

Coastal Fishes of the Miyako Group, the Ryukyu Islands, Japan

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Key words: fish fauna, Miyako Group, Ryukyu Islands

Introduction

The Miyako Group of the Ryukyu Islands lie about 300 km southwest of the main island of Okinawa (Fig. 1). The group consists of 8 islands, such as the core island of Miyako-jima, Irabu-jima, Tarama-jima and other small islands. They are fringed by rich coral reefs, where dropoff with many caverns develops especially in Shimoji-jima and Irabu-jima Islands.

In 1795, C. P. Thunberg described a labrid fish, *Mullus fasciatus* [an objectively invalid name, see Eschmeyer (2006); = *Hemigymnus fasciatus* (Bloch, 1792)]. According to Schmidt (1931: 72), the locality given by Thunberg is "Meako," it means Miyako-jima Island. This record is not first for the Miyako Group, but also for the Ryukyu Islands.

A few small collections of fishes from "Miyako" were made by several authors from the end of 19th to the beginning of 20th centuries. Ishikawa & Matsuura (1897) listed 31 species belonging to 18 families in a catalog of the Imperial Museum, Tokyo. Jordan & Starks (1907) listed 14 species belonging to 11 families based on the specimens send by the courtesy of Dr. Chiyomatsu Ishikawa from the Imperial Museum, Tokyo to the U. S. National Museum. Izuka & Matsuura (1920) listed 15 species belonging to 10 families exhibited in the Tokyo Imperial Museum.

After 1930's, faunal works in the Miyako Group or the Ryukyu Islands including the Miyakos were carried out many times, a number of species reported from the group: e. g., 29 species belonging to 17 families by Schmidt (1931); 96 species belonging to 33 families by Aoyagi & Nagahama (1940); 73 species belonging to 22 families by Aoyagi & Nagahama (1941); 99 species belonging to 32 families by Aoyagi (1941b); 94 species belonging to 15 families by Aoyagi (1943); 49 species belonging to 23 families by Kamohara (1964); 49 species belonging to 22

families by Yamakawa (1979). On the other hand, taxonomic studies of some fish species or families were also published as same as faunal works: e. g., Aoyagi (1941a, 1941c, 1949a, 1949b, 1952, 1954a, 1954b, 1955) and Kamohara (1963a, 1963b).

As mentioned above, many species were reported from the Miyako Group, but it is difficult to give a recent taxonomic status for each species in the case of most because of their insufficient diagnosis except Dr. Hyoji Aoyagi's collection reexamined by Hayashi (1995). Recently, Senou *et al.* (2006b) analyzed zoogeographically fish faunas of 12 sites under the influence of the Kuroshio Current, revealed that the fish fauna of the Miyako Group is most similar to that of Ishigaki-jima Island. They gave a table of the fishes of the group, but indicated only the number of species belonging to each family (792 species belonging to 75 families in 17 orders).

In this paper, we provide a comprehensive species list of coastal fishes from the Miyako Group on the basis of our recent survey.

Methods

Study areas are coral reefs, bays, harbors and tide pools around the Miyako Group, including a group of coral reefs called as Yabiji (Yaepishi or Yaebishi) located in north of Ikema-jima Island.

The list of fishes was mainly compiled from a large number of photographs (4149 images including 3960 underwater photographs in total) registered in the Image Database of Fishes in the Kanagawa Prefectural Museum of Natural History (KPM-NR).

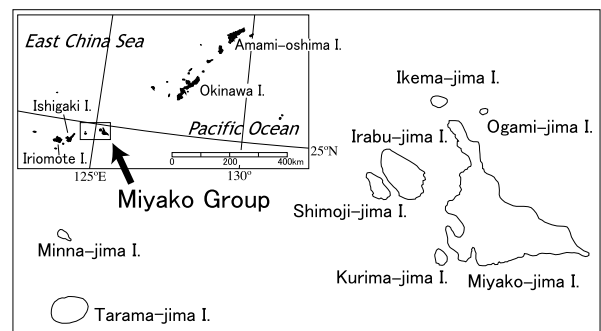


Fig. 1. Map showing position of the Miyako Group.

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Additionally, a small collection of fishes from the group deposited in the museum (KPM-NI) was included. We tried to cover as many as possible on literature sources, but some fishes recorded from offshore areas were excluded: *e. g.*, *Prognichthys sealei* Abe, 1955, *Pristigenys meyeri* (Günther, 1872), *Meganthias kingyo* (Kon, Yoshino et Sakurai, 2000), etc. Fishes with uncertain taxonomic status in early taxonomic and faunal works were also excluded.

The systematic arrangements of families followed Nakabo, ed. (2002). Scientific names generally followed Nakabo, ed. (2002) with some modifications by recent taxonomic studies. Species in each family were arranged in alphabetical order of species names. Authorship and published year followed Eschmeyer (2006) except for the date of publication of "Fauna Japonica" by Temminck & Schlegel published in 1843-1850 in which we followed Nakabo, ed. (2002: 1652). Standard Japanese names (*sensu* Senou, 2002) followed Nakabo, ed. (2002), and were transliterated in the Hepburn system. Each standard Japanese name was showed in a square brackets following a scientific name.

The following "Species List" includes 863 species belonging to 82 families in 17 orders, and species allocation to families are shown in Table 1.

Species List

Order Orectolobiformes

Family Rhinodontidae

Stegostoma fasciatum (Hermann, 1783) [Torafuzame]
KPM-NR 68529.

Order Rajiformes

Family Myliobatidae

Manta birostris (Walbaum, 1792) [Oniitomakiei]
KPM-NR 68297.

Order Anguilliformes

Family Muraenidae

Echidna nebulosa (Ahl, 1789) [Kumoutsubo]
Echidna nebulosa: Aoyagi, 1943: 21, fig. 6, pl. 1-fig. 1.
KPM-NR 64721, 68565, 69841.

Echidna zebra (Shaw, 1797) [Zeburautsubo]
KPM-NR 68556.

Gymnothorax buroensis (Bleeker, 1857) [Sangoutsubo]
Gymnothorax meleagris: Aoyagi, 1943: 30, fig. 11, pl. 2-fig. 1.

Gymnothorax chlorostigma (Kaup, 1856) [Hanabirautsubo]
KPM-NR 28945, 64719, 64720, 69519, 69891.

Gymnothorax flavimarginatus (Rüppell, 1830) [Gomautsubo]
KPM-NR 64715, 64716, 68630, 82153.

Gymnothorax isigteena (Richardson, 1845) [Nisegoishiutsubo]
Gymnothorax melanospilus: Aoyagi, 1943: 35, fig. 13, pl. 2-fig. 6.
KPM-NR 64718.

Gymnothorax melanospilos (Bleeker, 1855) [Dokuutsubo]
KPM-NR 64717.

Gymnothorax melatremus Schultz, 1953 [Himeutsubo]
KPM-NR 68417, 68483, 69410.

Gymnothorax pictus (Ahl, 1789) [Aseutsubo]
KPM-NR 69932, 82139.

Table 1. The number of species in major families occurring in the Miyako Group.

Family	No. of Species	% in Total
Gobiidae	146	16.9
Labridae	97	11.2
Pomacentridae	83	9.6
Apogonidae	45	5.2
Serranidae	34	3.9
Chaetodontidae	33	3.8
Blenniidae	32	3.7
Scaridae	26	3.0
Acanthuridae	25	2.9
Syngnathidae	19	2.2
Pomacanthidae	16	1.9
Holocentridae	15	1.7
Muraenidae	14	1.6
Ptereleotridae	14	1.6
Scorpaenidae	14	1.6
Balistidae	13	1.5
Lethrinidae	12	1.4
Lutjanidae	12	1.4
Callionymidae	11	1.3
Monacanthidae	11	1.3
Tetraodontidae	11	1.3
Mullidae	10	1.2
Tripterygiidae	10	1.2
Carangidae	9	1.0
Cirrhitidae	9	1.0
other 57 families (<1.0%)	142	16.5
Total	863	100.0

Gymnothorax undulatus (Lacepède, 1803) [Namiutsubo]

Gymnothorax undulatus undulatus: Aoyagi, 1943: 33, fig. 12, pl. 2-fig. 4.

Gymnothorax zonipectis Seale, 1906 [Hireobiutsubo]
KPM-NR 64723.

Muraena pardalis Temminck et Schlegel, 1847 [Torautsubo]
Muraena pardalis: Aoyagi, 1943: 25, fig. 8, pl. 1-fig. 4.

Pseudechidna brummeri (Bleeker, 1859) [Moyotakeutsubo]
KPM-NR 82171.

Rhinomuraena quaesita Garman, 1888 [Hanahigeutsubo]
KPM-NR 64722, 68421.

Family Ophichthidae

Pisodonophis zophistius Jordan et Snyder, 1901 [Hotateumihebi]
KPM-NR 64724, 69459.

Family Congridae

Conger cinereus Rüppell, 1830 [Kirianago]
Conger cinereus: Aoyagi, 1943: 5, fig. 1.

Heteroconger hassi (Klausewitz et Eibl-Eibesfeldt, 1959) [Chinanago]
KPM-NR 69884.

Heteroconger lentiginosus Böhlke et Randall, 1981 (Fig. 2)
KPM-NR 67322.

Remarks. The photograph agrees well with the description and figures given by Castle & Randall (1999), but specimens have not been obtained yet from Japan.

Order Clupeiformes

Family Clupeidae

Amblygaster sp.
KPM-NR 68344.

Remarks. Regarding the members of the genus *Amblygaster*, it is difficult to identify from underwater photographs.



Fig. 2. *Heteroconger lentiginosus*, KPM-NR 67322, Irabu-jima I., 10-11 m depth, photo by Y. Kobayashi.

Herklotsichthys quadrimaculatus (Rüppell, 1837) [Mizun]
KPM-NR 68271, 69489, 69807, 69969.

Spratelloides gracilis (Temminck et Schlegel, 1846) [Kibinago]
KPM-NR 69924.

Order Gonorynchiformes

Family Chanidae

Chanos chanos (Forsskål, 1775) [Sabahi]
KPM-NR 68295.

Order Siluriformes

Family Plotosidae

Plotosus lineatus (Thunberg, 1787) [Gonzui]
KPM-NR 82090, 82111.

Order Aulopiformes

Family Synodontidae

Saurida gracilis (Quoy et Gaimard, 1824) [Madaraeso]
KPM-NR 22830, 64725, 64726, 64727, 68555.

Saurida nebulosa Valenciennes, 1850 [Uchiumimadaraeso]
KPM-NR 68728, 69458.

Synodus binotatus Schultz, 1953 [Niteneso]
KPM-NR 69845.

Synodus dermatogenys Fowler, 1912 [Minamiakaeso]
KPM-NR 64729, 69812.

Synodus jaculum Russell et Cressey, 1979 [Oguroeso]
KPM-NR 64728, 64732, 69868, 69870, 82083.

Synodus rubromarmoratus Russell et Cressey, 1979
KPM-NR 64730, 64731.

Synodus variegatus (Lacepède, 1803) [Hitosujieso]
KPM-NR 68622, 68700, 69830, 69854.

Order Lampridiformes

Family Lophotidae

Lophotus capellei Temminck et Schlegel, 1845 [Akanamada]
Lophotus capellei: Senou et al., 1997: 1, fig.
KPM-NR 12036, 12037.

Order Ophidiiformes

Family Ophidiidae

Brotula multibarbata Temminck et Schlegel, 1847 [Itachiuo]
KPM-NR 82150.

Family Carapidae

Carapus mourlani (Petit, 1934) [Kazarikakureuo]
KPM-NR 16220.

Family Bythitidae

Brosomphyciops pautzkei Schultz, 1960 [Nettaiitachiuo]

Monothrix polylepis: Aoyagi, 1952: 234; Aoyagi, 1954a: 236.

Brosomphyciops pautzkei: Hayashi, 1995: 11.

Diancistrus erythraeus (Fowler, 1946) [Togetachiuo]
KPM-NI 382.

Order Lophiiformes

Family Antennariidae

Antennarius commerson (Latreille, 1804) [Omonizariuo]
KPM-NR 64733, 64734.

Antennarius maculatus (Desjardins, 1840) [Kumadoriizariuo]
KPM-NR 16352, 16353.

Antennarius randalli Allen, 1970 [Himehirataizariuo]
KPM-NR 64735, 64736, 64737, 64738, 68724, 68726, 68729.

Antennatus tuberosus (Cuvier, 1817) [Izariuomodoki]
Antennatus tuberosus: Senou & Susaki, 1996: 1, fig.
KPM-NR 5485, 68616.

Order Beryciformes

Family Holocentridae

Myripristis amaena (Castelnau, 1873) [Amematsukasa]
KPM-NR 68298, 68719.

Myripristis botche Cuvier, 1829 [Urokomatsukasa]
KPM-NR 64742.

Myripristis kuntzei Valenciennes, 1831 [Kuroobimatsukasa]
KPM-NR 64740, 64741, 68299, 69367.

Myripristis violacea Bleeker, 1851 [Seguromatsukasa]
KPM-NR 68648, 69379, 82031.

Myripristis vittata Valenciennes, 1831 [Benimatsukasa]
KPM-NR 69921.

Neoniphon sammara (Forsskål, 1775) [Ukeguchiittodai]
Holocentrus sammara: Aoyagi, 1943: 46, pl. 7-fig. 1.
KPM-NR 68302, 68448.

Sargocentron caudimaculatum (Rüppell, 1838) [Kurakakeebisu]
KPM-NR 3522, 3523, 68419, 69413.

Sargocentron diadema (Lacepède, 1802) [Nijieebisu]
KPM-NR 68301, 68414, 68463, 82165.

Sargocentron ittodai (Jordan et Fowler, 1902) [Terieebisu]
KPM-NR 64747.

Sargocentron melanospilos (Bleeker, 1858) [Sumitsukikanoko]
KPM-NR 64745, 68300, 69414.

Sargocentron praslin (Lacepède, 1802) [Kuroobieebisu]
KPM-NR 64743.

Sargocentron punctatissimum (Cuvier, 1829) [Hoshieebisu]
KPM-NR 69525.

Sargocentron rubrum (Forsskål, 1775) [Ayameebisu]
KPM-NR 64744.

Sargocentron spiniferum (Forsskål, 1775) [Togarieebisu]
Holocentrus spiniferus: Aoyagi, 1941c: 470, fig. 1.
Holocentrus spinifer: Aoyagi, 1943: 49, pl. 7-fig. 5.
KPM-NR 64746, 68479.

Sargocentron tiere (Cuvier, 1829) [Aosujieebisu]
KPM-NR 82170.

Family Monocentridae

Monocentris japonica (Houttuyn, 1782) [Matsukasauo]
KPM-NR 64739.

Order Gasterosteiformes**Family Aulostomidae**

Aulostomus chinensis (Linnaeus, 1766) [Herayagara]
Aulostomus chinensis: Aoyagi, 1943: 38, fig. 15.
KPM-NR 68288, 68514, 82206.

Family Fistulariidae

Fistularia commersonii Rüppell, 1838 [Aoyagara]
KPM-NR 68596, 68635.

Family Centriscidae

Aeoliscus strigatus (Günther, 1861) [Hekoayu]
KPM-NR 2489, 68272, 68598, 82246.

Family Solenostomidae

Solenostomus cyanopterus Bleeker, 1854 [Kamisoriuo]
KPM-NR 7579, 22862, 64751, 64752, 64753, 64754, 69952, 82056,
82162.
Solenostomus paradoxus (Pallas, 1770) [Nishikifuraiuo]
KPM-NR 64748, 64749, 64750, 64841, 68582, 68583.

Family Syngnathidae

Acentronura (*Acentronura*) *tentaculata* Günther, 1870 [Tatsunohatoko]
KPM-NR 64755, 64756, 68541.
Corythoichthys amplexus Dawson et Randall, 1975 [Obiishiyoji]
KPM-NR 7581, 64757, 64758, 69802.
Corythoichthys haematopterus (Bleeker, 1851) [Ishiyoji]
KPM-NR 2460, 7580, 64759, 82022.
Corythoichthys schultzei Herald, 1953 [Kuchinagaishiyoji]
KPM-NR 64760, 64761, 68539.
Cosmocampus banneri (Herald et Randall, 1972) [Hinayoji]
KPM-NI 430, 431.
Doryrhamphus (*Doryrhamphus*) *excisus excisus* Kaup, 1856 [Hibashiyoji]
KPM-NR 64762, 64763, 64764, 64765, 64849, 82097.
Doryrhamphus (*Doryrhamphus*) *japonicus* Araga et Yoshino, 1975
[Nokogiriyoji]
KPM-NR 68727, 82024, 82144.
Doryrhamphus (*Dunckerocampus*) *dactylophorus* (Bleeker, 1853)
[Oiranyoji]
KPM-NR 64766, 64767, 69513, 69886.
Halicampus brocki (Herald, 1953) [Nokogiriumiyakko]
KPM-NR 64771, 69913, 88228.
Halicampus dunckeri (Chabanaud, 1929) [Himehosoumiyakko]
KPM-NR 64770, 69432, 69518, 69817.
Halicampus macrorhynchus Bamber, 1915 [Tatsuumiakko]
Halicampus macrorhynchus: Senou *et al.*, 1993: 4, figs. 1-8.
KPM-NR 64768, 64769, 64822, 68540, 68584, 69520, 69521, 69885.
Halicampus nitidus (Günther, 1873) [Torafuumiyakko]
KPM-NI 433; KPM-NR 69804.
Hippocampus kuda Bleeker, 1852 [Kuroumiama]
KPM-NR 2432.
Hippocampus sp. 1 of Senou *et al.*, 2006a
KPM-NR 64876, 64877, 64883.
Hippocampus sp. 2 of Senou *et al.*, 2006a
KPM-NR 16371, 16372, 16947, 17033, 64878, 64879, 64880, 64881,
64882, 64884, 64885, 68303, 84892, 88267.

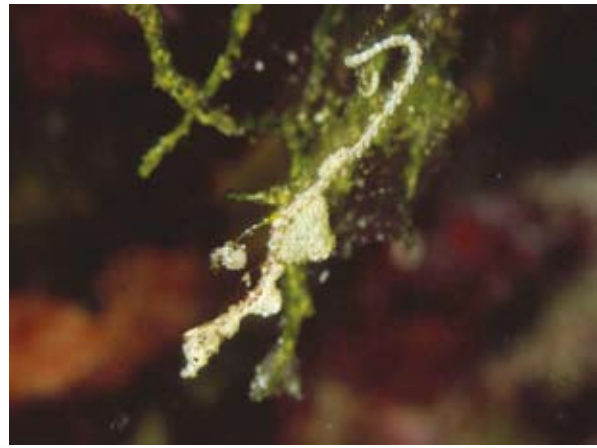


Fig. 3. Syngnathidae, indet. gen. & sp., KPM-NR 82110, Irabu-jima I., 20 m depth, photo by N. Kobayashi.

Phoxocampus diacanthus (Schultz, 1943) [Hachijoboyoji]
KPM-NR 68527, 82133.

Syngnathidae, indeterminate genus & species (Fig. 3)
KPM-NR 69831, 69915, 82067, 82110, 84843.

Remarks. This tiny fish is clearly undescribed genus and species.
H. Senou (KPM) is preparing a description of this unusual species on
the basis of a few specimens from Okinawa Island.

Syngnathoides biaculeatus (Bloch, 1785) [Togeyoji]
KPM-NI 406.

Trachyrhamphus bicoarctatus (Bleeker, 1857) [Wakayoji]
KPM-NR 82229.

Order Beloniformes**Family Belonidae**

Tylosurus crocodilus crocodilus (Péron et Lesueur, 1821) [Okizayori]
KPM-NR 35895, 35896, 69455.

