetodontidae 43  
 Champsodontidae 62  
 Chanidae 6  
 Channidae 17  
 Characidae 10  
 Chauliodontidae 28  
 Chaunacidae 68  
 Chimaeridae 5  
 Chirocentridae 5  
 Chlopsidae 73  
 Chlorophthalmidae 9  
 Cichlidae 8  
 Cirrhitidae 45  
 Clupeidae 5  
 Congridae 73  
 Coryphaenidae 26  
 Creediidae 62  
 Cynoglossidae 12  
 Cyprinidae 9
- D
- Dactylopteridae 48  
 Dasyatidae 4  
 Dentatherinidae 22  
 Diodontidae 70  
 Drepanidae 31
- E
- Echeneidae 27  
 Echinorhinidae 3  
 Eleotridae 51  
 Elopidae 5  
 Emmelichthyidae 28  
 Engraulidae 6  
 Ephippidae 45  
 Epigonidae 16  
 Exocoetidae 7
- F
- Fistulariidae 51
- G
- Gempylidae 28  
 Gerreidae 24  
 Ginglymostomatidae 3  
 Girellidae 25  
 Gobiesocidae 62  
 Gobiidae 52  
 Gobioididae 61  
 Gonostomatidae 6  
 Grammicolepididae 12
- H
- Haemulidae 31  
 Harpadontidae 70  
 Hemigaleidae 3  
 Hemirhamphidae 9  
 Hexanchidae 3  
 Histiopteridae 45  
 Holocentridae 11
- I
- Ictaluridae 10  
 Istiophoridae 28
- K
- Kraemeriidae 62  
 Kuhliidae 16  
 Kyphosidae 45
- L
- Labridae 38  
 Lactariidae 26  
 Lamnidae 3  
 Lampridae 10  
 Leiognathidae 24  
 Lethrinidae 32  
 Liparididae 48  
 Lobotidae 16  
 Lophiidae 67
- Lutjanidae 29
- M
- Macrorhamphosidae 51  
 Macrouridae 10  
 Malacanthidae 33  
 Mastacembelidae 67  
 Megalopidae 61  
 Melanostomidae 28  
 Menidae 26  
 Microdesmidae 66  
 Mobulidae 5  
 Molidae 37  
 Monacanthidae 70  
 Monodactylidae 45  
 Moridae 10  
 Moringuidae 74  
 Mugilidae 23  
 Mullidae 21  
 Muraenesocidae 76  
 Muraenidae 74  
 Myctophidae 9  
 Myliobatidae 5
- N
- Nemipteridae 31  
 Nomeidae 27
- O
- Odontaspidae 3  
 Ogocephalidae 68  
 Omosudidae 9  
 Ophichthidae 76  
 Ophidiidae 67  
 Opistognathidae 62  
 Orectolobidae 3  
 Ostraciidae 71  
 Ostracoberycidae 12  
 Owstoniidae 62
- P
- Paralepididae 9  
 Paralichthyidae 12  
 Pempheridae 45  
 Percichthyidae 17  
 Percophidae 62  
 Pinguipedidae 61  
 Platycephalidae 48  
 Plesiopidae 13, 17  
 Pleuronectidae 12  
 Plosidae 7  
 Poecilidae 10  
 Polymixiidae 12  
 Polynemidae 24  
 Pomacanthidae 44  
 Pomacentridae 1, 33  
 Pomatidae 16  
 Pomatomidae 51  
 Priacanthidae 16  
 Pristidae 5  
 Pseudocarchariidae 3

Pseudochromidae 17  
 Psychrolutidae 48  
 Ptereleotridae 66  
 R  
 Rachycentridae 61  
 Regalecidae 10  
 Rhinodontidae 3  
 Rhionobatidae 5  
 S  
 Salmonidae 6  
 Samaridae 12  
 Scaridae 37  
 Scatophagidae 45  
 Schindleriidae 51  
 Sciaenidae 61  
 Scombridae 27  
 Scorpaenidae 46

