

Annotated Checklist of Deep-Sea Fishes from the Waters around the Ryukyu Islands, Japan

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Abstract: An inventory of deep-sea fishes around the Ryukyu Islands is presented on the basis of specimens collected from 2001-2004 and a literature survey. A total of 643 species in 155 families are listed with collection records and/or taxonomic remarks.

Key words: deep-water fishes, fish fauna, distribution, Ryukyu Islands

Introduction

The Ryukyu Islands of Japan are located south of Kyushu Island and comprise the island groups of Amami, Okinawa and Yaeyama, all washed by the warm Kuroshio Current year round. Demersal fishes of the East China Sea in this area have been well investigated by the Seikai National Fisheries Research Institute of Nagasaki because they are important fishery resources for pair trawl at depths of 90-120 m. The main targets of the pair trawl are synodontids (lizardfishes), sparids (sea breams), sciaenids (drums), trichiulids (hairtails) and pleuronectids (flatfishes).

Regarding the fish fauna of the waters around the Ryukyu Islands, Okamura and Kitajima (1984) and Okamura (1985a) reported 418 species from the Okinawa Trough and adjacent waters, Yamada *et al.* (1986) recorded 312 species from the East China Sea and Yellow Sea, including both deep-water and shallow-water fishes, and Yano and Kugai (1993) reported 35 deep-water chondrichthyans taken by long-line at depths of 210-1250 m in the waters around the Okinawa Group. In addition to these works, a series of monthly bulletins of the Seikai National Fisheries Research Institute introduced newly recorded deep-water fishes from the East China Sea (e.g., Yamada, 1987, 1988ab). Recently, Yoda *et al.* (2002) published a list of fishes (1158 species including littoral fishes) from the East China Sea and Yellow Sea recorded to April 2001. There have been no comprehensive faunal studies on deep-water fishes occurring around the Ryukyu Islands.

In the period from 2001 to 2004, the National Science Museum, Seikai National

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Fisheries Institute and Kyoto University Museum conducted trawl surveys in the waters around the Ryukyu islands at depths of 79–503 m from the R/V *Yoko-Maru* of Seikai National Fisheries Institute. We also collected specimens from this area at depths of 97–2504 m by the R/V *Tansei-Maru* (Ocean Research Institute, University of Tokyo) in 2002. The collected specimens and literature survey revealed that at least 643 species belonging to 155 families and 31 orders occur in the waters of this area at depths greater than 200 m.

Comparisons of the deep-water fish faunas of the Ryukyu Islands, Tosa Bay (Shinohara *et al.*, 2000) and Suruga Bay (Shinohara & Matsuura, 1997) show that the number of species of deep-water fishes is much greater in the Ryukyu Islands (643 spp.) than in Suruga Bay (487 spp.) and larger than in Tosa Bay (599 spp.). The waters of the Ryukyu Islands are characterized by having more species in the Phosichthyidae (23 vs. 5 in Tosa Bay and 7 in Suruga Bay), Alepocephalidae (16 vs. 6 and 3), Sternoptychidae (13 vs. 7 and 7), Ogcocephalidae (15 vs. 9 and 7), Scorpaenidae (19 vs. 15 and 14) and Lutjanidae (10 vs. 5 and 1). On the other hand, the waters around the Ryukyu Islands have fewer species than those of Suruga Bay in the Myctophidae (42 vs. 53; cf. 17 in Tosa Bay) and than those of Tosa Bay in the Triglidae (24 vs. 28; cf. 13 in Suruga Bay) and Bothidae (10 vs. 20; 6 in Suruga Bay).

Methods

Fishes were mainly collected by otter trawl nets and sledge nets (R/V *Yoko-Maru*) and beam trawl nets and dredges (R/V *Tansei-Maru*). The collection localities are shown in Fig. 1 and Table 1. Additional specimens from Okinawa Island were available for our study from a deep-sea survey conducted by the Okinawa Churaumi Aquarium.

Systematic arrangement of taxa follows Nelson (1994). Author(s) and year of each scientific name follows the Catalog of Fishes on the website of the California Academy of Sciences, USA (<http://www.calacademy.org/research/ichthyology/catalog>). Number of specimens is indicated just after each station number in parentheses with repositories (K, Kyoto University Museum; N, National Science Museum) for collections from the R/V *Yoko-Maru*. Major parts of the R/V *Tansei-Maru* collections are deposited in the National Science Museum, but some are in the Laboratory of Marine Biodiversity, Kochi University (BSKU). Specimens collected by the Okinawa Churaumi Aquarium are indicated by the abbreviation of OCA (Table 2). Standard length (SL) is used throughout.

We examined the following literature sources for deep-sea fishes (occur at waters deeper than 200 m): Fish Morphology and Hierarchy (Matsubara, 1955); Fishes of the Okinawa Trough and the Adjacent Waters I (Okamura & Kitajima, 1984); Fishes of the Okinawa Trough and the Adjacent Waters II (Okamura, 1985a); Fishes of the East China Sea and the Yellow Sea (Yamada *et al.*, 1986); The Fishes of the Japanese Archipelago, 2nd Edition (Masuda *et al.*, 1988); and Fishes of Japan with Pictorial Keys to Species, 2nd Edition (Nakabo, 2000a). In addition to these major sources, revisional papers for individual taxonomic groups were examined (e.g., Okamura, 1970; Kawaguchi & Shimizu, 1978). In the literature survey, we recorded locality records that were given with relative accuracy (e.g., East China Sea, Okinawa Island) and ignored vague ones such as “southern Japan.”

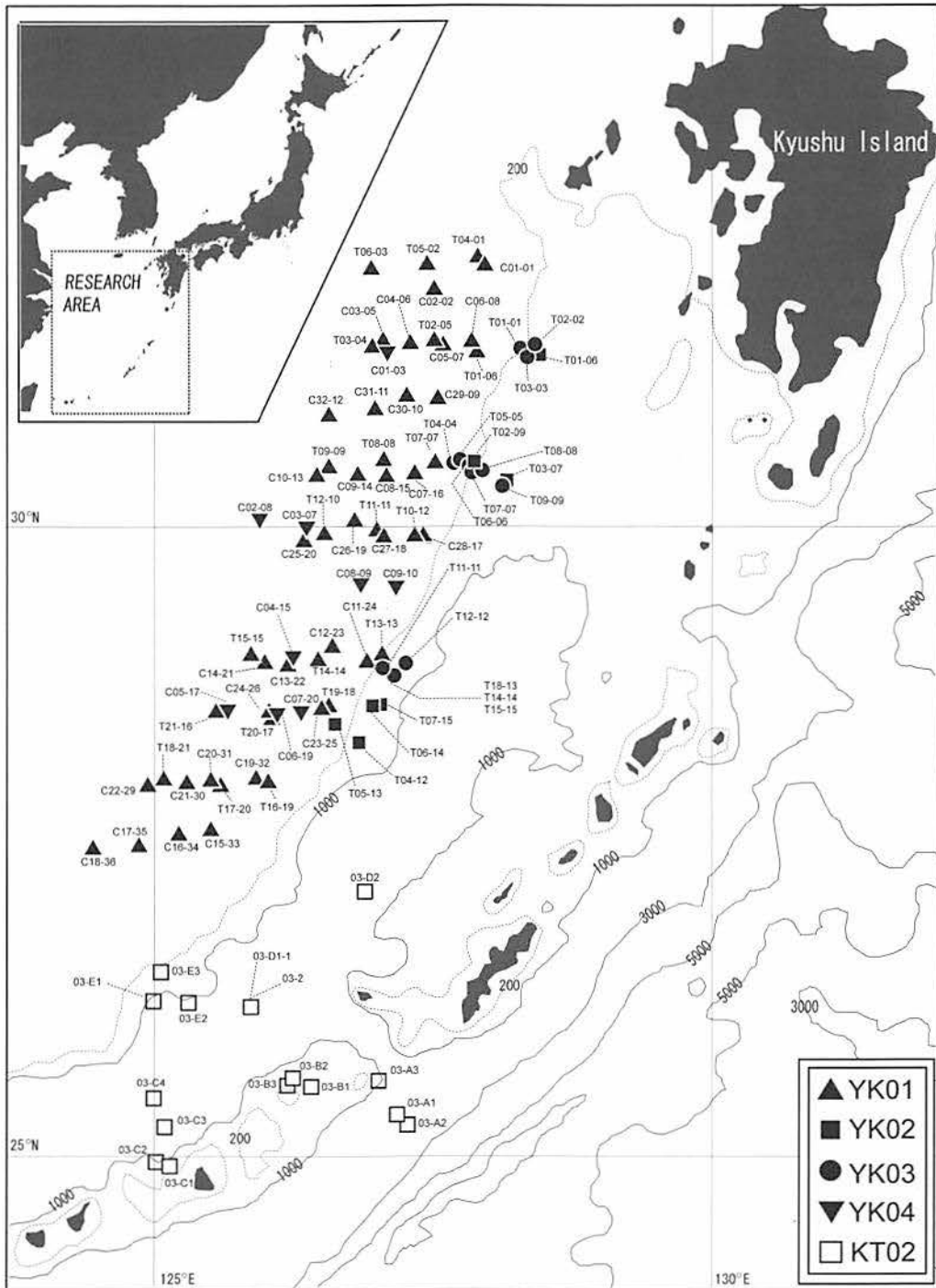


Fig. 1. Collection localities around the Ryukyu Islands, Japan.

Table 1. Collection data of the otter trawls and others operated by R/Vs *Yoko-Maru* (YK) and *Tansei-Maru* (KT).

Station no.	Gear	Date	Position in	Position out	Depth (m)
<i>R/V Yoko-Maru</i>					
YK01-T01-06	otter trawl	12 October 2001	31°27.05'N, 127°53.90'E	31°25.02'N, 127°54.30'E	137-142
YK01-T02-05	otter trawl	12 October 2001	31°29.85'N, 127°31.76'E	no data	130
YK01-T03-04	otter trawl	12 October 2001	31°28.98'N, 127°01.23'E	31°27.59'N, 126°59.43'E	104-107
YK01-T04-01	otter trawl	13 October 2001	32°06.06'N, 127°56.38'E	32°04.44'N, 127°55.12'E	147-149
YK01-T05-02	otter trawl	13 October 2001	32°01.41'N, 127°31.15'E	32°00.56'N, 127°28.27'E	131-133
YK01-T06-03	otter trawl	13 October 2001	32°01.18'N, 127°01.71'E	32°00.44'N, 126°59.49'E	113-116
YK01-T07-07	otter trawl	14 October 2001	30°27.27'N, 127°27.77'E	30°26.27'N, 127°25.86'E	126-127
YK01-T08-08	otter trawl	14 October 2001	30°29.46'N, 127°01.73'E	30°27.62'N, 127°01.24'E	102-102
YK01-T09-09	otter trawl	14 October 2001	30°30.69'N, 126°32.24'E	30°28.09'N, 126°30.54'E	88-90
YK01-T10-12	otter trawl	15 October 2001	30°00.05'N, 127°28.86'E	29°59.96'N, 127°26.18'E	131-135
YK01-T11-11	otter trawl	15 October 2001	29°59.09'N, 126°59.48'E	29°58.82'N, 126°57.91'E	102-104
YK01-T12-10	otter trawl	15 October 2001	29°59.12'N, 126°29.25'E	29°57.05'N, 126°27.39'E	90-92
YK01-T13-13	otter trawl	19 October 2001	29°00.57'N, 127°00.04'E	28°58.71'N, 126°59.55'E	167-170
YK01-T14-14	otter trawl	19 October 2001	28°59.03'N, 126°29.87'E	28°57.23'N, 126°29.43'E	120-120
YK01-T15-15	otter trawl	19 October 2001	28°59.35'N, 126°00.77'E	28°57.04'N, 125°59.32'E	118-119
YK01-T16-19	otter trawl	20 October 2001	27°59.39'N, 125°58.84'E	27°57.08'N, 125°56.57'E	117-118
YK01-T17-20	otter trawl	20 October 2001	27°59.65'N, 125°29.36'E	27°58.51'N, 125°27.05'E	108-111
YK01-T18-21	otter trawl	20 October 2001	27°59.33'N, 124°59.75'E	27°57.02'N, 124°59.21'E	103-106
YK01-T19-18	otter trawl	21 October 2001	28°30.05'N, 126°29.87'E	28°32.37'N, 126°28.37'E	134-136
YK01-T20-17	otter trawl	21 October 2001	28°30.66'N, 126°00.07'E	28°32.87'N, 125°58.83'E	112-113
YK01-T21-16	otter trawl	21 October 2001	28°28.98'N, 125°30.41'E	28°26.92'N, 125°31.21'E	107-112
YK01-C01-01	sledge	28 October 2001	32°06.50'N, 127°55.20'E	32°04.50'N, 128°01.90'E	144-145
YK01-C02-02	sledge	28 October 2001	32°00.40'N, 127°39.40'E	31°58.40'N, 127°40.30'E	141-142
YK01-C03-05	sledge	29 October 2001	31°29.80'N, 127°00.10'E	31°28.00'N, 127°01.80'E	103-105
YK01-C04-06	sledge	29 October 2001	31°30.10'N, 127°20.10'E	31°28.50'N, 127°22.50'E	115-117
YK01-C05-07	sledge	29 October 2001	31°30.00'N, 127°40.10'E	31°28.30'N, 127°43.60'E	133-134
YK01-C06-08	sledge	29 October 2001	31°27.90'N, 127°58.80'E	31°25.50'N, 127°58.10'E	143-145
YK01-C07-16	sledge	30 October 2001	30°29.30'N, 127°28.00'E	30°27.40'N, 127°27.00'E	126-127
YK01-C08-15	sledge	30 October 2001	30°30.10'N, 127°10.00'E	30°28.40'N, 127°08.30'E	105-107
YK01-C09-14	sledge	30 October 2001	30°30.00'N, 126°50.00'E	30°27.00'N, 126°51.40'E	93-94
YK01-C10-13	sledge	30 October 2001	30°31.40'N, 126°31.40'E	30°28.10'N, 126°31.40'E	89-89
YK01-C11-24	sledge	31 October 2001	29°02.60'N, 127°01.70'E	28°59.70'N, 126°59.60'E	168-164
YK01-C12-23	sledge	31 October 2001	29°00.10'N, 126°40.00'E	29°01.30'N, 126°37.30'E	114-115
YK01-C13-22	sledge	31 October 2001	29°00.00'N, 126°20.70'E	29°00.40'N, 126°18.50'E	108-109
YK01-C14-21	sledge	31 October 2001	28°59.90'N, 126°00.10'E	29°00.50'N, 125°56.40'E	115-117
YK01-C15-33	sledge	1 November 2001	27°30.40'N, 125°29.80'E	27°34.80'N, 125°28.90'E	113-115
YK01-C16-34	sledge	1 November 2001	27°29.90'N, 125°09.80'E	27°31.10'N, 125°07.20'E	106-107
YK01-C17-35	sledge	1 November 2001	27°30.00'N, 124°50.00'E	27°28.30'N, 124°47.70'E	104-106
YK01-C18-36	sledge	1 November 2001	27°30.00'N, 124°30.00'E	27°26.30'N, 124°28.20'E	102-102
YK01-C19-32	sledge	2 November 2001	27°59.90'N, 125°56.70'E	27°58.50'N, 125°56.70'E	117-119
YK01-C20-31	sledge	2 November 2001	28°00.00'N, 125°39.90'E	27°58.40'N, 125°37.20'E	110-113
YK01-C21-30	sledge	2 November 2001	28°00.00'N, 125°21.00'E	27°57.10'N, 125°19.20'E	105-108
YK01-C22-29	sledge	2 November 2001	28°00.00'N, 125°00.00'E	27°57.30'N, 124°57.30'E	100-104
YK01-C23-25	sledge	3 November 2001	28°30.00'N, 126°28.40'E	28°33.10'N, 126°30.80'E	134-134
YK01-C24-26	sledge	3 November 2001	28°30.00'N, 126°10.00'E	28°32.60'N, 126°08.70'E	115-116
YK01-C25-20	sledge	4 November 2001	29°58.60'N, 126°29.70'E	29°58.10'N, 126°26.60'E	90-90
YK01-C26-19	sledge	4 November 2001	30°00.00'N, 126°50.00'E	30°00.60'N, 126°51.90'E	99-99
YK01-C27-18	sledge	4 November 2001	30°00.10'N, 127°07.90'E	29°58.00'N, 127°05.80'E	107-108
YK01-C28-17	sledge	4 November 2001	29°59.90'N, 127°28.60'E	29°57.40'N, 127°25.10'E	130-134
YK01-C29-09	sledge	5 November 2001	31°00.00'N, 127°40.00'E	31°03.30'N, 127°38.50'E	129-129
YK01-C30-10	sledge	5 November 2001	31°00.00'N, 127°20.00'E	31°03.90'N, 127°20.60'E	115-118
YK01-C31-11	sledge	5 November 2001	31°00.00'N, 127°00.00'E	30°58.10'N, 127°02.20'E	103-103
YK01-C32-12	sledge	5 November 2001	31°00.00'N, 126°40.00'E	30°58.20'N, 126°37.80'E	91-94
YK02-T01-06	otter trawl	8 November 2002	31°23.09'N, 128°29.07'E	31°22.08'N, 128°30.10'E	461-500
YK02-T02-09	otter trawl	10 November 2002	30°24.08'N, 128°13.08'E	30°23.05'N, 128°13.70'E	499-500
YK02-T03-07	otter trawl	10 November 2002	30°25.04'N, 127°50.07'E	30°24.01'N, 127°50.70'E	299-302
YK02-T04-12	otter trawl	11 November 2002	28°16.05'N, 126°51.02'E	28°18.00'N, 126°52.40'E	305

Table 1. (Continued)

Station no.	Gear	Date	Position in	Position out	Depth (m)
YK02-T05-13	otter trawl	11 November 2002	28°17.20'N, 126°53.04'E	no data	341-336
YK02-T06-14	otter trawl	12 November 2002	28°37.06'N, 127°00.10'E	28°38.00'N, 127°01.00'E	395-470
YK02-T07-15	otter trawl	12 November 2002	28°40.00'N, 127°02.10'E	28°39.08'N, 127°02.10'E	502
YK03-T01-01	otter trawl	4 November 2003	31°21.31'N, 128°19.12'E	31°20.06'N, 128°18.91'E	254-260
YK03-T02-02	otter trawl	4 November 2003	31°21.76'N, 128°21.37'E	31°20.95'N, 128°20.95'E	305-305
YK03-T03-03	otter trawl	4 November 2003	31°20.65'N, 128°23.75'E	31°19.35'N, 128°23.11'E	392-392
YK03-T04-04	otter trawl	5 November 2003	30°32.83'N, 127°48.41'E	30°31.62'N, 127°47.69'E	194-204
YK03-T05-05	otter trawl	5 November 2003	30°31.01'N, 127°49.63'E	30°32.42'N, 127°49.94'E	250-250
YK03-T06-06	otter trawl	5 November 2003	30°31.36'N, 127°51.64'E	30°32.39'N, 127°51.44'E	300-300
YK03-T07-07	otter trawl	6 November 2003	30°30.27'N, 127°54.16'E	30°28.94'N, 127°54.15'E	360-360
YK03-T08-08	otter trawl	6 November 2003	30°29.00'N, 127°56.89'E	30°27.54'N, 127°56.69'E	399-399
YK03-T09-09	otter trawl	6 November 2003	30°25.46'N, 128°14.19'E	30°24.41'N, 128°14.29'E	500-512
YK03-T10-10	otter trawl	7 November 2003	28°59.54'N, 127°02.23'E	28°58.43'N, 127°01.37'E	205-205
YK03-T11-11	otter trawl	7 November 2003	28°59.47'N, 127°04.91'E	28°58.25'N, 127°04.18'E	250-250
YK03-T12-12	otter trawl	7 November 2003	28°59.20'N, 127°07.07'E	28°57.98'N, 127°06.27'E	300-300
YK03-T13-13	otter trawl	8 November 2003	28°59.78'N, 127°09.35'E	28°58.77'N, 127°08.66'E	350-350
YK03-T14-14	otter trawl	8 November 2003	28°59.41'N, 127°10.88'E	28°58.56'N, 127°10.16'E	400-400
YK03-T15-15	otter trawl	8 November 2003	29°00.32'N, 127°14.34'E	28°59.25'N, 127°13.94'E	503-503
YK04-C01-03	sledge	6 November 2004	30°28.83'N, 127°10.28'E	no data	108
YK04-C02-08	sledge	7 November 2004	30°01.05'N, 126°02.60'E	no data	79
YK04-C03-07	sledge	7 November 2004	29°59.07'N, 126°25.29'E	no data	89
YK04-C04-15	sledge	8 November 2004	28°59.03'N, 126°18.98'E	no data	112
YK04-C05-17	sledge	9 November 2004	28°29.04'N, 125°42.04'E	no data	110
YK04-C06-19	sledge	9 November 2004	28°30.85'N, 126°11.98'E	no data	116
YK04-C07-20	sledge	9 November 2004	28°31.32'N, 126°23.73'E	no data	123
YK04-C08-09	sledge	10 November 2004	29°31.16'N, 125°57.94'E	no data	105
YK04-C09-10	sledge	10 November 2004	29°32.94'N, 126°14.02'E	no data	103
<i>R/V Tansei-Maru</i>					
KT-02-3-A1	beam trawl	23 April 2002	25°11.830'N, 127°17.164'E	25°12.779'N, 127°17.890'E	2461-2504
KT-02-3-A2	beam trawl	24 April 2002	25°23.167'N, 127°14.298'E	25°22.284'N, 127°12.970'E	2027-2063
KT-02-3-A3	beam trawl	24 April 2002	25°30.401'N, 126°54.912'E	25°29.09'N, 126°53.96'E	1584-1550
KT-02-3-B1	dredge	24 April 2002	25°31.30'N, 126°22.03'E	25°31.11'N, 126°21.89'E	256-255
KT-02-3-B2	dredge	24 April 2002	25°33.157'N, 126°10.646'E	25°33.006'N, 126°10.676'E	162-151
KT-02-3-B3	dredge	24 April 2002	25°33.297'N, 126°12.806'E	25°33.130'N, 126°12.738'E	97-103
KT-02-3-C1	beam trawl	27 April 2002	24°50.86'N, 125°00.63'E	24°51.76'N, 125°02.59'E	610-596
KT-02-3-C2	beam trawl	27 April 2002	24°56.19'N, 124°54.39'E	24°56.71'N, 124°56.18'E	1012-1006
KT-02-3-C3	beam trawl	25 April 2002	25°09.32'N, 125°02.06'E	25°10.59'N, 125°02.92'E	1601-1618
KT-02-3-C4	beam trawl	24 April 2002	25°24.47'N, 124°57.587'E	25°25.032'N, 124°59.410'E	2133-2125
KT-02-3-E1	beam trawl	26 April 2002	26°11.34'N, 124°54.27'E	26°12.65'N, 124°55.47'E	1493-1533
KT-02-3-E2	beam trawl	26 April 2002	26°15.10'N, 125°17.22'E	20°13.85'N, 125°18.43'E	991-955
KT-02-3-E3	beam trawl	26 April 2002	26°27.21'N, 124°59.78'E	26°27.85'N, 124°59.92'E	524
KT-02-3-D1(1)	beam trawl	27 April 2002	26°10.90'N, 125°50.9'E	26°10.69'N, 125°50.04'E	2162
KT-02-3-D1(2)	beam trawl	27 April 2002	26°10.68'N, 125°50.70'E	26°11.355'N, 125°52.703'E	2164-2147
KT-02-3-D2	beam trawl	28 April 2002	27°02.337'N, 126°58.242'E	27°02.885'N, 126°59.088'E	1557-1540

Table 2. Collection data of specimens from Okinawa Islands deposited in Okinawa Churaumi Aquarium.