Order Scorpaeniformes**Family Scorpaenidae**

Dendrochirus biocellatus (Fowler, 1938) [Hireboshiminokasago]
Dendrochirus biocellatus: Tomari, 1991: 6, fig. 3.
KPM-NR 64814, 64815.
Dendrochirus brachypterus (Cuvier, 1829) [Shimahimeyamanokami]
KPM-NR 64816, 64820, 67211.
Dendrochirus zebra (Cuvier, 1829) [Kirimmino]
KPM-NR 7590, 7591, 64812, 64813, 68568.
Pterois antennata (Bloch, 1787) [Nettaininokasago]
KPM-NR 5097, 16778, 64808, 64809, 64810, 68581, 69476.
Pterois radiata Cuvier, 1829 [Kimiokoze]
KPM-NR 2457, 64811.
Pterois volitans (Linnaeus, 1758) [Hanaminokasago]
KPM-NR 64804, 64805, 64806, 64807, 68493, 68534, 68613.
Scorpaenodes guamensis (Quoy et Gaimard, 1824) [Guamukasago]
KPM-NR 2395, 2456.
Scorpaenopsis diabolus (Cuvier, 1829) [Niraikasago]
KPM-NI 413; KPM-NR 64862, 64863, 68407, 82172.
Scorpaenopsis macrochir Ogilby, 1910 [Marusubekasago] (Fig. 4)
KPM-NR 82215.
Remarks. The identification of members of the genus *Scorpaenopsis*
is very difficult, but this species is characterized by having a short
snout and round head (Motomura *et al.*, 2004).
Scorpaenopsis papuensis (Cuvier, 1829) [Urumakasago]
KPM-NR 28928, 64783, 64784, 64785, 68531, 69914, 82092, 82112.



Fig. 4. *Scorpaenopsis macrochir*, KPM-NR 82215, Miyako-jima I., 8-10 m depth, photo by N. Kobayashi.

Sebastapistes cyanostigma (Bleeker, 1856) [Kasurifusakasago]
KPM-NR 64801, 69481.

Sebastapistes strongia (Cuvier, 1829) [Madarafusakasago]
KPM-NR 2458, 2459, 2491.

Sebastapistes tinkhami (Fowler, 1946) [Niramikasago]
KPM-NR 64802.

Taenianotus triacanthus Lacepède, 1802 [Hadakahaokoze]
Taenianotus triacanthus: Tomari, 1992: 7, fig. 2.

KPM-NR 7605, 7606, 7607, 7608, 7610, 64789, 64790, 64791,
64792, 64793, 64794, 64795, 64796, 64797, 64798, 64799, 64800,
68305, 68434, 68559, 68585, 69512.

Family Synanceiidae

Inimicus didactylus (Pallas, 1769) [Himeoniokoze]
KPM-NR 7601, 7602, 7603, 64874.

Synanceia verrucosa Bloch et Schneider, 1801 [Onidarumaokoze]
KPM-NR 2487, 68655.

Family Tetraogidae

Ablabys taenianotus (Cuvier, 1829) [Tsumajirookoze]
KPM-NR 5098, 5099, 64869, 64870, 64871, 64872, 64873,
68304, 68306, 68307, 82018, 82134, 82240.

Family Aploactinidae

Cocotropus larvatus Poss et Allen, 1987 [Hyottokookoze]
KPM-NR 82007, 82197.

Paraploactis kagoshimensis (Ishikawa, 1904) [Kagoshimaokoze]
KPM-NI 5355; KPM-NR 16779.

Family Caracanthidae

Caracanthus maculatus (Gray, 1831) [Dangookoze]
KPM-NR 64875.

Family Platycephalidae

Cymbacephalus beauforti (Knapp, 1973) [Emmagochi]
KPM-NR 68274, 68275, 68276, 69951.

Sunagocia arenicola (Schultz, 1966) [Sunagochi]
KPM-NR 2394.

Thysanophrys chiltonae Schultz, 1966 [Kuroshimagochi]
KPM-NR 68277, 68577, 68721, 69848.

Family Dactylopteridae

Dactyloptena orientalis (Cuvier, 1829) [Semihobo]
KPM-NR 68273.

Order Perciformes

Family Centrogeniidae

Centrogenys vaigiensis (Quoy et Gaimard, 1824) [Onihata]

Centrogenys vaigiensis: Hatooka *et al.*, 1994: 2, figs. 1-3;
Hatooka, 2002: 682, fig.

KPM-NI 394, 404, 405.

Family Serranidae

Belonoperca chabanaudi Fowler et Bean, 1930 [Yamisuzuki]
KPM-NR 64929, 64930, 68322.

Cephalopholis argus Bloch et Schneider, 1801 [Aonomehata]
KPM-NR 64912.

Cephalopholis leopardus (Lacepède, 1801) [Minamiisohata]
KPM-NR 68312.

Cephalopholis miniata (Forsskål, 1775) [Yukatahata]
KPM-NR 67199, 68309, 68310, 68696, 69366, 69880.

Cephalopholis polleni (Bleeker, 1868) [Minamihata]
KPM-NR 64916, 68530.

Cephalopholis spiloparaea (Valenciennes, 1828) [Akahana]
KPM-NR 64915, 68658.

Cephalopholis urodeta (Forster, 1801) [Nijihata]
KPM-NR 28931, 64913, 64914, 68638, 69395, 69402.

Diploprion bifasciatum Cuvier, 1828 [Kihassoku]
KPM-NR 64928, 68497.

Epinephelus cyanopodus (Richardson, 1846) [Tsuchihozeri]
KPM-NR 64917, 64918, 68311.

Epinephelus fasciatus (Forsskål, 1775) [Akahata]
KPM-NR 64919.

Epinephelus hexagonatus (Forster, 1801) [Ishigakihata]
KPM-NR 64922, 64923, 69411, 69503.

Epinephelus maculatus (Bloch, 1790) [Shirobuchihata]
KPM-NR 64924, 68308, 69956.

Epinephelus merra Bloch, 1793 [Kammonhata]
KPM-NR 64921, 69876.

Epinephelus ongus (Bloch, 1790) [Namiyata]
KPM-NR 64920, 69426.

Epinephelus polyphekadion (Bleeker, 1849) [Madarahata]
KPM-NR 68426, 68732.

Gracila albomarginata (Fowler et Bean, 1930) [Tatesujihata]
KPM-NR 64909, 64910, 64911, 68313, 68416, 69401.

Grammistes sexlineatus (Thunberg, 1792) [Nunosarashi]
KPM-NR 7633, 7634, 7635, 64925, 64926, 64927, 68580.

Liopropoma sp. (Fig. 5)

KPM-NR 68526.

Remarks. This species is similar to *Liopropoma tonstrinum* described



Fig. 5. *Liopropoma* sp., KPM-NR 68526, Shimoji-jima I., 30 m depth, photo by N. Kobayashi.

as new by Randall & Taylor (1988), but it differs from their species in having two narrower lateral yellowish orange stripes and lacking a midlateral white stripe. Specimens have not been obtained yet, its taxonomic status is unknown.

Plectranthias longimanus (Weber, 1913) [Chibihanadai]
KPM-NR 64886, 68315, 69905.

Plectropomus leopardus (Lacepède, 1802) [Sujiara]
KPM-NR 68649, 68671, 68687, 82040.

Pogonoperca punctata (Valenciennes, 1830) [Agohata]
KPM-NR 68314.

Pseudanthias bicolor (Randall, 1979) [Futairohanagoi]
KPM-NR 68318, 68319, 68320, 68321.

Pseudanthias cooperi (Regan, 1902) [Kashiwanadai]
KPM-NR 64897, 68482, 82107, 82141.

Pseudanthias dispar (Herre, 1955) [Akanehanagoi]
KPM-NR 28950, 64902, 64903, 64904, 68681, 82233.

Pseudanthias fasciatus (Kamohara, 1954) [Sujihanadai]
Pseudanthias fasciatus: Tomari, 1991: 6, fig. 2.
KPM-NR 64896.

Pseudanthias hypselosoma Bleeker, 1878 [Keramahanadai]
KPM-NR 7614, 64898, 64899.

Pseudanthias pascalus (Jordan et Tanaka, 1927) [Hanagoi]
KPM-NR 3582, 3583, 64905, 64906, 68317, 68501, 69912.

Pseudanthias pleurotaenia (Bleeker, 1857) [Sumirenagahanadai]
Pseudanthias pleurotaenia: Tomari, 1991: 6, fig. 1.
KPM-NR 3584, 3585, 64893, 64894, 64895, 68316.

Pseudanthias randalli (Lubbock et Allen, 1978) [Fuchidorihanadai]
KPM-NR 64900, 64901.

Pseudanthias smithvanizi (Randall et Lubbock, 1981) [Otenhanagoi]
KPM-NR 64907.

Pseudanthias squamipinnis (Peters, 1855) [Kinyohanadai]
KPM-NR 64890, 64891, 64892.

Serranocirrhitus latus Watanabe, 1949 [Hanagombe]
KPM-NR 3622, 3623, 64887, 64888, 64889, 68464.

Variola albimarginata Baissac, 1953 [Ojirobarahata]
KPM-NR 69407.

Variola louti (Forsskål, 1775) [Barahata]
KPM-NR 64908, 82042, 82095.

Family Pseudochromidae

Cypho zaps Gill, 2004 (Fig. 6)
KPM-NR 10556, 16780, 64942.

Remarks. The photographs agree well with the figures of the original description given by Gill (2004), but specimens have not been obtained yet from Japan.



Fig. 6. *Cypho zaps*, KPM-NR 64942, Shimoji-jima I., 12 m depth, photo by Y. Kobayashi



Fig. 7. *Pseudoplesiops* sp., a preserved specimen of KPM-NI 418, 18.1 mm SL, Ikema-jima I., 10 m depth, photo by H. Senou.

Labracinus cyclophthalma (Müller et Troschel, 1849) [Megisu]
KPM-NR 64931, 64932, 64933.

Pseudochromis cyanotaenia Bleeker, 1857 [Ryukyunisuzume]
KPM-NR 64938, 64939, 68323, 68571, 69421, 69927.

Pseudochromis fuscus Müller et Troschel, 1849 [Sedakanisesuzume]
KPM-NI 432; KPM-NR 27830, 64934, 64935, 68324, 68325, 68326.

Pseudochromis marshallensis Schultz, 1953 [Hoshinisesuzume]
KPM-NR 64940, 82187.

Pseudochromis porphyreus Lubbock et Goldman, 1974 [Kurenainisesuzume]
KPM-NR 64936, 64937, 69890.

Pseudochromis sp. of Senou *et al.*, 2006a
KPM-NR 64941, 82189.

Pseudochromis tapeinosoma Bleeker, 1853 [Katsuirinisesuzume]
Pseudochromis tapeinosoma: Aoyagi, 1943: 107, pl. 33-fig. 1.

Family Pseudoplesiopidae

Amsichthys knighti (Allen, 1987) [Ometanabatamegisu]
KPM-NR 64824, 64950, 68327, 88269.

Pseudoplesiops sp. (Fig. 7)
KPM-NI 418.

Remarks. This species is common in the Ryukyu Islands, but the taxonomic status is unknown.

Family Congrogadidae

Congrogadus subducens (Richardson, 1843) [Senningaji]
Congrogadus subducens: Aoyagi, 1941b: 300, pl. 19; Aoyagi, 1943: 223, pl. 30; Aizawa, 2002: 1542.

Family Plesiopidae

Assessor randalli Allen et Kuiter, 1976 [Tsubametabatauo]
KPM-NR 64948, 64949.

Belonepterygion fasciolatum (Ogilby, 1889) [Togetanabatauo]
Belonepterygion fasciolatum: Hayashi, 1995: 14.

Callopleysiops altivelis (Steindachner, 1903) [Shimofuritanabatauo]
KPM-NR 64943, 64944, 64945, 64946, 64947, 68602.

Plesiops coeruleolineatus Rüppell, 1835 [Tanabatauo]
Plesiops melas: Aoyagi, 1943: 91.

Plesiops oxycephalus Bleeker, 1855 [Okinawatanabatauo]
KPM-NI 2819.

Family Priacanthidae

Heteropriacanthus cruentatus (Lacepède, 1801) [Gomahirekintoki]
KPM-NR 69850, 82173.

Priacanthus hamrur (Forsskål, 1775) [Hosekikintoki]
KPM-NR 68278, 68279, 68342.

Family Apogonidae

- Apogon angustatus* (Smith et Radcliffe, 1911) [Usujimaishimochi]
KPM-NR 64823, 64976, 64977, 64978, 68502, 69382.
- Apogon apogonides* (Bleeker, 1856) [Aohanatenjikudai]
KPM-NR 69881.
- Apogon aureus* (Lacepède, 1802) [Aosujitenjikudai]
KPM-NR 69493, 69882.
- Apogon bandanensis* Bleeker 1854 [Bandaishimochi]
Apogon bandanensis: Aoyagi, 1943: 77, pl. 7-fig. 2; Hayashi, 1995: 14.
- Apogon compressus* (Smith et Radcliffe, 1911) [Hiratenjikudai]
KPM-NR 26497, 68503, 69977.
- Apogon cookii* Macleay, 1881 [Sujiishimochi]
Apogon endekataenia: Aoyagi, 1943: 83, fig. 23.
KPM-NR 2461.
- Apogon crassiceps* Garman, 1903 [Akanetenjikudai]
KPM-NI 385; KPM-NR 64985, 69922.
- Apogon cyanosoma* Bleeker, 1853 [Akahoshikinsenishimochi]
KPM-NR 64971, 69863, 82071.
- Apogon dispar* Fraser et Randall, 1976 [Kaburayatenjikudai]
Apogon dispar: Hayashi *et al.*, 1992: 4, figs. 3-5.
KPM-NR 64961, 64962.
- Apogon erythrinus* Snyder, 1904 [Ryukyuishimochi]
Apogon erythrinus: Hayashi, 1995: 14.
KPM-NR 64828.
- Apogon evermanni* Jordan et Snyder, 1904 [Tomarihihiotenjikudai]
Apogon evermanni: Hayashi *et al.*, 1992: 2, figs. 1 & 2.
KPM-NR 64983.
- Apogon exostigma* (Jordan et Starks, 1906) [Yukataishimochi]
KPM-NR 64980, 67210, 69409, 82163, 82212.
- Apogon fraenatus* Valenciennes, 1832 [Hitosujiishimochi]
KPM-NR 64982, 82201.
- Apogon guamensis* Valenciennes, 1832 [Hososujinamidatenjikudai]
KPM-NR 2429.
Remarks. We follow Fraser *et al.* (1999) on the taxonomic status of this species.
- Apogon ishigakiensis* Ida et Moyer, 1974 [Miyakoishimochi]
Apogon novaeguineae: Aoyagi & Nagahama, 1941: 32; Aoyagi, 1943: 76, fig. 18.
Apogon ishigakiensis: Hayashi, 1995: 15.
KPM-NI 397; KPM-NR 2428.
- Apogon kallopterus* Bleeker, 1856 [Kasuriishimochi]
KPM-NR 64981, 68328.
- Apogon nigrofasciatus* Lachner, 1953 [Minamifutosujiishimochi]
KPM-NR 7642, 7643, 64844, 64972, 64973, 64974, 64975, 68334, 69523, 82069, 82164.
- Apogon notatus* (Houttuyn, 1782) [Kurohoshiishimochi]
KPM-NR 64966, 68333.
- Apogon novemfasciatus* Cuvier, 1828 [Tasuiishimochi]
KPM-NR 82082.
- Apogon properuptus* (Whitley, 1964) [Kinsenishimochi]
KPM-NR 7640, 7641, 64967, 64968, 64969, 64970, 82058, 82213.
- Apogon rufus* Randall et Fraser, 1999 [Akahireishimochi] (Fig. 8)
KPM-NR 64848.
Remarks. We follow Randall & Fraser (1999) and Miyahara *et al.* (2005) on the taxonomic status of this species.
- Apogon sangiensis* Bleeker, 1857 [Sangiriishimochi]
KPM-NR 2431.
- Apogon savayensis* Günther, 1872 [Namidatenjikudai]
KPM-NR 64963, 64964, 64965.
- Apogon selas* Randall et Hayashi, 1990 [Nagareboshi]
KPM-NR 64979, 68329.



Fig. 8. . *Apogon rufus*, KPM-NR 64848, Shimoji-jima I., 15 m depth, photo by N. Kobayashi.

- Apogon trimaculatus* Cuvier, 1828 [Misujiakahireishimochi]
KPM-NR 64986, 64987.
- Archamia dispilus* Lachner, 1951 [Sumitsukiatohikitenjikudai]
KPM-NR 64989, 64990, 68477, 82226.
Remarks. Gon & Randall (2003a) regarded *Archamia dispilus* as a synonym of *Archamia fucata* (Cantor, 1849). However, *A. dispilus* is distinguished from *A. fucata* in having 9 soft rays in the second dorsal fin (7 in *A. fucata*) (Hayashi, 2000). Further study is needed for decision of the taxonomic status of both nominal species.
- Archamia zosterophora* (Bleeker, 1856) [Kuroobiatohikitenjikudai]
KPM-NR 64991, 68542.
- Cercamia eremia* (Allen, 1987) [Sakuratenjikudai]
KPM-NR 65002, 68664, 68665, 69357, 69849, 82060, 82061, 82239.
- Cheilodipterus artus* Smith, 1961 [Kasumiyaiaiishimochi]
KPM-NR 64960.
- Cheilodipterus intermedius* Gon, 1993 [Sudareyaraishimochi]
KPM-NR 64957, 64958, 64959, 68332, 69372.
- Cheilodipterus macrodon* (Lacepède, 1802) [Ryukyuyaraishimochi]
Cheilodipterus macrodon: Aoyagi, 1943: 88, pl. 7-fig. 3.
KPM-NR 64954, 64955, 64956, 65007, 82220.
- Cheilodipterus quinquelineatus* Cuvier, 1828 [Yaraishimochi]
Cheilodipterus quinquelineatus: Aoyagi, 1943: 87, pl. 7-fig. 6; Hayashi, 1995: 15.
KPM-NR 7644, 7645, 7646, 64952, 64953, 69821.
- Foa abocellata* (Goren et Karplus, 1980) [Shiboridamashi]
KPM-NI 407, 410, 414.
Remarks. Gon & Randall (2003b) regarded *Foa abocellata* as a synonym of *Fowleria vaiulae* Jordan et Seale, 1906. Further study is needed for decision of the taxonomic status of both nominal species.
- Foa brachygramma* (Jenkins, 1903) [Taiwammatoishimochi]
Apogonichthys perdix: Hayashi, 1995: 15.
KPM-NI 403; KPM-NR 64829.
- Fowleria* sp. (Fig. 9)
KPM-NI 408, 409.
Remarks. This species is relatively common in the Ryukyu Islands, but the taxonomic status is unknown.
- Fowleria variegata* (Valenciennes, 1832) [Shibori]
Fowleria aurita: Hayashi, 1995: 16.
KPM-NR 2430, 64951.
- Pseudamia gelatinosa* Smith, 1955 [Numeritenjikudai]
KPM-NR 2427.
- Pseudamia hayashii* Randall, Lachner et Fraser, 1985 [Sabikudaribozugisumodoki]
KPM-NI 383, 384.



Fig. 9. *Fowleria* sp., KPM-NI 409, a fresh specimen, 31.6 mm SL, Ikema-jima I., 10 m depth, photo by H. Senou.

Pseudamia zonata Randall, Lachner et Fraser, 1985

[Shimakudaribozugisumodoki]

KPM-NI 386; KPM-NR 65003, 69452, 69453.

Pseudamiops gracilicauda (Lachner, 1953) [Kudaribozugisumodoki]

Pseudamiops gracilicauda: Hayashi, 1995: 16.

KPM-NI 381.

Rhabdamia cypselura Weber, 1909 [Kurosujisukashitenjikudai]

KPM-NR 64992, 64993.

Rhabdamia gracilis (Bleeker, 1856) [Sukashitenjikudai]

KPM-NR 64994, 64995, 64996, 64997, 64998, 64999, 65000, 65001.

Siphamia majimai Matsubara et Iwai, 1958 [Majimakuroishimochi]

KPM-NR 29986, 69494.

Zoramia leptacanthus (Bleeker, 1856-1857) [Itohikitenjikudai]

KPM-NR 64984, 68330, 69439.

Remarks. We follow Greenfield *et al.* (2005) on the taxonomic status of this species.

Zoramia viridiventer Greenfield, Langston et Randall, 2005

[Usumomotenjikudai]

KPM-NR 64988, 68331.

Remarks. We follow Greenfield *et al.* (2005) on the taxonomic status of this species.

Family Malacanthidae

Hoplolatilus cuniculus Randall et Dooley, 1974 [Okinawasangoamadaï]

KPM-NR 65017, 69449.

Malacanthus brevirostris Guichenot, 1848 [Yaseamadaï]

KPM-NR 65018.

Malacanthus latovittatus (Lacepède, 1801) [Kitsuneamadaï]

KPM-NR 65019, 67202, 68662.