Scyliorhinidae 3  
 Sebastidae 48  
 Serranidae 17  
 Siganidae 69  
 Soleidae 12  
 Solenostomidae 51  
 Sphyraenidae 23  
 Sphyrnidae 3  
 Squalidae 4  
 Stegostomatidae 4  
 Symphysanodontidae 61  
 Synaphobranchidae 77  
 Syngnathidae 49  
 T  
 Teraponidae 21  
 Tetraodontidae 71  
 Tetrarogidae 48  
 Toxotidae 62  
 Triakidae 4

Tricanthodidae 71  
 Trichiuridae 28  
 Trichonotidae 62  
 Triglidae 48  
 Triodontidae 71  
 Tripterygiidae 63  
 Trypauchenidae 61  
 U  
 Uranoscopidae 62  
 Urolophidae 5  
 X  
 Xenisthmidae 60  
 Xiphiidae 28  
 Z  
 Zanclidae 72  
 Zeiidae 12

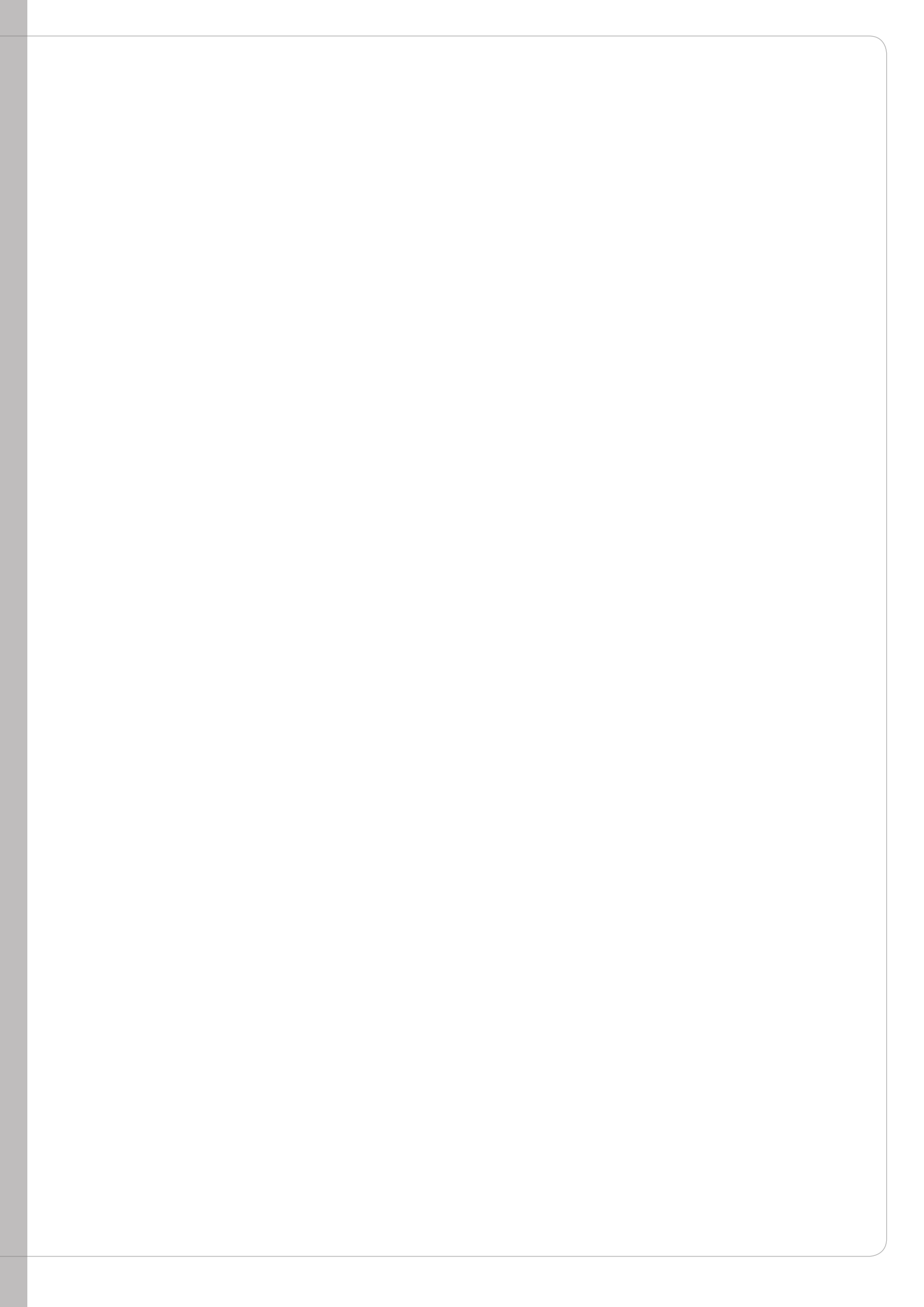
#### X. FISH FAMILIES AND SPECIES NUMBER