Station no.	Gear	Date	Position	Depth (m)
OCA-01-01	hook & line	18 June 2001	27°21.03'N, 127°37.20'E	213-230
OCA-01-02	long line	26 October 2001	26°05'N, 127°55'E	320
OCA-01-03	long line	26 October 2001	127°28'E, 26°35'E	300
OCA-01-04	long line	27 October 2001	26°05'N, 127°56'E	350
OCA-01-05	long line	27 October 2001	26°10'N, 127°56'E	200
OCA-01-06	hook & line	1 November 2001	26°51'N, 127°43'E	340-480
OCA-01-07	hook & line	2 November 2001	27°52.62'N, 127°42.64'E	405
OCA-01-08	hook & line	4 November 2001	24°11'N, 123°55'E	140-300
OCA-01-09	hook & line	5 November 2001	24°31'N, 124°24'E	170-220
OCA-01-10	hook & line	29 November 2001	27°21.44'N, 127°39.88'E	360
OCA-01-11	hook & line	1 December 2001	26°52'N, 127°42'E	350-380
OCA-01-12	hook & line	3 December 2001	26°42'N, 127°42'E	230-270
OCA-01-13	hook & line	4 December 2001	26°42'N, 127°42'E	300
OCA-01-14	hook & line	5 December 2001	27°03.89'N, 127°41.59'E	340-360
OCA-01-15	hook & line	24 December 2001	26°52'N, 127°42'E	380
OCA-02-01	hook & line	10 January 2002	27°04.89'N, 127°29.12'E	344
OCA-02-02	hook & line	13 January 2002	27°52.61'N, 127°42.63'E	380
OCA-02-03	hook & line	14 January 2002	27°06.61'N, 127°33.74'E	350
OCA-02-04	hook & line	25 January 2002	26°44.11'N, 127°50.89'E	250-300
OCA-02-05	long line	8 February 2002	26°03'N, 127°56'E	600-800
OCA-02-06	hook & line	8 February 2002	26°44'N, 127°52'E	275
OCA-02-07	hook & line	13 February 2002	27°21.7'N, 127°39.33'E	280
OCA-02-08	hook & line	15 February 2002	26°46.77'N, 127°42.02'E	280
OCA-02-09	hook & line	16 February 2002	26°45.61'N, 127°42.81'E	380
OCA-02-10	hook & line	23 February 2002	26°44'N, 127°44'E	270-350
OCA-02-11	hook & line	24 February 2002	26°48.74'N, 127°26.33'E	350
OCA-02-12	hook & line	2 March 2002	26°51.12'N, 127°42.53'E	360
OCA-02-13	hook & line	5 March 2002	26°44.7'N, 127°45.49'E	300
OCA-03-01	hook & line	10 January 2003	26°39.32'N, 128°24.42'E	320
OCA-03-02	gill net	16 January 2003	26°25.51'N, 128°49.94'E	650
OCA-03-03	hook & line	17 January 2003	26°44.16'N, 128°24.42'E	350
OCA-03-04	hook & line	11 February 2003	26°42'N, 128°24'E	370
OCA-03-05	hook & line	18 February 2003	26°49.73'N, 128°22.11'E	330
OCA-03-06	trap	19 February 2003	26°50.74'N, 128°25.68'E	750
OCA-03-07	hook & line	19 February 2003	26°49.73'N, 128°21.94'E	300
OCA-03-08	hook & line	26 February 2003	26°44.88'N, 128°29.54'E	370
OCA-03-09	trap	14 March 2003	26°47.95'N, 128°30.2'E	950
OCA-03-10	trap	15 March 2003	26°35.79'N, 128°26.18'E	710
OCA-03-11	gill net	16 March 2003	26°29.67'N, 128°16.19'E	550
OCA-03-12	trap	6 May 2003	26°49.87'N, 128°25.78'E	695-765
OCA-03-13	long line	7 May 2003	26°49.87'N, 128°25.78'E	695-765
OCA-03-14	trap	12 May 2003	26°46.88'N, 128°28.93'E	850
OCA-03-15	hook & line	13 May 2003	26°49'67'N, 128°21.94'E	310
OCA-03-16	hook & line	19 May 2003	26°44.88.2'N, 128°29.54'E	380
OCA-03-17	hook & line	8 July 2003	27°04.89'N, 127°28.94'E	340
OCA-03-18	hook & line	10 July 2003	27°03.62'N, 127°41.33'E	343
OCA-03-19	trap	25 July 2003	26°55.37'N, 127°40.23'E	609
OCA-03-20	trap	16 September 2003	26°05.8'N, 127°54.3'E	291
OCA-03-21	hook & line	16 September 2003	26°04.82'N, 127°54.3'E	384
OCA-03-22	trap	17 September 2003	26°11.79'N, 128°01.25'E	378
OCA-03-23	trap	2 October 2003	27°58.09'N, 127°39.43'E	654
OCA-03-25	trap	28 October 2003	26°02.25.1'N, 127°55.32'E	651
OCA-03-24	vertical long line	28 October 2003	26°02.66'N, 127°55.39'E	658
OCA-03-27	trap	29 October 2003	26°02.96'N, 127°54.39'E	523

Table 2. (Continued)

Station no.	Gear	Date	Position	Depth (m)
OCA-03-26	vertical long line	29 October 2003	26°02.97'N, 127°54.4'E	543
OCA-03-28	hook & line	6 November 2003	26°49.04'N, 127°55.18'E	315
OCA-03-29	hook & line	7 November 2003	27°04.96'N, 127°28.94'E	360
OCA-03-30	trap	8 November 2003	26°39.05'N, 127°13.19'E	720
OCA-03-31	trap	9 November 2003	26°48.92'N, 127°31.57'E	600
OCA-04-01	trap	9 January 2004	26°56.5'N, 127°40.68'E	619
OCA-04-02	trap	9 March 2004	26°59.85'N, 127°40.79'E	600-640
OCA-04-03	trap	7 May 2004	26°37.09'N, 127°43.66'E	277
OCA-04-04	trap	8 May 2004	26°37.8'N, 127°42.17'E	324
OCA-04-05	trap	9 May 2004	26°38.53'N, 127°44.31'E	256
OCA-04-06	hook & line	11 May 2004	27°21.08'N, 127°37.34'E	223
OCA-04-07	trap	12 May 2004	27°18.5'N, 127°38.03'E	600
OCA-04-08	hook & line	8 June 2004	26°51.3'N, 127°43.08'E	428
OCA-04-09	hook & line	8 June 2004	26°52.34'N, 127°42.46'E	369
OCA-04-10	hook & line	23 June 2004	26°47.87'N, 128°23.85'E	300
OCA-04-11	hook & line	23 June 2004	26°45.57'N, 128°28.57'E	290
OCA-04-12	trap	24 June 2004	26°52.34'N, 127°42.49'E	560
OCA-04-13	trap	12 July 2004	26°55.33'N, 127°39.02'E	628-643
OCA-04-14	hook & line	5 August 2004	26°52.54'N, 127°42.58'E	380
OCA-04-15	trap	7 August 2004	26°39.17'N, 127°44.11'E	270-290
OCA-05-01	hook & line	19 January 2005	26°49'N, 127°55'E	280

Species List

Order Myxiniiformes

Family Myxinidae

Dysomma anguillare Barnard, 1923 [Japanese name: Mekuraunagi]

Mixine garmani: Yamakawa, 1984; Sato, 1988; Iwata, 1997, 2000.

Mixine anguillare: Iwata, 2000; Yoda *et al.*, 2002.

YK01-C28-29(1K).

Eptatretus atami (Dean, 1904) [Japanese name: Kuromekuraunagi]

Eptatretus atami: Yamada, 1986a; Yoda *et al.*, 2002.

Eptatretus burgeri (Girard, 1855) [Japanese name: Nutaunagi]

Eptatretus burgeri: Yoda *et al.*, 2002.

YK01-T19-18(1N).

Eptatretus okinoseanus (Dean, 1904) [Japanese name: Murasakinutaunagi]

Eptatretus okinoseanus: Yamakawa, 1984; Sato, 1988; Iwata, 2000; Yoda *et al.*, 2002.

YK02-T01-06(1N), YK02-T01-06(1K), OCA-03-06(2), OCA-03-12(1), OCA-03-19(1), OCA-03-23(4), OCA-04-07(27), OCA-04-12(2), OCA-04-13(1).

Order Chimaeriformes

Family Chimaeridae

Chimaera phantasma Jordan & Snyder, 1900 [Japanese name: Ginzame]

Chimaera phantasma: Nakaya, 1984, 1988; Yamada, 1984, 1986a; Yano and Kugai,

1993; Yano, 1999; Inada, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T02-09(1N), OCA-03-02(1), OCA-03-11(1).

Hydrolagus mitsukurii (Jordan & Snyder, 1904) [Japanese name: Akaginzame]

Hydrolagus mitsukurii: Nakaya, 1984; Nakaya and Shirai, 1992; Yano, 1999; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T02-09(2K).

Hydrolagus purpureus (Gilbert, 1905) [Japanese name: Murasakiginzame]

Hydrolagus purpureus: Yano and Kugai, 1993; Yano, 1999.

Family Rhinochimaeridae

Rhinochimaera africana Compagno, Stehmann & Ebert, 1990 [Japanese name: Kurotenguginzame]

Rhinochimaera africana: Didier and Nakaya, 1999; Nakabo, 2000b; Yoda *et al.*, 2002.

Rhinochimaera pacifica (Mitsukuri, 1895) [Japanese name: Tenguginzame]

Rhinochimaera pacifica: Nakaya, 1984, 1988; Nakaya and Shirai, 1992; Yamada and Horikawa, 1998a; Didier and Nakaya, 1999; Yano, 1999; Nakabo, 2000b; Yoda *et al.*, 2002.

Harriotta releighana Goode & Bean, 1895 [Japanese name: Azumaginzame]

Harriotta releighana: Nakaya, 1984, 1988; Yoda *et al.*, 2002.

Order Orectolobiformes

Family Parascylliidae

Cirrhoscyllium exolitum Smith & Radcliffe in Smith, 1913 [Japanese name: Higezame]

Cirrhoscyllium exolitum: Yoshino and Aonuma, 2000.

OCA-03-02(1).

Order Carcharhiniformes

Family Scyliorhinidae

Apristurus herklotsi (Fowler, 1934) [Japanese name: Yariherazame]

Apristurus herklotsi: Nakaya and Shirai, 1992; Yoda *et al.*, 2002.

Apristurus japonicus Nakaya, 1975 [Japanese name: Nihonherazame]

Apristurus japonicus: Nakaya, 1984; Nakaya, 1988; Nakaya and Shirai, 1992; Yano, 1999; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

Apristurus longicephalus Nakaya, 1975 [Japanese name: Tenguherazame]

Apristurus longicephalus: Nakaya, 1984; Nakaya, 1988, 1997; Nakaya and Shirai, 1992; Yano, 1999; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

Apristurus macrorhynchus (Tanaka, 1909) [Japanese name: Nagaherazame]

Apristurus macrorhynchus: Nakaya, 1984, 1997; Nakaya and Shirai, 1992; Yano, 1999; Yoda *et al.*, 2002.

Apristurus platyrhynchus (Tanaka, 1909) [Japanese name: Herazame]

Apristurus platyrhynchus: Yano and Kugai, 1993; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

Cephaloscyllium umbratile Jordan & Fowler, 1903 [Japanese name: Nanukazame]

Cephaloscyllium umbratile: Nakaya, 1984, 1988; Yamada, 1986a; Nakaya and

Shirai, 1992; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

Cephaloscyllium isabellum: Yano and Kugai, 1993; Yano, 1999.

OCA-03-02(3), OCA-04-07(2).

Galeus eastmani Jordan & Snyder, 1904 [Japanese name: Yamorizame]

Galeus eastmani: Nakaya, 1984, 1988; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

YK02-T04-12(2N), YK03-T01-01(1N), YK03-T03-03(1N), OCA-01-06(1), OCA-01-15(1), OCA-03-09(1), OCA-03-17(1), OCA-03-31(3).

Galeus longirostris Tachikawa & Taniuchi, 1987 [Japanese name: Hashinagayamorzame]

Galeus longirostris: Yoshino and Aonuma, 2000.

OCA-03-02(1), OCA-03-17(1), OCA-03-19(4), OCA-03-26(1), OCA-04-01(1), OCA-04-07(3).

Galeus nipponensis Nakaya, 1975 [Japanese name: Nihonyamorizame]

Galeus nipponensis: Yano and Kugai, 1993; Yano, 1999; Yoshino and Aonuma, 2000.

YK02-T05-13(2K), YK02-T04-12(5K).

Parmaturus melanobranchius (Chan, 1966)

Parmaturus melanobranchius: Yano, 1999.

Parmaturus pilosus Garman, 1906 [Japanese name: Imorizame]

Parmaturus pilosus: Nakaya, 1984; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

OCA-04-07(7), OCA-04-13(3).

Scyliorhinus torazame (Tanaka, 1908) [Japanese name: Torazame]

Scyliorhinus torazame: Nakaya, 1984, 1988; Yamada, 1986a; Nakaya and Shirai, 1992; Yoshino and Aonuma, 2000; Yoda *et al.*, 2002.

YK01-T01-06(1N), YK01-T04-01(1N), YK03-T01-01(1N).

Family Triakidae

Hemitriakis japonica (Müller & Henle, 1839) [Japanese name: Eirakubuka]

Hemitriakis japonica: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

Remarks. Although Hatoaka (2000) notes that *Hemitriakis japonica* is distributed on the continental shelves about 100 m depth, Yano and Kugai (1993) collected 17 specimens of the species from depths of 315-730 m.

Proscyllium habereri Hilgendorf, 1904 [Japanese name: Taiwanzame]

Proscyllium habereri: Nakaya, 1984, 1988; Nakaya and Shirai, 1992; Yoda *et al.*, 2002.

OCA-01-05(1).

Proscyllium venustum (Tanaka, 1912) [Japanese name: Hyouzame]

Calliscyllium venustum: Matsubara, 1955.

Proscyllium venustum: Nakaya, 1984, 1988, 1997; Nakaya and Shirai, 1992; Yoda *et al.*, 2002.

Procyllium haberei: Yamada, 1986a.

OCA-01-03(1).

Pseudotriakis microdon Capello, 1868 [Japanese name: Oshizame]

Pseudotriakis microdon: Yano and Kugai, 1993; Yano, 1999.

OCA-04-07(1).

Mustelus griseus Pietschmann, 1908 [Japanese name: Shirozame]

Mustelus griseus: Yamada, 1986; Yoda *et al.*, 2002.

Mustelus manazo Bleeker, 1854 [Japanese name: Hoshizame]

Mustelus manazo: Yamada, 1986; Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

OCA-03-17(1), OCA-03-28(1), OCA-04-09(1).

Order Lamniformes
Family Odontaspidae

Odontaspis ferox (Risso, 1810) [Japanese name: Oowanizame]

Odontaspis ferox: Yano and Kugai, 1993; Yano, 1999.

Order Hexanchiformes
Family Chlamidoselachidae

Chlamydoselachus anguineus Garman, 1884 [Japanese name: Rabuka]

Chlamydoselachus anguineus: Nakaya, 1984, 1997; Shirai, 1988; Nakaya and Shirai, 1992; Yano, 1999; Yoda *et al.*, 2002.

Family Hexanchidae

Heptranchias perlo (Bonnaterre, 1788) [Japanese name: Edoaburazame]

Heptranchias perlo: Nakaya, 1984; Yamada, 1986a; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

YK02-T04-12(2N), YK02-T04-12(5K), OCA-03-11(1), OCA-04-09(3), OCA-04-14(1).

Hexanchus griseus (Bonnaterre, 1788) [Japanese name: Kagurazame]

Hexanchus griseus: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

Hexanchus nakamurai Teng, 1962 [Japanese name: Shirokagura]

OCA-01-02(1), OCA-04-06(1).

Order Squaliformes
Family Dallatiidae
Subfamily Etmopterinae

Centroscyllium kamoharai Abe, 1966 [Japanese name: Hadakakasumizame]

Centroscyllium kamoharai: Nakaya, 1984; Nakaya and Shirai, 1992; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

Etmopterus brachyurus Smith & Radcliffe in Smith, 1912 [Japanese name: Hosofujikujira]

Etmopterus brachyurus: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

YK02-T02-09(2N), YK02-T02-09(2K), OCA-01-06(3), OCA-03-12(1), OCA-03-13(4), OCA-03-19(3), OCA-03-24(1), OCA-03-31(1), OCA-04-13(1).

Etmopterus lucifer Jordan & Snyder, 1902 [Japanese name: Fujikujira]

Etmopterus lucifer: Nakaya, 1984; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

YK02-T01-06(2N), YK02-T02-09(2N), YK02-T01-06(4K), OCA-03-09(1), OCA-03-14(1), OCA-03-30(3).

- Etmopterus molleri*** (Whitley, 1939) [Japanese name: Hiretakafujikujira]
Etmopterus molleri: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.
 YK02-T01-06(1K), YK03-T03-03(IN), YK03-T07-07(IN), OCA-01-06(2), OCA-03-11(5), OCA-03-24(1).
- Etmopterus pusillus*** (Lowe, 1839) [Japanese name: Karasuzame]
Etmopterus pusillus: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.
- Etmopterus splendidus*** Yano, 1988 [Japanese name: Futoshimifujikujira]
Etmopterus splendidus: Shirai, 1989; Hatooka, 2000; Yoda *et al.*, 2002.

Subfamily Somniosinae

- Centroscymnus coelolepis*** Bocage & Capello, 1964 [Japanese name: Marubarayumezame]
Centroscymnus coelolepis: Hatooka, 2000.
- Centroscymnus owstoni*** Garman, 1906 [Japanese name: Yumezame]
Centroscymnus owstonii: Yano and Kugai, 1993; Yano, 1999.
Centroscymnus owstoni: Hatooka, 2000.
- Zameus squamulosus*** (Günther, 1877) [Japanese name: Biroudozame]
Scymnodon squamulosus: Nakaya, 1984.
Zameus squamulosus: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.
 OCA-03-09(1).
- Somniosus (Rhinoscyrnus) longus*** (Tanaka, 1912) [Japanese name: Kaeruzame]
Somniosus longus: Yano, 1999.
Somniosus rostratus: Hatooka, 2000.
- Remarks. Scientific name and the synonymy followed Yano *et al.* (2004).

Subfamily Dalatiinae

- Dalatias licha*** (Bonnaterre, 1788) [Japanese name: Yoroizame]
Dalatias licha: Hatooka, 2000; Yoda *et al.*, 2002.
 OCA-03-09(1), OCA-03-11(1).
- Isistius brasiliensis*** (Quoy & Gaimard, 1824) [Japanese name: Darumazame]
Isistius brasiliensis: Yano, 1999; Yoda *et al.*, 2002.
- Isistius plutodus*** Garrick & Springer, 1964 [Japanese name: Kohiredarumazame]
Isistius plutodus: Nakaya and Shirai, 1988; Shirai, 1989; Hatooka, 2000.
- Squaliolus alii*** Teng, 1959 [Japanese name: Tsuranagakobitozame]
Squaliolus alii: Yamada, 1986a.
Isistius plutodus: Hatooka, 2000.
Squaliolus aliae: Sasaki and Uyeno, 1987; Nakaya, 1997; Shirai, 1989; Yoda *et al.*, 2002.
- Squaliolus laticaudus*** Smith & Radcliffe in Smith, 1912 [Japanese name: Oomekobitozame]
Squaliolus laticaudus: Nakaya, 1984, 1997; Sasaki and Uyeno, 1987; Shirai, 1989; Nakaya and Shirai, 1992; Yano, 1999; Yoda *et al.*, 2002.

Family Centrophoridae

- Centrophorus acus*** Garman, 1906 [Japanese name: Tarouzame]

Centrophorus acus: Nakaya, 1984, 1997; Nakaya and Shirai, 1988; Shirai, 1989; Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

Centrophorus moluccensis Bleeker, 1860 [Japanese name: Okinawayajirizame]

Centrophorus scalpratus: Nakaya, 1984, 1997; Nakaya and Shirai, 1988; Shirai, 1989.

Centrophorus moluccensis: Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

OCA-01-07(1), OCA-01-11(1), OCA-01-15(1), OCA-03-11(11), OCA-04-14(2).

Centrophorus niaukang Teng, 1959 [Japanese name: Niaukanzame]

Centrophorus niaukang: Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000.

Centrophorus squamosus (Bonnaterrre, 1788) [Japanese name: Momijizame]

Centrophorus squamosus: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

Centrophorus tessellatus Garman, 1906 [Japanese name: Genrokuzame]

Centrophorus tessellatus: Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000.

Deania calcea (Lowe, 1836) [Japanese name: Heratsunozame]

Deania calcea: Nakaya, 1984, 1997; Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

Family Squalidae

Cirrhigaleus barbifer Tanaka, 1912 [Japanese name: Higetsunozame]

Cirrhigaleus barbifer: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

Squalus japonicus Ishikawa, 1908 [Japanese name: Togaritsunozame]

Squalus japonicus: Nakaya, 1984; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

YK01-T13-13(2N), YK02-T04-12(2N), YK02-T03-07(1N), YK02-T05-13(2K), YK02-T04-12(2K), OCA-01-14(1), OCA-02-05(2), OCA-02-07(1), OCA-03-02(1), OCA-03-11(1), OCA-03-16(1), OCA-03-19(1), OCA-03-22(1), OCA-03-24(1), OCA-03-31(2), OCA-04-09(1), OCA-04-12(3), OCA-04-15(1).

Squalus megalops (Macleay, 1881)

Squalus megalops: Yano, 1999.

Squalus mitsukurii Jordan & Snyder in Jordan & Fowler, 1903 [Japanese name: Futotsunozame]

Squalus mitsukurii: Nakaya, 1984; Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Hatooka, 2000; Yoda *et al.*, 2002.

Squalus sp. 1 [Japanese name: Hiretakatsunozame]

Squalus blainvillei: Yano and Kugai, 1993; Yano, 1999.

Squalus sp. 3: Yoda *et al.*, 2002.

Squalus sp. 2 [Japanese name: Toukaiitsunozame]

Squalus sp. 2: Hatooka, 2000; Yoda *et al.*, 2002.

Squalus sp. 3 [Japanese name: Nagasakitsunozame]

Squalus sp. 3: Hatooka, 2000.

Squalus sp. 1: Yoda *et al.*, 2002.

YK03-T01-01(1N), YK03-T15-15(1N).

Remarks. Identification follows Hatooka (2000).

Order Squatiniformes
Family Squatinidae

Squatina nebulosa Regan, 1906 [Japanese name: Korozame]

Squatina nebulosa: Nakaya, 1984; Yano, 1997, 1999; Yoda *et al.*, 2002.