Family Carangidae

Carangoides armatus (Rüppell, 1830) [Yoroiaji]

KPM-NR 68296.

Carangoides orthogrammus (Jordan et Gilbert, 1882) [Nanyokaiwari]

KPM-NR 82091.

Caranx ignobilis (Forsskål, 1775) [Roninaji]

KPM-NR 68673, 68674.

Caranx melampygus Cuvier, 1833 [Kasumiaji]

KPM-NR 68290.

Decapterus macarellus (Cuvier, 1833) [Kusayamoro]

KPM-NR 64835.

Elagatis bipinnulata (Quoy et Gaimard, 1825) [Tsumuburi]

KPM-NR 68293.

Gnathanodon speciosus (Forsskål, 1775) [Koganeshimaaji]

KPM-NR 68294, 69810.

Pseudocaranx dentex (Bloch et Schneider, 1801) [Shimaaji]

KPM-NR 82204.

Trachinotus bailloni (Lacepède, 1801) [Kobanaji]

KPM-NR 35903.

Family Lutjanidae

Aphareus furca (Lacepède, 1801) [Ishifuedai]

KPM-NR 65034, 69902, 69934.

Aprion virescens Valenciennes, 1830 [Aochibiki]

KPM-NR 65035, 82178.

Lutjanus bohar (Forsskål, 1775) [Barafuedai]

KPM-NR 65020, 65021, 65022, 65023, 65024, 69958.

Lutjanus decussatus (Cuvier, 1828) [Amimefuedai]

KPM-NR 67193.

Lutjanus fulvus (Forster, 1801) [Okifuedai]

KPM-NR 69394.

Lutjanus gibbus (Forsskål, 1775) [Himefuedai]

KPM-NR 65025, 69434, 69879, 69990.

Lutjanus kasmira (Forsskål, 1775) [Yosujifuedai]

KPM-NR 28933.

Lutjanus quinquelineatus (Bloch, 1790) [Rokusenfuedai]

KPM-NR 65026, 65027, 68345.

Macolor macularis Fowler, 1931 [Hohosujitarumi]

KPM-NR 65028, 65029, 68500, 82130.

Macolor niger (Forsskål, 1775) [Madaratarumi]

KPM-NR 65030, 65031, 68536, 68564.

Paracaesio sordida Abe et Shinohara, 1962 [Yogoreaodai]

KPM-NR 65033.

Symphorichthys spilurus (Günther, 1874) [Irezumifuedai]

KPM-NR 65032.

Family Caesionidae

Caesio lunaris Cuvier, 1830 [Hanatakasago]

KPM-NR 7802, 65039, 67200.

Caesio teres Seale, 1906 [Umeiromodoki]

KPM-NR 3791, 3792, 22983, 65038, 67201, 68579, 68683, 69408.

Pterocaesio digramma (Bleeker, 1864) [Takasago]

KPM-NR 65036, 82074.

Pterocaesio marri Schultz, 1953 [Nisetakasago]

KPM-NR 65042.

Pterocaesio tile (Cuvier, 1830) [Kumasasahanamuro]

KPM-NR 65040, 68672.

Pterocaesio trilineata Carpenter, 1987 [Issentakasago]

KPM-NR 65041, 65114, 82073.

Family Haemulidae

Diagramma melanacrum Johnson et Randall, 2001 (Fig. 10)

KPM-NR 65062.

Remarks. The photograph agrees well with the figures of the original description given by Johnson *et al.* (2001).



Fig. 10. *Diagramma melanacrum*, KPM-NR 65062, Miyako-jima I., 18 m depth, photo by Y. Kobayashi.



Fig. 11. *Pentapodus aureofasciatus*, juvenile, KPM-NR 82193, Irabu-jima I., 30 m depth, Photo N. Kobayashi.

Diagramma pictum (Thunberg, 1792) [Korodai]

KPM-NR 65060, 65061, 69429.

Plectorhinchus chaetodonoides Lacepède, 1801 [Chochokoshodai]

KPM-NR 65043, 65044, 65045, 65046, 68499, 68592, 68594, 68601.

Plectorhinchus lessonii (Cuvier, 1830) [Hiregurokoshodai]

KPM-NR 22991, 65047, 65048, 65049, 65050, 65051, 65052, 65053, 65054, 65055, 68504, 69966, 82241.

Plectorhinchus lineatus (Linnaeus, 1758) [Ayakoshodai]

KPM-NR 68335, 68411.

Plectorhinchus picus (Cuvier, 1830) [Ajiakoshodai]

KPM-NR 7652, 7653, 7654, 65056, 65057, 65058, 65059, 67198, 68422, 82122, 82129.

Family Nemipteridae

Pentapodus aureofasciatus Russell, 2001 (Fig. 11)

KPM-NR 65077, 65078, 65079, 65113, 82193.

Remarks. All photographs are the juvenile of this species, and they agree well with the figure of a juvenile given by Randall (2005). We follow Russell (2001) and Randall (2005) on the taxonomic status of this species. It is relatively common in the Ryukyu Islands.

Pentapodus caninus (Cuvier, 1830) [Kitsuneuo]

KPM-NR 65071, 65072, 65073, 65074, 65080, 65081, 65082, 65083, 65084, 65085, 68339, 68340, 68560, 69954, 69955, 69964, 82200.

Pentapodus nagasakiensis (Tanaka, 1915) [Itotamagashira]

KPM-NR 65075, 65076, 82089.

Scolopsis affinis Peters, 1877 [Himetamagashira]

KPM-NR 65092, 65093, 65094, 65095, 65096, 65097, 65098, 65099, 65122, 65123, 68481, 82081.

Scolopsis bilineata (Bloch, 1793) [Futasujitamagashira]

KPM-NR 28946, 65089, 65090, 65091.

Scolopsis lineata Quoy et Gaimard, 1824 [Yokoshimatamagashira]

KPM-NR 67192, 68341.

Scolopsis monogramma (Cuvier, 1830) [Hitosujitamagashira]

KPM-NR 65087, 65088, 69456.

Scolopsis xenochrous Günther, 1872 [Kamentamagashira]

KPM-NR 65100, 65101, 65102, 65103, 65104, 65105, 82198.

Family Lethrinidae

Gnathodentex aureolineatus (Lacepède, 1802) [Nokogiridai]

KPM-NR 65067, 69871.

Gymnocranius euanus (Günther, 1879) [Shirodai]

KPM-NR 65066, 68657.

Gymnocranius griseus (Temminck et Schlegel, 1844) [Meichidai]

Gymnocranius griseus: Hayashi, 1995: 16.

KPM-NR 64864, 65116, 67194, 67195.

Gymnocranius sp. of Shimada, 2002 [Tamameichi]

KPM-NR 67321.

Lethrinus atkinsoni Seale, 1909 [Isofuefuki]

KPM-NR 67197, 68669, 82041, 82161.

Lethrinus harak (Forsskål, 1775) [Matofuefuki]

KPM-NR 68336, 68337.

Lethrinus microdon Valenciennes, 1830 [Ofuefuki]

KPM-NR 65119.

Lethrinus nebulosus (Forsskål, 1775) [Hamafuefuki]

KPM-NR 68338.

Lethrinus obsoletus (Forsskål, 1775) [Tateshimafuefuki]

KPM-NR 65068.

Lethrinus ornatus Valenciennes, 1830 [Hanafuefuki]

KPM-NR 65069.

Monotaxis grandoculis (Forsskål, 1775) [Yokoshimakurodai]

KPM-NR 65064, 65065, 82099.

Monotaxis heterodon (Bleeker, 1854) (Fig. 12)

KPM-NR 7655, 7656, 7657, 7658, 7659, 65063, 65115, 67196, 68544, 69869.

Remarks. We follow Randall (2005) on the taxonomic status of this species.

Family Mullidae

Mulloidichthys flavolineatus (Lacepède, 1801) [Montsukiakahimeji]

Mulloidichthys flavolineatus: Hayashi, 1995: 16.

KPM-NR 65107, 68517.

Mulloidichthys vanicolensis (Valenciennes, 1831) [Akahimeji]

KPM-NR 28934, 28944, 65108, 65110, 82053.



Fig. 12. *Monotaxis heterodon*, KPM-NR 65063, juvenile (top), Yaebishi (Yabiji) off Miyako-jima I., 12–15 m depth; KPM-NR 67196, adult (bottom), Shimoji-jima I., 12–15 m depth, photos by Y. Kobayashi.

- Parupeneus barberinoides* (Bleeker, 1852) [Indohimeji]
KPM-NR 67204.
- Parupeneus barberinus* (Lacepède, 1801) [Osujihimeji]
Parupeneus barberinus: Hayashi, 1995: 16.
KPM-NR 23007, 65111, 67205, 82038.
- Parupeneus ciliatus* (Lacepède, 1802) [Horaihomeji]
KPM-NR 68348, 69965.
- Parupeneus cyclostomus* (Lacepède, 1801) [Marukuchihomeji]
KPM-NR 65109, 68347, 68442, 69522.
- Parupeneus heptacanthus* (Lacepède, 1802) [Takasagohimeji]
KPM-NR 69808.
- Parupeneus multifasciatus* (Quoy et Gaimard, 1825) [Ojisan]
Parupeneus trifasciatus: Hayashi, 1995: 16.
KPM-NR 35901, 67203, 69404.
- Parupeneus pleurostigma* (Bennett, 1831) [Ryukyuhomeji]
Parupeneus pleurostigma: Hayashi, 1995: 16.
KPM-NR 65112.
- Upeneus tragula* Richardson, 1846 [Yomehomeji]
KPM-NR 65106.

Family Pempheridae

- Parapriacanthus ransonneti* Steindachner, 1870 [Kimmemodoki]
KPM-NR 3782, 65009, 65124.
- Pempheris* sp. of Hatooka, 2002 [Ryukyuhatampo]
KPM-NR 68280, 68281, 69373.
- Pempheris schwenkii* Bleeker, 1855 [Minamihatampo]
KPM-NR 68343.

Family Monodactylidae

- Monodactylus argenteus* (Linnaeus, 1758) [Himetsubameuo]
Monodactylus argenteus: Hatooka, 2002: 882.

Family Chaetodontidae

- Chaetodon argentatus* Smith et Radcliffe, 1911 [Kagamichochouo]
KPM-NR 23029, 65125, 65126, 69354.
- Remarks. A probable hybrid (KPM-NR 65127) of this species and *Chaetodon xanthurus* was photographed at the western part of Miyakojima Island by the second author.
- Chaetodon auriga* Forsskål, 1775 [Togechochouo]
Chaetodon auriga: Okada & Ikeda, 1936: 257, pl. 14, fig. 1; Aoyagi, 1943: 174, fig. 47, pl. 23; Hayashi, 1995: 17.
KPM-NR 35904, 65128, 65129, 69378, 69862.
- Chaetodon auripes* Jordan et Snyder, 1901 [Chochouo]
KPM-NR 65131, 68351, 69377.
- Chaetodon baronessa* Cuvier, 1829 [Mikadochochouo]
KPM-NR 65130, 82085.
- Chaetodon bennetti* Cuvier, 1831 [Umizukichochouo]
KPM-NI 3281; KPM-NR 68350.
- Chaetodon citrinellus* Cuvier, 1831 [Gomachochouo]
Chaetodon citrinellus: Aoyagi, 1943: 166, pl. 10-fig. 2.
KPM-NR 28935, 65132.
- Chaetodon ephippium* Cuvier, 1831 [Segurochochouo]
KPM-NR 23023, 65133, 65134.
- Chaetodon kleinii* Bloch, 1790 [Mizorechochouo]
KPM-NR 65135, 65136.
- Chaetodon lineolatus* Cuvier, 1831 [Nisefuraichochouo]
KPM-NR 65137.
- Chaetodon lunula* (Lacepède, 1802) [Chohan]
Chaetodon fasciatus: Okada & Ikeda, 1936: 259, pl. 14, fig. 2.
Chaetodon lunula: Aoyagi, 1943: 156, fig. 43, pl. 13.
KPM-NR 65138, 68353.

- Chaetodon lunulatus* Quoy et Gaimard, 1825 [Misujichochouo]
Chaetodon trifasciatus: Aoyagi, 1943: 163, pl. 17.
KPM-NI 3282; KPM-NR 3861, 3862, 35897, 65155, 69805, 69953.
- Chaetodon melannotus* Bloch et Schneider, 1801 [Akebonochochouo]
Chaetodon melannotus: Okada & Ikeda, 1936: 263, pl. 14, fig. 3.
Chaetodon melanotus[sic]: Aoyagi, 1943: 158, pl. 14.
KPM-NR 65139, 68354.
- Chaetodon mertensii* Cuvier, 1831 [Beniochochouo]
KPM-NR 69963.
- Chaetodon ornatissimus* Cuvier, 1831 [Hanagurochochouo]
KPM-NR 65140, 65141, 65142, 65143, 65144.
- Chaetodon plebeius* Cuvier, 1831 [Sumitsukitonosamadaï]
Chaetodon plebeius: Aoyagi, 1943: 167, fig. 45, pl. 19.
KPM-NR 65145, 65146, 67207.
- Chaetodon punctatofasciatus* Cuvier, 1831 [Shichisenchochouo]
KPM-NR 65147, 65148, 65149, 65150, 65151.
- Chaetodon rafflesi* Anonymous [Bennett], 1830 [Amichochouo]
KPM-NR 68352.
- Chaetodon reticulatus* Cuvier, 1831 [Hakutenkatagi]
KPM-NR 65152.
- Remarks. A pair of probable hybrids (KPM-NR 4905 & 4906) was photographed at Cape of Higashiheannazaki, Miyakojima Island by M. Tomari on June 1995. One of this pair is a probable hybrid of this species and *Chaetodon meyeri* Bloch et Schneider, 1801, another one is a probable hybrid of this species and *C. ornatissimus*.
- Chaetodon speculum* Cuvier, 1831 [Tonosamadaï]
KPM-NR 68349, 69374.
- Chaetodon trifascialis* Quoy et Gaimard, 1825 [Yarikatagi]
KPM-NR 65153, 65154, 67208, 69985.
- Chaetodon ulietensis* Cuvier, 1831 [Sudarechochouo]
Anisochaetodon falcula: Aoyagi, 1943: 169, pl. 21.
KPM-NR 65156.
- Chaetodon unimaculatus* Bloch, 1787 [Ittenchochouo]
KPM-NR 65157, 65158, 65159.
- Chaetodon vagabundus* Linnaeus, 1758 [Furaichochouo]
Chaetodon vagabundus: Aoyagi, 1941b: 296, fig. 3; Aoyagi, 1943: 174, figs. 48 & 49, pl. 10-fig. 3; Hayashi, 1995: 17.
KPM-NR 28930, 65160, 67209.
- Chaetodon xanthurus* Bleeker, 1857 [Amimechochouo]
KPM-NR 65161, 65162, 65163.
- Forcipiger flavissimus* Jordan et McGregor, 1898 [Fueyakkodai]
KPM-NR 3865, 3866, 65164.
- Forcipiger longirostris* (Broussonet, 1782) [Ofueyakkodai]
KPM-NR 65165.
- Hemitaurchithys polylepis* (Bleeker, 1857) [Kasumichochouo]
Hemitaurchithys zoster: Okada & Ikeda, 1936: 268, pl. 15, fig. 1; Aoyagi, 1943: 147, pl. 11-fig. 3.
KPM-NR 65166.
- Heniochus acuminatus* (Linnaeus, 1758) [Hatatatedai]
KPM-NR 65167, 65168, 67206, 68355, 69809.
- Heniochus chrysostomus* Cuvier, 1831 [Minamihatatatedai]
KPM-NR 23013, 68356, 69380, 69437.
- Heniochus diphreutes* Jordan, 1903 [Murehatatatedai]
Heniochus acuminatus: Aoyagi, 1941b: 297, fig. 4 (the caption is *Chaetodon auriga*); Aoyagi, 1943: 149, fig. 40.
Heniochus diphreutes: Hayashi, 1995: 17.
- Heniochus monoceros* Cuvier, 1831 [Onihatatatedai]
KPM-NR 68357, 82244.
- Heniochus singularis* Smith et Radcliffe, 1911 [Shimahatatatedai]
KPM-NR 65169.

Heniochus varius (Cuvier, 1829) [Tsunohatatedai]
Heniochus varius: Okada & Ikeda, 1936: 270, pl. 15, fig. 2; Aoyagi, 1943: 152, pl. 11-fig. 4.
 KPM-NR 65170, 65171, 68431.

Family Pomacanthidae

Apolemichthys trimaculatus (Cuvier, 1831) [Shitenyakko]
 KPM-NR 28943, 65197.
Centropyge bicolor (Bloch, 1787) [Somewakeyakko]
 KPM-NR 7664, 65204.
Centropyge bispinosa (Günther, 1860) [Ruriyakko]
 KPM-NR 65207, 69960.
Centropyge ferrugata Randall et Burgess, 1972 [Akaharanyakko]
 KPM-NR 65205, 65206, 68632, 69829.
Centropyge flavissima (Cuvier, 1831) [Koganeyakko]
 KPM-NR 68359.
Centropyge heraldi Woods et Schultz, 1953 [Herarudokoganeyakko]
 KPM-NR 23060, 65203, 68678.
Centropyge tibicen (Cuvier, 1831) [Aburayakko]
 KPM-NR 65202.
Centropyge vrolikii (Bleeker, 1853) [Namerayakko]
 KPM-NR 68415.
Chaetodontoplus mesoleucus (Bloch, 1787) [Chirimenyakko]
 KPM-NR 65174, 65175, 68358, 82237.
Genicanthus lamarck (Lacepède, 1802) [Tatejimayakko]
 KPM-NR 65185, 65186, 65187, 65188.
Genicanthus melanospilos (Bleeker, 1857) [Yaitoyakko]
 KPM-NR 65189, 65190, 65191, 65192, 65193.
Genicanthus watanabei (Yasuda et Tominaga, 1970) [Hirenagayakko]
 KPM-NR 65194, 65195, 65196.
Paracentropyge venusta (Yasuda et Tominaga, 1969) [Sumireyakko]
 KPM-NR 65200, 65201, 68693, 82054.
Pomacanthus imperator (Bloch, 1787) [Tatejimakinchakudai]
 KPM-NR 65176, 65177, 65178, 65179, 65180, 65181, 65182, 65183, 65184, 69968, 82131, 82231.
Pomacanthus semicirculatus (Cuvier, 1831) [Sazanamiyakko]
Pomacanthus semicirculatus: Aoyagi, 1943: 181, pl. 25.
 KPM-NR 65172, 65173, 68433, 82138.
Pygoplites diacanthus (Boddaert, 1772) [Nishikiyakko]
 KPM-NR 65198, 65199, 68524.

Family Cirrhitidae

Cirrhitichthys aprinus (Cuvier, 1829) [Minamigombe]
 KPM-NR 65208, 65209, 69362, 69939.
Cirrhitichthys falco Randall, 1963 [Sarasagombe]
 KPM-NR 65212, 65213, 65214.
Cirrhitichthys oxycephalus (Bleeker, 1855) [Himegombe]
 KPM-NR 65210, 65211, 68652, 69505.
Cirrhitops hubbardi (Schultz, 1943) [Sumitsukigombe]
 KPM-NR 65215.
Cirrhitus pinnulatus (Forster, 1801) [Isogombe]
 KPM-NR 65216, 65217, 68346, 68723.
Neocirrhites armatus Castelnau, 1873 [Benigombe]
 KPM-NR 65220, 65221, 82227.
Oxycirrhites typus Bleeker, 1857 [Kudagombe]
Oxycirrhites typus: Tomari, 1992: 7, fig. 1.
 KPM-NR 65218, 65219, 69999, 82121.
Paracirrhites arcatus (Cuvier, 1829) [Meganegombe]
 KPM-NR 7686, 28940, 65222, 65223, 65224, 65225.
Paracirrhites forsteri (Schneider, 1801) [Hoshigombe]
 KPM-NR 7682, 7683, 7684, 65226, 65227, 65228, 65229, 65230,

65231, 65232, 65233, 65234, 68715.