\*Family not found in Fiji (x) uncertain or doubtful record

ACANTHOCLINIDAE	1	CHANNIDAE	1	HAEMULIDAE	11(2)
ACANTHURIDAE	38 (6)	CHARACIDAE	1	HARPADONTIDAE (SYNODONTIDAE)	11
ALBULIDAE	3	CHAULIODONTIDAE	1	HEMIGALEIDAE	1
ALOPIDAE	3	CHAUNACIDAE	1	HEMIRHAMPHIDAE	7(1)
AMBASSIDAE	6(3)	CHIMAERIDAE	1	HEXANCHIDAE	3
AMMODYTIDAE	1	CHIROCENTRIDAE	1	HISTIOPTERIDAE	1
ANGUILLIDAE	8(2)	CHLOPSIDAE (XENCONGRIDAE)	6 (3)	HOLOCENTRIDAE	31(1)
ANOMALOPIDAE	3	CHLOROPHTHALMIDAE	1	ICTALURIDAE	1
ANTENNARIIDAE	12 (1)	CICHLIDAE	8	ISTIOPHORIDAE	9
APLOACTINIDAE	3	CIRRITIDAE	13	KRAEMERIIDAE	2
APOGONIDAE	87 (9)	CLUPEIDAE	11(11)	KUHLIIDAE	4(2)
ARIOMMIDAE	2	CONGRIDAE	20(5)	KYPHOSIDAE	4
ASTRONESTHIDAE	(1)	CORYPHAENIDAE	2	LABRIDAE	112(18)
ATHERINIDAE	7	CREEDIIDAE	4(1)	LACTARIIDAE	1
AULOSTOMIDAE	1	CYNOGLOSSIDAE	1	LAMNIDAE	4
BALISTIDAE	22 (1)	CYPRINIDAE	8(1)	LAMPRIDAE	1
BELONIDAE	9	DACTYLOPTERIDAE	1	LEIOGNATHIDAE	9 (2)
BERYCIDAE	3	DASYATIDAE	8 (2)	LETHRINIDAE	25 (3)
BLENNIDAE	79 (9)	DENTATHERINIDAE	1	LIPARIDIDAE	1
BOTHIDAE	6	DIODONTIDAE	4	LOBOTIDAE	1
BRAMIDAE	9	DREPANIDAE*	(1)	LOPHIIDAE	2
BRANCHIOSTEGIDAE	1	ECHENEIDAE	3	LUTJANIDAE	47 (9)
BRANCHIOSTOMIDAE	2	ECHINORHINIDAE	1(1)	MACRORHAMPHOSIDAE	1
BREGMACEROTIDAE	4	ELEOTRIDAE	25(3)	MACROURIDAE	4
BYTHITIDAE	16 (2)	ELOPIDAE	1(1)	MALACANTHIDAE	3
CAESIONIDAE	12	EMMELICHTHYIDAE	1	MASTACEMBELIDAE	1
CALLIONYMIDAE	8	ENGRAULIDAE	8 (2)	MEGALOPIDAE	1
CAPROIDAE	1	EPHIPPIDAE	3	MELANOSTOMIDAE	1
CARACANTHIDE	2	EPIGONIDAE	1	MENIDAE	1
CARANGIDAE	52 (2)	EXOCOETIDAE	25(1)	MICRODESMIDAE	4(1)
CARAPIDAE	6	FISTULARIIDAE	3	MOBULIDAE	4
CARCHARHINIDAE	16 (2)	GEMPYLIDAE	11	MOLIDAE	4
CENTRARCHIDAE	2	GERREIDAE	9(1)	MONACANTHIDAE	16
CENTRISCIDAE	1	GINGLYMOSTOMATIDAE	1	MONODACTYLIDAE	1
CENTROLOPHIDAE	1	GIRELLIDAE	1	MORIDAE	3
CENTROPOMIDAE*	(1)	GOBIESOCIDAE	8(1)	MORINGUIDAE	10 (1)
CEPOLIDAE	1	GOBIOIDIDAE	2	MUGILIDAE	19 (2)
CHAETODONTIDAE	38 (4)	GOBIIDAE	240(46)	MULLIDAE	20 (7)
CHAMPSODONTIDAE	1	GONOSTOMATIDAE	3	MURAENESOCIDAE	2
CHANIDAE	1	GRAMMICOLEPIDIDAE	1	MURAENIDAE	60