Order Pristiophoriformes
Family Pristiophoridae

Pristiophorus japonicus Günther, 1870 [Japanese name: Nokogirizame]

Pristiophorus japonicus: Nakaya and Shirai, 1992; Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

OCA-03-02(9), OCA-03-11(8).

Order Rajiformes
Suborder Torpedinoidei
Family Torpedinidae

Crassinarke dormitor Takagi, 1951 [Japanese name: Nemurishibireei]

Crassinarke dormitor: Hatooka, 2000; Yoda *et al.*, 2002.

Torpedo tokionis (Tanaka, 1908) [Japanese name: Yamatoshibireei]

Torpedo tokionis: Nakaya, 1984; Hatooka, 2000; Yoda *et al.*, 2002.

Suborder Rajoidei
Family Rhinobatidae

Rhinobatos granulatus Cuvier, 1829 [Japanese name: Minamisakatazame]

Rhinobatos granulatus: Ishihara, 1997; Hatooka, 2000; Yoda *et al.*, 2002.

Rhinobatos schlegelii Müller & Henle, 1841 [Japanese name: Sakatazame]

Rhinobatos schlegelii: Nakaya, 1984; Yamada, 1986a; Yano, 1999; Yoda *et al.*, 2002.

Family Rajidae

Anacanthobatis borneensis Chan, 1965 [Japanese name: Itohikiei]

Anacanthobatis borneensis: Nakaya, 1984, 1988; Nakaya and Shirai, 1992; Ishihara, 1997; Yano, 1999; Hatooka *et al.*, 2000; Yoda *et al.*, 2002.

Bathyraja isotrachys (Günther, 1877) [Japanese name: Charenjakasube]

Bathyraja isotrachys: Nakaya and Shirai, 1992; Ishihara, 1997; Yano, 1999; Hatooka *et al.*, 2000; Yoda *et al.*, 2002.

Dipturus gigas (Ishiyama, 1958) [Japanese name: Zoukasube]

Raja gigas: Nakaya, 1984; Nakaya and Shirai, 1992; Yano, 1999.

Dipturus gigas: Hatooka *et al.*, 2000; Yoda *et al.*, 2002.

YK03-T15-15(1N).

Dipturus kwangtungensis Chu, 1960 [Japanese name: Gangiei]

Raja kenojei: Matsubara, 1955; Nakaya, 1984, 1988; Yamada, 1986a.

Raja (Dipturus) kwangtungensis: Ishihara, 1997.

Raja kwangtungensis: Nakaya and Shirai, 1992; Yano, 1999.

Dipturus kwangtungensis: Yoda *et al.*, 2002.

YK01-T13-13(2N), YK01-T04-01(3N), YK01-T04-01(1N).

Dipturus macrocauda (Ishiyama, 1955) [Japanese name: Kitsunekasube]

Raja macrocauda: Nakaya and Shirai, 1992; Yano, 1999.

Dipturus macrocauda: Hatooka *et al.*, 2000; Yoda *et al.*, 2002.

Dipturus tengu (Jordan & Fowler, 1903) [Japanese name: Tengukasube]

Raja tengu: Matsubara, 1955; Nakaya, 1988.

Dipturus tengu: Yoda *et al.*, 2002.

YK03-T15-15(1N).

Notoraja tobitukai (Hiyama, 1940) [Japanese name: Tobitsukaei]

Bathyraja tobitukai: Nakaya, 1984.

Notoraja tobitukai: Nakaya and Shirai, 1992; Ishihara, 1997; Yano, 1999; Yoda *et al.*, 2002.

Raja pulchra Liu, 1932 [Japanese name: Meganekasube]

Raja pulchra: Matsubara, 1955; Nakaya, 1988; Yoda *et al.*, 2002.

YK03-T04-04(1N).

Rhinoraja kujiensis (Tanaka, 1916) [Japanese name: Kujikasube]

Rhinoraja kujiensis: Hatooka *et al.*, 2000; Yoda *et al.*, 2002.

YK02-T01-06(1N).

Suborder Myliobatoidei

Family Plesiobatidae

Plesiobatis daviesi (Wallace, 1967) [Japanese name: Usuei]

Plesiobatis daviesi: Yano and Kugai, 1993; Yano, 1999; Aonuma and Yoshino, 2000; Yoda *et al.*, 2002.

Family Hexatrygonidae

Hexatrygon longirostra (Chu & Meng in Chu, Meng, Hu & Li, 1981) [Japanese name: Mutsueraei]

Hexatrygon longirostra: Nakaya, 1984, 1988; Nakaya and Shirai, 1992; Yamada, 2000; Nishida, 1997; Yoda *et al.*, 2002.

Hexatrygon yangi: Yamada, 1988a.

Hexatrygon sp.: Yamada and Irie, 1994.

Remarks. The taxonomy of *Hexatrygon* is quite confused. We followed Yamada (2000), because Japanese specimens were tentatively assigned to *Hexatrygon longirostra*.

Family Dasyatidae

Dasyatis akajei (Müller & Henle, 1841) [Japanese name: Akaei]

Dasyatis akajei: Yano and Kugai, 1993; Yano, 1999; Yoda *et al.*, 2002.

Himantura gerrardi (Gray, 1851) [Japanese name: Otomeei]

Himantura gerrardi: Yoda *et al.*, 2002.

Family Urolophidae

Urolophus aurantiacus Müller & Henle, 1841 [Japanese name: Hirataei]

Urolophus aurantiacus: Nakaya, 1984, 1988; Yamada, 1986a; Nakaya and Shirai, 1992; Yano, 1999; Yoda *et al.*, 2002.

Order Albuliformes
Suborder Albulioidei
Family Albulidae

Pterothrissus gissu Hilgendorf, 1877 [Japanese name: Gisu]

Pterothrissus gissu: Machida, 1984; Sato, 1997; Aizawa, 2000; Yoda *et al.*, 2002.

Suborder Notacanthoidei
Family Halosauridae

Aldrovandia affinis (Günther, 1877) [Japanese name: Tokagegisu]

Aldrovandia affinis: Machida, 1984; Yoda *et al.*, 2002.

KT-02-3-C2(1).

Halosauropsis macrochir (Günther, 1878) [Japanese name: Kuroobitokagegisu]

KT-02-3-A2(1).

Family Notacanthidae

Notacanthus abbotti Fowler, 1934 [Japanese name: Kitsunesokogisu]

Notacanthus abbotti: Machida, 1984; Yoda *et al.*, 2002.

Order Anguilliformes
Suborder Muraenoidei
Family Muraenidae

Evenchelys macrurus (Bleeker, 1854) [Japanese name: Onagautsubo]

Evenchelys macrurus: Machida, 1985; Yoda *et al.*, 2002.

Gymnothorax elegans Bliss, 1883 [Japanese name: Okinawanokogiriutsubo]

Gymnothorax elegans: Hatooka, 2000.

Gymnothorax berndti Snyder, 1904 [Japanese name: Hawaiiutsubo]

Gymnothorax berndti: Machida, 1984; Yoda *et al.*, 2002.

Gymnothorax intesi (Fourmanoir & Rivaton, 1979) [Japanese name: Minamimizoreutsubo]

Gymnothorax intesi: Hatooka, 2000.

Gymnothorax minor (Temminck & Schlegel, 1846) [Japanese name: Amiutsubo]

Gymnothorax reticularis: Yamada, 1986a.

Gymnothorax minor: Yoda *et al.*, 2002.

YK01-T17-20(1N).

Gymnothorax neglectus Tanaka, 1911 [Japanese name: Mizoreutsubo]

Gymnothorax neglectus: Machida, 1985; Yoda *et al.*, 2002.

OCA-01-11(2), OCA-01-13(1), OCA-01-14(1).

Gymnothorax ypsilon Hatooka & Randall, 1992 [Japanese name: Okinoshimautsubo]

Gymnothorax ypsilon: Hatooka, 2000.

OCA-01-12(1), OCA-04-03(1), OCA-04-06(1).

Suborder Congroidei
Family Synaphobranchidae

- Dysomma anguillare*** Barnard, 1923 [Japanese name: Mekuraanago]
Dysomma anguillare: Machida, 1984; Okamura, 1997; Yamada, 1986a; Yoda *et al.*, 2002.
- Ilyophis brunneus*** Gilbert, 1891 [Japanese name: Ryukyuhoanago]
Ilyophis brunneus: Machida, 1984, 1988; Hatooka, 2000; Yoda *et al.*, 2002.
Synaphobranchus brunneus: Okamura, 1997.
OCA-03-09(2).
- Meadia abyssale*** (Kamohara, 1938) [Japanese name: Hirejiroanago]
Meadia abyssale: Machida, 1984; Okamura, 1997; Yoda *et al.*, 2002.
OCA-04-07(34), OCA-04-12(2), OCA-04-13(1).
- Simenchelys parasiticus*** Gill in Goode & Bean, 1879 [Japanese name: Kongouanago]
Simenchelys parasiticus: Machida, 1984; Okamura, 1997; Hatooka, 2000; Yoda *et al.*, 2002.
OCA-03-09(4), OCA-03-14(6).
- Synaphobranchus affinis*** Günther, 1877 [Japanese name: Hooanago]
Synaphobranchus affinis: Machida, 1984; Okamura, 1997; Yoda *et al.*, 2002.
- Synaphobranchus*** sp. [Japanese name: Sodeanago]
Synaphobranchus sp.: Hatooka, 2000; Yoda *et al.*, 2002.
KT-02-3-C3(3).
- Remarks.** Identification follows Hatooka (2000).

Family Ophichthidae

- Echelus uropterus*** (Temminck & Schlegel, 1846) [Japanese name: Hireanago]
Echelus uropterus: Yoda *et al.*, 2002.
YK01-T03-04(3N), YK01-C30-10(3K), YK01-C11-24(1N), YK01-T03-04(5N).
- Ophichthus asakusae*** Jordan & Snyder, 1901 [Japanese name: Inakaumihebi]
Ophichthus asakusae: Yoda *et al.*, 2002.
YK01-T11-11(1N).
- Ophisurus macrorhynchus*** Bleeker, 1853 [Japanese name: Dainanumihebi]
Ophisurus macrorhynchus: Machida, 1984; Yoda *et al.*, 2002.
- Ophichthus urolophus*** (Temminck & Schlegel, 1846) [Japanese name: Susoumihebi]
Ophichthus urolophus: Machida, 1984; Yamada, 1986a; Yoda *et al.*, 2002.
YK02-T03-07(1K).
- Pisodonophis zophistiis*** Jordan & Snyder, 1901 [Japanese name: Hotateumihebi]
YK01-T08-08(1N).

Family Colocongridae

- Coloconger japonicus*** Machida, 1984 [Japanese name: Bakefusaanago]
Coloconger japonicus: Machida, 1984, 1988, 1997; Hatooka, 2000; Yoda *et al.*, 2002.

Family Muraenesocidae

- Gavialiceps taeniola*** Alcock, 1889 [Japanese name: Watakuzuhamo]

Gavialiceps taeniola: Machida, 1984, 1988; Hatooka, 2000; Yoda *et al.*, 2002.

Family Nemichthyidae

Avocettina infans (Günther, 1878) [Japanese name: Kuroshigiunagi]

Avocettina infans: Machida, 1984; Yoda *et al.*, 2002.

Avocettina paucipora Nielsen & Smith, 1978 [Japanese name: Kuroshigiunagimodoki]

Avocettina paucipora: Asano, 1988.

Nemichthys scolopaceus Richardson, 1848 [Japanese name: Shigiunagi]

Nemichthys scolopaceus: Machida, 1984; Yoda *et al.*, 2002.

YK03-T09-09(3N).

Family Congridae

Acromycter nezumi (Asano, 1958) [Japanese name: Himoanago]

Acromycter nezumi: Machida, 1984.

YK02-T04-12(1N), YK02-T04-12(1K).

Ariosoma anago (Temminck & Schlegel, 1846) [Japanese name: Hanaanago]

Ariosoma anagoides: Asano, 1988.

Ariosoma anago: Yoda *et al.*, 2002.

YK01-C02-02(1N).

Ariosoma shiroanago major (Asano, 1958) [Japanese name: Ooshiroanago]

Ariosoma shiroanago major: Asano, 1962; Hatooka, 2000; Yoda *et al.*, 2002.

Ariosoma shiroanago shiroanago (Asano, 1958) [Japanese name: Shiroanago]

Ariosoma shiroanago shiroanago: Machida, 1984; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T01-06(2N), YK01-C22-29(1K).

Bathyroconger vicinus (Vaillant, 1888) [Japanese name: Sokoianago]

Bathyroconger vicinus: Machida, 1984; Hatooka, 2000; Yoda *et al.*, 2002.

Congricus megastomus (Günther, 1877) [Japanese name: Okianago]

Congricus megastomus: Asano, 1962; Machida, 1984; Yoda *et al.*, 2002.

YK02-T06-14(1N), YK02-T01-06(1N), YK02-T02-09(1N).

Conger myriaster (Brevoort, 1856) [Japanese name: Maanago]

Conger myriaster: Asano, 1962; Machida, 1984; Yamada, 1986a; Yoda *et al.*, 2002.

YK03-T07-07(1N).

Gnathophis nystromi ginanago (Asano, 1958) [Japanese name: Niseginanago]

Gnathophis nystromi ginanago: Yoda *et al.*, 2002.

YK01-T15-15(1N), YK01-C11-24(5K).

Japonoconger sivicolus (Matsubara & Iwai, 1951) [Japanese name: Minamianago]

Japonoconger sivicolus: Machida, 1984; Yoda *et al.*, 2002.

Rhynchoconger ectenurus (Jordan & Richardson, 1909) [Japanese name: Kitsuneanago]

Rhynchoconger ectenurus: Hatooka, 2000; Yoda *et al.*, 2002.

Uroconger lepturus (Richardson, 1845) [Japanese name: Aianago]

Uroconger lepturus: Machida, 1984; Yoda *et al.*, 2002.

Family Nettastomatidae

Nettastoma parviceps Günther, 1877 [Japanese name: Kuzuanago]

Nettastoma parviceps: Machida, 1984; Asano, 1997; Yoda *et al.*, 2002.

Nettastoma solitarium Castle & Smith in Smith, Böhlke & Castle, 1981 [Japanese name: Nisekuzuanago]

Nettastoma solitarium: Machida, 1984; Hatooka, 2000; Yoda *et al.*, 2002.

Saurenehelys fierasfer (Jordan & Snyder, 1901) [Japanese name: Itoanago]

Saurenehelys fierasfer: Asano, 1988; Hatooka, 2000; Yoda *et al.*, 2002.

Family Serrivomeridae

Stemonidium hypomelas Gilbert, 1905 [Japanese name: Himenokobaunagi]

Stemonidium hypomelas: Asano, 1988; Hatooka, 2000.

Order Saccopharyngiformes

Suborder Cyematoidei

Family Cyematidae

Cyema atrum Günther, 1878 [Japanese name: Yabaneunagi]

Cyema atrum: Aizawa and Sakamoto, 1993; Aizawa, 2000.

Suborder Saccopharyngoidei

Family Eurypharyngidae

Eurypharynx pelecanoioides Vaillant, 1882 [Japanese name: Fukurounagi]

KT-02-3-C3(1).

Family Monognathidae

Monognathus ozawai Bertelsen & Nielsen, 1987 [Japanese name: Tangakuunagi]

Monognathus ozawai: Bertelsen and Nielsen, 1987; Hatooka, 2000.

Order Osmeriformes

Family Argentinidae

Argentina kagoshimae Jordan & Snyder, 1902 [Japanese name: Kagoshimanigisu]

Argentina kagoshimae: Machida, 1984; Yamada, 1986a; Horikawa, 1997; Yoda *et al.*, 2002.

YK01-T05-02(1N), YK02-T05-13(2N), YK02-T03-07(2N), YK03-T03-03(1N).

Glossanodon semifasciata (Kishinouye, 1904) [Japanese name: Nigisu]

Glossanodon semifasciata: Machida, 1984; Yamada, 1986a; Horikawa, 1997; Hatooka, 2000; Yoda *et al.*, 2002.

Family Microstomatidae

Lipolagus ochotensis (Schmidt, 1938) [Japanese name: Sokoiwashi]

Bathylagus ochotensis: Machida, 1985.

Lipolagus ochotensis: Yoda *et al.*, 2002.

Melanolagus bericoides (Borodin, 1929) [Japanese name: Nettaisokoiwashi]

Melanolagus bericoides: Aizawa and Hatooka, 2000.

- Nansenia ardesiaca* Jordan & Thompson, 1914 [Japanese name: Ginzakeiwashi]
Nansenia ardesiaca: Machida, 1984; Horikawa, 1997; Aizawa and Hatooka, 2000; Yoda *et al.*, 2002.
 YK02-T01-06(3K), YK03-T09-09(2N).

Family Opisthoproctidae

- Winteria telescopa* Brauer, 1901 [Japanese name: Kurodemenigisu]
Winteria telescopa: Fujii, 1988; Aizawa, 2000.

Family Alepocephalidae

- Alepocephalus australis barnardi* (Norman, 1930) [Japanese name: Aramekonnyaku-iwashi]
 KT02-3-C3(1).
- Alepocephalus bicolor* Alcock, 1891 [Japanese name: Hosomekonnyakuiwashi]
Alepocephalus bicolor: Okamura, 1984, 1988; Okamura, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Alepocephalus longiceps* Lloyd, 1909 [Japanese name: Togarikonnyakuiwashi]
Alepocephalus longiceps: Okamura, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 KT02-3-E1(1).
- Alepocephalus longirostris* Okamura & Kawanishi, 1984 [Japanese name: Marukonnyaku-iwashi]
Alepocephalus longirostris: Okamura and Kawanishi, 1984; Okamura, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.
- Alepocephalus owstoni* Tanaka, 1908 [Japanese name: Hageiwashi]
Alepocephalus owstoni: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Alepocephalus triangularis* Okamura & Kawanishi, 1984 [Japanese name: Okinawa-konnyakuiwashi]
Alepocephalus triangularis: Okamura and Kawanishi, 1984; Nakabo, 2000b; Yoda *et al.*, 2002.
- Alepocephalus umbriceps* Jordan & Thompson, 1914 [Japanese name: Konnyakuiwashi]
Alepocephalus umbriceps: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 KT-02-3-D2(1).
- Leptoderma lubricum* Abe, Marumo & Kawaguchi, 1965 [Japanese name: Nameraiwashi]
Leptoderma lubricum: Okamura, 1997.
- Leptoderma rectropinum* Fowler, 1943 [Japanese name: Yasenameraiwashi]
Leptoderma rectropinnum: Machida, 1984, 1988; Okamura, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 KT-02-3-C2(1), KT-02-3-E2(1).
- Narcetes kamoharai* Okamura, 1984 [Japanese name: Kuromasukuiwashi]
Narcetes kamoharai: Okamura, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 KT-02-3-C3(1).
- Rouleina guentheri* (Alcock, 1892) [Japanese name: Tanakasekitoriiwashi]
Rouleina guentheri: Machida, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

- Rouleina watasei*** (Tanaka, 1909) [Japanese name: Sekitoriiwashi]
Rouleina watasei: Machida, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 YK02-T01-06(1N), YK03-T09-09(4N).
- Talismania antillurum*** (Goode & Bean, 1896) [Japanese name: Nokobaiwashi]
Talismania antillurum: Okamura, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Talismania filamentosa*** Okamura & Kawanishi, 1984 [Japanese name: Mizuhikiwashi]
Talismania filamentosa: Okamura and Kawanishi, 1984; Okamura, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Talismania okinawensis*** Okamura & Kawanishi, 1984 [Japanese name: Itoiwashi]
Talismania okinawensis: Okamura and Kawanishi, 1984; Okamura, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Xenodermichthys nodulosus*** Günther, 1878 [Japanese name: Tsubuiwashi]
Xenodermichthys nodulosus: Machida, 1984; Nakabo, 2000b; Yoda *et al.*, 2002.

Order Stomiiformes
 Suborder Gonostomatoidei
 Family Gonostomatidae

- Cyclothone acclinidens*** Garman, 1899 [Japanese name: Sen-onihadaka]
Cyclothone acclinidens: Ozawa and Oda, 1986a.
- Cyclothone alba*** Brauer, 1906 [Japanese name: Yukionihadaka]
Cyclothone alba: Ozawa and Oda, 1986a; Fujii, 1988; Aizawa, 1997, 2000.
- Cyclothone atraria*** Gilbert, 1905 [Japanese name: Onihadaka]
Cyclothone atraria: Ozawa and Oda, 1986a; Fujii, 1988; Aizawa, 1997, 2000.
 KT-02-3-C4(1).
- Cyclothone pallida*** Brauer, 1902 [Japanese name: Usuonihadaka]
Cyclothone pallida: Ozawa and Oda, 1986a; Fujii, 1988; Aizawa, 1997, 2000.
- Cyclothone pseudopallida*** Mukhacheva, 1964 [Japanese name: Haiiroonihadaka]
Cyclothone pseudopallida: Ozawa and Oda, 1986a; Fujii, 1988; Aizawa, 1997, 2000.
- Diplophos orientalis*** Matsubara, 1940 [Japanese name: Yumehadaka]
Diplophos taenia: Ozawa and Oda, 1986b; Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
- Diplophos taenia*** Günther, 1873 [Japanese name: Netaiyumehadaka]
Diplophos taenia: Ozawa and Oda, 1986b; Aizawa, 2000; Yoda *et al.*, 2002.
- Sigmops gracile*** (Günther, 1878) [Japanese name: Yokoeso]
Gonostoma gracile: Machida, 1984; Yoda *et al.*, 2002.
 KT-02-3-E1(1), KT-02-3-C2(1).
- Sigmops elongatum*** (Günther, 1878) [Japanese name: Ooyokoeso]
Gonostoma elongatum: Machida, 1984; Aizawa, 1997.
Sigmops elongatum: Aizawa, 2000; Yoda *et al.*, 2002.

Family Sternoptychidae
 Subfamily Maurolicinae

- Maurolicus japonicus*** Ishikawa, 1915 [Japanese name: Kyuurieso]
Maurolicus muelleri: Machida, 1984; Fujii, 1988.
Maurolicus japonicus: Aizawa, 1997, 2000; Yoda *et al.*, 2002.

KT-02-3-E3(4).

Subfamily Sternoptychinae

Argyropelecus aculeatus Valenciennes in Cuvier & Valenciennes, 1850 [Japanese name: Togarimuneneso]

Argyropelecus aculeatus: Fujii, 1988.

Argyropelecus affinis Garman, 1899 [Japanese name: Nagamuneeso]

Argyropelecus affinis: Fujii, 1988.

Argyropelecus hemigymnus Cocco, 1829 [Japanese name: Tenganmuneeso]

Argyropelecus hemigymnus: Fujii, 1988; Aizawa, 1997, 2000.

KT-02-3-A2(1).

Polyipnus matsubarae Schultz, 1961 [Japanese name: Hoshihounen-eso]

Polyipnus tridentifer: Machida, 1984.

Polyipnus matsubarae: Yoda *et al.*, 2002.

Polyipnus parini Borodulina, 1979 [Japanese name: Maruhounen-eso]

Polyipnus parini: Yoda *et al.*, 2002.

Polyipnus stereope Jordan & Starks, 1904 [Japanese name: Katahounen-eso]

Polyipnus stereope: Aizawa, 1997, 2000; Yoda *et al.*, 2002.