Family Pomacentridae

Abudefduf notatus (Day, 1870) [Isosuzumedai]
 KPM-NR 65352, 69445.
Abudefduf septemfasciatus (Cuvier, 1830) [Shichisensuzumedai]
Abudefduf septemfasciatus: Okada & Ikeda, 1937: 75, pl. 4, fig. 3; Aoyagi, 1941a: 237, fig. 36, pl. 17-fig. 41, pl. 23-fig. 28; Hayashi, 1995: 19.
 KPM-NR 68384, 68385, 82014, 82135.
Abudefduf sexfasciatus (Lacepède, 1801) [Rokusensuzumedai]
Abudefduf sexfasciatus: Okada & Ikeda, 1937: 71, pl. 5, fig. 3; Hayashi, 1995: 20.
Abudefduf coelestinus: Aoyagi, 1941a: 244, fig. 39, pl. 17-fig. 45, pl. 23-fig. 34.
 KPM-NR 35898, 68382, 68383.
Abudefduf sordidus (Forsskal, 1775) [Shimasuzumedai]
Abudefduf sordidus: Okada & Ikeda, 1937: 76; Hayashi, 1995: 20.
 KPM-NR 82224.
Abudefduf vaigiensis (Quoy et Gaimard, 1825) [Oyabiccha]
Abudefduf saxatilis: Okada & Ikeda, 1937: 72, pl. 5, fig. 4; Aoyagi, 1941a: 239, pl. 17-fig. 42, pl. 23-fig. 33.
Abudefduf vaigiensis[sic]: Hayashi, 1995: 19.
 KPM-NR 28932, 65458, 65459, 69894, 69917, 82006.
Amblyglyphidodon aureus (Cuvier, 1830) [Yabukisuzumedai]
 KPM-NR 65314, 65315, 65316.
Amblyglyphidodon curacao (Bloch, 1787) [Kurakaosuzumedai]
Abudefduf curacao: Aoyagi, 1941a: 246, pl. 18-fig. 46, pl. 23-fig. 32.
 KPM-NR 23125, 65342, 65343, 65344.
Amblyglyphidodon leucogaster (Bleeker, 1847) [Namisuzumedai]
Abudefduf leucogaster: Aoyagi, 1941a: 243.
 KPM-NR 7675, 65345, 65346, 65347, 65348, 65349, 68380, 69945.
Amblyglyphidodon ternatensis (Bleeker, 1853) [Nisekurakaosuzumedai]
 KPM-NR 65340, 65341, 68445.
Amphiprion clarkii (Bennett, 1830) [Kumanomi]
 KPM-NR 28941, 28949, 65235, 65236, 65237, 65238, 65239, 69457, 69467, 80835.
Amphiprion frenatus Brevoort, 1856 [Hamakumanomi]
Amphiprion polylepsis: Okada & Ikeda, 1937: 89.
Amphiprion frenatus: Aoyagi, 1941a: 167, pl. 13-fig. 1; Hayashi, 1995: 20.
 KPM-NR 23079, 28948, 65240, 65241, 67212, 68510, 69484, 82094.
Amphiprion ocellaris Cuvier, 1830 [Kakurekumanomi]
Amphiprion ocellaris: Tomari, 1992: 7, fig. 3.
 KPM-NR 65243, 65244, 65245, 65246, 69885, 82208.
Amphiprion perideraion Bleeker, 1855 [Hanabirakumanomi]
 KPM-NR 28947, 65242, 69428.
Amphiprion polymnus (Linnaeus, 1758) [Toakakumanomi]
 KPM-NR 65249, 65250, 65251.
Amphiprion sandaracinos Allen, 1972 [Sejirokumanomi]
 KPM-NR 65247, 65248.
Cheiloprion labiatus (Day, 1877) [Atsukuchisuzumedai]
 KPM-NR 23133, 65371, 67217, 68388, 68557, 68586.
Chromis acares Randall et Swerdloff, 1973 [Kobitosuzumedai]
 KPM-NR 65291, 65292, 69526.
Chromis albomaculata Kamohara, 1960 [Shiroboshisuzumedai]
 KPM-NR 65252, 65253.
Chromis alleni Randall, Ida et Moyer, 1981 [Onagasuzumedai]
 KPM-NR 65254, 65255, 65256, 68612.
Chromis analis (Cuvier, 1830) [Koganesusuzumedai]
 KPM-NR 69388.

- Chromis atripectoralis*** Welander et Schultz, 1951 [Aobasuzumedei]
Chromis caeruleus: Aoyagi, 1941a: 186, figs. 14 & 15, pl. 13-fig. 9, pl. 20-fig. 4.
 KPM-NR 7679.
- Chromis atripes*** Fowler et Bean, 1928 [Hiregurosuzumedei]
Chromis atripes: Matsumoto, 1997: 7, fig. 2.
 KPM-NR 65279, 65280, 65281, 65282, 68371, 68643, 82046.
- Chromis chrysura*** (Bliss, 1883) [Amamisuzumedei]
Chromis isharae: Aoyagi, 1941a: 179, fig. 10, pl. 13-fig. 7, pl. 21-fig. 12.
 KPM-NR 65258, 65259, 65260, 65261, 65262, 65263, 65264, 68363, 68364, 82079.
- Chromis delta*** Randall, 1988 [Derutasuzumedei]
 KPM-NR 65329, 65475, 68401, 68656.
- Chromis elerae*** Fowler et Bean, 1928 [Taiwansuzumedei]
 KPM-NR 65257, 68685, 68686, 68694.
- Chromis flavomaculata*** Kamohara, 1960 [Kihoshisuzumedei]
 ? *Chromis sindensis*: Aoyagi & Nagahama, 1940: 44.
Chromis notatus: Aoyagi, 1941: 181, fig. 11.
 ? *Chromis notata notata*: Hayashi, 1995: 22.
 KPM-NR 65267, 65268, 65269, 65270, 68368, 68641, 69406.
- Chromis lepidolepis*** Bleeker, 1877 [Sasasuzumedei]
 KPM-NR 65289.
- Chromis margaritifera*** Fowler, 1946 [Shikokusuzumedei]
Chromis dimidiatus: Aoyagi & Nagahama, 1940: 44; Aoyagi, 1941a: 188, fig. 16, pl. 14-fig. 10; Aoyagi, 1943: 118, fig. 20.
Chromis margaritifera: Hayashi, 1995: 22; Matsumoto, 1997: 7, fig. 1.
 KPM-NR 65330, 65331, 65332, 68365, 68366, 68367.
- Chromis ovatiformis*** Fowler, 1946 [Marusuzumedei]
Chromis ovatiformis: Matsumoto, 1997: 7, fig. 3.
 KPM-NR 65283, 65284, 65285, 65286, 68360, 68361, 68362, 68498, 68611.
- Chromis retrofasciata*** Weber, 1913 [Kuroobisuzumedei]
 KPM-NR 68570.
- Chromis ternatensis*** (Bleeker, 1856) [Kaburayasuzumedei]
Chromis ternatensis: Aoyagi, 1941a: 183, figs. 12 & 13, pl. 13-fig. 6; Aoyagi, 1943: 117, fig. 29; Hayashi, 1995: 22.
 KPM-NR 65287, 65288, 69878, 69987.
- Chromis vanderbilti*** (Fowler, 1941) [Himesuzumedei]
 KPM-NR 65290, 68372.
- Chromis viridis*** (Cuvier, 1830) [Debasuzumedei]
 KPM-NR 65277.
- Chromis weberi*** Fowler et Bean, 1928 [Takasagosuzumedei]
 KPM-NR 65265, 65266, 65476, 65477.
- Chromis xanthura*** (Bleeker, 1854) [Monsuzumedei]
 KPM-NR 65271, 65272, 65273, 65274, 68369, 68370, 69376, 69962.
- Chrysiptera biocellata*** (Quoy et Gaimard, 1825) [Sujibuchisuzumedei]
Chrysiptera zonata: Aoyagi, 1941a: 250, pl. 18-fig. 48.
 KPM-NR 65364, 67215.
- Chrysiptera brownriggii*** (Bennett, 1828) [Miyakokisensuzumedei]
Abudefduf albofasciatus: Okada & Ikeda, 1937: 77, pl. 6, fig. 7.
Abudefduf miyakoe: Okada et Ikeda, 1937: 83, fig. 2 & pl. 6, figs. 6 & 8.
Chrysiptera albofasciata miyakoe: Aoyagi, 1941a: 251, pl. 18-fig. 49; Aoyagi, 1943: 133.
Chrysiptera albofasciata caudofasciata: Aoyagi, 1941a: 251, pl. 18-fig. 50; Aoyagi, 1943: 134.
Chrysiptera albofasciata: Aoyagi, 1941a: 252, pl. 18-fig. 51.
Chrysiptera leucopoma: Hayashi, 1995: 18, 19, 22.
 KPM-NR 65365, 65367, 65368, 65369, 65370.
 Remarks. We followed Allen & Bailey (2002) on the taxonomic status of this species.
- Chrysiptera caeruleolineata*** (Allen, 1973) [Aosujisuzumedei]
 KPM-NR 65333, 65334.
- Chrysiptera cyanea*** (Quoy et Gaimard, 1825) [Rurisuzumedei]
Abudefduf sapphirus: Okada & Ikeda, 1937: 78, pl. 6, fig. 2.
Abudefduf cyaneus: Okada & Ikeda, 1937: 79, pl. 6, fig. 5.
Chrysiptera cyanea: Aoyagi, 1941a: 253, pl. 18-fig. 52, pl. 22-fig. 20; Hayashi, 1995: 18, 19.
Chrysiptera assimilis: Aoyagi, 1941a: 255, fig. 43, pl. 18-fig. 53, pl. 23-fig. 30.
 KPM-NR 23123, 65353, 65354, 67216.
- Chrysiptera glauca*** (Cuvier, 1830) [Nezusuzumedei]
Abudefduf glaucus: Okada & Ikeda, 1937: 74, pl. 5, fig. 1.
Chrysiptera glauca: Aoyagi, 1941a: 68, fig. 46, pl. 19-fig. 56, pl. 23-fig. 27; Hayashi, 1995: 18.
 KPM-NR 68395, 68396, 68397, 68398.
- Chrysiptera parasema*** (Fowler, 1918) [Shirikuririsuzumedei]
Chrysiptera parasema: Aoyagi, 1941: 256, fig. 44; Hayashi, 1995: 23.
 KPM-NI 3300; KPM-NR 65355, 65356.
- Chrysiptera rex*** (Snyder, 1909) [Remonsuzumedei]
Abudefduf rex: Okada & Ikeda, 1937: 71.
Chrysiptera rex: Aoyagi, 1941a: 263, fig. 47, pl. 19-fig. 58, pl. 22-fig. 21; Hayashi, 1995: 19.
 KPM-NR 65359, 65360, 65361, 65362, 65363, 69417, 69506.
- Chrysiptera starcki*** (Allen, 1973) [Senakuririsuzumedei]
 KPM-NR 65357, 65358, 65359.
- Chrysiptera trincta*** (Allen et Randall, 1974) [Misujisuzumedei]
 KPM-NR 69368.
- Chrysiptera unimaculata*** (Cuvier, 1830) [Ichimonsuzumedei]
 KPM-NR 65366, 68386, 68387, 69944.
- Dascyllus aruanus*** (Linnaeus, 1758) [Misujiryukyusuzumedei]
Dascyllus amarus[sic]: Aoyagi & Nagahama, 1940: 43.
Tetradrachmum aruanum: Aoyagi, 1941a: 190, pl. 14-fig. 11, pl. 20-fig. 6.
Dascyllus aruanus: Hayashi, 1995: 24, 27; Matsumoto, 1993: 6, fig. 1.
 KPM-NR 23106, 65293, 65294, 65295.
- Dascyllus melanurus*** Bleeker, 1854 [Yosujiryukyusuzumedei]
Dascyllus melanurus: Matsumoto, 1993: 6, fig. 2.
 KPM-NR 65296, 65297, 65298, 68551, 68588.
 Remarks. Matsumoto (1993) gave an underwater photograph of a probable hybrid between *Dascyllus aruanus* and *D. melanurus*.
- Dascyllus reticulatus*** (Richardson, 1846) [Futasujiryukyusuzumedei]
Tetradrachmum marginatum: Aoyagi, 1941a: 192, fig. 18, pl. 14, fig. 12; Aoyagi, 1943: 119, fig. 31.
Dasyllus[sic] marginatus: Hayaashi, 1995: 27.
 KPM-NR 65299, 68636.
- Dascyllus trimaculatus*** (Rüppell, 1829) [Mitsuboshikurosuzumedei]
 KPM-NR 65300, 65301, 68682.
- Dischistodus melanotus*** (Bleeker, 1858) [Segurosuzumedei]
 KPM-NR 7677, 65376, 67214.
- Dischistodus prosopotaenia*** (Bleeker, 1852) [Dandarasuzumedei]
Pomacentrus notophthalmus: Aoyagi, 1941a: 207, fig. 23, pl. 15-fig. 21.
Dischistodus melanotus: Hayashi, 1995: 26.
 KPM-NR 23135, 65372, 65373, 65374, 65375, 69979.
- Hemiglyphidodon plagiometopon*** (Bleeker, 1852) [Suzumedaimodoki]
 KPM-NI 3290; KPM-NR 64817, 65012, 65013, 65350, 65351, 68424, 82223.
- Lepidozygus tapeinosoma*** (Bleeker, 1856) [Hanadaidamashi]
 KPM-NR 65460.
- Neoglyphidodon melas*** (Cuvier, 1830) [Kurosuzumedei]
 KPM-NR 7676, 23128, 65335, 65336, 65337, 65338, 65339, 68378, 68379, 68654.

Neoglyphidodon nigroris (Cuvier, 1830) [Hirenasuzumedai]
Abudefduf xanthurus: Okada & Ikeda, 1937: 81, pl. 5, fig. 5.
Chrysiptera xanthura cochinchensis: Aoyagi, 1941a: 264, fig. 48, pl. 19-fig. 59, pl. 23-fig. 25.
Neoglyphidodon nigroris: Hayashi, 1995: 20, 24.
 KPM-NR 7668, 7669, 23129, 65317, 65318, 65319, 65320, 65321, 65322, 65323, 65324, 65325, 65326, 65327, 65328.
Neopomacentrus anabatooides (Bleeker, 1847) [Yanoribonsuzumedai]
 KPM-NR 65471, 65472, 67320, 69957.
Neopomacentrus cyanomos (Bleeker, 1856) [Kuroribonsuzumedai]
 KPM-NR 65377, 65378.
Plectroglyphidodon dickii (Lienard, 1839) [Ishigakisuzumedai]
 KPM-NR 68375, 68376, 68377, 69877.
Plectroglyphidodon imparipennis (Vaillant et Sauvage, 1875) [Iwasakisuzumedai]
 KPM-NR 65308, 65309.
Plectroglyphidodon johnstonianus Fowler et Ball, 1924 [Rurimeishigakisuzumedai]
 KPM-NR 27824, 65310, 65311, 65312, 65313, 68373, 68374, 68679, 68680.
Plectroglyphidodon lacrymatus (Quoy et Gaimard, 1825) [Rurihoshisuzumedai]
 KPM-NR 65307, 69495, 69515.
Plectroglyphidodon leucozonus (Bleeker, 1859) [Hakusensuzumedai]
Abudefduf yamashinai Okada & Ikeda, 1937: 81, fig. 1 & pl. 4, fig. 1; Aoyagi, 1943: 130.
Abudefduf leucozonus: Aoyagi, 1941a: 232, pl. 17-fig. 37, pl. 22-fig. 19.
Plectroglyphidodon leucozonus: Hayashi, 1995: 20, 24.
 KPM-NR 65305, 65306.
Pomacentrus alexanderæ Evermann et Seale, 1907 [Montsukisuzumedai]
 KPM-NR 65404, 65405, 65406, 68480.
Pomacentrus amboinensis Bleeker, 1868 [Nisenettasuzumedai]
 KPM-NI 415; KPM-NR 64839, 65436, 65437, 65438, 65439, 65440, 65441, 67213, 68390, 69435.
Pomacentrus bankanensis Bleeker, 1853 [Meganesuzumedai]
Pomacentrus tripunctatus: Okada & Ikeda, 1937: 85, pl. 5, fig. 2.
 KPM-NR 2493, 64827, 65394, 65395, 65396, 65397, 65398, 65399, 65400, 65401, 69375, 69502, 82159.
Pomacentrus chrysurus Cuvier, 1830 [Ojirosuzumedai]
Pomacentrus tripunctatus: Okada & Ikeda, 1937: 85, pl. 5, fig. 2.
Pomacentrus dorsalis: Aoyagi, 1941a: 208, figs. 24-26, pl. 15-fig. 22, pl. 21-fig. 16; Aoyagi, 1943: 123, fig. 33.
Pomacentrus flavicauda: Aoyagi, 1941a: 212, fig. 27, pl. 15-fig. 23, pl. 21-fig. 13; Aoyagi, 1943: 124, fig. 34.
Pomacentrus chrysurus: Hayashi, 1995: 25.
 KPM-NI 3289; KPM-NR 65385, 65386, 65387, 65388, 65389, 65390, 65391, 65392, 65393, 67218, 67219, 69451.
Pomacentrus coelestis Jordan et Starks, 1901 [Sorasuzumedai]
 KPM-NR 65410, 65411, 65412, 68626, 69474.
Pomacentrus lepidogenys Fowler et Bean, 1928 [Asadosuzumedai]
Pomacentrus lepidogenys: Aoyagi, 1941a: 219; Hayashi, 1995: 26.
 KPM-NR 65379, 65380, 65381.
Pomacentrus moluccensis Bleeker, 1853 [Nettaisuzumedai]
Pomacentrus moluccensis: Aoyagi, 1941a: 206, pl. 15-fig. 20, pl. 20-fig. 7; Hayashi, 1995: 26.
 KPM-NR 65423, 65424, 65425.
Pomacentrus nagasakiensis Tanaka, 1917 [Nagasakiisuzumedai]
 KPM-NR 65415, 65416, 65417, 65420, 65421, 65422, 68389, 68403, 68508, 82214.
Pomacentrus nigromarginatus Allen, 1973 [Nisemontsukisuzumedai]
 KPM-NR 29989, 29990, 65407, 65408, 65409, 69425, 69478.

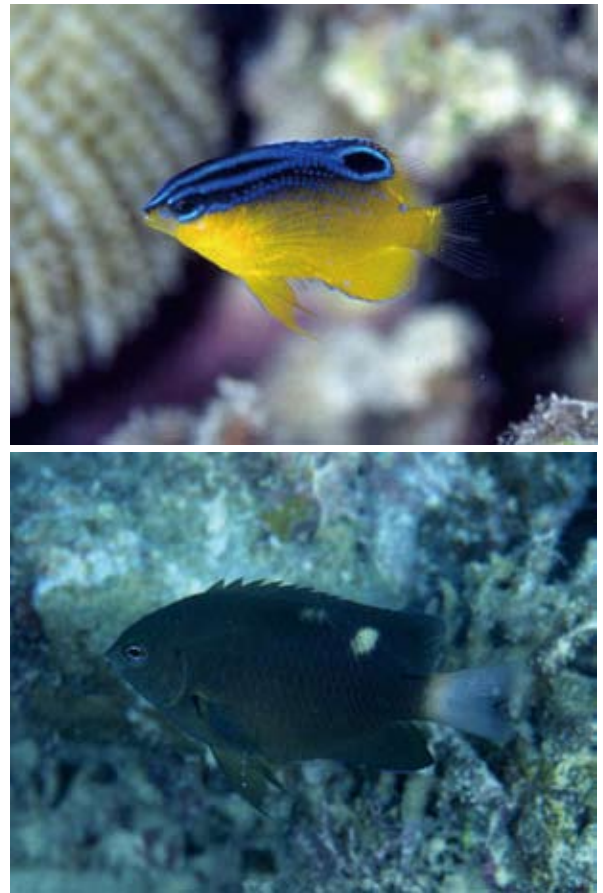


Fig. 13. *Pomacentrus* sp., KPM-NR 65468, juvenile (top), Irabu-jima I., 5 m depth; KPM-NR 65402, adult (bottom), Irabu-jima I., 3-5 m depth, photos by Y. Kobayashi.