MYCTOPHIDAE	14(1)		SALMONIDAE	1
MYLIOBATIDAE	1		SAMARIDAE	1
NEMIPTERIDAE	11(1)		SCARIDAE	37(4)
NOMEIDAE	8		SCATOPHAGIDAE	1
ODONTASPIDIDAE	2		SCIAENIDAE*	(4)
OGOCEPHALIDAE	2		SCOMBRIDAE	16(2)
OMOSUDIDAE	1		SCORPAENIDAE	56(8)
OPHICHTHIDAE	34(2)		SCYLIORHINIDAE	1(4)
OPHIDIIDAE	3		SCHINDLERIIDAE	1
OPISTOGNATHIDAE	3		SEBASTIDAE	1
ORECTOLOBIDAE*	(1)		SERRANIDAE	87(17)
OSTRACIIDAE	7		SIGANIDAE	19(1)
OSTRACOBERYCIDAE	2		SOLEIDAE	5(2)
OWSTONIIDAE	1		SOLENOSTOMIDAE	6(2)
PARALICHTHYIDAE	1		SPHYRAENIDAE	12
PARALEPIDIDAE	1		SPHYRNIDAE	2(1)
PERCICHTHYIDAE	3		SQUALIDAE	12(3)
PERCOPHIDIDAE	1		STEGOSTOMATIDAE	1
PEMPHERIDAE	6		SYMPHYSANODONTIDAE	1
PINGUIPEDIDAE = MUGILOIDIDAE=PARAPERCIDAE	9		SYNAPHOBRANCHIDAE	3
PLATYCEPHALIDAE	5		SYNGNATHIDAE	50(8)
PLESIOPIDAE	7(1)		TERAPONIDAE	4(4)
PLEURONECTIDAE*	(1)		TETRAODONTIDAE	23(2)
PLOTOSIDAE	2		TETRAROGIDAE	2
POECILIDAE	7		TOXOTIDAE*	(1)
POLYNEMIDAE	4		TRIACANTHODIDAE	1
POLYMIXIIDAE	1		TRIAKIDAE	2
POMACANTHIDAE	22(3)		TRICHIURIDAE	1(1)
POMACENTRIDAE	93(22)		TRICHONOTIDAE	2(1)
POMATIDAE	1		TRIGLIDAE	3
POMATOMIDAE	(1)		TRIODONTIDAE	1
PRIACANTHIDAE	7		TRIPTERYGIIDAE	25(3)
PRISTIDAE	2		TRYPAUCHENIDAE	3
PSEUDOCARCHARIIDAE	1		URANOSCOPIDAE	2
PSEUDOCHROMIDAE	11(1)		UROLOPHIDAE	1
PSYCHROLUTIDAE	1		XENISTHMIDAE	5(2)
PTERELEOTRIDAE	10		XIPHIIDAE	1
RACHYCENTRIDAE*	(1)		ZANCLIDAE	1
REGALECIDAE	1		ZEIIDAE	1
RHINODONTIDAE	1		TOTAL: 2306 species (192 confirmed and 8 doubtful families)	
RHINOBATIDAE	2		Total: 2031 confirmed and 275 doubtful species.	



# The University of the South Pacific



*Division of Marine Studies Technical Report*  
No. 1/2010

A Checklist of the Fishes of Fiji and a Bibliography of Fijian Fish