YK02-T02-09(3N), KT-02-3-E3(9N), YK02-T01-06(7K), YK02-T02-09(3K), YK02-T06-14(2K), KT-02-3-E3(9).

Polyipnus spinifer Borodulina, 1979 [Japanese name: Nokobahounen-eso]

Polyipnus spinifer: Fujii, 1988; Aizawa, 2000; Yoda *et al.*, 2002.

YK02-T06-14(1N), YK03-T03-03(7N).

Polyipnus matsubarae Schultz, 1961 [Japanese name: Hoshihounen-eso]

Polyipnus matsubarae: Yoda *et al.*, 2002.

YK02-T02-09(1N).

Sternoptyx diaphana Hermann, 1781 [Japanese name: Muneeso]

Sternoptyx diaphana: Machida, 1984; Fujii, 1988; Aizawa, 2000; Yoda *et al.*, 2002.

Sternoptyx obscura Garman, 1899 [Japanese name: Obimuneeso]

Sternoptyx obscura: Fujii, 1988.

Sternoptyx pseudobscura Baird, 1971 [Japanese name: Muneesomodoki]

Sternoptyx pseudobscura: Fujii, 1988; Aizawa, 1997, 2000.

Valenciennellus tripunctulatus (Esmark, 1871) [Japanese name: Hoshieso]

Valenciennellus tripunctulatus: Fujii, 1988; Aizawa, 2000.

Suborder Photichthyoidei

Family Photichthyidae

Ichthyococcus elongatus Imai, 1941 [Japanese name: Shinjueso]

YK02-T02-09(1N).

Polymetme elongatus (Matsubara, 1938) [Japanese name: Ryuuguuhadaka]

Polymetme elongata: Machida, 1984; Fujii, 1988; Parin and Borodulina, 1990.

Polymetme elongatus: Aizawa, 1997, 2000; Yoda *et al.*, 2002.

Vinciguerria attenuata (Cocco, 1838) [Japanese name: Ukieso]

Vinciguerria attenuatata: Fujii, 1988.

Subfamily Astronesthinae

- Astronesthes fedorovi* Parin & Borodulina, 1994 [Japanese name: Gintokagegisu]
Astronesthes fedorovi: Aizawa, 2000.
- Astronesthes indica* Brauer, 1902 [Japanese name: Hohojirotokagegisu]
Astronesthes indica: Aizawa, 2000.
- Astronesthes indopacifica* Parin & Borodulina, 1997 [Japanese name: Kurotokagegisu]
Astronesthes cyanea: Aizawa, 1997.
Astronesthes indopacifica: Aizawa, 2000.
- Astronesthes ijimai* Tanaka, 1908 [Japanese name: Tokagehadaka]
Astronesthes (Stomianodon) ijimai: Parin and Borodulina, 1994.
Astronesthes lucifera: Aizawa, 1997.
Astronesthes ijimai: Aizawa, 2000; Yoda *et al.*, 2002.
- Astronesthes ijimai* Tanaka, 1908 [Japanese name: Tokagehadaka]
Astronesthes lucifera: Machida, 1984.
Astronesthes ijimai: Aizawa, 2000; Yoda *et al.*, 2002.
 YK03-T14-14(1N).
- Borostomias elucens* (Brauer, 1906) [Japanese name: Sukibatokagegisu]
Borostomias elucens: Aizawa, 2000.
- Borostomias pacificus* (Imai, 1941) [Japanese name: Futatsuboshieso]
Borostomias pacificus: Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.

Subfamily Stomiinae

- Chauliodus sloani* Bloch & Schneider, 1801 [Japanese name: Houraieso]
Chauliodus sloani: Machida, 1984; Fujii, 1988; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
- Stomias affinis* Günther, 1887 [Japanese name: Wanitokagegisu]
Stomias affinis: Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
 YK02-T02-09(2K), YK03-T09-09(1N).
- Stomias nebulosus* Alcock, 1889 [Japanese name: Yoroihoshieso]
Stomias nebulosus: Aizawa, 2000.

Subfamily Melanostomiinae

- Eustomias cancriensis* Gibbs, Clarke & Gomon, 1983 [Japanese name: Kanzashihoshieso]
Eustomias cancriensis: Aizawa, 2000.
- Eustomias crossotus* Gibbs, Clarke & Gomon, 1983 [Japanese name: Mizuhikihoshieso]
Eustomias crossotus: Aizawa, 2000.
- Eustomias fissibarbis* (Pappenheim, 1912) [Japanese name: Mayudamahoshieso]
Eustomias fissibarbis: Aizawa, 2000.
- Eustomias orientalis* Gibbs, Clarke & Gomon, 1983 [Japanese name: Dainichihoshieso]
Eustomias orientalis: Fujii, 1988.
- Leptostomias robustus* Imai, 1941 [Japanese name: Fudehoshieso]
Leptostomias robustus: Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
- Melanostomias dentex* Regan & Trewavas [Japanese name: Mayakashihoshieso]
Melanostomias dentex: Fujii, 1988; Aizawa, 2000.

- Melanostomias melanops*** Brauer, 1902 [Japanese name: Shirohigehoshieso]
Melanostomias melanops: Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
 KT-02-3-C1(1).
- Photonectes albipennis*** (Döderlein, 1882) [Japanese name: Hoteieso]
Photonectes albipennis: Machida, 1984; Aizawa, 1997, 2000; Yoda *et al.*, 2002.
 YK02-T01-06(1K).

Subfamily Malacosteinae

- Malacosteus niger*** Ayres, 1848 [Japanese name: Ookuchihoshieso]
Malacosteus niger: Machida, 1984; Fujii, 1988; Aizawa, 1997, 2000; Yoda *et al.*,
 2002.
- Photostomias guernei*** Collett, 1889 [Japanese name: Houkiboshieso]
Photostomias guernei: Aizawa, 1997, 2000.

Order Ateleopodiformes

Family Ateleopodidae

- Ateleopus japonicus*** Bleeker, 1853 [Japanese name: Shachiburi]
Ateleopus japonicus: Mochizuki, 1997; Aizawa, 2000; Yoda *et al.*, 2002.
 YK01-T20-17(1N).
- Ateleopus purpureus*** Tanaka, 1915 [Japanese name: Murasakishachiburi]
Ateleopus purpureus: Okamura, 1985a; Aizawa, 2000; Yoda *et al.*, 2002.
 YK02-T03-07(1N).
- Ijimaia dofleini*** Sauter, 1905 [Japanese name: Ooshachiburi]
Ijimaia dofleini: Yoda *et al.*, 2002.

Order Aulopiformes

Suborder Giganthuroidei

Family Giganturidae

- Gigantura indica*** Brauer, 1901
Gigantura indica: Johnson and Bertelsen, 1991.
- Remarks.** Only larvae were recorded from southern Nansei Island waters (Johnson and Bertelsen, 1992: fig. 16).

Suborder Aulopoidei

Family Aulopodidae

- Aulopus damasi*** (Tanaka, 1915) [Japanese name: Esodamashi]
Aulopus damasi: Yamakawa, 1984, 1988, 1997; Yamada, 1986a; Nakabo, 2000b;
 Yoda *et al.*, 2002.
- Aulopus formosanus*** Lee & Chao, 1994 [Japanese name: Itohikihime]
Aulopus formosanus: Yamakawa, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Aulopus japonicus*** Günther, 1877 [Japanese name: Hime]
Aulopus japonicus: Yamakawa, 1984; Yamada, 1986a; Yoda *et al.*, 2002.
 YK01-T04-01(1N), YK01-C11-24(1K), YK01-C28-17(2K), YK03-T04-04(3N).
- Aulopus* sp.** [Japanese name: Hatatatehime]

Aulopus sp. 2: Yamakawa, 1988.

Aulopus sp.: Nakabo, 2000b.

Aulopus sp. 1: Yoda *et al.*, 2002.

Family Chlorophthalmidae

Chlorophthalmus acutifrons Hiyama, 1940 [Japanese name: Tomomehikari]

Chlorophthalmus acutifrons: Okamura, 1984, 1997; Yoda *et al.*, 2002.

YK02-T05-13(2N), YK02-T05-13(1K), YK02-T03-07(2K), KT-02-3-E3(1).

Chlorophthalmus albatrossis Jordan & Starks, 1904 [Japanese name: Aomeeso]

Chlorophthalmus albatrossis: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T05-13(2N), YK02-T05-13(2K), YK02-T02-09(1K), YK02-T04-12(2K).

Chlorophthalmus albimaculatus Okamura, 1984 [Japanese name: Montsukiaomeeso]

Chlorophthalmus albimaculatus: Okamura, 1984.

"*Chlorophthalmus*" *albimaculatus*: Nakabo, 2000b.

Paraaulopus albimaculatus: Yoda *et al.*, 2002.

Chlorophthalmus nigromarginatus Kamohara, 1953 [Japanese name: Tsumaguroaomeeso]

Chlorophthalmus nigromarginatus: Okamura, 1985b, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Chlorophthalmus pectoralis Okamura & Doi, 1984 [Japanese name: Hirenagaaomeeso]

Chlorophthalmus pectoralis: Okamura and Doi, 1984; Okamura, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Family Ipnopidae

Bathypterois atricolor Alcock, 1896 [Japanese name: Itohikiiwashi]

Bathypterois atricolor: Okamura, 1984, 1988; Yoda *et al.*, 2002.

Bathypterois guentheri Alcock, 1889 [Japanese name: Nagadueeso]

Bathypterois guentheri: Okamura, 1984; Yoda *et al.*, 2002.

Family Scopelarchidae

Scopelarchus michaelsarsi Koefoed, 1955 [Japanese name: Mikaerudemeso]

Scopelarchus michaelsarsi: Nakabo, 2000b.

Family Notosudidae

Ahliesaurus brevis Bertelsen, Krefft & Marshall, 1976 [Japanese name: Fukamifudeeso]

Ahliesaurus brevis: Nakabo, 2000b.

Scopelosaurus harryi (Mead in Mead & Taylor, 1953) [Japanese name: Hariifudeeso]

Scopelosaurus harryi: Fujii, 1988.

Scopelosaurus mauli Bertelsen, Krefft & Marshall, 1976 [Japanese name: Maorufudeso]

Scopelosaurus mauli: Nakabo, 2000b.

Scopelosaurus smithii Bean, 1925 [Japanese name: Fudeeso]

Scopelosaurus smithii: Nakabo, 2000b.

Suborder Alepisauroidae

Family Synodontidae

Saurida wanieso Shindo & Yamada, 1972 [Japanese name: Wanieso]

Saurida wanieso: Yamakawa, 1984; Yamada, 1986a, 1997; Yoda *et al.*, 2002.
OCA-03-04(1).

Saurida sp. [Japanese name: Kuroeso]

Saurida sp.: Yamada and Irie, 1992

Saurida sp. 1: Yoda *et al.*, 2002.

YK01-T16-19(1N).

Remarks. Identification follows Yamada (2000).

Synodus kaianus Günther, 1880 [Japanese name: Hanatogoeso]

Synodus kaianus: Yamakawa, 1984; Yamada, 1997, 2000; Yoda *et al.*, 2002.

YK01-T01-06(2N).

Synodus macrops Tanaka, 1917 [Japanese name: Chouchoueso]

Synodus macrops: Yamakawa, 1984; Yamada, 1986a, 1997, 2000; Yoda *et al.*, 2002.

YK01-T04-01(2N), YK01-C05-07(7K), YK01-C22-29(3K), YK01-C29-09(1K),
YK01-C12-23(1K).

Trachinocephalus myops (Forster in Bloch & Schneider, 1801) [Japanese name: Okieso]

Trachinocephalus myops: Yamakawa, 1984; Yamada, 1986a; Yoda *et al.*, 2002.

Family Paralepididae

Anotopterus nikparini Kukuev, 1998 [Japanese name: Mizuudamashi]

Anotopterus nikparini: Nakabo, 2000b.

Lestidium prolixum Harry, 1953 [Japanese name: Namehadaka]

Lestidium prolixum: Yamakawa, 1984; Okamura, 1997.

YK02-T02-09(1K), YK03-T09-09(1N), YK03-T13-13(2N).

Lestidiops indopacifica (Ege, 1953) [Japanese name: Nattainamehadaka]

Lestidiops indopacifica: Fujii, 1988; Nakabo, 2000b.

Remarks. Although this species is distributed in Pacific and Indian oceans, only juveniles were recorded from Ryukyu Islands, Japan (Nakabo, 2000b)

Lestrolepis intermedia (Poey, 1868) [Japanese name: Futasujinamehadaka]

Lestrolepis intermedia: Yoda *et al.*, 2002.

YK03-T03-03(1N), YK03-T13-13(1N).

Lestrolepis japonica (Tanaka, 1908) [Japanese name: Hadakaeso]

Lestrolepis japonica: Yoda *et al.*, 2002.

YK02-T02-09(7K), YK03-T13-13(2N).

Lestidiops jayakari (Boulenger, 1889) [Japanese name: Shironamehadaka]

Lestidiops jayakari jayakari: Fujii, 1988.

Lestidiops jayakari: Nakabo, 2000b.

Lestidiops mirabilis (Ege, 1933) [Japanese name: Kuronamehadaka]

Lestidiops mirabilis: Yoda *et al.*, 2002.

Lestidium atlanticum Borodin, 1928 [Japanese name: Hitosujinamehadaka]

Lestidium atlanticum: Fujii, 1988; Nakabo, 2000b.

Lestidium prolixum Harry, 1953 [Japanese name: Namehadaka]

Lestidium prolixum: Nakabo, 2000b; Yoda *et al.*, 2002.

Paralepis atlantica Krøyer, 1868 [Japanese name: Kusabiurokoeso]

Paralepis atlantica: Yamakawa, 1984; Yoda *et al.*, 2002.

YK02-06-14(1N), YK02-02-09(2N).

Stemonosudis macrura (Ege, 1933) [Japanese name: Sayorinamehadaka]

Stemonosudis macrura: Ozawa, 1986a; Fujii, 1988; Nakabo, 2000b.

Remarks. Although this species is distributed in tropical and subtropical areas of Pacific and Indian oceans, only juveniles were record from Ryukyu Islands, Japan (Nakabo, 2000b).

Sudis atrox Rosen, 1963 [Japanese name: Munabirehadakaeso]

Sudis atrox: Ozawa, 1986a; Nakabo, 2000b.

Remarks. Not adults but only juveniles were record from southern Kyushu Island, Japan (Nakabo, 2000b).

Family Evermannellidae

Coccorella atlantica (Parr, 1928) [Japanese name: Namerayarieso]

Coccorella atlantica: Okamura, 1984, 1997; Yoda *et al.*, 2002.

Evermannella indica Brauer, 1906 [Japanese name: Madarayarieso]

Evermannella indica: Fujii, 1988; Nakabo, 2000b.

Family Alepisauridae

Alepisaurus ferox Lowe, 1833 [Japanese name: Mizuuo]

Alepisaurus ferox: Yoda *et al.*, 2002.

Order Myctophiformes

Family Neoscopelidae

Neoscopelus macrolepidotus Johnson, 1863 [Japanese name: Sotooriiwashi]

Neoscopelus macrolepidotus: Okamura, 1984; Fujii, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-02-09(2N), YK02-T02-09(5K), KT-02-3-E3(1).

Neoscopelus microchir Matsubara, 1943 [Japanese name: Sangoiwashi]

Neoscopelus microchir: Okamura, 1984, 1997; Fujii, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-06-14(1N), YK02-T01-06(2K), YK02-T06-14(1K), YK03-T15-15(1N).

Neoscopelus porosus Arai, 1969 [Japanese name: Shichigoiwashi]

Neoscopelus porosus: Yoda *et al.*, 2002.

YK02-T01-06(4K), KT-02-3-E3(1).

Family Myctophidae

Benthoosema fibulatum (Gilbert & Cramer, 1897) [Japanese name: Hokutohadaka]

Benthoosema fibulatum: Yoda *et al.*, 2002.

Benthoosema pterotum (Alcock, 1890) [Japanese name: Iwahadaka]

Benthoosema pterotum: Fujii, 1988; Yamada, 1986a; Nakabo, 2000b; Yoda *et al.*, 2002.

YK01-T09-09(56N), YK01-C32-12(4K), YK03-T12-12(1N).

Benthoosema suborbitale (Gilbert, 1913) [Japanese name: Sokohadaka]

- Benthemia suborbitale*: Fujii, 1988; Nakabo, 2000b.
- Bolinichthys distophax* Johnson, 1975 [Japanese name: Futomikazukihadaka]
Bolinichthys distophax: Nakabo, 2000b.
- Bolinichthys longipes* (Brauer, 1906) [Japanese name: Hosomikazukihadaka]
Bolinichthys longipes: Fujii, 1988; Nakabo, 2000b.
- Centrobranchus andreae* (Lütken, 1892) [Japanese name: Maruhanahadaka]
Centrobranchus andreae: Fujii, 1988; Nakabo, 2000b.
- Centrobranchus brevirostris* Becker, 1964 [Japanese name: Butahadaka]
Centrobranchus brevirostris: Fujii, 1988; Nakabo, 2000b.
- Centrobranchus chaerocephalus* Fowler, 1904 [Japanese name: Nagahanahadaka]
Centrobranchus chaerocephalus: Fujii, 1988; Nakabo, 2000b.
- Ceratoscopelus warmingii* (Lütken, 1892) [Japanese name: Gokouhadaka]
Ceratoscopelus warmingii: Fujii, 1988; Yoda *et al.*, 2002.
 KT-02-3-D1(1)(1).
- Diaphus anderseni* Tåning, 1932 [Japanese name: Futatsuboshihadaka]
Diaphus anderseni: Fujii, 1988; Nakabo, 2000b.
- Diaphus brachycephalus* Tåning, 1928 [Japanese name: Ebisuhadaka]
Diaphus brachycephalus: Kawaguchi and Shimizu, 1978; Fujii, 1988.
- Diaphus chrysorhynchus* Gilbert & Cramer, 1897 [Japanese name: Sagamihadaka]
Diaphus chrysorhynchus: Yoda *et al.*, 2002.
 YK02-06-14(3N), YK02-T02-09(1K), YK02-T06-14(4K), YK03-T03-03(1N), YK03-T13-13(8N).
- Diaphus effulgens* (Goode & Bean, 1896) [Japanese name: Tamahadaka]
Diaphus effulgens: Nakabo, 2000b.
- Diaphus fragilis* Tåning, 1928 [Japanese name: Kumadorihadaka]
Diaphus fragilis: Yoda *et al.*, 2002.
 YK03-T12-12(44N), YK03-T12-12(8N).
- Diaphus garmani* Gilbert, 1906 [Japanese name: Hirohadaka]
Diaphus garmani: Okamura, 1984; Yoda *et al.*, 2002.
- Diaphus gigas* Gilbert, 1913 [Japanese name: Suitouhadaka]
Diaphus gigas: Okamura, 1984; Yoda *et al.*, 2002.
- Diaphus leutkeni* (Brauer, 1904) [Japanese name: Gantenhadaka]
Diaphus leutkeni: Kawaguchi and Shimizu, 1978; Fujii, 1988; Nakabo, 2000b.
- Diaphus mollis* Tåning, 1928 [Japanese name: Otomehadaka]
Diaphus mollis: Fujii, 1988; Nakabo, 2000b.
- Diaphus parri* Tåning, 1932
Diaphus parri: Kawaguchi and Shimizu, 1978.
- Diaphus problematicus* Parr, 1928 [Japanese name: Mayoihadaka]
Diaphus problematicus: Fujii, 1988; Nakabo, 2000b.
- Diaphus schmidtii* Tåning, 1932 [Japanese name: Takahadaka]
Diaphus schmidtii: Kawaguchi and Shimizu, 1978; Fujii, 1988; Nakabo, 2000b.
- Diaphus suborbitalis* Weber, 1913 [Japanese name: Senhadaka]
Diaphus suborbitalis: Kawaguchi and Shimizu, 1978; Okamura, 1984; Yoda *et al.*, 2002.
 YK02-02-09(9N), YK02-06-14(3N), YK02-T02-09(1K), YK02-T06-14(4K), YK03-T13-13(5N).
- Diaphus watasei* Jordan & Starks, 1904 [Japanese name: Hadakaiwashii]
Diaphus watasei: Fujii, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

- YK02-T02-09(1K), YK02-T01-06(1K), YK03-T03-03(1N), YK03-T12-12(5N).
Diogenichthys atlanticus (Tåning, 1928) [Japanese name: Itahadaka]
Diogenichthys atlanticus: Fujii, 1988; Nakabo, 2000b.
Hygophum proximum Becker, 1965 [Japanese name: Tsumaridongurihadaka]
Hygophum proximum: Fujii, 1988.
Hygophum reinhardtii (Lütken, 1892) [Japanese name: Dongurihadaka]
Hygophum reinhardtii: Fujii, 1988; Yoda *et al.*, 2002.
Lampadena luminosa (Garman, 1899) [Japanese name: Kagamiwashii]
Lampadena luminosa: Fujii, 1988.
Lampadena urophaos Paxton, 1963 [Japanese name: Hotarubihadaka]
Lampadena urophaos: Fujii, 1988.
Lampanyctus alatus Goode & Bean, 1896 [Japanese name: Tomihadaka]
Lampanyctus alatus: Fujii, 1988.
Lampanyctus tenuiformis Brauer, 1906 [Japanese name: Nettareijihadaka]
Lampanyctus tenuiformis: Fujii, 1988.
Lampanyctus turneri (Fowler, 1934) [Japanese name: Katahadaka]
Lampanyctus turneri: Fujii, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.
Lampanyctus niger (Günther, 1887) [Japanese name: Tongarihadaka]
Lampanyctus niger: Fujii, 1988.
Lampanyctus sp. [Japanese name: Namitogehadaka]
Lampanyctus macropterus: Okamura, 1984.
Lampanyctus sp. 2: Nakabo, 2000b.
Lampanyctus sp.: Yoda *et al.*, 2002.
Lobianchia gemellarii (Cocco, 1838) [Japanese name: Hakutouhadaka]
Lobianchia gemellarii: Fujii, 1988.
Myctophum asperum Richardson, 1845 [Japanese name: Arahadaka]
Myctophum asperum: Okamura, 1984; Fujii, 1988; Yoda *et al.*, 2002.
Myctophum obtusirostre Tåning, 1928 [Japanese name: Hisahadaka]
Myctophum obtusirostre: Yoda *et al.*, 2002.
YK02-T06-14(6K).
Myctophum orientale (Gilbert, 1913) [Japanese name: Usuhadaka]
YK03-T03-03(1N), YK03-T13-13(1N).
Myctophum selenops Tåning, 1928 [Japanese name: Hishihadaka]
Myctophum selenops: Fujii, 1988.
Notolychnus valdiviae (Brauer, 1904) [Japanese name: Urahadaka]
Notolychnus valdiviae: Fujii, 1988.
Notoscopelus resplendens (Richardson, 1845) [Japanese name: Isaribihadaka]
Notoscopelus resplendens: Fujii, 1988.
Taaningichthys minimus (Tåning, 1928) [Japanese name: Hagekurohadaka]
Taaningichthys minimus: Fujii, 1988.
Triphoturus microchir (Gilbert, 1913) [Japanese name: Tsumarihadaka]
Triphoturus microchir: Fujii, 1988.

Order Lampridiformes
Family Veliferidae

- Metavelifer multiradiatus* (Regan, 1907) [Japanese name: Himekusaaji]
Metavelifer multiradiatus: Okamura, 1985b; Aizawa, 2000; Yoda *et al.*, 2002.