Pomacentrus pavo (Bloch, 1787) [Kujakusuzumedai]
 KPM-NR 7680, 7681, 65413, 65414.
Pomacentrus philippinus Evermann et Seale, 1907 [Firipinsuzumedai]
 KPM-NR 65382, 65383, 65384, 68404, 69482.
Pomacentrus sp. (Fig. 13)
 KPM-NR 26492, 29984, 65402, 65403, 65465, 65466, 65467, 65468, 65469, 65470, 68437, 68438, 69469, 82222, 84891.
 Remarks. This species is very similar to *Pomacentrus armillatus* described as new by Allen (1993) in having whitish tail and yellowish pectoral fin base. But, it differs from *P. armillatus* in lacking an ocellated spot on dorsal fin of the adult.
Pomacentrus sp. of Aonuma and Yoshino, 2002 [Minamiisozumedai]
 KPM-NR 64831, 65419, 65426, 65427, 65428, 65429, 68447, 69436, 69980, 82078, 82217.
Pomacentrus vaiuli Jordan et Seale, 1906 [Kuromeganesuzumedai]
 KPM-NR 65430, 65431, 65432, 65433, 65434, 65435, 68391, 68644.
Pomachromis richardsoni (Snyder, 1909) [Okinawasuzumedai]
Abudefduf richardsoni: Aoyagi, 1941: 247, figs. 40 & 41.
 KPM-NR 65302, 65303, 65304, 68640, 68731.
Stegastes albifasciatus (Schlegel et Müller, 1839) [Kiobisuzumedai]
Parapomacentrus albifasciatus: Aoyagi, 1941a: 198, fig. 20, pl. 14-fig. 14; Aoyagi, 1943: 121, fig. 32.
Stegastes albifasciatus: Hayashi, 1995: 24.
 KPM-NR 68285, 68394.
Stegastes altus (Okada et Ikeda, 1937) [Sedakasuzumedai]
 KPM-NR 29982, 29983, 65442, 65443, 68393, 69508, 69516.
Stegastes fasciolatus (Ogilby, 1889) [Fuchidorisuzumedai]
 KPM-NR 64826, 65444, 65445, 65446, 65447, 68381, 68392, 68435, 68505, 68507.

Stegastes insularis Allen et Emery, 1985

KPM-NR 65448, 65449, 65461, 65462, 65463, 65464, 68487, 68653.

Remarks. The photographs agree well with the figure of the original description given by Allen & Emery (1985).

Stegastes lividus (Forster, 1801) [Hananagasuzumedai]

KPM-NR 23146, 65451, 65452, 65453, 69438, 69471.

Stegastes nigricans (Lacepède, 1802) [Kurosorasuzumedai]*Abudedefduf tamaii* Aoyagi, 1941a: 230, fig. 33, pl. 16-fig. 35; Aoyagi, 1943: 129.*Stegastes nigricans*: Hayashi, 1995: 20.

KPM-NR 23145, 23147, 27823, 27827, 64854, 65450, 65455, 65456, 65457, 65473, 65474, 68400, 68402, 68450, 69473.

Family Kuhliidae***Kuhlia mugil*** (Forster, 1801) [Ginyugoi]

KPM-NR 69447.

Family Oplegnathidae***Oplegnathus fasciatus*** (Temminck et Schlegel, 1844) [Ishidai]

KPM-NR 89621.

Oplegnathus punctatus (Temminck et Schlegel, 1844) [Ishigakidai]

KPM-NR 82169.

Family Kyphosidae***Kyphosus bigibbus*** Lacepède, 1801 [Notoisuzumi]

KPM-NR 68283, 68676, 82168.

Kyphosus vaigiensis (Quoy et Gaimard, 1825) [Isuzumi]

KPM-NR 68282, 82167.

Family Nomeidae***Psenes*** sp.

KPM-NR 64818, 64819, 65010, 65015.

Remarks. Regarding the members of the genus *Psenes*, it is difficult to identify from underwater photographs.**Family Polynemidae*****Polydactylus plebeius*** (Broussonet, 1782) [Tsubamekonoshiro]

KPM-NI 6759.

Family Labridae***Anampses caeruleopunctatus*** Rüppell, 1829 [Buchisusukibera]

KPM-NR 65544, 65545, 65546, 65547, 65548, 65549, 65550, 65551, 65651, 67184, 67354, 69381, 82209.

Anampses geographicus Valenciennes, 1840 [Mushibera]

KPM-NR 65530, 65531, 65532, 65533, 65534.

Anampses melanurus Bleeker, 1857 [Kurofuchisusukibera]

KPM-NR 65543.

Anampses meleagrides Valenciennes, 1840 [Hokutobera]

KPM-NR 65535, 65536, 65537, 65538, 65539, 65540, 65541, 65542, 67352, 67353, 69418, 69826.

Anampses neoguinaicus Bleeker, 1878 [Nyuginiibera]

KPM-NR 65557, 65558, 69427.

Anampses twistii Bleeker, 1856 [Hoshisusukibera]*Anampses twistii*: Hayashi, 1995: 28.

KPM-NR 65552, 65553, 65554, 65555, 65556, 69950, 82207.

Bodianus anthioides (Bennett, 1832) [Hiodoshiibera]

KPM-NR 7691, 7692, 65493, 65494, 65495, 69389, 82027.

Bodianus axillaris (Bennett, 1832) [Sumitsukibera]

KPM-NR 65489, 65490, 65491, 65492, 67182, 67183, 67348, 67349, 68617, 68667, 82152.

Bodianus bilunulatus (Lacepède, 1801) [Kitsunebera]

KPM-NR 65496, 65497, 65498, 65499, 65500, 65501, 68488.

Bodianus diana (Lacepède, 1801) [Montsukibera]

KPM-NR 65487, 65488, 68485, 68717.

Bodianus loxozonus (Snyder, 1908) [Hiregurobera]

KPM-NR 65505, 65506, 65507, 65508, 65509, 65510, 65511, 65512, 65513, 65514, 68465, 68545, 68663, 69998.

Bodianus mesothorax (Bloch et Schneider, 1801) [Kesagakebera]

KPM-NR 65502, 65503, 65504, 67350, 69360, 82100.

Bodianus perditio (Quoy et Gaimard, 1834) [Takibera]

KPM-NR 65515, 65516, 65517, 65518, 65519, 65520, 65521, 82037.

Cheilinus chlorourus (Bloch, 1791) [Akatemmochinouo]

KPM-NR 2463, 67440, 67441, 67442, 68406, 68730.

Cheilinus fasciatus (Bloch, 1791) [Yashabera]

KPM-NR 67114.

Cheilinus oxycephalus Bleeker, 1853 [Mitsuboshimochinouo]

KPM-NR 67100, 67101, 67102, 68405, 69984, 69992.

Cheilinus trilobatus Lacepède, 1801 [Mitsubamochinouo]

KPM-NR 23251, 67083, 67084, 67439, 67443.

Cheilinus undulatus Rüppell, 1835 [Meganemochinouo]

KPM-NR 23240.

Cheilio inermis (Forsskål, 1775) [Kamasubera]*Cheilio inermis*: Kamohara, 1963b: 7.*Cheilio[sic] inermis*: Hayashi, 1995: 28.

KPM-NR 23177, 65559, 65560, 65561, 65562, 69472.

Choerodon anchorago (Bloch, 1791) [Kusabibera]

KPM-NR 67004, 67347, 82235.

Choerodon fasciatus (Günther, 1867) [Shichisembera]

KPM-NR 65484, 65485, 65486.

Choerodon jordani (Snyder, 1908) [Kurakakebera]

KPM-NR 65478, 65479, 65480, 65481, 65482, 65483, 67417, 67418.

Choerodon schoenleinii (Valenciennes, 1839) [Shirokurabera]

KPM-NR 67346, 68425.

Cirrhilabrus cyanopleura (Bleeker, 1851) (Fig. 14)

KPM-NR 67016, 67425, 67426, 67427.

Remarks. All photographs are initial phase, and they agree well with the figure of the original description given by Bleeker (1851). This species is very similar to *Cirrhilabrus lyukyuensis*, but it differs from *C. lyukyuensis* in having 1 to 4 longitudinal rows of dark edged lateral scales (see the remarks of *C. lyukyuensis*).***Cirrhilabrus exquisitus*** Smith, 1957 [Nishikiitohikibera]

KPM-NR 67022, 67023, 67024, 67025, 67029, 67030, 67031, 67032, 67033, 67034, 67035, 67036, 82064.

Fig. 14. *Cirrhilabrus cyanopleura*, KPM-NR 67426, Shimoji-jima I., 28 m depth, photo by Y. Kobayashi.



Fig. 15. *Cirrhilabrus lyukyuensis*, KPM-NR 67423, initial phase (top), Shimoji-jima I., 28 m depth; KPM-NR 67020, terminal phase (bottom), Miyako-jima I., 25 m depth, photos by Y. Kobayashi.

Cirrhilabrus katherinae Randall, 1992 [Goshikiitohikibera]

KPM-NR 67026, 67027, 67028, 67043, 67044, 67045, 67046, 67047, 67048, 67049, 67050, 67428, 67429.

Cirrhilabrus lunatus Randall et Masuda, 1991 [Tsukinowaitohikibera]

KPM-NR 67037, 67038, 67039, 67040, 67041, 67042, 82105.

Cirrhilabrus lyukyuensis Ishikawa, 1904 [Kuroheriitohikibera] (Fig. 15)

KPM-NR 67020, 67021, 67423, 67424.

Remarks. The photographs of terminal phase (KPM-NR 67020 & 67021) agree well with the figure of the original description given by Ishikawa (1904). This species is very similar to *Cirrhilabrus cyanopleura* (Bleeker, 1851), but it differs from *C. cyanopleura* in having 5 longitudinal rows of dark edged lateral scales. Although Randall (1992) regarded *C. lyukyuensis* as a synonym of *C. cyanopleura*, it should be reexamine taxonomically.

Cirrhilabrus melanomarginatus Randall et Shen, 1978

[Tomoshibiitohikibera]

KPM-NR 67006, 67007, 67008, 67009, 67010, 67011, 67012, 67013, 67014, 67015, 67017, 67018, 67019, 67065, 67066, 67067, 67068, 67069, 67070, 67071, 67072, 67073, 67431, 67432, 67433.

Cirrhilabrus rubrimarginatus Randall, 1992 [Benihireitohikibera]

Cirrhilabrus rubrimarginatus: Senou, 1993: 1, fig.

KPM-NR 67051, 67052, 67053, 67054, 67055, 67056, 67057, 67058, 67059, 67060, 67061, 67062, 67063, 67064, 67430, 68523.

***Cirrhilabrus* sp.** (Fig. 16)

KPM-NR 69991.

Remarks. This species is very similar to *Cirrhilabrus temminckii* Bleeker, 1853, but it differs from *C. temminckii* in lacking a bluish white stripe along the lateral line. Randall (1992) regarded this species as a individual or geographical variation of *C. temminckii*.



Fig. 16. *Cirrhilabrus* sp., KPM-NR 69991, Irabu-jima I., 28-30 m depth, photo by Y. Kobayashi.

Coris aygula Lacepède, 1801 [Kammuribera]

KPM-NR 66952, 66953, 66954, 66955, 66956, 66957, 66958, 66959, 66960, 66961, 67172, 67173, 67408, 68575.

Coris dorsomacula Fowler, 1908 [Sujibera]

KPM-NR 66967, 66968, 66969, 66970, 66971, 66972, 66973, 66974, 68432.

Coris gaimard (Quoy et Gaimard, 1824) [Tsuyubera]

KPM-NR 7696, 66975, 66976, 66977, 66978, 66979, 66980, 66981, 66982, 66983, 67410, 67411, 67412, 68624, 82109.

Coris batuensis (Bleeker, 1856-1857) [Shichisemmumsebera]

KPM-NR 23220, 66962, 66963, 66964, 66965, 66966, 67409, 68496.

Cymolutes torquatus (Valenciennes, 1840) [Tateyamabera]

KPM-NR 67074, 67075, 67076, 67416.

Epibulus insidiator (Pallas, 1770) [Gichibera]

KPM-NR 23234, 67077, 67419, 67420, 67421, 67422, 68478, 68659, 82101.

Gomphosus varius Lacepède, 1801 [Kugibera]

KPM-NR 65563, 65564, 65565, 65566, 65567, 67355, 67356, 67357, 69387.

Halichoeres biocellatus Schultz, 1960 [Nishikikyusen]

KPM-NR 66939, 66940, 66941, 66942, 67167, 67170, 67399, 67400, 68525, 68605, 68703, 69369.

Halichoeres chrysus Randall, 1981 [Koganekyusen]

KPM-NR 66945, 66946, 67406, 67407, 69359.

Halichoeres hartzfeldii (Bleeker, 1852) [Kisujikyusen]

KPM-NR 66947, 66948, 66949, 66950, 66951.

Halichoeres hortulanus (Lacepède, 1801) [Tokarabera]

KPM-NR 23203, 66906, 66907, 66908, 66909, 66910, 66911, 66912, 66913, 66914, 67166, 67389, 67390, 82203.

Halichoeres margaritaceus (Valenciennes, 1839) [Akanijibera]

KPM-NR 66944.

Halichoeres marginatus Rüppell, 1835 [Kanokobera]

KPM-NR 66915, 66916, 66917, 66918, 67391, 67392, 67393, 67394, 82017, 82051.

Halichoeres melanochir Fowler et Bean, 1928 [Munatempera]

KPM-NR 23212, 66919, 66920, 66921, 66922, 66923, 66924, 66983, 82019, 82166.

Halichoeres melanurus (Bleeker, 1851) [Kazarikyusen]

KPM-NR 23250, 66937, 66938, 67168, 67169, 68427.

Halichoeres nebulosus (Valenciennes, 1839) [Inazumabera]

KPM-NR 67171, 67402, 82216.

Halichoeres orientalis Randall, 1999 [Tsukibera]

KPM-NR 66934, 66935, 66936, 67397, 67398.

Halichoeres prosopion (Bleeker, 1853) [Munatemberadamashi]
KPM-NR 66925, 66926, 66927, 66928, 66929, 66930, 66931,
66932, 66933, 67395, 67396, 70000.

Halichoeres scapularis (Bennett, 1832) [Seitembera]

KPM-NR 23201, 23210, 66904, 66905, 67383, 67385, 67386, 67387,
67388.

Halichoeres trimaculatus (Quoy et Gaimard, 1834) [Mitsuboshikyusen]

Halichoeres trimaculatus: Aoyagi & Nagahama, 1940: 44; Hayas-
hi, 1995: 30.

KPM-NR 2479, 7697, 23204, 23205, 23206, 65637, 66902,
66903, 67165, 67381, 67382, 67384, 67452, 67453, 68457.

Hemigymnus fasciatus (Bloch, 1792) [Shimaterekuchibera]

KPM-NR 65597, 65598, 65599, 65600, 65601, 65602, 65603,
67370, 68619.

Hemigymnus melapterus (Bloch, 1791) [Tarekuchibera]

KPM-NR 65595, 65596, 67367, 67368, 67369, 82003.

Hologymnosus annulatus (Lacepède, 1801) [Namerabera]

KPM-NR 23225, 67002, 67003, 67415, 68573, 69988.

Hologymnosus doliatus (Lacepède, 1801) [Shirotasukibera]

KPM-NR 66995, 66996, 66997, 66998, 66999, 67000, 67001,
67178, 67414, 82202.

Iniistius twistii (Bleeker, 1856) [Hinomarutensu]

KPM-NR 67143.

Iniistius aneitensis (Günther, 1862) [Hagehirabera]

KPM-NR 82077.

Iniistius pavo (Valenciennes, 1840) [Hoshitensu]

KPM-NR 67125, 67126, 67127, 67128, 67129, 67130, 67131,
67132, 67133, 67134, 67135, 67136, 82103.

Iniistius pentadactylus (Linnaeus, 1758) [Hirabera]

KPM-NR 67115.

Labrichthys unilineatus (Guichenot, 1847) [Kurobera]

KPM-NR 23246, 65619, 65620, 65621, 65622, 67373, 67374.

Labridae, indeterminate genus & species (Fig. 17)

KPM-NR 64867, 67144.

Remarks. This species is similar to the members of the genus
Leptojulis in its general appearance, but specimens have not been
obtained yet, its taxonomic status is unknown.

Labroides bicolor Fowler et Bean, 1928 [Somewakebera]

KPM-NR 2397, 65625, 65626, 65627.

Labroides dimidiatus (Valenciennes, 1839) [Honsomewakebera]

KPM-NR 65623, 65624, 67375, 68572, 68628, 69386, 69892,
82154, 82250.

Labropsis manabei Schmidt, 1931 [Manabebera]

KPM-NR 65604, 65605, 65606, 65607, 65608, 65609, 67371,



Fig. 17. Labridae, indet. gen. & sp., KPM-NR 67144, Miyako-jima I., 20
m depth, photo by Y. Kobayashi.



Fig. 18. *Oxycheilinus orientalis*, KPM-NR 67450, Miyako-jima I., 17 m
depth, photo by Y. Kobayashi.

68449, 68495, 69947.

Labropsis xanthonota Randall, 1981 [Miyakebera]

KPM-NR 65610, 65611, 65612, 65613, 65614, 65615, 65616,
65617, 65618, 67372, 69393.

Macropharyngodon meleagris (Valenciennes, 1839) [Nodogurobera]

KPM-NR 65644, 65645, 65646, 65647, 65648, 65649, 65650,
67163, 67186, 68490, 69370, 82020, 82157.

Macropharyngodon negrosensis Herre, 1932 [Sejironodogurobera]

KPM-NR 65652, 66885, 66886, 66887, 67151, 67152, 67153,
68413, 69351.

Novaculichthys taeniourus (Lacepède, 1801) [Obitensumodoki]

KPM-NR 23245, 67137, 67138, 67139.

Oxycheilinus bimaculatus (Valenciennes, 1840) [Takobera]

KPM-NR 67095, 67096, 67097, 67098, 67099, 67113.

Oxycheilinus digramma (Lacepède, 1801) [Hoosujimochinouo]

KPM-NR 23247, 23248, 68412, 69384.

Oxycheilinus orientalis (Günther, 1862) (Fig. 18)

KPM-NI 3279; KPM-NR 67148, 67149, 67450.

Remarks. The photographs agree well with the figures of the rede-
scription of *Oxycheilinus orientalis* given by Randall & Khalaf (2003).

Oxycheilinus unifasciatus (Streets, 1877) [Hitosujimochinouo]

KPM-NR 67091, 67092, 67093, 67094, 67444, 67445, 68441,
68476, 69949.

Paracheilinus carpenteri Randall et Lubbock, 1981 [Kujakubera]

KPM-NR 67434, 67435, 67436, 67437, 67438, 68460, 68461,
68462, 68519, 68520.

Pseudocheilinus evanidus Jordan et Evermann, 1903 [Himenisemochinouo]

KPM-NR 67104, 67105, 67446, 67447, 67448.

Pseudocheilinus hexataenia (Bleeker, 1857) [Nisemochinouo]

KPM-NR 67103.

Pseudocheilinus ocellatus Randall, 1999 [Yokoshimanisemochinouo]

KPM-NR 16373, 16374, 67111, 67112, 67451, 68670.

Pseudocheilinus octotaenia Jenkins, 1901 [Yasujinisemochinouo]

KPM-NR 67106, 67107, 67108, 67109, 67110, 67449.

Pseudocoris aurantiofasciata Fourmanoir, 1971 [Shiratakiberadamashi]

KPM-NR 66994, 67191, 69895, 82108, 82195.

Pseudocoris philippina (Fowler et Bean, 1928) [Shiratakibera]

KPM-NR 66992, 66993, 67176, 67177, 82087.

Pseudocoris yamashiroi (Schmidt, 1931) [Yamashirobera]

KPM-NR 66984, 66985, 66986, 66987, 66988, 66989, 66990,
66991, 67174, 67175, 67413, 69391.

Pseudodax moluccanus (Valenciennes, 1840) [Budaibera]

KPM-NR 65522, 65523, 65524, 65525, 65526, 65527, 65528,
65529, 67351, 82013, 82151.



Fig. 19. *Pteragogus enneacanthus*, KPM-NR 69936, initial phase (top), Irabu-jima I., 18–20 m depth; KPM-NR 82004, terminal phase (bottom), Irabu-jima I., 23–25 m depth, photos by Y. Kobayashi.

Pseudojuloides cerasinus (Snyder, 1904) [Ogurobera]

KPM-NR 66888, 66889, 66890, 66891, 66892, 66893, 66894, 66895, 66896, 66897, 66898, 66899, 66900, 66901, 67164, 67380, 68660, 69853, 69993.

Pteragogus enneacanthus (Bleeker, 1853) (Fig. 19)

KPM-NR 67117, 67118, 67119, 67124, 69936, 69937, 82004, 82005.

Remarks. The photographs agree well with the figures of *Pteragogus enneacanthus* given by Randall (1995).

Pteragogus cryptus Randall, 1981 (Fig. 20)

KPM-NR 67123.

Remarks. The photograph agrees well with the figures of *Pteragogus cryptus* given by Randall (1995). This species is very similar to a young of *Pteragogus enneacanthus*, but it differs from *P. enneacanthus* in having a conspicuous brown band on pelvic fin.

Stethojulis bandanensis (Bleeker, 1851) [Akaobibera]

KPM-NR 23194, 65631, 65632, 65634, 65635, 65639, 65640, 65641, 65642, 65643, 67378, 67379, 68639, 68642, 69995.

Stethojulis strigiventer (Bennett, 1832) [Harasujibera]

Stethojulis strigiventer: Aoyagi & Nagahama, 1940: 44; Kamohara, 1963b: 3.

Stethojulis strigiventer[sic]: Hayashi, 1995: 31.

KPM-NR 23192, 23193, 65633, 65636, 65638, 67377, 68552, 69468.

Stethojulis trilineata (Bloch et Schneider, 1801) [Onibera]

KPM-NR 65628, 65629, 65630, 67376, 82211.

Thalassoma amblycephalum (Bleeker, 1856) [Kogashirabera]

Thalassoma amblycephalum: Aoyagi & Nagahama, 1940: 44; Kamohara, 1963b: 7.

Thalassoma melanochir: Aoyagi & Nagahama, 1940: 44.

Thalassoma amblycephalum: Hayashi, 1995: 31.

KPM-NR 65581, 65582, 65583, 65584, 67005, 82002.



Fig. 20. *Pteragogus cryptus*, KPM-NR 67123, Miyako-jima I., 12–13 m depth, photo by Y. Kobayashi.

Thalassoma cupido (Temminck et Schlegel, 1846) [Nishikibera]

Thalassoma cupido: Hayashi, 1995: 31.

Remarks. Hayashi (1995) recorded this species based on two juvenile specimens (YCM-P 30020, 32.1 & 34.0 mm SL) from Miyako-jima Island. However, they should be reidentified because juveniles of the genus *Thalassoma* are very similar to one another.

Thalassoma hardwicke (Bennett, 1830) [Senasujibera]

KPM-NR 65575, 65576, 65577, 67358, 67359, 67360, 69982.

Thalassoma janseni (Bleeker, 1856) [Yansennishikibera]

KPM-NR 65578, 65579, 67180, 67181, 67361, 67362, 69397, 69852, 82050, 82205.

Thalassoma lunare (Linnaeus, 1758) [Otomebera]

KPM-NR 67364, 67365, 67366.

Thalassoma lutescens (Lay et Bennett, 1839) [Yamabukibera]

KPM-NR 16946, 28936, 65585, 65586, 65587, 65588, 65589, 65590, 65591, 65592, 65593, 65594, 67185, 67363, 68637, 69981.

Thalassoma quinquevittatum (Lay et Bennett, 1839) [Hakobera]

KPM-NR 65568, 65569, 65570, 65571, 65572, 65573, 65580, 67179, 67454, 68651, 68677, 69465.

Thalassoma trilobatum (Lacepède, 1801) [Ryugubera]

KPM-NR 65574, 68532, 82045, 82137.

Wetmorella nigropinnata (Seale, 1901) [Hashinagabera]

KPM-NR 67078, 67079, 67080, 67081, 67082.

Xyrichtys halsteadii Randall et Lobel, 2003

KPM-NR 64868, 67145.

Remarks. Recently, this species was recorded from Ie-jima Island of the Ryukyu Islands and Izu Oceanic Park of Sagami Bay on the basis of underwater photographs by Senou *et al.* (2006a, b). Specimens have not been obtained yet from Japan.

Family Scaridae

Calotomus carolinus (Valenciennes, 1840) [Taiwambudai]

KPM-NR 67295, 67296, 67297, 67298, 67305, 67309, 67319, 68467, 68513, 68646, 82052, 82057, 82113.

Calotomus spinidens (Quoy et Gaimard, 1824) [Chibibudai]

KPM-NR 67308

Cetoscarus bicolor (Rüppell, 1829) [Irobudai]

KPM-NR 23267, 67277, 67278, 67279, 67280, 67281, 67282, 67283, 67284, 67285, 67286, 67287, 67288, 67289, 67290, 67291, 67292, 67293, 67343, 68423.

Chlorurus bowersi (Snyder, 1909) [Omonhagebudai]

KPM-NR 67225, 67249, 67250, 67340.

Chlorurus frontalis (Valenciennes, 1840) [Onihagebudai]

KPM-NR 67254.

- Chlorurus microrhinos* (Bleeker, 1854) [Nanyobudai]
KPM-NR 67232, 67233, 67313, 67323, 67324, 68469, 68512.
- Chlorurus sordidus* (Forsskal, 1775) [Hagebudai]
KPM-NR 67224, 67312, 67325, 68458, 68468, 68629, 69919.
- Hipposcarus longiceps* (Valenciennes, 1840) [Kitsunebudai]
KPM-NR 7708, 67299, 67300, 67301.
- Leptoscarus vaigiensis* (Quoy et Gaimard, 1824) [Mizorebudai]
KPM-NR 67304, 67306, 67307, 67311, 67344
- Scarus chameleon* Choat et Randall, 1986 [Kamereombudai]
KPM-NR 67252, 67329, 67330, 67333, 68620, 69834, 69836.
- Scarus dimidiatus* Bleeker, 1859 [Kawaribudai]
KPM-NR 67263, 69978.
- Scarus festivus* Valenciennes, 1840 [Tsukinowabudai]
KPM-NR 67331, 67332.
- Scarus forsteni* (Bleeker, 1861) [Ichimonjibudai]
KPM-NR 67226, 67264, 67265, 67266, 67267, 67268, 67269, 67338, 69361, 69908, 82028.
- Scarus frenatus* Lacepède, 1802 [Amimebudai]
KPM-NR 23273, 67270, 67339, 82136.
- Scarus fuscocaudalis* Randall et Myers, 2000 [Ogurobudai]
KPM-NR 29988, 67238, 67239, 67240, 67241, 67242, 67243, 67244, 67245, 67247, 67248, 82160.
- Scarus ghobban* Forsskal, 1775 [Hibudai]
Scarus ghobban: Kamohara, 1963a: 15.
KPM-NR 67276.
- Scarus globiceps* Valenciennes, 1840 [Daidaibudai]
KPM-NR 67334.
- Scarus hypselopterus* Bleeker, 1853 [Kibirebudai]
KPM-NR 67235, 67236, 67237, 69861, 82011, 82034.
- Scarus niger* Forsskal, 1775 [Buchibudai]
KPM-NR 23249, 67255, 67256, 67257, 67258, 67259, 67260, 67261, 67262, 67335, 67336, 67337, 82084.
- Scarus oviceps* Valenciennes, 1840 [Himebudai]
KPM-NR 67234, 67326, 67327, 82219.
- Scarus prasiognathos* Valenciennes, 1840 [Nishikibudai]
KPM-NR 7705, 7706, 7707, 67271, 67272, 67273, 67274, 67275, 67302, 67341, 67342, 82043, 82176.
- Scarus psittacus* Forsskal, 1775 [Omubudai]
KPM-NR 82044.
- Scarus rivulatus* Valenciennes, 1840 [Sujibudai]
KPM-NR 69405.
- Scarus rubroviolaceus* Bleeker, 1847 [Nagabudai]
KPM-NR 67190.
- Scarus schlegelii* (Bleeker, 1861) [Obibudai]
KPM-NR 67227, 67228, 67229, 67230, 67231, 69893.
- Scarus spinus* (Kner, 1868) [Shiroobudai]
KPM-NR 82032.

Family Pinguipedidae

- Parapercis clathrata* Ogilby, 1910 [Yotsumetoragisu]
KPM-NR 67459, 67460, 69828.
- Parapercis cylindrica* (Bloch, 1792) [Dandaratoragisu]
Parapercis clathrata: Hayashi, 1995: 32.
KPM-NR 2488, 7710, 23285, 67455, 68444, 69462.
- Parapercis millepunctata* (Günther, 1860) [Wanuketoragisu]
KPM-NR 67456, 67457.
- Parapercis multiplicata* Randall, 1984 [Sangotoragisu]
KPM-NR 67462, 67463, 67464, 69350, 69492, 82104.
- Parapercis polyophthalma* (Cuvier, 1829) [Ogurotoragisu]
KPM-NR 2464, 67458, 67461.



Fig. 21. *Ceratobregma* sp., KPM-NR 64842, Irabu-jima I., 15 m depth, photo by N. Kobayashi.

- Parapercis schauinslandii* (Steindachner, 1900) [Hawaitoragisu]
KPM-NR 67465, 68548.

- Parapercis tetracantha* (Lacepède, 1801) [Madaratoragisu]
KPM-NR 68713, 69842, 69941.

Family Trichonotidae

- Trichonotus elegans* Shimada et Yoshino, 1984 [Ryuguberagimpo]
KPM-NR 67469, 68097.

Family Tripterygiidae

- Ceratobregma* sp. (Fig. 21)
KPM-NR 64842, 88266.
- Remarks. This species is similar to *Ceratobregma helenae* Holleman, 1987 in its general appearance, but specimens have not been obtained yet, its taxonomic status is unknown.
- Enneapterygius bahasa* Fricke, 1997 [Gomafuhebigimpo]
KPM-NR 68606, 68709, 68711, 69419.
- Enneapterygius elegans* (Peters, 1876) [Sujiohebigimpo]
KPM-NR 67481, 67482, 67495, 67496, 68615, 68647, 68714, 69358, 82196.
- Enneapterygius rhabdotus* Fricke, 1994 [Kurenaihebigimpo]
KPM-NR 64833, 67497, 67498, 82118, 82119.
- Enneapterygius rubicauda* Shen et Wu, 1994 [Akamadarahebigimpo]
KPM-NR 67505.
- Enneapterygius tutuilae* Jordan et Seale, 1906 [Segurohebigimpo]
KPM-NR 64821, 67484, 67485, 67487, 67488, 67489, 67490, 67506, 67507.
- Helcogramma* sp. of Senou *et al.*, 2006a
KPM-NR 67470, 67499, 67500, 67501, 67502, 67503, 67504, 68688, 69396, 69444.
- Helcogramma striatum* Hansen, 1986 [Tatejimahebigimpo]
KPM-NR 67471, 68484, 69399.
- Norfolkia thomasi* Whitley, 1964 [Nisehebigimpo]
KPM-NR 67483, 67486, 88265.
- Ucla xenogrammus* Holleman, 1993 [Kasurihebigimpo]
KPM-NR 2467, 67472, 67473, 67474, 67475, 67476, 67477, 67478, 67479, 67480, 67494, 68459, 68697, 69460.
- Family Blenniidae**
- Aspidontus dussumieri* (Valenciennes, 1836) [Kurosujigimpo]
KPM-NR 67527, 67528, 67529, 69900, 69997.
- Atrosalarias fuscus holomelas* (Günther, 1872) [Indokaeruuo]
Salarias fuscus: Aoyagi, 1954b: 280, fig. 1.

Atrosalarias fuscus holomelas: Hayashi, 1995: 34; Matsumoto, 1995: 7, fig. 2.
 KPM-NI 411; KPM-NR 2396, 2490, 2499, 7717, 23358, 67534, 67535, 67536, 67537, 67538, 68492.

Blenniella bilitonensis (Bleeker, 1858) [Hohogurogimpo]
Salarias novemmaculosus: Aoyagi, 1954b: 284.
Istiblennius bilitonensis: Hayashi, 1995: 35.

Blenniella chrysopilus (Bleeker, 1857) [Montsukikaeruuo]
 KPM-NR 7718, 7719, 67557, 67558, 68569.

Blenniella periophthalmus (Valenciennes, 1836) [Hanakaeruuo]
Salarias periophthalmus: Aoyagi, 1954b: 285, fig. 6.
Istiblennius periophthalmus: Hayashi, 1995: 35.
 KPM-NR 23319.

Cirripectes castaneus (Valenciennes, 1836) [Tategamikaeruuo]
 KPM-NR 67550, 67554, 67555, 67576, 68576, 68689, 68698, 69420, 69918, 69920, 82048, 82142, 82228, 88270.

Cirripectes imitator Williams, 1985 [Amimeminokaeruuo]
Cirripectes sebae: Aoyagi, 1955: 77, figs. 3 & 4.
 KPM-NR 69488.

Cirripectes kuwamurai Fukao, 1984 [Sujitategamikaeruuo]
 KPM-NR 67548, 67549, 69833.

Cirripectes polyzona (Bleeker, 1868) [Minokaeruuo]
Cirripectes polyzona: Aoyagi, 1955: 76, figs. 1 & 2; Hayashi, 1995: 33.
 KPM-NR 67556.

Crossosalarias macrospilus Smith-Vaniz et Springer, 1971 [Enigurogimpo]
 KPM-NR 67539, 67540, 67541, 67542, 67543, 68535, 68574, 69485, 69510.

Ecsenius bicolor (Day, 1888) [Futairokaeruuo]
 KPM-NR 67559, 67560, 67561, 67562, 68701, 69490, 69860, 69928, 69929, 82116, 82117, 82146.

Ecsenius lineatus Klauswitz, 1962 [Hitosujigimpo]
 KPM-NR 7716, 67571, 67572, 67573, 68558, 69514, 69943, 82180.

Ecsenius midas Starck, 1969 [Hanadaigimpo]
 KPM-NR 69883, 82080, 82106.

Ecsenius oculus Springer, 1971 [Goishigimpo]
 KPM-NR 67569, 67570, 69517.

Ecsenius yaeyamaensis (Aoyagi, 1954) [Ishigakikaeruuo]
 KPM-NR 23320, 67563, 67564, 67565, 67566, 67567, 67568, 68546.

Exallias brevis (Kner, 1868) [Sedakagimpo]
 KPM-NR 67551, 67552, 82086, 82234.

Istiblennius edentulus (Forster et Schneider, 1801) [Nisekaeruuo]
Salarias quadricornis: Aoyagi & Nagahama, 1941: 35.
Istiblennius edentulus: Hayashi, 1995: 35.

Meiactanthus atrodorsalis atrodorsalis (Günther, 1877) [Ogonnijigimpo]
 KPM-NR 68436, 68705, 69383, 69475, 82055.

Meiactanthus ditrema Smith-Vaniz, 1976 [Satsukigimpo]
 KPM-NR 67515, 67516.

Meiactanthus grammistes (Valenciennes, 1836) [Higenijigimpo]
Meiactanthus grammistes: Hayashi, 1995: 33.
 KPM-NR 23311, 67509, 67510, 67511, 67512, 67513, 67514, 68578, 69825, 69973, 82021, 82115.

Mimoblennius atrocinctus (Regan, 1908) [Matsubagimpo]
 KPM-NR 67577.

Nannosalarias nativitatis (Regan, 1909) [Hinagimpo]
 KPM-NR 67544, 67545, 67546, 67547, 67574, 67575, 68699, 69926.

Omobranchus loxozonus (Jordan et Starks, 1906) [Kumogimpo]
Petroscirtes loxozonus: Aoyagi, 1955: 79, fig. 5.
 KPM-NR 2443, 2478.

Petroscirtes breviceps (Valenciennes, 1836) [Nijigimpo]
 KPM-NI 388; KPM-NR 67578, 69824, 82248, 82249.



Fig. 22. *Petroscirtes xestus*, KPM-NR 67508, Miyako-jima I., 20 m depth, photo by Y. Kobayashi.

Petroscirtes mitratus Rüppell, 1830 [Hatategimpo]

KPM-NI 391, 396; KPM-NR 67517, 68543.

Petroscirtes xestus Jordan et Seale, 1906 (Fig. 22)

KPM-NR 67508.

Remarks. The photograph agrees well with the figure of *Petroscirtes xestus* given by Smith-Vaniz (1976: 179), but specimens have not been obtained yet from Japan.

Plagiotremus laudandus laudandus (Whitley, 1961) [Inasegimpo]

KPM-NR 67524, 67525, 67526, 69511.

Plagiotremus rhinorhynchus (Bleeker, 1852) [Minamigimpo]

KPM-NR 67521, 67522, 67523, 68486.

Plagiotremus tapeinosoma (Bleeker, 1857) [Tenkurosujigimpo]

KPM-NR 67518, 67519, 67520.

Rhabdoblennius nitidus (Günther, 1861) [Rosokugimpo]

Rhabdoblennius ellipes: Hayashi, 1995: 34.

Salarias fasciatus (Bloch, 1786) [Yaeyamagimpo]

Salarias fasciatus: Aoyagi, 1954b: 281, fig. 2; Hayashi, 1995: 34.

KPM-NR 7722, 7723, 67530, 67531, 67532, 67533, 68600.

Salarias luctuosus Whitley, 1929 [Shimagimpo]

Salarias andersoni: Aoyagi, 1954b: 283, fig. 4.

Salarias luctuosus: Hayashi, 1995: 34.

Family Gobiesocidae

Diademichthys lineatus (Sauvage, 1883) [Hashinagabauo]

KPM-NR 67582, 67583, 68538, 69975.

Discotrema crinophila Briggs, 1976 [Umishidabauo]

KPM-NR 67579, 67580, 67581.

Lepadichthys frenatus Waite, 1904 [Misakiubauo]

Lepadichthys frenatus: Hayashi, 1995: 11.

Family Callionymidae

Dactylopus dactylopus (Valenciennes, 1837) [Ipponteguri]

KPM-NR 16377.

Diplogrammus goramensis (Bleeker, 1858) [Minamikobunumeri]

KPM-NR 2473, 64837, 64838, 67584, 67585, 67586, 67587.

Minysynchiropus kiyoe (Fricke et Zaiser, 1983) [Himeteguri]

KPM-NR 67588, 67615, 67616, 67617, 67618, 68614, 68702, 69832, 82125.

Neosynchiropus morrisoni (Schultz, 1960) [Sesokoteguri]

Neosynchiropus ocellatus: Matsumoto, 1995: 7, fig. 3.

KPM-NR 67600, 67601, 67602, 67605, 67606, 67607, 67608, 67609, 67610, 67611, 68537, 69837, 69935, 82093.



Fig. 23. *Pterosynchiropus picturatus*, KPM-NR 68528, Irabu-jima I., 5–6 m depth, photo by N. Kobayashi

- Neosynchiropus moyeri* (Zaiser et Fricke, 1985) [Miyaketeguri]
KPM-NR 7734, 7735, 7736, 64836, 67594, 67595, 67596, 67597, 67598, 67599, 67603, 67604, 68725, 69509, 82025, 82072, 82243.
- Neosynchiropus ocellatus* (Pallas, 1770) [Kowanteguri]
KPM-NR 67612, 67613, 67614, 69412, 82174, 82175.
- Paradiplogrammus corallinus* (Gilbert, 1905) [Sangohanabinumeri]
Paradiplogrammus corallinus: Hayashi, 1995: 35.
- Paradiplogrammus parvus* Nakabo, 1984 [Kogatahanabinumeri]
KPM-NR 67591.
- Pseudocalliurichthys pleurostictus* (Fricke, 1982) [Gomaitohikinumeri]
KPM-NR 67589, 67590, 67592.
- Pterosynchiropus picturatus* (Peters, 1877) (Fig. 23)
KPM-NR 10557, 68528.
- Remarks. The photographs agree well with the figures of *Synchiropus picturatus picturatus* given by Fricke (1983) and *Synchiropus picturatus* given by Allen *et al.* (2003), but specimens have not been obtained yet from Japan.
- Pterosynchiropus splendidus* (Herre, 1927) [Nishikiteguri]
KPM-NI 3285, 3286; KPM-NR 27831, 67593, 82210.

Family Xenisthmidae

- Xenisthmus* sp. 2 of Akihito *et al.*, 2002 [Komonyanagihaze]
KPM-NI 420.