Family Lamprididae

- Lampris guttatus* (Brünnich, 1788) [Japanese name: Akamanbou]
Lampris guttatus: Fujii, 1988; Yoda *et al.*, 2002.

Family Trachipteridae

- Zu cristatus* (Bonelli, 1819) [Japanese name: Yukifurisodeuo]
Zu cristatus: Yamada and Irie, 1994c; Yoda *et al.*, 2002.

Order Polymixiiformes

Family Polymixiidae

- Polymixia berndti* Gilbert, 1905 [Japanese name: Arameginme]
Polymixia berndti: Okamura, 1985b, 1988; Yoda *et al.*, 2002.
 OCA-03-31(1).
Polymixia japonica Günther, 1877 [Japanese name: Ginmedai]
Polymixia japonica: Okamura, 1985b, 1988, 1997; Yamada, 1986a; Hayashi, 2000;
 Yoda *et al.*, 2002.
 YK02-T03-07(1N), OCA-02-01(1), OCA-03-08(1), OCA-03-24(1), OCA-03-29(1).
Polymixia longispina Deng, Xiong & Zhan, 1983 [Japanese name: Kiraraginme]
Polymixia kawadae: Okamura and Ema, 1985; Okamura, 1997.
Polymixia longispina: Hayashi, 2000; Yoda *et al.*, 2002.
 YK02-T04-12(1N), YK03-T03-03(1N).

Remarks. Hayashi (2000: 1492) thought *Polymixia kawadae* Okamura & Ema, 1985 should be a junior synonym of *P. longispina*. We follow Hayashi (2000) here.

Order Ophidiiformes

Suborder Ophidioidei

Family Ophidiidae

- Abythites lepidogenys* (Smith & Radcliffe, 1913) [Japanese name: Fusaitachiuo]
 YK01-T08-08(1N).
Bassozetus zenkevitchi Rass, 1955 [Japanese name: Fukumenitachiuo]
 KT-02-3-E1(1).
Bathyonus caudalis (Garman, 1899) [Japanese name: Ozawaashiro]
Bathyonus caudalis: Endo *et al.*, 1998; Nakabo, 2000b.
Dicrolene quinquarius (Günther, 1887) [Japanese name: Monoitachiuo]
Dicrolene quinquarius: Machida, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.
Dicrolene tristis Smith & Radcliffe in Radcliffe, 1913 [Japanese name: Touyoumomo-
 itachiuo]
Dicrolene tristis: Machida, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.
 KT-02-3-E2(1).
Glyptophidium japonicum Kamohara, 1936 [Japanese name: Shirochouman]
Glyptophidium oceanicum: Machida, 1982, 1984.
Glyptophidium japonicum: Nakabo, 2000b; Yoda *et al.*, 2002.
Hoplobrotula armata (Temminck & Schlegel, 1946) [Japanese name: Yoroiitachiuo]
Hoplobrotula armata: Machida, 1984, 1988, 1997; Yamada, 1986a; Nakabo, 2000b;

Yoda *et al.*, 2002.

Luciobrotula bartschi Smith & Radcliffe in Radcliffe, 1913 [Japanese name: Kuro-umidojou]

Luciobrotula bartschi: Machida, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Monomitopus kumae Jordan & Hubbs, 1925 [Japanese name: Kumaitachiuo]

Monomitopus kumae: Machida, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Monomitopus pallidus Smith & Radcliffe in Radcliffe, 1913 [Japanese name: Yaebakumaitachiuo]

Monomitopus pallidus: Machida, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Neobythites sivicolus (Jordan & Snyder, 1901) [Japanese name: Shioitachiuo]

Neobythites sivicola: Machida, 1984; Yamada, 1986a.

Neobythites sivicolus: Machida, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK01-T03-04(2N), YK01-T02-05(2N), YK01-C30-10(3K), YK01-C28-17(4K), YK04-C02-13(2N), YK04-C02-13(2K).

Neobythites stigmosus Machida in Okamura & Kitajima, 1984 [Japanese name: Shimaitachiuo]

Neobythites stigmosus: Machida, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T02-09(1N), YK03-T15-15(1N).

Ophidion asiro Jordan & Fowler, 1902 [Japanese name: Ashiro]

Ophidion asiro: Machida, 1997; Yoda *et al.*, 2002.

Porogadus guentheri Jordan & Fowler, 1902 [Japanese name: Taraitachiuo]

Porogadus guentheri: Machida, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002. KT-02-3-C3(1), KT-02-3-E1(2).

Porogadus miles Goode & Bean, 1885 [Japanese name: Kowatogeitachiuo]

Porogadus miles: Machida and Amaoka, 1990; Yoda *et al.*, 2002.

Pycnocraspedum fulvum Machida, 1984 [Japanese name: Oohimeitachiuo]

Pycnocraspedum fulvum: Machida, 1984, 1988; Yoda *et al.*, 2002.

Sirembo imberbis (Temminck & Schlegel, 1846) [Japanese name: Unidojou]

Sirembo imberbis: Machida, 1997; Yoda *et al.*, 2002.

Xyelacyba myersi Cohen, 1961 [Japanese name: Haridashiashiro]

KT-02-3-D2(1: BSKU 57867).

Remarks. Machida (1989) thought that *Xyelacyba myersi* occurred on continental slopes at depths of around 1000–2000 m, reporting two specimens taken off Shikoku Island. This record is falls within previous depth records.

Suborder Bythitoidei

Family Bythitidae

Cataetyx platyrhynchus Machida, 1984 [Japanese name: Oosokoitachiuo]

Cataetyx platyrhynchus: Machida, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

Oligopus robustus (Smith & Radcliffe in Radcliffe, 1913) [Japanese name: Semushi-itachiuo]

Oligopus robustus: Yamada, 1986a; Nakabo, 2000b; Yoda *et al.*, 2002.

Family Aphyonidae

Barathronus maculatus Shcherbachev, 1976 [Japanese name: Misujiokumeuo]

Barathronus sp.: Machida, 1984.

Barathronus maculatus: Nielsen and Machida, 1985; Machida, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Order Gadiformes

Family Moridae

Gadella jordani (Böhlke & Mead, 1951) [Japanese name: Nagachigodara]

Physiculus inbarbatus: Okamura, 1984, 1988.

Gadella jordani: Endo, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-02-09(1N), YK02-T01-06(1K), YK02-T02-09(1K), YK03-T09-09(2N).

Remarks. We follow Paulin (1987) for the synonym and Nakabo (2000b) for Japanese name.

Laemonema nana Taki, 1953 [Japanese name: Himedara]

Laemonema nana: Yoda *et al.*, 2002.

YK01-T09-09(1N), YK01-C10-13(1K), YK01-C32-12(2K).

Lepidion inosimae (Günther, 1887) [Japanese name: Kurosokodara]

Lepidion inosimae: Yamada and Horikawa, 1998b; Yoda *et al.*, 2002.

Physiculus japonicus Hilgendorf, 1879 [Japanese name: Chigodara]

Physiculus japonicus: Okamura, 1984, 1988; Endo, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Physiculus yoshidae Okamura in Okamura, Amaoka & Mitani, 1982 [Japanese name: Osharechigodara]

Physiculus yoshidae: Yoda *et al.*, 2002.

Family Bregmacerotidae

Bregmaceros japonicus Tanaka, 1908 [Japanese name: Saiuo]

Bregmaceros japonicus: Okamura, 1984; Yoda *et al.*, 2002.

KT-02-3-C1(1), KT-02-3-C2(2).

Bregmaceros maccllellandii Thompson, 1840 [Japanese name: Minamisaiuo]

Bregmaceros maccllellandii: Okamura, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

Bregmaceros nectabanus Whitley, 1941 [Japanese name: Toyamasaiuo]

Bregmaceros nectabanus: Yoda *et al.*, 2002.

YK01-C30-10(3K), YK01-C32-12(1K).

Family Melanonidae

Melanonus sp.

Melanonus sp.: Okamura, 1984.

Remarks. Although a detailed examination of Okamura's (1984) specimen is needed, it is most likely *Melanonus zugmeyer* Norman, 1930 (H. Endo, personal communication).

Family Macrouridae

- Abyssicola macrochir*** (Günther, 1877) [Japanese name: Tenagadara]
Abyssicola macrochir: Okamura, 1970, 1984, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.
- Bathygadus antrodes*** (Jordan & Gilbert, 1904) [Japanese name: Anadara]
Bathygadus antrodes: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Bathygadus garretti*** Gilbert & Hubbs, 1916 [Japanese name: Higeanadara]
Bathygadus garretti: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus anatirostris*** Jordan & Gilbert in Jordan & Starks, 1904 [Japanese name: Nezumihige]
Coelorinchus anatirostris: Yatou, 1984; Okamura, 1997.
Caelorinchus anatirostris: Nakabo, 2000b; Yoda *et al.*, 2002.
 YK02-T06-14(3N), YK02-T01-06(3N), YK02-T06-14(5K).
- Caelorinchus asteroides*** Okamura, 1963 [Japanese name: Hoshihige]
Coelorinchus asteroides: Yatou, 1984; Okamura, 1997.
Caelorinchus asteroides: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus brevirostris*** Okamura, 1984 [Japanese name: Tsumarihige]
Coelorinchus brevirostris: Okamura, 1984, 1997.
Caelorinchus brevirostris: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus cingulatus*** Okamura, 1984 [Japanese name: Kurakakesokodara]
Coelorinchus cingulatus: Okamura, 1984.
Caelorinchus cingulatus: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus divergens*** Okamura & Yatou, 1984 [Japanese name: Hanarehige]
Coelorinchus divergens: Okamura and Yatou, 1984.
Caelorinchus divergens: Yoda *et al.*, 2002.
- Caelorinchus formosanus*** Okamura, 1963 [Japanese name: Taiwansokodara]
Coelorhynchus formosanus: Okamura, 1970
Coelorinchus formosanus: Okamura, 1988.
Caelorinchus formosanus: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus gilberti*** Jordan & Hubbs, 1925 [Japanese name: Onihige]
 YK03-T03-03(2N), YK03-T09-09(1N).
- Caelorinchus hubbsi*** Matsubara, 1936 [Japanese name: Moyouhige]
Caelorinchus hubbsi: Yoda *et al.*, 2002.
- Caelorinchus japonicus*** (Temminck & Schlegel, 1846) [Japanese name: Toujin]
Coelorinchus japonicus: Yatou, 1984; Okamura, 1997.
Caelorinchus japonicus: Yoda *et al.*, 2002.
 YK02-T01-06(2N), YK02-T01-06(6K).
- Caelorinchus jordani*** Smith & Pope, 1906 [Japanese name: Kyuushuhige]
Coelorhynchus jordani: Okamura, 1970.
Coelorinchus jordani: Okamura, 1984, 1988, 1997; Yamada, 1986a.
Caelorinchus jordani: Yoda *et al.*, 2002.
- Caelorinchus kamoharai*** Matsubara, 1943 [Japanese name: Ichimonjihige]
Coelorinchus kamoharai: Yatou, 1984; Okamura, 1997.
Caelorinchus kamoharai: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus longissimus*** Matsubara, 1943 [Japanese name: Tongarihige]
Coelorinchus longissimus: Yatou, 1984; Okamura, 1988, 1997.
Caelorinchus longissimus: Nakabo, 2000b; Yoda *et al.*, 2002.

- Caelorinchus multispinulosus*** Katayama, 1942 [Japanese name: Yarihige]
Coelorhynchus multispinulosus: Okamura, 1970.
Caelorinchus multispinulosus: Yatou, 1984; Kishida, 1986; Okamura, 1997.
Caelorinchus multispinulosus: Nakabo, 2000b; Yoda *et al.*, 2002.
 YK01-T06-03(1N), YK01-C10-13(2K), YK01-C30-10(10K), YK01-C25-20(5K),
 YK01-C32-12(5K), YK01-C26-19(3K), YK02-04-12(1N), YK02-05-13(2N), YK02-T06-
 14(2K), YK03-T03-03(1N), YK04-C02-03(3N), YK04-C02-03(2K), YK04-C17-09(3N),
 YK04-C17-09(2K).
- Caelorinchus parallelus*** (Günther, 1877) [Japanese name: Soroihige]
Coelorhynchus parallelus: Okamura, 1970.
Caelorinchus parallelus: Yatou, 1984; Okamura, 1988, 1997.
Caelorinchus parallelus: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus productus*** Gilbert & Hubbs, 1916 [Japanese name: Tenguhige]
Coelorinchus productus: Yatou, 1984; Okamura, 1997.
Caelorinchus productus: Nakabo, 2000b; Yoda *et al.*, 2002.
 YK02-T01-06(4K), YK02-T02-09(8K).
- Caelorinchus smithi*** Gilbert & Hubbs, 1920 [Japanese name: Kishuuhige]
Coelorinchus smithi: Yatou, 1984; Okamura, 1997.
Caelorinchus smithi: Yoda *et al.*, 2002.
- Caelorinchus sparsilepis*** Okamura & Yatou, 1984 [Japanese name: Mabarahige]
Coelorinchus sparsilepis: Okamura and Yatou, 1984.
Caelorinchus sparsilepis: Nakabo, 2000b; Yoda *et al.*, 2002.
- Caelorinchus tokiensis*** (Steindachner & Döderlein, 1887) [Japanese name: Miyakohige]
Coelorhynchus tokiensis: Okamura, 1870.
Coelorinchus tokiensis: Yatou, 1984; Okamura, 1997.
Caelorinchus tokiensis: Nakabo, 2000b; Yoda *et al.*, 2002.
- Coryphaenoides marginatus*** Steindachner & Döderlein, 1887 [Japanese name: Heridara]
Coryphaenoides marginatus: Okamura, 1970, 1988, 1997; Yatou, 1984; Nakabo,
 2000b; Yoda *et al.*, 2002.
 YK02-T01-06(2K).
- Coryphaenoides nasutus*** Günther, 1877 [Japanese name: Hanasokodara]
Coryphaenoides nasutus: Okamura, 1970, 1988, 1997; Yatou, 1984; Nakabo, 2000b;
 Yoda *et al.*, 2002.
- Gadomus colletti*** Jordan & Gilbert in Jordan & Starks, 1904 [Japanese name: Katadara]
Gadomus colletti: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Hymenocephalus longiceps*** Smith & Radcliffe in Radcliffe, 1912 [Japanese name:
 Wanidara]
Hymenocephalus longiceps: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*,
 2002.
- Hymenocephalus lethonemus*** Jordan & Gilbert in Jordan & Starks, 1904 [Japanese name:
 Itodara]
Hymenocephalus lethonemus: Okamura, 1970, 1984, 1988, 1997; Nakabo, 2000b;
 Yoda *et al.*, 2002.
 YK02-03-07(1N).
- Hymenocephalus striatissimus*** Jordan & Gilbert in Jordan & Starks, 1904 [Japanese
 name: Sujidara]
Hymenocephalus striatissimus striatissimus: Okamura, 1970.
Hymenocephalus striatissimus: Okamura, 1988, 1997; Nakabo, 2000b; Yoda *et al.*,

2002.

Hymenogadus gracilis (Gilebert & Hubbs, 1920) [Japanese name: Onisujidara]*Hymenogadus gracilis*: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.*Hymenogadus kuronumai* Kamohara, 1938 [Japanese name: Yaridara]*Hymenogadus kuronumai*: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T01-06(2N), YK03-T03-03(1N).

Hymenocephalus striatissimus Jordan & Gilbert, 1904 [Japanese name: Sujidara]*Hymenocephalus striatissimus*: Okamura, 1984.

YK02-T02-09(4K), YK03-T15-15(2N).

Malacocephalus nipponensis Gilbert & Hubbs, 1916 [Japanese name: Nihonmanjuudara]*Malacocephalus nipponensis*: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.*Nezumia condylura* Jordan & Gilbert in Jordan & Starks, 1904 [Japanese name: Nezumidara]*Nezumia condylura*: Okamura, 1984, 1997; Yoda *et al.*, 2002.*Nezumia darus* (Gilbert & Hubbs, 1916) [Japanese name: Suruganezumidara]*Nezumia darus*: Okamura, 1984, 1997; Yoda *et al.*, 2002.*Nezumia proxima* (Smith & Radcliffe in Radcliffe, 1912) [Japanese name: Higosokodara]*Nezumia proxima*: Okamura, 1970, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.*Trachonurus villosus* (Günther, 1877) [Japanese name: Watahige]*Trachonurus villosus*: Okamura, 1970, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.*Ventrifossa garmani* (Jordan & Gilbert, 1904) [Japanese name: Sagamisokodara]*Ventrifossa garmani*: Okamura, 1970, 1984, 1988, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T02-09(2N), YK02-T01-06(3K), YK02-T06-14(2K), YK02-T02-09(3K), YK03-T15-15(2N).

Ventrifossa longibarbata Okamura in Okamura, Amaoka & Mitani, 1982 [Japanese name: Okinahige]*Ventrifossa longibarbata*: Okamura, 1984, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.*Ventrifossa misakia* (Jordan & Gilbert in Jordan & Starks, 1904) [Japanese name: Miaskisokodara]*Ventrifossa misakia*: Okamura, 1984; Nakabo, 2000b; Yoda *et al.*, 2002.*Ventrifossa rhipidodorsalis* Okamura, 1984 [Japanese name: Homaehige]*Ventrifossa rhipidodorsalis*: Okamura, 1984, 1997; Yoda *et al.*, 2002.*Ventrifossa saikaiensis* Okamura, 1984 [Japanese name: Saikaihige]*Ventrifossa saikaiensis*: Okamura, 1984; Nakabo, 2000b; Yoda *et al.*, 2002.

Order Lophiiformes

Suborder Lophioidei

Family Lophiidae

Lophiodes fimbriatus Saruwatari & Mochizuki, 1985 [Japanese name: Minoankou]*Lophiodes fimbriatus*: Yamada, 1986a, 2000; Mochizuki, 1997; Yoda *et al.*, 2002.

- Lophiodes insidiator* (Regan, 1921) [Japanese name: Nodogurohimeankou]
Lophiodes insidiator: Okamura, 1984; Yamada, 2000; Yoda *et al.*, 2002.
- Lophiodes mutilus* (Alcock, 1894) [Japanese name: Medamaankou]
Lophiodes mutilus: Okamura, 1984; Mochizuki, 1997; Yamada, 2000; Yoda *et al.*, 2002.
- Lophiodes naresi* (Günther, 1880) [Japanese name: Himeankou]
Lophiodes naresi: Yamada, 2000; Yoda *et al.*, 2002.
- Lophiomus setigerus* (Vahl, 1797) [Japanese name: Ankou]
Lophiomus setigerus: Okamura, 1984; Yamada, 1986a, 2000; Mochizuki, 1997; Yoda *et al.*, 2002.
 YK01-T08-08(1N), YK01-T18-21(1N), YK01-C10-13(1K), YK01-C13-22(1N),
 YK04-C16-20(2N), YK04-C16-20(2K).
- Lophius litulon* (Jordan, 1902) [Japanese name: Kiankou]
Lophius litulon: Okamura, 1984; Nakabo, 1988; Yamada, 1986a, 2000; Mochizuki, 1997; Yoda *et al.*, 2002.

Suborder Ogcocephaloidei

Family Chaunacidae

- Chaunax abei* Le Danois, 1978 [Japanese name: Midorifusaankou]
Chaunax abei: Okamura, 1984, 1988, 1997; Yamada, 1986a, 2000; Yoda *et al.*, 2002.
 YK01-T02-05(1N), YK02-T04-12(2N), YK02-T04-12(2K).
- Chaunax fimbriatus* Hilgendorf, 1879 [Japanese name: Honfusaankou]
Chaunax fimbriatus: Okamura, 1985b, 1988, 1997; Yamada, 2000; Yoda *et al.*, 2002.
- Chaunax tosaensis* Okamura & Oryuu, 1984 [Japanese name: Hanagurofusankou]
Chaunax tosaensis: Okamura and Oryuu, 1984; Okamura, 1988, 1997; Yamada, 2000; Yoda *et al.*, 2002.

Family Ogcocephalidae

- Coelophrys brevicaudata* Brauer, 1902 [Japanese name: Yumesokogutsu]
Coelophrys brevicaudata: Yamakawa, 1984; Yamada, 2000; Yoda *et al.*, 2002.
- Dibranchus japonicus* Amaoka & Toyoshima, 1981 [Japanese name: Sokogutsu]
Dibranchus japonicus: Yamakawa, 1984; Yoda *et al.*, 2002.
 KT-02-3-E1(1).
- Halicmetus reticulatus* Smith & Radcliffe in Radcliffe, 1912 [Japanese name: Amimefuuryuuuo]
Halicmetus reticulatus: Yamakawa, 1984; Yamada, 1997, 2000; Yoda *et al.*, 2002.
- Halicmetus ruber* Alcock, 1891 [Japanese name: Akafuuryuuuo]
Halicmetus ruber: Yamakawa, 1984; Yamada, 2000; Yoda *et al.*, 2002.
- Halieutaea fumosa* Alcock, 1894 [Japanese name: Himeakagutsu]
Halieutaea fumosa: Yamada, 1997, 2000; Yoda *et al.*, 2002.
- Halieutaea stellata* (Vahl, 1797) [Japanese name: Akagutsu]
Halieutaea stellata: Yamakawa, 1984; Yamada, 1986a, 1997; Mochizuki, 1988; Yamada, 2000; Yoda *et al.*, 2002.
 YK01-T06-03(1N), YK01-T18-21(1N).

Halieutaea sp. [Japanese name: Heriguroakagutsu]

Halieutaea sp.: Anonymous, 1996a; Yoda *et al.*, 2002.
YK01-T08-08(1N).

Remarks. Identification follows Yamada (2000).

Halieutopsis micropa (Alcock, 1891) [Japanese name: Togeyumesokogutsu]

Coelophrys micropus: Yamakawa, 1984.

Halieutopsis micropa: Yamada, 2000.

Halieutopsis micropus: Yoda *et al.*, 2002.

Halieutopsis stellifera (Smith & Radcliffe in Radcliffe, 1912) [Japanese name: Ibaramushifuuryuuuo]

Halieutaea sp.: Yamakawa, 1984.

Halieutopsis stellifera: Mochizuki, 1988; Yamada, 1997, 2000; Yoda *et al.*, 2002.

Malthopsis annulifera Tanaka, 1908 [Japanese name: Wanukefuuryuuuo]

Malthopsis annulifera: Yamakawa, 1984; Yamada, 1986a, 1997, 2000; Okamura, 1988; Yoda *et al.*, 2002.

YK01-T13-13(6N), YK01-C11-24(1K), YK02-T03-07(1N), YK02-T03-07(2K).

Malthopsis jordani Gilbert, 1905 [Japanese name: Kowanukefuuryuuuo]

Malthopsis jordani: Yamakawa, 1984; Yamada, 1997, 2000; Yoda *et al.*, 2002.

Malthopsis lutea Alcock, 1891 [Japanese name: Fuuryuuuo]

Malthopsis lutea: Yamakawa, 1984; Yamada, 2000; Yoda *et al.*, 2002.

KT-02-3-C2(1).

Malthopsis mitrigeria Gilbert & Cramer, 1897 [Japanese name: Kagifuuryuuuo]

Malthopsis mitrigeria: Yamada, 1997, 2000; Yoda *et al.*, 2002.