Family Gobiidae

- Amblyeleotris diagonalis* Polunin et Lubbock, 1979 [Hachimakidatehaze]
KPM-NR 67886, 67887, 67888, 67889, 67890, 67891, 82230.
- Amblyeleotris guttata* (Fowler, 1938) [Yamabukihaze]
KPM-NR 67892, 67893.
- Amblyeleotris masuii* Aonuma et Yoshino, 1996 [Masuidatehaze]
KPM-NR 26486.
- Amblyeleotris ogasawarensis* Yanagisawa, 1978 [Minamidatehaze]
KPM-NR 67895, 69916.
- Amblyeleotris periphthalma* (Bleeker, 1853) [Dandaradatehaze]
KPM-NR 67896, 67897, 67898, 67899, 68521, 68549, 68645, 82156.
- Amblyeleotris randalli* Hoese et Steene, 1978 [Nishirindatehaze]
KPM-NR 7740, 7741, 7742, 67903, 82127.
- Amblyeleotris steinitzi* (Klausewitz, 1974) [Himedatehaze]
KPM-NR 67894, 67904, 67905, 67906, 67907, 69440.
- Amblyeleotris wheeleri* (Polunin et Lubbock, 1977) [Kubiakahaze]
KPM-NR 16777, 67900, 67901, 67902, 69479, 69491.
- Amblygobius hectori* (Smith, 1957) [Kinsenhaze]
Amblygobius hectori: Matsumoto, 1994a: 7, fig. 1.

KPM-NI 412; KPM-NR 2466, 67908, 67909, 67910, 67911, 67912, 68516, 69497.

Amblygobius nocturnus (Herre, 1945) [Hohobenisarasahaze]

KPM-NR 64858, 67913, 67914, 67915, 67916, 67917.

Amblygobius phalaena (Valenciennes, 1837) [Sarasahaze]

Amblygobius semicinctus: Aoyagi, 1949b: 230.

Amblygobius phalaena: Hayashi, 1995: 35.

KPM-NI 390; KPM-NR 2433, 7755, 7756, 7757, 23391, 23392, 26487, 67918, 67919, 67920, 67921, 67922, 67923, 67924, 67925, 67926, 67927, 67928, 68061, 68547, 82075.

Asterropteryx ensifera (Bleeker, 1874) [Himehoshihaze]

KPM-NR 26489.

Asterropteryx semipunctata Rüppell, 1830 [Hoshihaze]

KPM-NI 399, 402; KPM-NR 2437, 23396, 26484, 26488, 67619, 67718, 67933.

Asterropteryx sp. 1 of Suzuki & Shibukawa in Senou, *ed.*, 2004

KPM-NR 16776, 27829.

Bathygobius padangensis (Bleeker, 1851) [Kuroyahazuhaze]

KPM-NR 2474.

Bryaninops amplus Larson, 1985 [Ogarasuhaze]

KPM-NR 69856.

Bryaninops erythrops (Jordan et Seale, 1906) [Irowakegarasuhaze]

KPM-NR 68440, 69858, 69976.

Bryaninops natans Larson, 1985 [Akamehaze]

KPM-NR 7770, 7771, 7772, 7773, 7774, 7775, 68044, 68045, 68046, 68047, 68589.

Bryaninops sp. (Fig. 24)

KPM-NR 68042.

Remarks. Specimens have not been obtained yet from Japan, its taxonomic status is unknown.

Bryaninops sp. 2 of Suzuki & Shibukawa in Senou, *ed.*, 2004

KPM-NR 68039.

Bryaninops yongei (Davis et Cohen, 1969) [Garasuhaze]

KPM-NR 68037, 68038, 69888, 69889, 82035, 82036.

Remarks. This species is a shore fish, but Okiyama and Tsukamoto (1989) recorded it from the outer shelf off Miyako-jima Island where is 138–158 m in depth.

Callogobius hasseltii (Bleeker, 1851) [Okinawahaze]

KPM-NR 2438.

Callogobius okinawae (Snyder, 1908) [Namerahaze]

KPM-NR 2439.

Cryptocentrus albidorsus (Yanagisawa, 1978) [Shiroobihaze]

KPM-NR 67930.



Fig. 24. *Bryaninops* sp., KPM-NR 68042, Miyako-jima I., 20 m depth, photo by Y. Kobayashi.

Cryptocentrus nigrocellatus (Yanagisawa, 1978) [Kurohoshihaze]
KPM-NR 67929, 67931, 67932, 69480, 69811, 82192.

Cryptocentrus strigilliceps (Jordan et Seale, 1906) [Hinomaruhaze]
KPM-NR 69496.

Ctenogobiops maculosus Fourmanoir, 1955 [Hohosujishinobihaze]
KPM-NR 26493, 67972, 67973, 67974, 67975, 69363.

Ctenogobiops feroculus Lubbock et Polunin, 1977 [Himeshinobihaze]
KPM-NR 67980, 67986.

Ctenogobiops pomastictus Lubbock et Polunin, 1977 [Shinobihaze]
KPM-NR 26502, 67976, 67981, 67983, 68587, 69461.

Ctenogobiops tangaroai Lubbock et Polunin, 1977 [Hatatateshinobihaze]
KPM-NR 67987, 67988, 67989, 67990, 67991, 67992.

Ctenogobiops sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67977, 67978, 67979, 67982, 69365, 69441.

Echinogobius hayashii Iwata, Hosoya et Niimura, 1998 [Moyoshinobihaze]
KPM-NR 67993, 67994, 67995, 67996, 68059, 68553, 69816.

Eviota abax (Jordan et Snyder, 1901) [Isohaze]
KPM-NR 2441.

Eviota albolineata Jewett et Lachner, 1983 [Shiroisohaze]
KPM-NR 23354, 67647, 67648, 67649, 67650, 68562, 68691.

Eviota bifasciata Lachner et Karnella, 1980 [Oyogiiisohaze]
Eviota bifasciata: Matsumoto, 1994b: 7, fig. 2.
KPM-NI 3304; KPM-NR 67688, 67689, 82236.

Eviota cometa Jewett et Lachner, 1983 [Nisekurosujiisohaze]
KPM-NR 67681, 67682, 67683.

Eviota distigma Jordan et Seale, 1906 [Kobitoisohaze]
KPM-NI 425, 3306; KPM-NR 67657, 67658.

Eviota fasciola Karnella et Lachner, 1981 [Toranokoisohaze]
KPM-NR 67651, 67652, 67653, 67654, 67655, 67656, 68566,
68707, 68708, 68712, 68722.

Eviota infulata (Smith, 1957) [Sumitsukiisohaze]
KPM-NR 67684, 67685, 67686.

Eviota japonica Jewett et Lachner, 1983 [Minamiisohaze]
KPM-NI 3307.

Eviota latifasciata Jewett et Lachner, 1983 [Obiisohaze]
KPM-NR 67659, 67660, 67661, 67662, 67663, 67691, 67723,
69846, 69896, 82026, 82066.

Eviota melasma Lachner et Karnella, 1980 [Akahoshiisohaze]
KPM-NI 421, 424; KPM-NR 67640, 67641, 67642, 67643, 67644,
67645, 67646, 68631.

Eviota nigriventris Giltay, 1933 [Somewakeisohaze]
Eviota nigriventris: Matsumoto, 1994b: 7, fig. 1.
KPM-NI 3309; KPM-NR 67687.

Eviota prasites Jordan et Seale, 1906 [Aoisohaze]
KPM-NI 422; KPM-NR 2470, 2471, 67667, 67668, 67669, 67670,
67673, 68603.

Eviota punctulata Jewett et Lachner, 1983 [Mitsubaisohaze]
KPM-NI 3280, 3308; KPM-NR 67665, 68509.

Eviota queenslandica Whitley, 1932 [Hoshihireisohaze]
KPM-NI 426.

Eviota sebreei Jordan et Seale, 1906 [Kurosujisohaze]
Eviota sebreei: Matsumoto, 1994b: 7, fig. 3.
KPM-NR 23353, 67690, 69827, 69961.

Eviota sp. 3 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67726, 67728, 68608, 68609, 68610, 69843.

Eviota sp. 4 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67671, 67672, 67674, 67675, 67676, 68452.

Eviota sp. 6 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67720.

Eviota sp. 7 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 26491, 67695, 67696, 68455, 68515, 68633.



Fig. 25. *Feia* sp., KPM-NI 416, 14.6 mm SL, Ikema-jima I., 10 m depth, photo by H. Senou.

Eviota sp. C of Suzuki & Shibukawa in Senou, ed., 2004
[Kometsubuisohaze]
KPM-NR 2511.

Eviota sp. D of Suzuki & Shibukawa in Senou, ed., 2004
[Hanaguroisohaze]
KPM-NI 423; KPM-NR 7763, 7764, 67677, 67678, 67679.

Eviota storthynx (Rofen, 1959) [Kinhoshiisohaze]
KPM-NI 3305.

Favonigobius gymnauchen (Bleeker, 1860) [Himehaze]
KPM-NR 2475, 2476.

Feia sp. (Fig. 25)
KPM-NI 416.

Remarks. This undescribed species is under study of K. Uchino and H. Senou (KPM).

Fusigobius duospilus Hoesle et Reader, 1985 [Sehoshisankakuhaze]
Fusigobius duospilus: Hayashi, 1995: 37.
KPM-NR 67837, 67839, 67840, 67841.

Fusigobius gracilis (Randall, 2001) [Sesujisankakuhaze]
Fusigobius sp.: Hayashi, 1995: 37.
KPM-NR 26490, 67847, 67848, 67849, 67850, 67851, 68065,
68066, 68456, 69415.

Fusigobius humeralis (Randall, 2001) [Kataboshisankakuhaze]
KPM-NR 67827, 67852, 67853.

Fusigobius inframaculatus (Randall, 1994) [Hatatatesankakuhaze]
KPM-NR 67831, 67832, 67833, 67834, 67835, 67836, 68720.

Fusigobius melacron (Randall, 2001) [Tsumagurosankakuhaze]
KPM-NR 67843, 67844, 67845, 67846, 69424.

Fusigobius neophytus (Günther, 1877) [Sankakuhaze]
Fusigobius neophytus: Hayashi, 1995: 37.
KPM-NR 67828, 67829, 67830, 68453.

Fusigobius signipinnis Hoesle et Obika, 1988 [Hirefurisankakuhaze]
KPM-NR 67842.

Fusigobius sp. (Fig. 26)
KPM-NR 67838.



Fig. 26. *Fusigobius* sp., KPM-NR 67838, Irabu-jima I., 25 m depth, photo by Y. Kobayashi.

Remarks. This species is very similar to *Fusigobius duospilus* Hoesle et Reader, 1985, it differs from *F. duospilus* in having a black spot instead of a vertical bar on the anterior part of spinous dorsal fin. Specimens have not been obtained yet, its taxonomic status is unknown.

Fusigobius sp. 1 of Suzuki and Shibukawa in Senou, ed., 2004
KPM-NR 69400.

Gladiogobius sp. 1 of Suzuki and Shibukawa in Senou, ed., 2004
KPM-NR 2442.

Gnatholepis anjerensis (Bleeker, 1851) [Omonhaze]

Gnatholepis knighti: Aoyagi, 1949b: 228.

Gnatholepis anjerensis: Hayashi, 1995: 37.

Gnatholepis cauerensis cauerensis (Bleeker, 1853) [Kataboshiomonhaze]

Gnatholepis scapulostigma: Matsumoto, 1994a: 7, fig. 3; Hayashi, 1995: 37.

KPM-NR 67854, 67855, 67856, 67857, 67858, 68451.

Gobiidae, indeterminate genus & species 1 (Fig. 27)

KPM-NR 68618.

The photograph is similar to Gobiidae, indet. gen. and sp. 8 of Suzuki & Shibukawa in Senou, ed. (2004), but specimens have not been obtained yet, its taxonomic status is unknown.

Gobiidae, indeterminate genus & species 2 (Fig. 28)

KPM-NR 68069.

Remarks. This species is similar to the members of the genus *Acentrogobius* in its general appearance, but specimens have not been obtained yet, its taxonomic status unknown.



Fig. 27. Gobiidae, indet. gen. & sp. 1, KPM-NR 68618, Irabu-jima I., 15 m depth, photo by Y. Kobayashi.



Fig. 28. Gobiidae, indet. gen. & sp. 2, KPM-NR 68069, Miyako-jima I., 21 m depth, photo by Y. Kobayashi.

Gobiodon albofasciatus Sawada et Arai, 1972 [Ichimonjikobanhaze]

Gobiodon albofasciatus: Matsumoto, 1995: 7, fig. 1.

KPM-NR 68010, 69971.

Gobiodon atrangulatus Garman, 1903 [Seakakobanhaze]

KPM-NR 2447, 2448, 69933, 82016.

Gobiodon erythrosipilus Bleeker, 1875 [Shuobikobanhaze]

KPM-NR 2465.

Gobiodon histrio (Valenciennes, 1837) [Benisashikobanhaze]

KPM-NR 68014.

Gobiodon micropus (Günther, 1861) [Aikobanhaze]

Gobiodon micropus: Aoyagi, 1943: 223, pl. 35-fig. 2.

KPM-NR 2398.

Gobiodon oculolineatus Wu, 1979 [Kumadorikobanhaze]

KPM-NR 2449, 2450.

Gobiodon okinawae Sawada Arai et Abe, 1972 [Kirosangohaze]

KPM-NI 3292, 3293; KPM-NR 26499, 26500, 26501, 68011, 68012, 68013.

Gobiodon quinquestrigatus (Valenciennes, 1837) [Futairosangohaze]

KPM-NI 3294, 3295; KPM-NR 2494, 2495, 2500, 2502, 2503, 2504.

Gobiodon sp. 2 of Suzuki & Shibukawa in Senou, ed., 2004

KPM-NR 68018

Gobiodon sp. A of Suzuki & Shibukawa in Senou, ed., 2004 [Kobanhaze]

KPM-NR 2399, 2509, 2510, 68015, 68016.

Gobiodon sp. C of Suzuki & Shibukawa in Senou, ed., 2004

[Tasujikobanhaze]

KPM-NR 2508, 82177.

Gobiodon sp. E of Suzuki & Shibukawa in Senou, ed., 2004

[Irezumikobanhaze]

KPM-NR 68017.

Gobiodon unicolor (Castelnau, 1873) [Mujikobanhaze]

KPM-NR 2400.

Gobiopsis aporia Lachner & McKinney, 1978 [Hadarehaze]

Gobiopsis aporia: Hayashi, 1995: 37.

Istigobius campbelli (Jordan et Snyder, 1901) [Kutsuwahaze]

KPM-NI 395, 398; KPM-NR 2436.

Istigobius decoratus (Herre, 1927) [Hoshikazarihaze]

KPM-NR 67859, 67860, 67861, 67862, 67863, 67864, 67865, 67866, 82068.

Istigobius nigroocellatus (Günther, 1873) [Okikazarihaze]

KPM-NI 3299.

Istigobius rigilius (Herre, 1953) [Madarakazarihaze]

KPM-NR 23397, 26483, 67867, 67868, 67869, 67870, 68454.

Lotilia graciliosa Klauswitz, 1960 [Odorihaze]

KPM-NR 68001, 68002, 68003, 82012.

Macrodontogobius wilburi Herre, 1936 [Madarahaze]

KPM-NR 2440, 64851, 67871, 67872, 67873, 67874, 67875.

Mahidolia mystacina (Valenciennes, 1837) [Kasurihaze]

KPM-NR 68004, 68005, 68006, 68007, 68008, 68009, 68439, 68491.

Myersina nigrivirgata Akihito et Meguro, 1983 [Kuroobihaze]

KPM-NR 29985, 67934, 67935, 67936, 67937.

Oplopomops sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004

KPM-NR 69470.

Oplopomops sp. 2 of Suzuki & Shibukawa in Senou, ed., 2004

KPM-NR 64850.

Oplopomops sp. 3 of Suzuki & Shibukawa in Senou, ed., 2004

KPM-NR 67880, 67881, 67882, 67883, 68070, 68072, 68073, 68074, 68075, 68076, 68077, 68078, 68079, 68081, 68082, 68083, 68087, 68088, 68090, 68091, 68092, 68093, 68094, 69498.

Oplopomops sp. 4 of Suzuki & Shibukawa in Senou, ed., 2004

KPM-NR 68071, 68084.

- Oplopomus oplopomus* (Valenciennes, 1837) [Keshohaze]
KPM-NR 67884, 67885, 69500.
- Oxyurichthys mindanensis* (Herre, 1927) [Nagasehaze]
KPM-NR 64856, 64857, 67998.
- Oxyurichthys papuensis* (Valenciennes, 1837) [Onisaruhaze]
KPM-NR 64859, 64860, 67997, 67999, 68000.
- Oxyurichthys* sp. A of Suzuki & Shibukawa in Senou, ed., 2004 [Irezumisaru-haze]
KPM-NR 68473, 68494.
- Paragobiodon echinocephalus* (Rüppell, 1828) [Darumahaze]
KPM-NI 3296, 3297; KPM-NR 82225.
- Paragobiodon lacunicolus* (Kendall et Goldsborough, 1911) [Pandadarumahaze]
KPM-NR 82155.
- Paragobiodon melanosomus* (Bleeker, 1852) [Kurodarumahaze]
KPM-NR 68025, 68026.
- Paragobiodon modestus* (Regan, 1908) [Yogoredarumahaze]
KPM-NR 69364.
- Paragobiodon* sp. A of Suzuki & Shibukawa in Senou, ed., 2004 [Kasaidarumahaze]
KPM-NR 68028, 69911, 82149.
- Paragobiodon xanthosomus* (Bleeker, 1852) [Akanedarumahaze]
KPM-NR 68027, 69803.
- Parkraemeria ornata* Whitley, 1951 [Gimpohaze]
KPM-NR 69815.
- Pleurosicya boldinghi* Weber, 1913 [Sukerokuumitakehaze]
KPM-NR 68030, 68031, 69840, 69844.
- Pleurosicya fringilla* Larson, 1990 [Hashibutoumitakehaze]
KPM-NR 69867.
- Pleurosicya micheli* Fourmanoir, 1971 [Akasujiumitakehaze]
KPM-NR 68036.
- Pleurosicya mossambica* Smith, 1959 [Seboshiumitakehaze]
KPM-NR 68032, 68033, 68034, 68035, 69942.
- Priolepis cincta* (Regan, 1908) [Benkeihaze]
Cingulogobius eugenius: Aoyagi, 1949b: 228.
Priolepis cincta: Hayashi, 1995: 36.
KPM-NR 67825, 67826.
- Priolepis semidoliata* (Valenciennes, 1837) [Irezumihaze]
Zonogobius semidoliatus: Aoyagi, 1949b: 229.
Priolepis semidoliatus: Hayashi, 1995: 38.
KPM-NR 2451.
- Psilogobius prolatus* Watson et Lachner, 1985 [Haramakihaze]
KPM-NR 29991, 68049, 68050.
- Stonogobiops nematodes* Hoese et Randall, 1982 [Hirenaganejirimbo]
KPM-NR 67938, 67939, 67940.
- Stonogobiops yasha* Yoshino et Shimada, 2001 [Yashahaze]
KPM-NR 67941, 67942.
- Sueviota* sp. 3 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 64825, 67694, 67721, 68695.
- Sueviota* sp. 4 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 82221.
- Tomiamichthys allenii* Iwata, Ohnishi et Hirata, 2000 [Himeonihaze]
KPM-NR 67952.
- Tomiamichthys oni* (Tomiyama, 1936) [Onihaze]
KPM-NR 67943, 67944, 67945, 67946, 67947, 67948, 67949, 67950, 67951.
- Trimma caesiura* Jordan et Seale, 1906 [Benihaze]
Eviota caesiura caesiura: Aoyagi, 1949a: 172.
Trimma caesiura: Hayashi, 1995.
KPM-NR 2472, 67745, 67746, 67750, 67752.
- Trimma caudomaculatum* Yoshino et Araga, 1975 [Aogihaze]
Trimma caudomaculatum: Matsumoto, 2000: 7, fig. 1.
KPM-NR 7776, 67766, 67767, 67768, 67769, 82158, 82183.
- Trimma macrophthalmum* (Tomiyama, 1936) [Omehaze]
KPM-NR 67741, 68418, 68684.
- Trimma naudei* Smith, 1957 [Chigobenihaze]
Trimma naudei: Matsumoto, 1994a: 7, fig. 2.
KPM-NR 67747, 67748, 67749, 67751, 67753, 67754, 67755, 67756, 67757, 67758, 67759, 69450.
- Trimma okinawae* (Aoyagi, 1949) [Okinawabenihaze]
KPM-NR 7765, 7766, 7767, 7777, 7778, 13714, 67730, 67731, 67732, 67733, 67734, 67735, 67736, 67737, 67738, 67739, 67740, 68409, 68410, 68704, 69930, 69967.
- Trimma sheppardi* Winterbottom, 1984 [Ningyobenihaze]
KPM-NR 67742, 67743, 67744, 82128.
- Trimma* sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67770, 67771, 67772, 67773, 67774, 67775, 67776, 67777, 67778, 67779, 67780, 67781, 67799, 68466, 69906, 82199.
- Trimma* sp. 2 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 64843, 67782, 67783, 67784, 67785, 67786, 67787, 67788, 67789, 67790, 67791, 67792, 67793, 67794, 67795, 67796, 67797, 67798, 69847, 69923, 82062.
- Trimma* sp. 4 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 27832.
- Trimma* sp. 10 of Suzuki & Shibukawa in Senou, ed., 2004
Trimma sp.: Matsumoto, 2000: 7, fig. 3.
KPM-NR 68718, 69851, 82059.
- Trimma taylori* Lobel, 1979 [Oyogibenihaze]
Trimma taylori: Matsumoto, 2000: 7, fig. 2.
KPM-NR 67760, 67761, 67762, 67763, 67764, 67765, 82179, 82184.
- Trimmatom* sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 29987, 67700, 67701, 67702, 67703, 67704, 67705, 67706, 67707, 67708, 67709, 67710, 67711, 67712, 67713, 67714, 67715, 67716, 67727, 69859, 69931, 82065, 82145, 82181.
- Valenciennesa helsdingenii* (Bleeker, 1858) [Kuroitohaze]
KPM-NR 67620, 67621.
- Valenciennesa longipinnis* (Lay et Bennett, 1839) [Sazanamihaze]
KPM-NI 389; KPM-NR 2492, 23331, 67622, 67623, 67624, 68599, 82245.
- Valenciennesa parva* Hoese et Larson, 1994 [Himekuroitohaze]
KPM-NR 26495, 26496, 67625, 67626, 68595.
- Valenciennesa puellaris* (Tomiyama, 1956) [Otomehaze]
KPM-NR 7748, 67629, 67630, 67631, 67632.
- Valenciennesa sexguttata* (Valenciennes, 1837) [Mizutamahaze]
KPM-NR 7746, 7747, 7749, 67633, 67634, 69433.
- Valenciennesa* sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 16945, 67627, 67628, 68554.
- Valenciennesa strigata* (Broussonet, 1782) [Akahachihaze]
KPM-NR 2393, 67637, 67638, 67639, 68668, 82247.
- Valenciennesa wardii* (Playfair, 1867) [Sasahaze]
KPM-NR 67635, 67636.
- Vanderhorstia ambanoro* (Fourmanoir, 1957) [Shimaorihaze]
KPM-NR 67953, 67954, 67955, 67956, 67957, 68057, 69499.
- Vanderhorstia* sp. A of Suzuki & Shibukawa in Senou, ed., 2004 [Kusahaze]
KPM-NR 67966, 67967, 67968, 68446.
- Vanderhorstia* sp. B of Suzuki & Shibukawa in Senou, ed., 2004 [Yatsushihaze]
KPM-NR 29992, 67969, 67970, 82190, 82191.
- Vanderhorstia* sp. 3 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67971.