Malthopsis tiarella Jordan, 1902 [Japanese name: Gomafuuryuuuo]

Malthopsis tiarella: Yamada, 1997, 2000; Yoda *et al.*, 2002.

Solocisquama stellulata (Gilbert, 1905) [Japanese name: Igafuuryuuuo]

Solocisquama stellulata: Yoda *et al.*, 2002.

Family Melanocetidae

Melanocetus murrayi Günther, 1887 [Japanese name: Semushikuroankou]

Melanocetus murrayi: Yamakawa, 1984; Nakabo, 2000b; Yoda *et al.*, 2002.

Family Diceratiidae

Phrynichthys wedli Pietschmann, 1926 [Japanese name: Kurotsunoankou]

Phrynichthys sp.: Yamakawa, 1984.

Phrynichthys wedli: Machida and Yamakawa, 1990; Nakabo, 2000b; Yoda *et al.*, 2002.

Family Oneirodidae

Oneirodes thompsoni (Schultz, 1934) [Japanese name: Togerakudaankou]

Oneiroides thompsoni: Amaoka, 1997.

Oneirodes sp.: Yamakawa, 1984.

Oneirodes sp. [Japanese name: Chonmagerakudaankou]

Oneirodes sp.: Yoda *et al.*, 2002.

Family Ceratiidae

Cryptopsaras couesii Gill, 1883 [Japanese name: Mitsukurienagachouchin-ankou]

Cryptopsaras couesii: Yoda *et al.*, 2002

Cryptopsara couesii[sic]: Kuramochi *et al.*, 2003.

Order Stephanoberyciformes

Family Melamphaidae

Scopeloberyx robustus (Günther, 1887) [Japanese name: Tatekabutou]

KT-02-3-D1(1)(2).

Family Rondeletiidae

Rondeletia loricata Abe & Hotta, 1963 [Japanese name: Akachokkikujirauo]

Rondeletia loricata: Okamura, 1985b; Aizawa, 2000; Yoda *et al.*, 2002.

Family Barbourisiidae

Barbourisia rufa Parr, 1945 [Japanese name: Akakujirauodamashi]

Barbourisia rufa: Okamura, 1985b; Aizawa, 2000; Yoda *et al.*, 2002.

Family Megalomycetidae

Vitiazella cubiceps Rass, 1955 [Japanese name: Sokokujirauo]

Vitiazella cubiceps: Aizawa, 2000.

Order Beryciformes

Suborder Trachichthyoidei

Family Diretmidae

Diretmoides parini Post & Quero, 1981 [Japanese name: Nakamuragimme]

Diretmichthys parini: Yoda *et al.*, 2002.

Diretmoides pauciradiatus (Woods in Woods & Sonoda, 1973) [Japanese name: Chigonakamuragimme]

Diretmoides pauciradiatus: Yoda *et al.*, 2002.

Family Anomalopidae

Anomalops katoptron (Bleeker, 1856) [Japanese name: Hikarikummedai]

Anomalops katoptron: Hayashi, 2000.

Family Monocentridae

Monocentris japonica (Houttuyn, 1782) [Japanese name: Matsukasauo]

Monocentris japonica: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T01-06(3N), YK01-T06-03(1N), YK01-C10-13(3N).

Family Trachichthyidae

Hoplostethus crassispinus Kotlyar, 1980 [Japanese name: Maruhiuchidai]

Hoplostethus crassispinus: Yamakawa, 1985; Yoda *et al.*, 2002.

Hoplostethus japonicus Hilgendorf, 1879 [Japanese name: Hiuchidai]

Hoplostethus japonicus: Yamakawa, 1985; Yoda *et al.*, 2002.

OCA-03-02(6), OCA-03-09(1).

Hoplostethus melanopus (Weber, 1913) [Japanese name: Kurohiuchi]

Hoplostethus melanopus: Yamada and Irie, 1994a; Hayashi, 2000; Yoda *et al.*, 2002.

YK03-T15-15(1N).

Gephyroberyx japonicus (Döderlein in Steindachner & Döderlein, 1883) [Japanese name: Hashikimme]

Gephyroberyx japonicus: Yoda *et al.*, 2002.

Suborder Berycoidei

Family Berycidae

Beryx decadactylus Cuvier in Cuvier & Valenciennes, 1829 [Japanese name: Nanyoukimme]

Beryx decadactylus: Yamada, 1986a; Yoda *et al.*, 2002.

Beryx mollis Abe, 1959 [Japanese name: Fuusenkimme]

Beryx mollis: Hayashi, 2000; Yoda *et al.*, 2002.

Beryx splendens Lowe, 1834 [Japanese name: Kinmedai]

Beryx splendens: Yamakawa, 1985; Yoda *et al.*, 2002.

Centroberyx druzhinini (Basakhin, 1981) [Japanese name: Kimmedamashi]

Centroberyx druzhinini: Yoda *et al.*, 2002.

OCA-03-09(1).

Suborder Holocentroidei

Family Holocentridae

Ostichthys japonicus (Cuvier in Cuvier & Valenciennes, 1829) [Japanese name: Ebisudai]

Ostichthys japonicus: Yamada, 1986; Yoda *et al.*, 2002.

OCA-01-06(1).

Ostichthys kaianus (Günther, 1880) [Japanese name: Kaiebisu]

Ostichthys kaianus: Yamakawa, 1985; Shimizu, 1988; Hayashi, 2000; Yoda *et al.*, 2002.

OCA-01-13(1).

Order Zeiformes

Family Parazenidae

Parazen pacificus Kamohara, 1935 [Japanese name: Benimatoudai]

Parazen pacificus: Machida, 1985; Nakabo, 2000b; Yoda *et al.*, 2002.

YK02-T03-07(1N), YK02-T03-07(2K).

Family Macrurocyttidae

- Zenion japonicum* Kamohara, 1934 [Japanese name: Sokomatoudai]
Zenion japonicum: Machida, 1985; Nakabo, 2000b; Yoda *et al.*, 2002.
 YK02-T02-09(1N), YK02-T04-12(2K).

Family Zeidae

- Cyttopsis rosea* (Lowe, 1843) [Japanese name: Kagomatoudai]
Cyttopsis rosea: Yoda *et al.*, 2002.
 YK03-T03-03(1N).
- Zenopsis nebulosa* (Temminck & Schlegel, 1845) [Japanese name: Kagamidai]
Zenopsis nebulosa: Machida, 1985; Yamada, 1986a; Inada, 1997; Yoda *et al.*, 2002.
 YK01-T04-01(1N).
- Zeus faber* Linnaeus, 1758 [Japanese name: Matoudai]
Zeus faber: Machida, 1985; Yamada, 1986a; Inada, 1997; Yoda *et al.*, 2002.
 YK01-T04-01(1N), YK01-C22-29(1K), OCA-04-11(1).

Family Grammicolepididae

- Grammicolepis brachiusculus* Poey, 1873 [Japanese name: Oohishimatoudai]
Grammicolepis brachiusculus: Yamada and Irie, 1990b.
- Xenolepidichthys dalgleishi* Gilchrist, 1922 [Japanese name: Hishimatoudai]
Xenolepidichthys dalgleishi: Yoda *et al.*, 2002.

Family Caproidae

- Antigonia capros* Lowe, 1843 [Japanese name: Hishidai]
Antigonia capros: Machida, 1985; Inada, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
 YK01-T13-13(3N).
- Antigonia rubescens* (Günther, 1860) [Japanese name: Benihishidai]
Antigonia rubescens: Machida, 1985; Inada, 1997; Nakabo, 2000b; Yoda *et al.*,
 2002.
 YK01-T13-13(3N).
- Antigonia rubicunda* Ogilby, 1910 [Japanese name: Minamihishidai]
Antigonia rubicunda: Machida, 1985; Inada, 1997; Nakabo, 2000b; Yoda *et al.*,
 2002.

Order Gasterosteiformes

Family Syngnathidae

- Halicampus punctatus* (Kamohara, 1952) [Japanese name: Hoshiyouji]
 YK01-C19-32(1N).

Family Fistulariidae

- Fistularia petimba* Lacepède, 1803 [Japanese name: Akayagara]
Fistularia commersonii: Yamada, 1986a.

Fistularia petimba: Yoda *et al.*, 2002.
YK01-T08-08(1N).

Family Macroramphosidae

Macroramphosus scolopax (Linnaeus, 1758) [Japanese name: Sagifue]
Macroramphosus scolopax: Okamura, 1985b; Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T02-05(1N), YK01-C11-24(1K), YK01-C30-10(1K), YK01-C07-16(1K),
YK03-T01-01(2N).

Order Scorpaeniformes
Suborder Dactylopteroidei
Family Dactylopteridae

Daicocus peterseni (Nyström, 1887) [Japanese name: Hoshisemihoubou]
Daicocus peterseni: Yatou, 1985, 1997; Yamada, 1986a; Yoda *et al.*, 2002.

Suborder Scorpaenoidei
Family Scorpaenidae

Ectreposebastes imus Garman, 1899 [Japanese name: Kurokasago]
Ectreposebastes imus: Yatou, 1985; Yoda *et al.*, 2002.
Helicolenus avius Abe & Eschmeyer, 1972 [Japanese name: Okikasago]
Helicolenus avius: Ishida, 1997.
Helicolenus fedorovi Barsukov, 1973 [Japanese name: Niseokikasago]
Helicolenus fedorovi: Yatou, 1985; Yoda *et al.*, 2002.

Remarks. Nakabo (2000b) noted that Yatou's (1985) specimens (from Okinawa Trough at 350-650 m depths) differ in coloration around the lateral line from those of the Emperor Sea Mounts (type locality), stating that further work on the taxonomy of the Okinawan specimens is much needed.

Helicolenus hilgendorfi Döderlein in Steindachner & Döderlein, 1884 [Japanese name: Yumekasago]

Helicolenus hilgendorfi: Yatou, 1985; Yamada, 1986a; Ishida, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK01-T06-03(1N), YK02-T03-07(2N), YK02-T05-13(5K), YK02-T04-12(3K),
YK02-T06-14(2K), YK02-T01-06(6K), YK02-T03-07(5K), YK02-T02-09(1K), OCA-01-06(2),
OCA-01-07(1), OCA-02-05(1), OCA-03-02(1).

Hoplosebastes armatus Schmidt, 1929 [Japanese name: Hanakasago]
Hoplosebastes armatus: Amaoka, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

Minous quincarinatus (Fowler, 1943) [Japanese name: Itookoze]
Minous quincarinatus: Yamada, 1986a; Yoda *et al.*, 2002.
YK01-C30-10(1K).

Neosebastes entaxis Jordan & Starks, 1904 [Japanese name: Hiremagakasago]
Neosebastes entaxis: Yatou, 1985; Yoda *et al.*, 2002.

Ocosia fasciata Matsubara, 1943 [Japanese name: Shimahachiokoze]
Ocosia fasciata: Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T03-04(2N).

Parapterois heterura (Bleeker, 1856) [Japanese name: Setominokasago]

- Parapterois heterurus*: Yamada, 1986a.
Parapterois heterura: Yoda *et al.*, 2002.
 YK01-C16-34(1N).
- Plectrogenium nanum* Gilbert, 1905 [Japanese name: Himekichiji]
Plectrogenium nanum: Yoda *et al.*, 2002.
- Pontinus macrocephalus* (Sauvage, 1882) [Japanese name: Hiodoshi]
Pontinus tentacularis: Yatou, 1985.
Pontinus macrocephalus: Yoda *et al.*, 2002.
- Scorpaena neglecta* Temminck & Schlegel, 1843 [Japanese name: Izukasago]
Scorpaena izensis: Yatou, 1985; Ishida, 1997.
Scorpaena neglecta: Yamada, 1986a; Yoda *et al.*, 2002.
 YK01-T02-05(1N), YK01-T04-01(1N), YK01-C05-07(1K).
- Scorpaena onaria* Jordan & Snyder, 1900 [Japanese name: Fusakasago]
Scorpaena neglecta neglecta: Yatou, 1985.
Scorpaena onaria: Ishida, 1997.
- Sebastiscus albofasciatus* (Lacepède, 1802) [Japanese name: Ayamekasago]
Sebastiscus albofasciatus: Yamada, 1986a; Yoda, 1986; Ishida, 1997; Yoda *et al.*, 2002.
- Sebastiscus marmoratus* (Cuvier in Cuvier & Valenciennes, 1829) [Japanese name: Kasago]
Sebastiscus marmoratus: Yatou, 1985; Yamada, 1986a; Ishida, 1997; Yoda *et al.*, 2002.
 YK01-T13-13(1N).
- Remarks.** Yatou (1985) reported specimens of *Sebastiscus marmoratus* from 140–300 m in the East China Sea at depths, noting the difficulty of separating *S. tertius* and *S. marmorata*.
- Sebastiscus tertius* Barsukov & Chen, 1978 [Japanese name: Ukkarikasago]
Sebastiscus tertius: Amaoka, 1988; Ishida, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.
- Setarches guentheri* Johnson, 1862 [Japanese name: Shirokasago]
Setarches guentheri: Yatou, 1985; Yoda *et al.*, 2002.
 YK02-T02-09(1N), YK02-T02-09(1K).
- Setarches longimanus* (Alcock, 1894) [Japanese name: Akakasago]
Setarches longimanus: Yatou, 1985; Yoda *et al.*, 2002.
 YK02-T06-14(1N), YK02-T05-13(1K), YK02-T01-06(1K), KT-02-3-E3(1), YK03-T03-03(1N).
- Thysanichthys crossotus* Jordan & Starks, 1904 [Japanese name: Fundoukasago]
Thysanichthys crossotus: Yamada and Horikawa, 1997; Yoda *et al.*, 2002.

Family Aploactinidae

- Erisphex pottii* (Steindachner, 1896) [Japanese name: Abuokoze]
Erisphex potti: Yamada, 1986a; Ishida, 1997.
Erisphex pottii: Yoda *et al.*, 2002.
 YK01-T09-09(1N), YK01-C10-13(1N), YK01-C23-25(1K), YK01-C30-10(2K),
 YK01-C21-30(2K), YK01-C25-20(2K), YK01-C22-29(3K).

Family Triglidae
Subfamily Triglinae

Chelidonichthys spinosus (McClelland, 1844) [Japanese name: Houbou]

Chelidonichthys spinosus: Yatou, 1985, 1997; Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T08-08(1N).

Lepidotrigla abyssalis Jordan & Starks, 1904 [Japanese name: Sokokanagashira]

Lepidotrigla abyssalis: Yatou, 1985, 1997; Yamada, 1986a; Ochiai and Yatou, 1988; Yamada, 2000; Yoda *et al.*, 2002.

YK01-T05-02(5N), YK01-C11-24(1K), YK01-C17-35(1K), YK01-C18-36(1K),
YK01-C19-37(1K), YK01-C20-38(1K), YK01-C21-39(1K), YK01-C24-26(5K), YK01-
C21-30(6K), YK01-C16-34(2K), YK01-C20-31(2K), YK01-C22-29(3K), YK01-C29-
09(3K), YK01-C07-16(1K), YK01-C15-33(2K), YK03-T01-01(1N).

Lepidotrigla guentheri Hilgendorf, 1879 [Japanese name: Kanado]

Lepidotrigla guentheri: Yatou, 1985, 1997; Yamada, 1986a; Ochiai and Yatou, 1988; Yoda *et al.*, 2002.

YK01-T04-01(3N), YK01-C17-35(2N), YK02-T03-07(2N), YK03-T01-01(1N).

Lepidotrigla hime Matsubara & Hiyama, 1932 [Japanese name: Himesokokanagashira]

Lepidotrigla hime: Yatou, 1985, 1997; Ochiai and Yatou, 1988; Yamada, 2000; Yoda *et al.*, 2002.

YK01-C13-22(1N), YK01-C14-21(1N), YK03-T01-01(1N).

Lepidotrigla japonica (Bleeker, 1854) [Japanese name: Togekanagashira]

Lepidotrigla japonica: Yamada, 1986a; Ochiai and Yatou, 1988; Yoda *et al.*, 2002.

Lepidotrigla japonica[sic]: Yatou, 1997.

YK01-T15-15(1N).

Lepidotrigla kanagashira Kamohara, 1936 [Japanese name: Hirenagakanagashira]

Lepidotrigla kanagashira: Yatou, 1997.

YK01-T16-19(1N).

Lepidotrigla kishinouyei Snyder, 1911 [Japanese name: Onikanagashira]

Lepidotrigla kishinouyei: Yamada, 1986a; Ochiai and Yatou, 1988; Yatou, 1997; Yoda *et al.*, 2002.

YK01-C14-21(1N), YK01-C22-40(1K), YK01-C24-26(2K), YK01-C29-09(2K),
YK01-C07-16(1K), YK01-C15-33(2K), YK03-T01-01(1N).

Lepidotrigla longifaciata Yatou, 1981 [Japanese name: Tsuranagakanagashira]

Lepidotrigla longifaciata: Yatou, 1985, 1997; Ochiai and Yatou, 1988; Yoda *et al.*, 2002.

YK02-T03-07(9K).

Lepidotrigla microptera Günther, 1873 [Japanese name: Kanagashira]

Lepidotrigla microptera: Yatou, 1997; Yamada, 2000; Yoda *et al.*, 2002.

Pterygotrigla hemisticta (Temminck & Schlegel, 1843) [Japanese name: Sokohoubou]

Pterygotrigla hemisticta: Yatou, 1985, 1997; Yamada, 2000; Yoda *et al.*, 2002.

YK01-T13-13(3N), YK02-T03-07(1N), YK02-T05-13(5K).

Pterygotrigla macrolepidota (Kamohara, 1938) [Japanese name: Urokosokohoubou]

Pterygotrigla macrolepidota: Anonymous, 1996b; Yatou, 1997; Yamada, 2000; Yoda *et al.*, 2002.

Pterygotrigla macrorhynchus Kamohara, 1936 [Japanese name: Hananagasokohoubou]

Pterygotrigla macrorhynchus: Yamada, 2000; Yoda *et al.*, 2002.

Pterygotrigla multiocellata (Matsubara, 1937) [Japanese name: Onisokohoubou]

Parapterygotrigla multiocellata: Yatou, 1985, 1997; Yoda *et al.*, 2002.

Pterygotrigla multiocellata: Ochiai and Yatou, 1988; Yamada, 2000.

Pterygotrigla ryukyuensis Matsubara & Hiyama, 1932 [Japanese name: Ryuukyusokohoubou]

Pterygotrigla ryūkyūensis: Okada and Matsubara, 1938; Matsubara, 1955.

Pterygotrigla ryukyuensis: Ochiai and Yatou, 1988; Yamada, 2000; Yoda *et al.*, 2002.

Subfamily Peristediinae

Gargariscus prionocephalus (Duméril, 1869) [Japanese name: Onikihoubou]

Gargariscus prionocephalus: Yatou, 1997; Yamada, 2000; Yoda *et al.*, 2002.

Peristedion liorhynchus Günther, 1872 [Japanese name: Moyoukioubou]

Peristedion liorhynchus: Yatou, 1985, 1997; Yamada, 2000; Yoda *et al.*, 2002.

Peristedion nierstraszi Weber, 1913 [Japanese name: Herikihoubou]

Peristedion nierstraszi: Yoda *et al.*, 2002.

Peristedion orientale Temminck & Schlegel, 1843 [Japanese name: Kihoubou]

Peristedion orientale: Yatou, 1985, 1997; Yamada, 1986a; Ochiai and Yatou, 1988; Yamada, 2000; Yoda *et al.*, 2002.

YK02-T05-13(1N), YK02-T05-13(3N), YK02-T03-07(2N), YK02-T04-12(2N), YK02-T05-13(5K), YK02-T03-07(1K), YK03-T03-03(1N), YK03-T04-04(1N).

Satyrichthys amiscus Jordan & Starks, 1904 [Japanese name: Higekihoubou]

Satyrichthys amiscus: Yatou, 1985, 1997; Ochiai and Yatou, 1988; Yamada, 2000; Yoda *et al.*, 2002.

YK02-T02-09(1N), YK02-T05-13(1K), YK02-T02-09(3K), YK03-T03-03(1N), OCA-03-11(1).

Satyrichthys engyceros Günther, 1872 [Japanese name: Sokokihoubou]

Satyrichthys engyceros: Yatou, 1985; Yoda *et al.*, 2002.

YK02-T05-13(5K), YK03-T04-04(1N).

Satyrichthys hians (Gilbert & Cramer, 1897) [Japanese name: Nanyoukibouou]

Nemaperistedion orinatale: Yatou, 1985, 1997; Yoda *et al.*, 2002.

Satyrichthys hians: Yamada, 2000.

Satyrichthys isokawae Yatou & Okamura, 1985 [Japanese name: Okikihoubou]

Satyrichthys isokawae: Yatou and Okamura, 1985b; Yatou, 1997; Yoda *et al.*, 2002.

Satyrichthys magnus Yatou, 1985 [Japanese name: Bakekihoubou]

Satyrichthys magnus: Yatou, 1985; Yamada, 2000; Yoda *et al.*, 2002.

Satyrichthys rieffeli (Kaup, 1859) [Japanese name: Isokihoubou]

Satyrichthys rieffeli: Yatou, 1985, 1997; Yamada, 1986a; Yoda *et al.*, 2002.

Suborder Platycephaloidei

Family Bembridae

Bembradium roseum Gilbert, 1905 [Japanese name: Barahaigoichi]

Bembradium roseum: Yatou, 1985; Yoda *et al.*, 2002.

Bembras japonica Cuvier in Cuvier & Valenciennes, 1829 [Japanese name: Akagoichi]

Bembras japonicus: Yatou, 1985; Yamada, 1986a.

Bembras japonica: Ochiai, 1988; Imamura, 1997; Nakabo, 2000b; Yoda *et al.*,

2002.

YK01-T02-05(2N).

Parabembras curta (Temminck & Schlegel, 1843) [Japanese name: Ubagochi]*Parabembras curtus*: Yamada, 1986a.*Parabembras curta*: Yoda *et al.*, 2002.

Family Platycephalidae

Onigocia macrolepis (Bleeker, 1854) [Japanese name: Anesagochi]*Onigocia macrolepis*: Ochiai, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.***Onigocia spinosa*** (Temminck & Schlegel, 1844) [Japanese name: Onigochi]*Onigocia spinosa*: Ochiai, 1988; Yamada, 1986a, 2000; Yoda *et al.*, 2002.

YK01-T16-19(1N).

Family Hoplichthyidae

Hoplichthys fasciatus Matsubara, 1937 [Japanese name: Shimaharigochi]*Hoplichthys fasciatus*: Imamura, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.***Hoplichthys filamentosus*** Matsubara & Ochiai, 1950 [Japanese name: Itoharigochi]*Hoplichthys filamentosus*: Yatou, 1985; Yoda *et al.*, 2002.

YK01-C19-32(1N).

Hoplichthys gilberti Jordan & Richardson, 1908 [Japanese name: Sokoharigochi]*Hoplichthys gilberti*: Yatou, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-C02-02(1N), YK02-T03-07(2N), YK02-T03-07(19K), YK02-T06-14(2K).

Hoplichthys langsdorfii Cuvier in Cuvier & Valenciennes, 1829 [Japanese name: Natsuharigochi]*Hoplichthys langsdorfii*: Ochiai, 1988; Imamura, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

YK01-T19-18(2N), YK01-C21-30(1K), YK03-T04-04(1N).