- Vanderhorstia* sp. 4 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67958, 67959, 67960, 67961, 67962, 67963, 67964,
67965.
Yongeichthys criniger (Valenciennes, 1837) [Tsumugihaze]
KPM-NR 68470, 68471, 68472.

Family Kraemeriidae

- Kraemia cunicularia* Rofen, 1958 [Sunahaze]
KPM-NR 2512, 2513, 2514.

Family Microdesmidae

- Gunnellichthys curiosus* Dawson, 1968 [Nishikiomewarasubo]
KPM-NR 68055.
Gunnellichthys monostigma Smith, 1958 [Kuroeriomewarasubo]
KPM-NR 68054, 68099.
Gunnellichthys pleurotaenia Bleeker, 1858 [Omewarasubo]
KPM-NR 23404.
Gunnellichthys viridescens Dawson, 1968 [Daidaiomewarasubo]
KPM-NR 68056, 68098, 68550.

Family Ptereleotridae

- Nemateleotris decora* Randall et Allen, 1973 [Akebonohaze]
KPM-NR 67800, 67801.
Nemateleotris helfrichi Randall et Allen, 1973 [Shikonhatatatehaze]
KPM-NR 67802, 69442.
Nemateleotris magnifica Fowler, 1938 [Hatatatehaze]
KPM-NR 67803, 67804, 67805, 68563.
Parioglossus dotui Tomiyama, 1958 [Satsukihaze]
KPM-NR 2485, 2486.
Parioglossus formosus (Smith, 1931) [Yosujihaze]
KPM-NR 2483, 2484.
Parioglossus raoi (Herre, 1939) [Miyarabihaze]
KPM-NR 2481, 2482.
Ptereleotris evides (Jordan et Hubbs, 1925) [Kuroyurihaze]
Ptereleotris evides: Hayashi, 1995: 38.
KPM-NR 67806, 67811, 69903, 82033.
Ptereleotris grammica grammica Randall et Lubbock, 1982
[Sujikuroyurihaze]
KPM-NR 67812.
Ptereleotris heteroptera (Bleeker, 1855) [Ogurokuroyurihaze]
KPM-NR 67813, 67814, 69814, 69901, 82039.
Ptereleotris microlepis (Bleeker, 1856) [Itomankuroyurihaze]
KPM-NR 67816, 67823, 67824, 82096.
Ptereleotris monoptera Randall et Hoese, 1985 [Himeyurihaze]
KPM-NR 67817.
Ptereleotris sp. 1 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67807, 67810, 67821, 67822, 82238.
Ptereleotris sp. 3 of Suzuki & Shibukawa in Senou, ed., 2004
KPM-NR 67808, 67809.
Ptereleotris zebra (Fowler, 1938) [Zeburahaze]
KPM-NR 67815, 67818, 67820, 69507, 69925.

Family Ephippidae

- Platax pinnatus* (Linnaeus, 1758) [Akakukuri]
KPM-NR 68100, 68101, 69352.
Platax teira (Forsskal, 1775) [Tsubameuo]
KPM-NR 68533.

Family Siganidae

- Siganus argenteus* (Quoy et Gaimard, 1825) [Hanaaigo]
KPM-NR 68102.

- Siganus corallinus* (Valenciennes, 1835) [Sangoaigo]
KPM-NR 68105, 68106, 68107, 69823.

- Siganus fuscescens* (Houttuyn, 1782) [Aigo]
KPM-NR 2434.

- Siganus puellus* (Schlegel, 1852) [Majiriaigo]
KPM-NR 68511.

- Siganus* sp. 1 of Shimada, 2002 [Sedakahanaaigo]
KPM-NR 68623.

- Siganus spinus* (Linnaeus, 1758) [Amiaigo]
KPM-NR 35899, 68103, 68104, 68443.

- Siganus virgatus* (Valenciennes, 1835) [Himeaigo]
KPM-NR 68108, 68109, 69801.

- Siganus (Lo) unimaculatus* (Evermann et Seale, 1907) [Hifukiaigo]
KPM-NR 68110.

Family Zanclidae

- Zanclus cornutus* (Linnaeus, 1758) [Tsunodashi]
KPM-NR 35900, 68111, 68430, 69994.

Family Acanthuridae

- Acanthurus guttatus* Forster, 1801 [Gomaniza]
KPM-NR 68116.
Acanthurus japonicus (Schmidt, 1931) [Namidakurohagi]
KPM-NR 68125, 68126, 68127, 68128, 68131, 68132.
Acanthurus lineatus (Linnaeus, 1758) [Nijihagi]
KPM-NR 68119, 68120, 69392.
Acanthurus mata (Cuvier, 1829) [Hiraniza]
KPM-NR 68650.
Acanthurus nigricans (Linnaeus, 1758) [Meganekurohagi]
KPM-NR 68129, 68130.
Acanthurus nigricauda Duncker et Mohr, 1929 [Kuromontsuki]
KPM-NR 68137, 68692.
Acanthurus nigrofusus (Forsskal, 1775) [Naganiza]
KPM-NR 68117, 68118, 68139, 68145, 69443.
Acanthurus olivaceus Bloch et Schneider, 1801 [Montsukihagi]
KPM-NR 68133, 68134, 68135, 68136, 68420, 82063.
Acanthurus pyroferus Kittlitz, 1834 [Kuroguchiniza]
KPM-NR 28937, 68121, 68122, 68123, 68124.
Acanthurus thompsoni (Fowler, 1923) [Ohagurohagi]
KPM-NR 68113, 68114, 68115.
Acanthurus triostegus (Linnaeus, 1758) [Shimahagi]
Acanthurus triostegus: Hayashi, 1995: 39.
KPM-NR 68112.
Acanthurus xanthopterus Valenciennes, 1835 [Kurohagi]
KPM-NR 64853.
Ctenochaetus binotatus Randall, 1955 [Kokutensazanamihagi]
KPM-NR 68142, 68143, 68144, 68146, 68147, 68148, 68149, 68150.
Ctenochaetus striatus (Quoy et Gaimard, 1825) [Sazanamihagi]
KPM-NR 28939, 68140, 68141, 82049.
Naso annulatus (Quoy et Gaimard, 1825) [Himetenguhagi]
KPM-NR 68172, 69430, 69819.
Naso brevirostris (Cuvier, 1829) [Tsumaritenguhagi]
KPM-NR 68170, 68171, 69835, 82000, 82001.
Naso hexacanthus (Bleeker, 1855) [Tenguhagimodoki]
KPM-NR 68162, 68163, 68181, 69486, 82009, 82132.
Naso lituratus (Forster, 1801) [Miyakotenguhagi]
KPM-NR 68176, 68177, 68178.
Naso thynnoides (Cuvier, 1829) [Bozuhagi]
KPM-NR 69872.

- Naso tuberosus* Lacepède, 1801 [Tosakahagi]
KPM-NR 68164, 68165, 68166, 68167, 68173, 68179, 69487, 82015.
- Naso unicornis* (Forsskål, 1775) [Tenguhagi]
KPM-NR 35905, 68174, 68175, 68621, 69996.
- Naso vlamingii* (Valenciennes, 1835) [Sazanamitosakahagi]
KPM-NR 68168, 68169.
- Paracanthurus hepatus* (Linnaeus, 1766) [Nanyohagi]
KPM-NR 64834, 68151, 68152, 68153.
- Zebrasoma flavescens* (Bennett, 1828) [Kiiruhagi]
KPM-NR 68716, 69887, 82088.
- Zebrasoma veliferum* (Bloch, 1795) [Hirenagahagi]
KPM-NR 7781, 7782, 7783, 23411, 68154, 68155, 68156, 68157, 69972, 80780.

Family Sphyracidae

- Sphyraena helleri* Jenkins, 1901 [Hosokamasu]
KPM-NR 68291, 68292.
- Sphyraena obtusata* Cuvier, 1829 [Taiwankamasu]
Sphyraena flavicauda: Hayashi, 1995.
KPM-NR 68289.

Family Scombridae

- Euthynnus affinis* (Cantor, 1849) [Suma]
KPM-NR 69524.
- Grammatorcynus bilineatus* (Rüppell, 1836) [Nijosaba]
KPM-NR 82147.
- Gymnosarda unicolor* (Rüppell, 1836) [Isomaguro]
KPM-NR 23428.

Order Pleuronectiformes

Family Bothidae

- Asterorhombus filifer* Hensley et Randall, 2003
KPM-NR 7785, 7786, 7787, 68561.
- Bothus mancus* (Broussonet, 1782) [Mondarumagarei]
KPM-NR 69813, 69864, 82102.
- Bothus pantherinus* (Rüppell, 1830) [Togedarumagarei]
KPM-NR 2435, 64830.
- Engyprosopon* sp. (Fig. 29)
KPM-NR 69940.

Remarks. Regarding the members of the genus *Engyprosopon*, it is difficult to identify from underwater photographs.



Fig. 29. *Engyprosopon* sp., KPM-NR 69940, Irabu-jima I., 20–22 m depth, photo by Y. Kobayashi

Family Soleidae

- Pardachirus pavoninus* (Lacepède, 1802) [Minamiushinoshita]
KPM-NI 387; KPM-NR 2480.
- Soleichthys heterorhinos* (Bleeker, 1856) [Sazanamiushinoshita]
KPM-NR 31522, 68287.
- Synaptura marginata* Boulenger, 1900 [Amamiushinoshita]
KPM-NR 64840, 68286.

Order Tetraodontiformes

Family Balistidae

- Abalistes stellaris* (Anonymous, 1798) [Okihagi]
KPM-NR 68192.
- Balistapus undulatus* (Park, 1797) [Kumadori]
KPM-NR 68193, 69904.
- Balistoides conspicillum* (Bloch et Schneider, 1801) [Mongarakawahagi]
KPM-NR 68182, 68183, 68184.
- Balistoides viridescens* (Bloch et Schneider, 1801) [Gomamongara]
KPM-NR 68185, 68186, 68187, 68188, 68189, 68190, 68191, 68506.
- Odonus niger* (Rüppell, 1836) [Akamongara]
KPM-NR 64832, 68195, 68196, 68197, 68198, 69463.
- Pseudobalistes flavimarginatus* (Rüppell, 1829) [Kiherimongara]
KPM-NR 68199, 68593, 82029.
- Pseudobalistes fuscus* (Bloch et Schneider, 1801) [Isomongara]
KPM-NR 68200, 68201, 68489.
- Rhinecanthus aculeatus* (Linnaeus, 1758) [Murasamemongara]
KPM-NR 35902, 68202, 68203, 68204.
- Rhinecanthus rectangulus* (Bloch et Schneider, 1801) [Tasukimongara]
KPM-NR 68205, 68206, 68207, 68208, 68567, 69454.
- Sufflamen bursa* (Bloch et Schneider, 1801) [Musumehagi]
KPM-NR 68209, 69464, 82010.
- Sufflamen chrysopteron* (Bloch et Schneider, 1801) [Tsumajiromongara]
KPM-NR 7792, 68210, 68211, 68212, 68213, 68214, 68215, 82023.
- Sufflamen fraenatum* (Latreille, 1804) [Meganehagi]
KPM-NR 68216, 68217, 68218, 68627, 69818.
- Xanthichthys lineopunctatus* (Hollard, 1854) [Sujinamemongara]
KPM-NR 26494, 27821, 27822, 68194, 68219, 68220, 68221, 82120, 82140.

Family Monacanthidae

- Acreichthys tomentosus* (Linnaeus, 1758) [Fuchidorikawahagi]
KPM-NI 392, 393, 400.
- Aluterus scriptus* (Osbeck, 1765) [Soshihagi]
KPM-NR 68222, 69355, 69839.
- Cantherhines dumerilii* (Hollard, 1854) [Hakuseihagi]
KPM-NR 68223.
- Cantherhines fronticinctus* (Günther, 1867) [Meganeumazurahagi]
KPM-NR 68227.
- Cantherhines pardalis* (Rüppell, 1837) [Amimeumazurahagi]
KPM-NR 68224, 68225, 68226, 69504, 82126.
- Oxymonacanthus longirostris* (Bloch et Schneider, 1801) [Tengukawahagi]
Oxymonacanthus longirostris: Hayashi, 1995: 39.
KPM-NR 23441, 68228, 68229, 68230, 69501.
- Paraluteres prionurus* (Bleeker, 1851) [Nokogirihagi]
KPM-NR 7794, 7795, 68231, 68232, 68233, 68234, 68235, 68236, 68237, 68238, 68239, 68240, 82124.
- Pervagor janthinosoma* (Bleeker, 1854) [Nishikikawahagi]
KPM-NR 23447, 68241.
- Pervagor melanocephalus* (Bleeker, 1853) [Nuriwakekawahagi]
KPM-NR 68242, 68243.

Pervagor nigrolineatus (Herre, 1927) [Tatejimakahagi]

KPM-NI 3283, 3284, 3287, 3288; KPM-NR 68244, 68245, 68590, 68591, 69970, 69974.

Rudarius excelsus Hutchins, 1977 [Sepparihagi]

KPM-NI 401; KPM-NR 64866, 68284.

Family Ostraciidae

Ostracion cubicus Linnaeus, 1758 [Minamihakofugu]

KPM-NR 68246, 68247, 68248, 68249, 68250.

Ostracion meleagris meleagris Shaw, 1796 [Kurohakofugu]

KPM-NR 68251, 68252, 68253, 69371.

Family Tetraodontidae

Arothron hispidus (Linnaeus, 1758) [Sazanamifugu]

KPM-NR 2462, 68254, 68428.

Arothron mappa (Lesson, 1831) [Keshofugu]

KPM-NR 69390.

Arothron nigropunctatus (Bloch et Schneider, 1801) [Kokutenfugu]

KPM-NR 28938, 68408, 69385, 69483, 69959, 82008.

Arothron stellatus (Bloch et Schneider, 1801) [Moyofugu]

KPM-NR 69466.

Canthigaster amboinensis (Bleeker, 1864) [Gomafukinchakufugu]

KPM-NR 69446.

Canthigaster bennetti (Bleeker, 1854) [Kazarikinchakufugu]

KPM-NR 69820.

Canthigaster coronata (Vaillant et Sauvage, 1875) [Hanakinchakufugu]

KPM-NR 68256, 68257, 69353, 82123.

Canthigaster epilampra (Jenkins, 1903) [Monkikinchakufugu]

KPM-NR 68258, 68259, 68706, 82047.

Canthigaster janthinoptera (Bleeker, 1855) [Shiborikinchakufugu]

KPM-NR 68255, 68260, 68261, 68262, 68263, 68264, 68625.

Canthigaster solandri (Richardson, 1845) [Ararekinchakufugu]

KPM-NR 68265, 69986.

Canthigaster valentini (Bleeker, 1853) [Shimakinchakufugu]

KPM-NR 7796, 7797, 7801, 28942, 68236, 68266, 68267, 68268, 68269.

Family Diodontidae

Diodon holocanthus Linnaeus, 1758 [Harisembon]

KPM-NR 68270, 68474.

Diodon hystrix Linnaeus, 1758 [Nezumifugu]

KPM-NR 82030, 82148.

Diodon liturosus Shaw, 1804 [Hitozuraharisembon]

KPM-NR 68475.

Acknowledgment

We greatly appreciate the numerous SCUBA divers who have provided us with their exciting underwater photographs. The following persons greatly contributed to constructing the KPM-NR: Kozue Kato, Koichi Kono, Hiroyuki Kajiyama, Sumiyo Yoshino, Eiji Kozuka, Ritsuko Takahashi, Shoko Takahata, Tetsushi Kunihiro, Shun Sato, Daiji Yamamoto, Toshiyuki Yamamoto, Yasuyuki Sakai, Yasuo Fukazawa, Yutaka Kamiyama, Yasuo Susaki, Katsuyuki Sugimori, Kyoko Otaki, Masahiro Tomari, Kazuhiko Shimada, Toshiyuki Suzuki, Yutaka Wakisaka. Our special thanks go to volunteers of the KPM who always help us with management of collections.

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摘 要

Senou, H., Y. Kobayashi & N. Kobayashi, 2007. Coastal Fishes of the Miyako Group, the Ryukyu Islands, Japan. *Bull. Kanagawa prefect. Mus. (Nat. Sci.)*, (36): 47-74. (瀬能 宏・小林洋子・小林延行, 2007. 宮古諸島の沿岸魚類. 神奈川県立博物館研究報告 (自然科学), (36): 47-74.)

琉球列島の宮古諸島の沿岸魚類相を明らかにする目的で、神奈川県立生命の星・地球博物館に所蔵されている標本と、同館の魚類写真資料データベースに登録されている画像（主に水中写真）を基に魚類目録を作成した。目録には文献による記録も必要に応じて追加した。その結果、同諸島の魚類は少なくとも 17 目 82 科 863 種に達することが判明した。科別の種数ではハゼ科の 146 種を筆頭に、ベラ科 (97 種)、スズメダイ科 (83 種)、テンジクダイ科 (45 種)、ハタ科 (34 種)、チョウチョウオ科 (33 種)、イソギンボ科 (32 種)、ブダイ科 (26 種)、ニザダイ科 (25 種)、ヨウジウオ科 (19 種) と続き、上位 10 科で全体の 62.6% を占めていた。本研究により、同島の沿岸魚類相はほぼ解明されたと考えられる。

(受付 2006 年 12 月 24 日 ; 受理 2007 年 1 月 17 日)