Suborder Cottoidei

Family Ereuniidae

Ereunias grillator Jordan & Snyder, 1901 [Japanese name: Torikajika]*Ereunias grillator*: Yatou, 1985; Yabe, 1997; Yoda *et al.*, 2002.

YK02-T01-06(1N), YK03-T07-07(1N).

Family Psychrolutidae

Ebinania brephocephala (Jordan & Starks, 1903) [Japanese name: Bouzokajika]

YK03-T03-03(1N).

Psychrolutes macrocephalus (Gilchrist, 1904) [Japanese name: Kumanokajika]*Psychrolutes inermis*: Yatou, 1985.*Psychrolutes macrocephalus*: Yoda *et al.*, 2002.***Psychrolutes phrictus*** Stein & Bond, 1978 [Japanese name: Nyuudoukajika] (Fig. 2)

YK03-T09-09(1N).

Remarks. A specimen (NSMT-P 67570, 13.1 cm SL) was collected from the continental slope at the East China Sea at depths of 500–512 m. According to Nakabo (2000b), this



Fig. 2. Fresh specimen of a psychrolutid fish, *Psychrolutes phricus* Stein & Bond, 1978, from the East China Sea (NSMT-P 67570, 13.1 cm SL). Photographed by G. Shinohara.

species occurs from the Pacific Coast and Okhotsk Sea off Northern Japan, eastward to the eastern Bering Sea and eastern North Pacific at depths of 800–2800 m depths. This specimen represents the southernmost and shallowest record for this species.

Family Liparidae

Liparis tanakai (Gilbert & Burke, 1912) [Japanese name: Kusauo]

Liparis tanakai: Yamada, 1986a; Kido, 1988, 1997; Yoda *et al.*, 2002.
YK01-T05-02(1N).

Paraliparis atramentatus Gilbert & Burke, 1912 [Japanese name: Inkiuo]

Paraliparis atramentatus: Kido, 1985; Yatou, 1985; Nakabo, 2000b; Yoda *et al.*, 2002.

Paraliparis meridionalis Kido, 1985 [Japanese name: Ryuukyunkiuo]

Paraliparis meridionalis: Kido, 1985; Yatou, 1985; Nakabo, 2000b Yoda *et al.*, 2002.

Order Perciformes

Suborder Percoidei

Family Acropomatidae

Acropoma hanedai Matsubara, 1953 [Japanese name: Hanedahotarujako]

Acropoma hanedai: Yamakawa, 1985; Yoda *et al.*, 2002.
YK01-T03-04(1N).

Acropoma japonicum Günther, 1859 [Japanese name: Hotarujako]

Acropoma japonicum: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T03-04(3N), YK01-C10-13(1K), YK01-C30-10(1K), YK01-C22-29(6K),
YK01-C26-19(1K), YK04-C06-07(6N), YK04-C06-07(6K), YK04-C18-10(5N), YK04-
C18-10(5K).

Bathysphyraenops simplex Parr, 1933 [Japanese name: Togesumikuiuo]

Bathysphyraenops simplex: Yoda *et al.*, 2002.
YK03-T09-09(10N).

Doederleinia berycoides (Hilgendorf, 1879) [Japanese name: Akamutsu]

Doederleinia berycoides: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

Howella sherborni (Norman, 1930) [Japanese name: Namitogesumikuiuo]

Howella sherborni: Yamakawa, 1985; Mochizuki, 1997; Hatooka, 2000; Yoda *et*

al., 2002.

Howella zina Fedoryako, 1976 [Japanese name: Togekehisumikuiuo]

Howella zina: Yoda *et al.*, 2002.

YK02-T06-14(1N).

Malakichthys elegans Matsubara & Yamaguti, 1943 [Japanese name: Nagaoomehata]

Malakichthys elegans: Yamakawa, 1985; Mochizuki, 1988, 1997; Hatooka, 2000; Yoda *et al.*, 2002.

YK01-T03-04(1N), YK02-T03-07(5K), YK02-T04-12(2K).

Malakichthys wakiyae Jordan & Hubbs, 1925 [Japanese name: Wakiyahata]

Malakichthys wakiyae: Yamakawa, 1985; Yamada, 1986a; Mochizuki, 1997; Hatooka, 2000; Yoda *et al.*, 2002.

YK02-T03-07(1N), YK02-T04-12(2N).

Neoscombrops pacificus Mochizuki, 1979 [Japanese name: Bakemutsu]

Neoscombrops pacificus: Mochizuki, 1988.

Synagrops japonicus (Döderlein, 1883) [Japanese name: Sumikuiuo]

Synagrops japonicus: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T10-12(2N), YK01-T16-19(1N), YK02-T01-06(1N), KT-02-3-E3(1).

Synagrops philippinensis (Günther, 1880) [Japanese name: Himesumikuiuo]

Synagrops philippinensis: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-C30-10(1N), YK01-C21-30(4K), YK01-C25-20(1K), YK01-C22-29(3K), YK01-C26-19(1K).

Family Serranidae

Chelidoperca hirundinacea (Valenciennes, 1831) [Japanese name: Himekodai]

Chelidoperca hirundinacea: Yamakawa, 1985; Yamada, 1986a; Katayama, 1988; Senou, 1997, 2000; Yoda *et al.*, 2002.

YK01-T02-05(1N), YK01-T06-03(1N).

Chelidoperca pleurospila (Günther, 1880) [Japanese name: Hoshihimekodai]

Chelidoperca pleurospila: Yamakawa, 1985; Senou, 1997, 2000; Yoda *et al.*, 2002.

Chelidoperca pleurospilus: Yamada, 1986a.

YK01-T06-03(1N), YK01-C12-23(1K).

Chelidoperca margaritifera Weber, 1913 [Japanese name: Minamihimekodai]

Chelidoperca margaritifera: Yamakawa, 1985; Yamada and Horikawa, 1999; Senou, 2000; Yoda *et al.*, 2002.

Epinephelus septemfasciatus (Thunberg, 1793) [Japanese name: Mataha]

Epinephelus septemfasciatus: Yamakawa, 1985; Senou, 1997; Yoda *et al.*, 2002.

Epinephelus morrhua (Valenciennes in Cuvier & Valenciennes, 1833) [Japanese name: Houkihata]

Epinephelus morrhua: Yoda *et al.*, 2002.

OCA-01-09(2).

Liopropoma japonicum (Döderlein in Steindachner & Döderlein, 1883) [Japanese name: Togehanasuzuki]

Liopropoma japonicum: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

Liopropoma latifasciatum (Tanaka, 1922) [Japanese name: Tsurugue]

Liopropoma latifasciatum: Yamakawa, 1985; Yoda *et al.*, 2002.

Niphon spinosus Cuvier in Cuvier & Valenciennes, 1828 [Japanese name: Ara]

Niphon spinosus: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T02-05(1N).

Plectranthias kelloggi azumanus (Jordan & Richardson, 1910) [Japanese name: Azumahanadai]

Plectranthias kelloggi azumanus: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK03-T04-04(1N).

Selenanthias analis Tanaka, 1918 [Japanese name: Sumitsukihanadai]

Selenanthias analis: Yamakawa, 1985; Yoda *et al.*, 2002.

Family Ostracoberycidae

Ostracoberyx dorygenys Fowler, 1934 [Japanese name: Mameonigashira]

Ostracoberyx dorygenys: Yamakawa, 1985; Yoda *et al.*, 2002.

Family Callanthiidae

Callanthias japonicus Franz, 1910 [Japanese name: Shikishimahanadai]

Callanthias japonicus: Yamakawa, 1985; Yamada, 1986a; Katayama, 1988; Senou, 1997, 2000; Yoda *et al.*, 2002.

Grammatonotus surugaensis Katayama, Yamakawa & Suzuki, 1980 [Japanese name: Tenjikuhanadai]

Grammatonotus surugaensis: Katayama *et al.*, 1980, 1982; Yoda *et al.*, 2002.

Family Priacanthidae

Cookeolus japonicus (Cuvier in Cuvier & Valenciennes, 1829) [Japanese name: Chikamekintoki]

Cookeolus boops: Machida, 1985; Yamada, 1986a, 1997; Yoda *et al.*, 2002.

YK01-T01-06(1N), YK01-T04-01(1N), YK01-C18-36(1N), OCA-02-07(3), OCA-03-03(1), OCA-03-21(1), OCA-04-06(2), OCA-05-01(1).

Priacanthus fitchi Starnes, 1988 [Japanese name: Usubenikintoki]

Priacanthus sp. b: Machida, 1985.

Priacanthus fitchi: Yamada and Irie, 1996; Hayashi, 2000; Yoda *et al.*, 2002.

Remarks. Systematic treatment of Machida's (1985) *Priacanthus* sp. b follows Starnes (1988).

Priacanthus hamrur (Forsskål, 1775) [Japanese name: Housekikintoki]

Priacanthus hamrur: Machida, 1985; Yoda *et al.*, 2002.

Priacanthus macracanthus Cuvier in Cuvier & Valenciennes, 1829 [Japanese name: Kintokidai]

Priacanthus macracanthus: Yamada, 1986a, 1997; Hayashi, 2000; Machida, 1985; Yoda *et al.*, 2002.

Priacanthus zaiseræ Starnes & Moyer in Starnes, 1988 [Japanese name: Kibirekintoki]

Priacanthus sp. a: Machida, 1985.

Priacanthus zaiseræ: Starnes, 1988; Yamada, 1997; Hayashi, 2000; Yoda *et al.*, 2002.

Remarks. Systematic treatment of Machida's (1985) *Priacanthus* sp. a follows Starnes (1988).

Pristigenys meyeri (Günther, 1872) [Japanese name: Okinawakurumadai]

Pristigenys meyeri: Yamada, 1997; Hayashi, 2000; Yoda *et al.*, 2002.

Pristigenys nipponia (Cuvier in Cuvier & Valenciennes, 1829) [Japanese name: Kurumadai]

Pristigenys nipponia: Yamada, 1986a, 1987, 1997; Yoda *et al.*, 2002.

Family Apogonidae

Apogon kiensis Jordan & Snyder, 1901 [Japanese name: Teppouishimochi]

Apogon kiensis: Yoda *et al.*, 2002.

YK01-C30-10(3K).

Apogon lineatus Temminck & Schlegel, 1842 [Japanese name: Tenjukudai]

Apogon lineatus: Yamada, 1986a; Yoda *et al.*, 2002.

YK01-C10-13(1K), YK01-C30-10(7K).

Coranthus polyacanthus (Vaillant, 1877) [Japanese name: Oniishimochi]

Coranthus polyacanthus: Hayashi, 2000.

Family Epigonidae

Epigonus denticulatus Dieuzeide, 1950 [Japanese name: Hageyasemutsu]

Epigonus denticulatus: Machida, 1985; Yoda *et al.*, 2002.

YK02-T02-09(1K).

Epigonus pectinifer Mayer, 1974 [Japanese name: Yasemutsu]

Epigonus pectinifer: Machida, 1985; Yoda *et al.*, 2002.

Family Pomatomidae

Scombrops boops (Houttuyn, 1782) [Japanese name: Mutsu]

Scombrops boops: Machida, 1985; Yamada, 1986a; Mochizuki, 1988, 1997; Hayashi, 2000; Yoda *et al.*, 2002.

OCA-01-15(1), OCA-03-29(1).

Family Malacanthidae

Branchiostegus argentatus (Cuvier in Cuvier & Valenciennes, 1830) [Japanese name: Sumitsukiamadai]

Branchiostegus argentatus: Yamada, 1986a, 1997; Yoda *et al.*, 2002.

YK01-T02-05(1N).

Branchiostegus auratus (Kishinouye, 1907) [Japanese name: Kiamadai]

Branchiostegus auratus: Machida, 1985; Yamada, 1986a, 1997; Aizawa, 2000; Yoda *et al.*, 2002.

OCA-01-04(1), OCA-03-07(1).

Branchiostegus japonicus (Houttuyn, 1782) [Japanese name: Akaamadai]

Branchiostegus japonicus: Anonymous, 1980; Machida, 1985; Yamada, 1986a, 1997; Yoda *et al.*, 2002.

Family Banjosidae

Banjos banjos (Richardson, 1846) [Japanese name: Chousenbakama]

Banjos banjos: Machida, 1985; Akazaki, 1988; Hatooka, 2000; Yoda *et al.*, 2002.

Family Echeneidae

Remora remora (Linnaeus, 1758) [Japanese name: Nagakoban]

YK01-T11-11(1N) YK01-T01-11(1N).

Remorina albescens (Temminck & Schlegel, 1850) [Japanese name: Shirokoban]

Remorina albescens: Yoda *et al.*, 2002.

Family Carangidae

Decapterus akaadsi Abe, 1958 [Japanese name: Akaaji]

Decapterus akaadsi: Matsuura, 1985; Kishida, 1986; Kimura, 1997; Senou, 2000; Yoda *et al.*, 2002.

OCA-01-04(1).

Decapterus macrosoma Bleeker, 1851 [Japanese name: Moro]

Decapterus macrosoma: Okada and Matsubara, 1938; Matsubara, 1955; Matsuura, 1985; Kishida, 1986.

Decapterus tabl Berry, 1968 [Japanese name: Oakamuro]

Decapterus russelli: Okada and Matsubara, 1938.

Decapterus tabl: Matsuura, 1985; Kishida, 1986; Yoda *et al.*, 2002.

OCA-03-29(1).

Kaiwarinus equula (Temminck & Schlegel, 1844) [Japanese name: Kaiwari]

Caranx equula: Okada and Matsubara, 1938; Matsubara, 1955.

Kaiwarinus equula: Yamada, 1988b; Yoda *et al.*, 2002.

YK01-C12-23(1K).

Seriola rivoliana Valenciennes in Cuvier & Valenciennes, 1833 [Japanese name: Hire-nagakampachi]

Seriola rivoliana: Matsuura, 1985; Yoda *et al.*, 2002.

OCA-01-01(1), OCA-01-04(1), OCA-01-10(1), OCA-01-14(1), OCA-02-07(1), OCA-03-01(1).

Trachurus japonicus (Temminck & Schlegel, 1844) [Japanese name: Maaji]

Trachurus japonicus: Matsuura, 1985; Kishida, 1986; Gushiken, 1988; Kimura, 1997; Senou, 2000; Yoda *et al.*, 2002.

YK01-C23-25(1K).

Family Bramidae

Brama japonica Hilgendorf, 1878 [Japanese name: Shimagatsuo]

Brama japonica: Okamura, 1985b; Yoda *et al.*, 2002.

Eumegistus illustris Jordan & Jordan, 1922 [Japanese name: Chikameechiopia]

Eumegistus illustris: Hatooka, 2000.

OCA-02-01(2), OCA-03-29(6).

Taractes rubescens (Jordan & Evermann, 1887) [Japanese name: Tsurugiechiopia]

Taractes rubescens: Mochizuki, 1988; Hatooka, 2000.

Taractichthys steindachneri (Döderlein in Steindachner & Döderlein, 1883) [Japanese name: Hirejiromanzaiuo]

Taractichthys steindachneri: Okamura, 1985b; Yamada, 1986a; Hatooka, 2000;

Yoda *et al.*, 2002.

OCA-03-17(5), OCA-03-29(1), OCA-03-30(1).

Family Emmelichthyidae

Emmelichthys struhsakeri Heemstra & Randall, 1977 [Japanese name: Rousokuchibiki]

Emmelichthys struhsakeri: Yamakawa, 1985; Yoda *et al.*, 2002.

Erythrocles schlegelii (Richardson, 1846) [Japanese name: Hachibiki]

Erythrocles schlegelii: Yamakawa, 1985; Hatooka, 2000; Yoda *et al.*, 2002.

OCA-01-06(2), OCA-01-07(1), OCA-01-11(10), OCA-01-15(2), OCA-02-01(3), OCA-02-02(4), OCA-02-09(1), OCA-02-13(2).

Erythrocles scintillans (Jordan & Thompson, 1912) [Japanese name: Hawaichibiki]

Erythrocles scintillans: Hatooka, 2000.

Family Lutjanidae

Etelis carbunculus Cuvier in Cuvier & Valenciennes, 1828 [Japanese name: Hachijou-akamutsu]

Etelis carbunculus: Yamakawa, 1985; Shimada, 2000; Yoda *et al.*, 2002.

OCA-01-10(1), OCA-01-13(4), OCA-02-07(5), OCA-03-29(1), OCA-04-06(1).

Etelis coruscans Valenciennes, 1862 [Japanese name: Hamadai]

Etelis coruscans: Yamakawa, 1985; Yoda *et al.*, 2002.

OCA-01-10(1), OCA-01-12(2), OCA-01-13(3), OCA-01-14(1), OCA-02-03(1), OCA-02-04(1), OCA-02-06(2), OCA-02-07(10), OCA-02-08(1), OCA-02-09(10), OCA-02-10(4), OCA-02-11(1), OCA-02-12(5), OCA-03-01(7), OCA-03-04(4), OCA-03-05(10), OCA-03-06(1), OCA-03-07(1), OCA-03-08(12), OCA-03-15(6), OCA-03-16(3), OCA-03-18(1), OCA-03-21(1), OCA-03-22(1), OCA-03-28(4), OCA-03-29(1), OCA-04-06(1), OCA-04-10(1), OCA-04-11(5).

Etelis radiosus Anderson, 1981 [Japanese name: Ookuchihamadai]

OCA-01-09(2), OCA-01-12(7), OCA-02-07(1), OCA-03-04(2), OCA-03-05(1).

Lipcheilus carnolabrum (Chan, 1970) [Japanese name: Kibirefuedai]

Lipcheilus carnolabrum: Yoshino and Sata, 1981; Horikawa *et al.*, 2000; Shimada, 2000.

Paracaesio caeruleus (Katayama, 1985) [Japanese name: Aodai]

Paracaesio caeruleus: Yamakawa, 1985.

OCA-01-08(1), OCA-01-09(2), OCA-01-10(2).

Pristipomoides argyrogrammicus (Valenciennes in Cuvier & Valenciennes, 1832) [Japanese name: Hanafuedai]

Pristipomoides microdon: Matsubara, 1955.

Tropidinius amoenus: Yamakawa, 1985; Yoda *et al.*, 2002.

Pristipomoides argyrogrammicus: Iwatsuki, 1997.

OCA-01-14(1), OCA-02-04(1), OCA-02-06(1), OCA-02-07(4), OCA-02-09(1), OCA-02-13(1), OCA-03-03(9), OCA-03-05(2), OCA-03-08(6), OCA-03-15(1), OCA-03-16(4), OCA-03-17(1), OCA-03-21(1), OCA-04-10(1), OCA-04-11(4), OCA-04-12(2).

Pristipomoides sieboldii (Bleeker, 1854) [Japanese name: Himedai]

Pristipomoides sieboldii: Yamakawa, 1985; Yoda *et al.*, 2002.

OCA-01-08(2), OCA-01-09(1), OCA-03-01(13), OCA-03-03(3).

Pristipomoides flavipinnis Shinohara, 1963 [Japanese name: Kinmehimedai]

OCA-01-08(1), OCA-01-09(1).

Pristipomoides filamentosus (Valenciennes, 1830) [Japanese name: Oohime]

OCA-01-08(2).

Pristipomoides multidentis (Day, 1871) [Japanese name: Nagasakifuedai]

Pristipomoides multidentis: Yoda *et al.*, 2002.

OCA-01-08(1).

Family Haemulidae

Haplogenyis kishinouyei Smith & Pope, 1906 [Japanese name: Shimasetodai]

Haplogenyis kishinouyei: Yamada, 1986a; Yoda *et al.*, 2002.

Family Nemipteridae

Parascalopsis inermis (Temminck & Schlegel, 1843) [Japanese name: Tamagashira]

Scolopsis inermis: Yamakawa, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

Parascalopsis tosensis (Kamohara, 1938) [Japanese name: Kisujitamagashira]

Scolopsis tosensis: Yamakawa, 1985; Yamada, 1986a; Akazaki, 1988.

Parascalopsis tosensis: Kanashiro, 1997; Aizawa, 2000; Yoda *et al.*, 2002.

Family Sparidae

Dentex tumifrons (Temminck & Schlegel, 1843) [Japanese name: Kidai]

Dentex tumifrons: Anonymus, 1978; Yamada, 1986a; Akazaki, 1988, 1997; Hayashi, 2000; Yoda *et al.*, 2002.

YK04-C11-15(5N), YK04-C11-15(5K).

Dentex sp. [Japanese name: Kibireakarenko]

Dentex sp.: Yamakawa, 1985; Akazaki, 1988, 1997; Yamada and Irie, 1993; Yoda *et al.*, 2002.

OCA-01-12(1), OCA-01-13(3), OCA-02-04(3), OCA-02-06(4), OCA-02-08(1), OCA-02-09(1), OCA-02-10(1), OCA-02-12(1), OCA-02-13(1), OCA-03-01(1), OCA-03-03(7), OCA-03-04(1), OCA-03-05(4), OCA-03-06(2), OCA-03-07(1), OCA-03-12(1), OCA-03-15(10), OCA-03-16(2), OCA-03-28(2), OCA-04-03(5), OCA-05-01(1).

Pagrus major (Temminck & Schlegel, 1843) [Japanese name: Madai]

Pagrus major: Yamada, 1986a; Akazaki, 1997; Yoda *et al.*, 2002.

Family Sciaenidae

Pennahia argentata (Houttuyn, 1782) [Japanese name: Shiroguchi]

Aryrosomus argentatus: Yamada, 1986a; Okamura, 1988.

Pennahia argentata: Yoda *et al.*, 2002.

YK01-T01-06(1N).

Family Mullidae

Upeneus japonicus Houttuyn, 1782 [Japanese name: Himeji]

Upeneus bensasi: Okada and Matsubara, 1938; Matsubara, 1955; Yamada, 1986a.

Upeneus japonicus: Yoda *et al.*, 2002.

YK01-C21-30(5K), YK01-C20-31(1K).

Family Bathyclupeidae

Bathyclupea argentea Goode & Bean, 1896 [Japanese name: Sokonishin]
Bathyclupea argentea: Okamura, 1985b; Nakabo, 2000b; Yoda *et al.*, 2002.

Family Chaetodontidae

Prognathodes guyotensis (Yamamoto & Tameka in Okamura, Amaoka & Mitami, 1982)
 [Japanese name: Urashimachouchouuo]
Chaetodon guyotensis: Ida, 1988; Yamada and Irie, 1991.
Prognathodes guyotensis: Shimada, 2000; Yoda *et al.*, 2002.

Family Pentacerotidae

Histiopaterus typus Temminck & Schlegel, 1844 [Japanese name: Kawabisha]
Histiopaterus typus: Machida, 1985; Yamada, 1986a; Yoda *et al.*, 2002.
 YK01-T13-13(1N), OCA-01-05(1).
Pentaceros japonicus Steindachner, 1883 [Japanese name: Tsubodai]
Pentaceros japonicus: Machida, 1985; Yoda *et al.*, 2002.
 OCA-02-02(1), OCA-03-02(1), OCA-03-09(1).

Suborder Labroidei

Family Pomacentridae

Chromis mirationis Tanaka, 1917 [Japanese name: Toukaisuzumedai]
Chromis mirationis: Yamakawa, 1985; Araga, 1997; Yoda *et al.*, 2002.

Family Labridae

Coris picta (Bloch & Schneider, 1801) [Japanese name: Musumebera]
Coris picta: Yamakawa, 1985.
Bodianus thoracotaeniatus Yamamoto in Okamura, Amaoka & Mitani, 1982 [Japanese
 name: Itohikiakabou]
Bodianus thoracotaeniatus: Araga, 1997; Shimada, 2000.
Peaolopesia gymnogenys (Günther in Playfair & Günther, 1867) [Japanese name:
 Iramodoki]
Peaolopesia gymnogenys: Yamakawa, 1985; Yoda *et al.*, 2002.

Suborder Zoarcoidei

Family Zoarcidae

Lycodapus microchir Schmidt, 1950 [Japanese name: Ashinashigenge]
Lycodapus microchir: Anderson, 1989.

Suborder Trachinoidei
Family Pinguipedidae

Parapercis aurantica Döderlein in Staindachner & Döderlein, 1884 [Japanese name: Akatoragisu]

Parapercis aurantica: Okamura, 1985b; Yamada, 1986a; Yoda *et al.*, 2002.
YK03-T04-04(1N).

Parapercis multifasciata Döderlein, 1884 [Japanese name: Okitoragisu]

Parapercis multifasciata: Yamada, 1986a; Yoda *et al.*, 2002.
YK01-C12-23(1K).

Parapercis muronis (Tanaka, 1918) [Japanese name: Murotoragisu]

Parapercis muronis: Yoda *et al.*, 2002.
YK01-C28-17(1K).

Parapercis sexfasciatus (Temminck & Schlegel, 1843) [Japanese name: Kurakake-toragisu]

Parapercis sexfasciatus: Yamada, 1986a; Yoda *et al.*, 2002.

Family Percophidae

Bembrops filifera Gilbert, 1905 [Japanese name: Itohikiaitoragisu]

Bembrops filifera: Okamura, 1985b, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Bembrops sp. [Japanese name: Somewakeaitoragisu]

Bembrops sp.: Okamura, 1985b; Nakabo, 2000b; Yoda *et al.*, 2002.

Chrionema furunoi Okamura & Yamachi in Okamura, Amaoka & Mitani, 1982 [Japanese name: Ibaratoragisu]

Chrionema furunoi: Okamura, 1985b, 1997; Nakabo, 2000b; Yoda *et al.*, 2002.

Chrionema chlorotaenia McKay, 1971 [Japanese name: Ohaguroibaratoragisu]

Chrionema chlorotaenia: Okamura, 1985b, 1988; Nakabo, 2000b; Yoda *et al.*, 2002.

Osopsaron verecundum (Jordan & Snyder, 1902) [Japanese name: Himetoragisu]

YK01-T18-21(2N).

Family Chiasmodontidae

Dysalotus alcocki MacGilchrist, 1905 [Japanese name: Toge bouzugisu]

Dysalotus alcocki: Nakabo, 2000b.

Pseudoscopelus sagamianus Tanaka, 1908 [Japanese name: Kuro bouzugisu]

Pseudoscopelus scripus sagamianus: Okamura, 1985b; Yoda *et al.*, 2002.

Family Champsodontidae

Chamsodon guentheri Regan, 1908 [Japanese name: Kurowanigisu]

Chamsodon guentheri: Yoda *et al.*, 2002.

Champsodon snyderi Franz, 1910 [Japanese name: Wanigisu]

Champsodon snyderi: Okamura, 1985b; Yamada, 1986a; Hatooka, 2000; Yoda *et al.*, 2002.

YK01-T06-03(1N), YK01-C02-02(7N), YK01-C10-13(1K), YK01-C23-25(5K), YK01-C30-10(1K), YK01-C21-30(1K), YK01-C25-20(1K), YK01-C32-12(1K).

Family Uranoscopidae

Uranoscopus chinensis Guichenot in Sauvage, 1882 [Japanese name: Kibiremishima]

Uranoscopus sp.: Yamada, 1986a.

Uranoscopus chinensis: Yoda *et al.*, 2002.

YK01-T14-14(1N).

Uranoscopus japonicus Houttuyn, 1782 [Japanese name: Mishimaokoze]

Uranoscopus japonicus: Okamura, 1985b; Yamada, 1986a, 2000.

YK01-T06-03(1N), YK01-T18-21(1N).

Uranoscopus tosae (Jordan & Hubbs, 1925) [Japanese name: Yagimishima]

Uranoscopus tosae: Yamada, 1986a, 2000; Yoda *et al.*, 2002.

YK01-T18-21(1N).

Xenocephalus elongatus (Temminck & Schlegel, 1843) [Japanese name: Aomishima]

Gnathagnus elongatus: Okamura, 1985b, 1988; Yamada, 1986a.

Xenocephalus elongatus: Yamada, 2000; Yoda *et al.*, 2002.

Suborder Callionymoidei

Family Callionymidae

Bathycallionymus kaianus Günther, 1880 [Japanese name: Tongarinumeri]

Bathycallionymus kaianus: Nakabo, 1988, 2000; Okamura, 1997; Yoda *et al.*, 2002.

YK01-T07-07(1N), YK01-T19-18(4N), YK01-C28-17(1K).

Foetorepus altivelis (Temminck & Schlegel, 1845) [Japanese name: Beniteguri]

Foetorepus altivelis: Yamada, 1986a; Nakabo, 2000b; Yoda *et al.*, 2002.

YK01-T13-13(2N), YK01-C11-24(1K).

Foetorepus masudai Nakabo, 1987 [Japanese name: Rusonbeniteguri]

YK01-T01-06(1N).

Repomucenus virgis (Jordan & Fowler, 1903) [Japanese name: Horonumeri]

Repomucenus virgis: Yamada, 1986a; Nakabo, 1988; Yoda *et al.*, 2002.

YK01-T05-02(1N).

Suborder Gobioidi

Family Gobiidae

Amblychaeturichthys hexanema (Bleeker, 1853) [Japanese name: Akahaze]

Amblychaeturichthys hexanema: Yamada, 1986a; Yoda *et al.*, 2002.

YK01-C10-13(5N), YK01-C32-12(4N), YK04-C05-08(2N), YK04-C05-08(1K).

Amblychaeturichthys sciistius (Jordan & Snyder, 1901) [Japanese name: Komochijako]

Amblychaeturichthys sciistius: Yoda *et al.*, 2002.

YK01-T09-09(1N), YK01-C30-10(4K).

Suruga fundicola Jordan & Snyder, 1901 [Japanese name: Yamihaze]

Suruga fundicola: Yoda *et al.*, 2002.

YK01-C30-10(5K), YK01-C12-23(1K).

Suborder Acanthuroidei

Family Acanthuridae

Naso maculatus Randall & Struhsaker, 1981 [Japanese name: Gomatenguhagimodoki]

Naso maculatus: Yamakawa, 1985; Yoda *et al.*, 2002.

Suborder Scombrobracoidei
Family Scombrobracidae

Scombrobrax heterolepis Roule, 1921 [Japanese name: Mukashikurotachi]
Scombrobrax heterolepis: Machida, 1985; Ozawa, 1986b; Yoda *et al.*, 2002.

Suborder Scombroidei
Family Gempylidae

Nealotus tripes Johnson, 1865 [Japanese name: Fuuraikamasu]

Nealotus tripes: Machida, 1985; Yoda *et al.*, 2002.

Neopinnula orientalis (Gilchrist & von Bonde, 1924) [Japanese name: Touyoukamasu]

Neopinnula orientalis: Machida, 1985; Yoda *et al.*, 2002.

Promethichthys prometheus (Cuvier in Cuvier & Valenciennes, 1832) [Japanese name: Kuroshibikamasu]

Promethichthys prometheus: Machida, 1985; Yoda *et al.*, 2002.

OCA-03-19(1).

Rexea prometheoides (Bleeker, 1856) [Japanese name: Kagokamasu]

Rexea prometheoides: Machida, 1985; Yamada, 1986a; Parin, 1989; Yoda *et al.*, 2002.

YK03-T01-01(1N), OCA-03-06(1), OCA-03-07(1).

Ruvettus pretiosus Cocco, 1833 [Japanese name: Baramutsu]

Ruvettus pretiosus: Machida, 1985; Yoda *et al.*, 2002.

YK02-01-06(1N), YK03-T09-09(1N).

Thyrstoides marleyi Fowler, 1929 [Japanese name: Nagatachikamasu]

Thyrstoides marleyi: Machida, 1985; Yoda *et al.*, 2002.

OCA-01-01(1), OCA-01-07(1), OCA-01-10(1), OCA-01-11(1), OCA-01-13(1), OCA-01-14(1), OCA-01-15(1), OCA-02-03(1), OCA-02-07(3), OCA-02-11(1), OCA-03-03(1), OCA-03-04(1), OCA-03-17(2), OCA-03-18(1), OCA-03-29(3), OCA-04-06(1), OCA-04-09(1), OCA-04-14(5).

Family Trichiuridae

Benthodesmus tenuis (Günther, 1877) [Japanese name: Tachimodoki]

Benthodesmus tenuis: Machida, 1985; Yoda *et al.*, 2002.

YK02-04-12(1N), YK02-T02-09(9K), YK02-T01-06(1K), YK02-T06-14(1K), YK02-T03-07(1K).

Evoxymetopon poeyi Günther, 1887 [Japanese name: Hiremagayumetachi]

Evoxymetopon poeyi: Yamada, 1997; Yoda *et al.*, 2002.

Evoxymetopon taeniatus Gill, 1863 [Japanese name: Yumetachimodoki] (Fig. 3)

Evoxymetopon taeniatus: Nakabo, 2000b; Yoda *et al.*, 2002.

Remarks. A single specimen (154.5 cm SL) was captured in YK03-T04-04, but it has not been kept.

Lepturacanthus savala (Cuvier, 1829) [Japanese name: Togetachiuo]

Lepturacanthus savala: Nakabo, 2000b; Yoda *et al.*, 2002.

Trichiurus japonicus Temminck & Schlegel, 1844 [Japanese name: Tachiuo]



Fig. 3. Fresh specimen of a trichurid fish, *Evoxymetopon taeniatus* Gill, 1863 from the East China Sea (154.5 cm SL). Photographed by G. Shinohara.

Trichiurus lepturus: Machida, 1985; Yamada, 1986a

Trichiurus japonicus: Yamada, 1997; Yoda *et al.*, 2002.

YK01-T03-04(1N), OCA-03-15(1).

Trichiurus sp. [Japanese name: Okinawaootachi]

Trichiurus sp. 1: Nakabo, 2000b.

Trichiurus sp. 2: Yoda *et al.*, 2002.

Family Scombridae

Scomber japonicus Houttuyn, 1782 [Japanese name: Masaba]

Scomber japonicus: Machida, 1985; Kishida, 1986; Yoda *et al.*, 2002.

Remarks. Machida (1985) reported 3 specimens from East China Sea at 265–275 m depths.

Scomberomorus niphonius (Cuvier in Cuvier & Valenciennes, 1832) [Japanese name: Sawara]

Scomberomorus niphonius: Machida, 1985; Kishida, 1986; Nakamura, 1997; Yoda *et al.*, 2002.

Remarks. Machida (1985) reported 1 specimen from the East China Sea at 242 m depth.

Suborder Stromateoidei

Family Centrolophidae

Hyperoglyphe japonica (Döderlein in Steindachner & Döderlein, 1884) [Japanese name: Medai]

Hyperoglyphe japonica: Okamura, 1985b, 1997; Yamada, 1986a; Yoda *et al.*, 2002. OCA-03-29(9).

Psenopsis anomala Temminck & Schlegel, 1844 [Japanese name: Ibodai]

Psenopsis anomala: Matsubara, 1955; Okamura, 1985b, 1997; Yamada, 1986a; Nakabo, 1988, 2000; Yoda *et al.*, 2002.

YK01-T02-05(1N).

Family Nomeidae

Cubiceps squamiceps (Lloyd, 1909) [Japanese name: Bouzokonnyaku]

Cubiceps squamiceps: Okamura, 1985b; Yamada, 1986a; Yoda *et al.*, 2002.

YK02-T04-12(2K), YK02-T01-06(3K).

Psenes arafurensis Günther, 1889 [Japanese name: Kurageuo]

Psenes arafurensis: Yamada and Irie, 1990a; Yoda *et al.*, 2002.

Remarks. According to Yamada and Irie (1990), adults of *Psenes arafurensis* are distributed in waters deeper than 200 m off west of the Goto Islands in Nagasaki Prefecture, Japan, the continental slopes of the East China Sea and southern Taiwan.

Psenes maculatus Lütken, 1880 [Japanese name: Shimahanabirauo]

Psenes maculatus: Yamada and Irie, 1995; Yoda *et al.*, 2002.

YK02-01-06(2N).

Family Ariommatidae

Ariomma indica (Day, 1871) [Japanese name: Maruibodai]

Ariomma indica: Yamada, 1983; Okamura, 1985b; Yamada, 1986a; Nakabo, 2000b; Yoda *et al.*, 2002.

Ariomma lurida Jordan & Snyder, 1904 [Japanese name: Oomemedai]

Ariomma lurida: Okamura, 1985b; Yoda *et al.*, 2002.

Order Pleuronectiformes

Family Citharidae

Citharoides macrolepidotus Hubbs, 1915 [Japanese name: Kokebirame]

Citharoides macrolepidotus: Matsuura, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

Lepidoblepharon ophthalmolepis Weber, 1913 [Japanese name: Urokogarei]

Lepidoblepharon ophthalmolepis: Matsuura, 1985; Yoda *et al.*, 2002.

OCA-03-11(2).

Family Bothidae

Arnoglossus yamanakai Fukui, Yamada & Ozawa, 1988 [Japanese name: Toukai-nagadarumagarei]

Arnoglossus yamanakai: Yoda *et al.*, 2002.

YK01-T18-21(1N), YK01-T15-15(1N), YK01-T19-18(1N).

Chascanopsetta lugubris lugubris Alcock, 1894 [Japanese name: Zaragarei]

Chascanopsetta lugubris lugubris: Matsuura, 1985; Ozawa and Fukui, 1986; Yoda *et al.*, 2002.

YK02-T05-13(2K), YK02-T04-12(1K), YK03-T07-07(1N).

Chascanopsetta prognathus Norman, 1939 [Japanese name: Ukeguchizaragarei]

Chascanopsetta prognathus: Amaoka, 1988, 1997; Matsuura, 1985; Nakabo, 2000b; Yoda *et al.*, 2002.

Crossorhombus kobensis (Jordan & Starks, 1906) [Japanese name: Koubedarumagarei]

Crossorhombus kobensis: Matsuura, 1985; Ozawa and Fukui, 1986; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T10-12(1N).

Engyprosopon maldivensis (Regan, 1908) [Japanese name: Tenagadarumagarei]
YK01-C20-31(1K), YK01-C28-17(3K).

Remarks. Nakabo (2000b) used *Engyprosopon macroptera* Amaoka, 1963 for this species, but Amaoka *et al.* (1993) had previously synonymized this name with *Engyprosopon maldivensis* (Regan, 1908). We follow Amaoka *et al.* (1993) here.

Laeops kitaharae (Smith & Pope, 1906) [Japanese name: Yarigarei]
Laeops kitaharae: Matsuura, 1985; Ozawa and Fukui, 1986.

Parabothus kiesis (Tanaka, 1918) [Japanese name: Kishuudarumagarei]
Parabothus kiesis: Matsuura, 1985; Yoda *et al.*, 2002.
YK01-T04-01(12N).

Psettina gigantea Amaoka, 1963 [Japanese name: Sokodarumagarei]
Psettina gigantea: Yoda *et al.*, 2002.
YK01-C28-17(1K).

Psettina tosana Amaoka, 1963 [Japanese name: Tosadarumagarei]
Psettina tosana: Ozawa and Fukui, 1986; Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T18-21(1N), YK01-T20-17(2N), YK01-C30-10(1K), YK01-C21-30(2K),
YK01-C20-31(3K), YK01-C22-29(2K), YK01-C29-09(1K).

Tosarhombus octoculatus Amaoka, 1969 [Japanese name: Yatsumedarumagarei]
Tosarhombus octoculatus: Ozawa and Fukui, 1986; Yamada, 1986a; Amaoka, 1997;
Nakabo, 2000b; Yoda *et al.*, 2002.
YK01-T16-19(1N), YK01-T19-18(1N).

Family Paralichthyidae

Pseudorhombus pentophthalmus Günther, 1862 [Japanese name: Tamaganzoubirame]
Pseudorhombus pentophthalmus: Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T10-12(1N), YK01-C21-30(5N), YK01-C22-29(3N).

Family Pleuronectidae Subfamily Pleuronectinae

Clidoderma asperrimum (Temminck & Schlegel, 1846) [Japanese name: Samegarei]
Clidoderma asperrimum: Kishida, 1986; Sakamoto, 1988, 1997; Nakabo, 2000b;
Yoda *et al.*, 2002.

Dexistes rikuzenius Jordan & Starks, 1904 [Japanese name: Migigarei]
Dexistes rikuzenius: Matsuura, 1985; Yamada, 1986a.

Eopsetta grigorjewi (Herzenstein, 1890) [Japanese name: Mushigarei]
Eopsetta grigorjewi[sic]: Yamada, 1982.

Eopsetta grigorjewi: Yamada, 1982b; Matsuura, 1985; Yamada, 1986a; Amaoka,
1988; Sakamoto, 1997; Yoda *et al.*, 2002.

Glyptocephalus stelleri (Schmidt, 1904) [Japanese name: Hireguro]
Glyptocephalus stelleri: Yamada, 1986a; Sakamoto, 1988, 1997.

Microstomus achne (Jordan & Starks, 1904) [Japanese name: Babagarei]

Microstomus achne: Yamada, 1982a, 1986a; Sakamoto, 1988, 1997; Nakabo, 2000b;
Yoda *et al.*, 2002.

***Pleuronichthys* sp.** [Japanese name: Nagaremeitagarei]

Pleuronichthys sp.: Yamada, 1986a; Sakamoto, 1997; Yoda *et al.*, 2002.
YK01-C13-22(1N), YK01-C20-31(1K).

Tanakius kitaharai (Jordan & Starks, 1904) [Japanese name: Yanagimushigarei]

Tanakius kitaharai: Matsuura, 1985; Sakamoto, 1988, 1997; Yamada, 1986a; Yoda *et al.*, 2002.

Subfamily Poecilopsettinae

Poecilopsetta plinthus (Jordan & Starks, 1904) [Japanese name: Kawaragarei]

Poecilopsetta plinthus: Yamada, 1986a; Sakamoto, 1988, 1997; Matsuura, 1985; Yoda *et al.*, 2002.

YK03-T11-11(2N).

Family Samaridae

Plagiopsetta glossa Franz, 1910 [Japanese name: Berogarei]

Plagiopsetta glossa: Yamada, 1986a; Sakamoto, 1988; Yoda *et al.*, 2002.

YK01-T01-06(1N), YK01-C23-25(1K), YK01-C24-26(1K), YK01-C21-30(1K), YK01-C20-31(1K), YK01-C07-16(4K).

Family Soleidae

Aesopia cornuta Kaup, 1858 [Japanese name: Tsunoushinoshita]

Aesopia cornuta: Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T18-21(1N).

Family Cynoglossidae

Cynoglossus sp. [Japanese name: Otafukugenko]

Cynoglossus sp.: Yoda *et al.*, 2002.

YK01-T19-18(2N).

Symphurus orientalis (Bleeker, 1879) [Japanese name: Azumagarei]

Symphurus orientalis: Ochiai, 1988; Sakamoto, 1997; Yamada, 2000; Yoda *et al.*, 2002.

YK02-02-09(1N), YK03-T09-09(2N).

Order Tetraodontiformes

Suborder Triacanthoidei

Family Triacanthodidae

Macrorhamphosodes uradoi (Kamohara, 1933) [Japanese name: Fuekawamuki]

Macrorhamphosodes uradoi: Matsuura, 1985; Yoda *et al.*, 2002.

Triacanthodes anomalus (Temminck & Schlegel, 1850) [Japanese name: Benikawamuki]

Triacanthodes anomalus: Matsuura, 1985; Yamada, 1986a; Yoda *et al.*, 2002.

YK01-T01-06(1N), YK01-T02-05(3N), YK01-T05-02(1N), YK01-T18-21(1N), YK01-C10-13(1K), YK01-C11-24(3K), YK01-C30-10(1K), YK01-C25-20(1K).

Tydemanina navigatoris Weber, 1913 [Japanese name: Sokokawamuki]

Tydemanina navigatoris: Matsuura, 1985; Yoda *et al.*, 2002.

Suborder Tetraodontoidei
Family Monacanthidae

- Cantherhines multilineatus*** (Tanaka, 1918) [Japanese name: Senumazurahagi]
Cantherhines multilineatus: Hayashi, 2000; Yoda *et al.*, 2002.
- Thamnaconus hypargyreus*** (Cope, 1871) [Japanese name: Sarasahagi]
Thamnaconus tessellatus: Yamada, 1986a.
Thamnaconus hypargyreus: Matsuura, 1997; Yoda *et al.*, 2002.
YK01-T02-05(1N), YK01-C13-22(1N), YK01-C23-25(4K), YK01-C30-10(1K),
YK01-C24-26(2K), YK01-C29-09(1K), YK01-C07-16(1K), YK01-C15-33(2K).
- Thamnaconus modestus*** (Günther, 1877) [Japanese name: Umazurahagi]
Thamnaconus modestus: Matsuura, 1985; Yamada, 1986a.
Thamnaconus septentrionalis: Yoda *et al.*, 2002.
YK01-T02-05(1N).
- Thamnaconus modestoides*** (Barnard, 1927) [Japanese name: Kibirekawahagi]
Thamnaconus modestoides: Matsuura, 1997; Yoda *et al.*, 2002.
YK01-T01-06(1N), YK01-T05-02(1N).

Family Ostraciidae
Subfamily Aracaninae

- Kentrocapros aculeatus*** (Houttuyn, 1782) [Japanese name: Itomakifugu]
Kentrocapros aculeatus: Kishida, 1986; Matsuura, 1988, 1997; Yoda *et al.*, 2002.
YK01-T01-06(1N).

Subfamily Ostraciinae

- Tetrosomus concatenatus*** (Bloch, 1785) [Japanese name: Hamafugu]
Tetrosomus concatenatus: Yoda *et al.*, 2002.
YK01-T19-18(1N), YK01-C02-02(1N).

Family Triodontidae

- Triodon macropterus*** Lesson, 1831 [Japanese name: Uchiwafugu]
Triodon macropterus: Yamada, 1986a; Yoda *et al.*, 2002.
OCA-01-05(1), OCA-03-22(1).
- Lagocephalus gloveri*** Abe & Tabeta, 1983 [Japanese name: Kurosabafugu]
Lagocephalus gloveri: Yoda *et al.*, 2002
OCA-02-06(2).

Family Tetraodontidae

- Canthigaster rivulata*** (Temminck & Schlegel, 1850) [Japanese name: Kitamakura]
Canthigaster rivulata: Matsuura, 1985; Yoda *et al.*, 2002.
- Sphoeroides pachygaster*** (Müller & Troschel, 1848) [Japanese name: Yoritofugu]
Sphoeroides pachygaster: Matsuura, 1985; Yamada, 1986a; Yoda *et al.*, 2002.
YK01-T01-06(1N), OCA-03-04(2).

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